Smart-Lab™ Sys. On Mobile | GOOD DESIGN | CE | PL Insurance Validation(IQ & OQ) Service

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2018
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LABORATORY INSTRUMENTS



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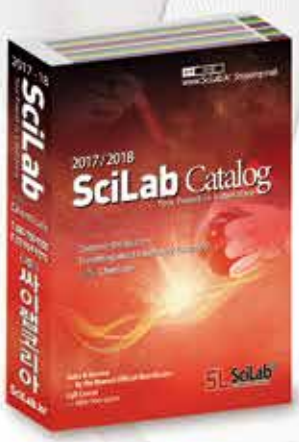
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SL SciLab®
YOUR LAB - FRIEND

The MISSION of SciLab® Science is Life !

It means SciLab® always be with customers through science as a way of life. We are more focused on comprehensive laboratory supports and SCM system for realizing a fast global service and at last, CUSTOMER SATISFACTION levels are the best in the market. It will give people a much better quality of life and contribute to a better scientific improvement. This is our MISSION.

SciLab® is specialized in the production of Manipulating Laboratory Glassware and distribution over 20,000 Items of Essential Laboratory Consumables and Instruments to the world customers. For this successful business, SciLab® has 2 big warehouses at Daejeon and Wonju in Korea those are managed by Digital Assorting System(DAS) and Warehouse Management System(WMS). These 2 major warehouses become foundation for One-day delivery process in Korea. Now, SciLab® is starting to spread our own distribution system and new General Catalog to the world markets included in Korean market. This total supplying service will be always with you anytime and anywhere those are needed our best supports. Thank you very much.

CH Lee
President, CEO / SciLab Korea CH Lee

Chong Ku Shu
Chairman / DAIHAN Group

25 Sep. 2017

SciLab® Lab Instruments Line-up

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SciLab New Generation Instruments Line-up

- Autoclave
- Balance
- Centrifuge
- Chiller
- Incubator
- Freeze Dry System
- Fume Hood
- Furnace
- Gel Doc. System
- Glassware Washer
- LAB Special Mixer
- Reaction System
- Refrigerator
- Refrigerated Heating External Circulator
- Safety Cabinet
- Shaker
- Tube Mix Rotor
- Vortex Mixer
- Water Purification



Autoclave
WiseClave® SAC
P. 6~7



Balance, Ext- & Int-CAL
WiseWeigh™ WBA-220A
P. 9



Centrifuge
WiseSpin® Scef
P. 31



Chiller
WiseCircu® Chi
P. 17



Incubator
WiseCube® SIG
P. 106~107



Freeze Dry System
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P. 54~55



Fume Hood
SHD
P. 59~61



Furnace
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P. 65~66



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LAB Special Mixer
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Reaction System
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Refrigerator
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P. 170~171



Refrigerated Heating
External Circulator
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Safety Cabinet
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Shaker
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Tube Mix Rotor
WiseRotor™ R5
P. 195



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Water Purification
New-P.NIX
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Autoclaves, Steam Sterilizer System, *"WiseClave®"*

Maximum Convenience by Advanced Digital Technology

SciLab New Generation, "WiseClave®"
New Digital Fuzzy Controlled Autoclave, Steam Sterilizer

Safely ! Perfectly !
Innovative Upgrade WiseClave®

SciLab's new Autoclaves are upgraded with a simpler and more ergonomic design. Unique and innovative 'Electronic Safety Door Locking System' and 'Steam Condensing Mechanism' maximize the user safety, which is the most critical feature of autoclave product. New Lever-type Door Handle makes anybody open and close the door very easily and safely. Both of Solid and Liquid cycles are offered up to the samples to be sterilized, which ensures optimum sterilizing performance.



New Steam Sterilizers,
Digital Fuzzy Controlled Autoclaves

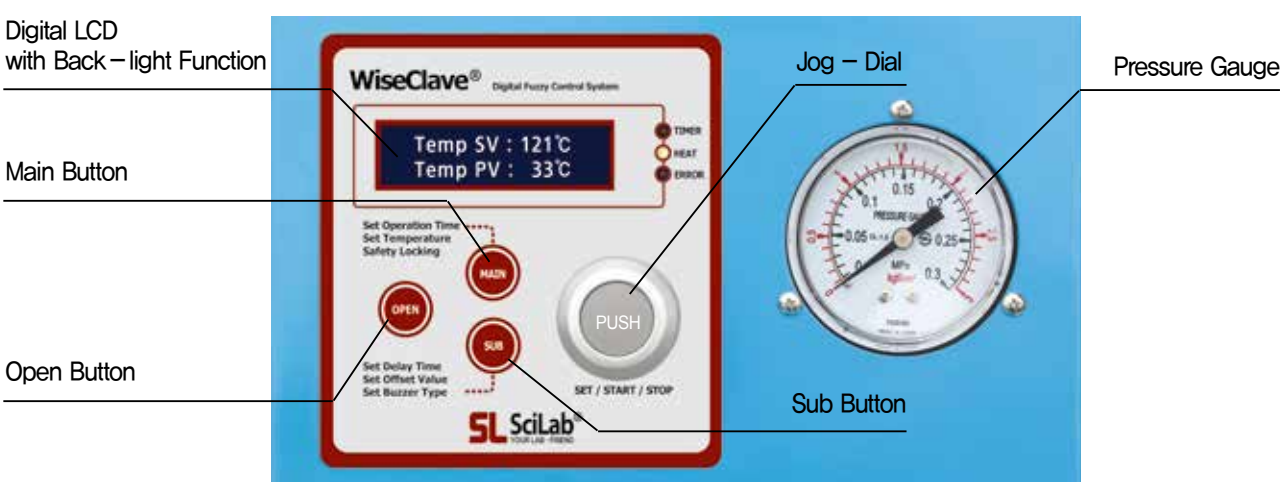
Safety Upgrade

- Special **'Steam Condensing Mechanism'** protects the user from hot steam after sterilizing cycle, by condensing the hot steam into small amount of water : patent registered.
- **'Safety Door Locking System'** ensures the door firmly locked by electronic-controlled switch and solenoid latch while sterilizing cycle is ongoing. The door can be opened only when there is no hot-steam and high-pressure inside the pressure Tank ; patent registered.
- **CE** certified as a medical device, by which SciLab's autoclaves can be supplied to the hospitals in Europe.
- Stainless Steel Cover is implemented to prevent the user from burn by high temperature in the pressure Tank
- Very high quality **Over Pressure Valve** is used to automatically release abnormal high pressure inside the Tank

Function/Convenience Upgrade

- **One-Touch Lever-type Door Handle** is invented and implemented for the user to open & close the door very easily and safely : patent registered.
- Two different operation mode of **Solid and Liquid Cycle** are offered, which can be chosen up to the kind of sample to be sterilized.
- New Jog-Dial Controller with simples user interface: patent registered
- Digital Timer functions for Delay time and Operation time are available.
- Innovative Easy-to-Use Digital Fuzzy Controller.
- Digital LCD with Back-Light

New Jog-Dial Controller



Articles	Cat. No	Description

SciLab-brand® Digital Fuzzy-control Autoclaves, *"WiseClave® SAC"*, Electronic Door Lock System, 47-/60-/80-/100-Lit.

with Electronic Door Lock Sys, Lever-type Sliding Door, Steam Condensing, Solid-/Liquid-Modes, Max.2 kgf/cm², up to 132℃
(1) PED Certified-model(Φ 3mm Thick-Tank), (2) Non-PED-model(Φ 2mm Thick-Tank), **전자동 고압 멸균기, 전자식 도어 잠금 시스템**



Digital Duzzy Control Autoclave, Standard-type,
"WiseClave® SAC-80"

(1) With PED Certi. 3mm Thick-Tank
(2) Without PED Certi. 2mm Thick-Tank

- ***Made in Korea*** ■ ***CE and PED Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Patented Special Steam Condensing Mechanism, Lever-type Sliding Door***
- ***Built in SciLab-brand® New Generation Controller : Patented Jog-Dial Control System***
- ***Electronic Door Lock Sensing System for User Safety.***
- ***Door Open Button Automatically Lock Over 80℃ for User Safety***

∗ Ideal for Biotechnology, Clinical, Environmental, Medical and Food Industry.
∗ Innovative Easy-to-Use Digital Fuzzy Controller. ∗ Included 2×Wire Baskets
∗ Casters equipped for Excellent Mobility. ∗ Digital LCD with Back-Light Function.
∗ Digital Timer Function - 'Delay Time' and 'Operation Time' can be Controlled.
∗ Solid / Liquid Mode can be chosen by a customer considering a Sample Phase.
∗ Water Low Level Detection ∗ Automatic Over Pressure Release Valve ensures User Safety.
∗ Sterilization Error Indication : Error Alarm and Massage in case of Power Failure and Temperature Error

Specifications & Ordering information

Spec. \ Model		WiseClave® SAC-47	WiseClave® SAC-60	WiseClave® SAC-80	WiseClave® SAC-100
Capacity		47 Lit.	60 Lit.	80 Lit.	100 Lit.
Temp. Range & Accuracy		Room Temp +5℃ to 132℃, ±0.5℃ at 121℃			
Pressure & Gauge		1.2 kgf/cm² at 121℃ / 2.0 kgf/cm² at132℃, 0 ~ 3 kgf/cm²			
Sterilization mode		Solid- or Liquid-mode			
Heating Power/Consumption		2 kW	3 kW	2 kW×2	2 kW×2
Timer & Alarm		60 min, Error status & Timer-end			
Display		Digital LCD with Back-Light Function			
Controller		Digital Fuzzy-Control System (Fully Automatic)			
Door & Closing System		Lever-type Sliding Door / Safety Electronic Door Closing System			
Safety Circuit		Over-Temp./-Pressure/-Current protection, Sensor Error Detection			
Printer		Thermal type printer, Record Paper Roll: w58 ×Φ40 mm			
Material		Stainless steel (#304)-Pressure Vessel, Powder Coated steel-External			
Basket		2ea of Stainless steel Wire Baskets are Included			
Basket Dimension (mm)		Φ270×h240	Φ320×h240	Φ370×h240	Φ420×h240
Dimension (w×d×h)	Inner (mm)	Φ300×h670	Φ350×h650	Φ400×h650	Φ450×h630
	Outer (mm)	700×470×1080	700×470×1080	810×580×1140	810×580×1140
Packing Size (mm)		840×610×h1,252 mm		950×730×h1,352 mm	
Gross Weight (kg)		117 kg	120 kg	170 kg	170 kg
Electric Reqts.		1Phase - AC 120V, 60Hz or - AC 230V, 50/60Hz		1 Phase - AC 120V, 60Hz or - AC 230V, 50/60Hz 3 Phase with Terminal Block	

(1) With PED(Pressure Equipment Directive) Certification, Φ 3mm Thick-Tank NEW

Standard-type Cat. No.	230V	SL.SAC05047P	SL.SAC05060P	SL.SAC05080P	SL.SAC05100P
	120V	SL.SAC06047P	SL.SAC06060P	SL.SAC06080P	SL.SAC06100P
	3Phase	-	-	SL.SAC07080P	SL.SAC07100P
Price, Each. ₩		3,954,000	4,180,000	5,615,000	6,153,000

(2) Without PED(Pressure Equipment Directive) Certification, Φ 2mm Thick-Tank

Standard-type Cat. No.	230V	SL.SAC05047	SL.SAC05060	SL.SAC05080	SL.SAC05100
	120V	SL.SAC06047	SL.SAC06060	SL.SAC06080	SL.SAC06100
	3Phase	-	-	SL.SAC07080	SL.SAC07100
Price, Each. ₩		3,664,000	3,891,000	5,066,000	5,587,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 30,000 별도!

<Continued On Next Page>

Articles	Cat. No	Description

<*Continued From...*SciLab-brand® Digital Fuzzy-control Autoclaves, *"WiseClave® SAC"* Standard-/Recorder-type>



(3) Wire Basket Stainless-steel
(Included)



(4) Perforated Bottom Basket, Stainless-steel
(Optional)

(3) Spare Wire Baskets, Stainless-steel & Thermal Paper for Recorder

		Ea. Price, ₩
SL.Bas7011	Wire Basket, Φ270×h240mm, **"Bas7011"**, for **47 Lit, "WiseClave SAC-47"**	69,940
SL.Bas7012	Wire Basket, Φ320×h240mm, **"Bas7012"**, for **60 Lit, "WiseClave SAC-60"**	77,760
SL.Bas7013	Wire Basket, Φ370×h240mm, **"Bas7013"**, for **80 Lit, "WiseClave SAC-80"**	85,780
SL.Bas7014	Wire Basket, Φ420×h240mm, **"Bas7014"**, for **100 Lit, "WiseClave SAC-100"**	93,800

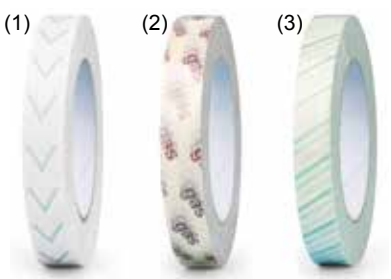
(4) Optional Perforated Bottom Baskets, Stainless-steel

		Ea. Price, ₩
DH.WAC20047	Perforated Basket, Φ270×h250mm, **"WAC20047"**, for **47 Lit. "WiseClave SAC-47"**	121,000
DH.WAC20060	Perforated Basket, Φ320×h250mm, **"WAC20060"**, for **60 Lit. "WiseClave SAC-60"**	141,000
DH.WAC20080	Perforated Basket, Φ370×h250mm, **"WAC20080"**, for **80 Lit. "WiseClave SAC-80"**	161,000
DH.WAC20100	Perforated Basket, Φ420×h250mm, **"WAC20100"**, for **100 Lit. "WiseClave SAC-100"**	181,000

Autoclave with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SAC30047	Validation Service(IQ, OQ), with "WiseClave SAC-47"	On Request
SL.SAC30060	, with "WiseClave SAC-60"	On Request
SL.SAC30080	, with "WiseClave SAC-80"	On Request
SL.SAC30100	, with "WiseClave SAC-100"	On Request

Autoclaves, *Accessories*



for Dry-Heat | for EO-Gas | for Auto-Clave

Sterilization Indicator Tapes, w19mm×L50m/Roll
for Dry-Heat, EO-Gas, and Steam Sterile/Autoclaving, **멸균 감지 테이프**

∗ Changing Color after Expose to Sterilization Process(Dry-Heat, EO-gas, Steam Sterile)

(1) For Dry-Heat Sterile ∗ Supplied by Kartell® in Italy

		Ea.	Price, ₩
KA.1051	Dry-Heat Sterile Indicator, w19mm×L50m-Roll, White→Brown	1roll	55,770

(2) For EO-Gas Sterile ∗ Supplied by Heinz Herenz® in Germany

		Ea.	Price, ₩
HH.1080551	EO-Gas Sterile Indicator, w19mm×L50m-Roll, Red→Green	1roll	11,220

(3) For Steam Sterile/Autoclaving ∗ Supplied by Heinz Herenz® in Germany

		Ea.	Price, ₩
HH.1080550	Autoclave/Steam Sterile Indicator, w19mm×L50m-Roll, Green→Brown	1roll	6,780

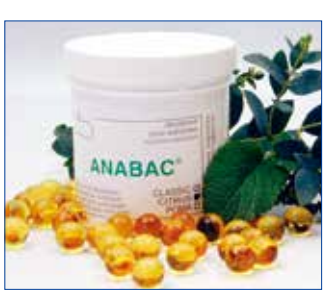


Dry-Heat Sterilizer Indicator Label on Sheet, 160℃/3h, 180℃/30min, Pink ⇒ Brown
for Indicating Sterilizer, Color-Changing : from Pink to Brown, **가열 멸균 감지 라벨**

■ ***Supplied by LMS® in Japan***

∗ Change of Color : Pink ▶ Brown
∗ Changing Time : 30 minutes at 180℃, 3 Hours at 160℃

		Cs.	Price, ₩
AS2.6419.01	Heat-Sterile Label "D-L", w19×L32㎜	500ea	94,950



Anabac® Deodorant "Classic" for Autoclaving, 100 Tablets
Ideal for deodorization, Deodorant Capacity : max 200Lit. per One-tablet, **오토클레이브용 탈취제**

■ ***Supplied by LMS® in Japan***

∗ Franchi Bracing Fragrance
∗ 100 Tablets / Packed in PP/Paper Container
∗ Deodorant Volume : Max 200Lit. per 1-Tablet

		Pk.	Price, ₩
AS2.6361.01	Deodorant for Autoclave, 100 Tablets / a Container	100ea	242,910

SciLab Korea

Balances

Balances - Analytical ..... P. 9~10
- Electronic Laboratory ..... P. 11
Moisture Analyzer ..... P. 12



Analytical Balance, Ext-CAL
Standard Analytical Balance
"WiseWeigh™ WBA-220" 0.1mg ~ 220g



Analytical Balance, Int-CaL
Standard Analytical Balance
"WiseWeigh™ WBA-220A" 0.1mg ~ 220g



Lab Balance, Ext-CAL
Hi-Precision Lab Balance
"WiseWeigh™ WBA-320 / 620"
1mg ~ 320 / 620g



Lab Balance, Int-CaL
Hi-Precision Lab Balance
"WiseWeigh™ WBA-620A" 1mg ~ 620g



Moisture Analyzer
High-performance Moisture Analyzer
"WiseWeigh™ WBA-110M" 1mg ~ 110g



Lab Balance
Hi-Standard Lab Balance
"WiseWeigh™ WBA-3200 / 6200"
0.01 ~ 3200 / 6200g

SciLab-brand® 0.1mg~220g Standard Analytical Balance, *"WiseWeigh™"*, Ext-CAL "WBA-220", Int-CAL "WBA-200A"

with Glass Draft Shield, Backlit LCD, Counting Function, Various Weight Mode, Φ80 / 90mm Weighing Plate

"Ext-CAL 외부 보정형" & "Int-CAL 자동 보정형" 표준 분석/화학 천평, 계수계 겸용, 작업보호카바포함



Ext-CAL 0.1mg ~ 220g "WiseWeigh™ WBA-220"



Int-CAL 0.1mg ~ 220g "WiseWeigh™ WBA-220A"

- ***CE Certified***
- ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Available Counting & Weighing Mode***
- ***Various Weight Mode(g/ct/%/GN/dwt/etc)***
- ***Numberic Linearity Calibration***
- ***External Calibration Weight Free with Scale 200g***
- ***Weighing Response Time Adjustable***
- ***Blue Back Light LCD***
- ***with AC 230V Adapter for DC Power 9V / 3A***
- ***with Φ80/90mm Weighing Plate and Glass Draft Shield***

* Ambient Temperature 5.0~35℃
* Stabilization Time(Typical at Fast) ≤ 8 Seconds
* Included Glass Draft Shield
* Available Counting & Weighing Mode
* Included 200g Calibration Weight (Ext-CAL Model)
* Built in RS232C for Printer
* Built in Under Hook
* Electro Magnetic Base
* Appearance Parameters
* Numberic Linearity Calibration
* Weighing Response Time Adjustable
* Back Light LCD

Specifications & Ordering information

Spec. \ Model	"WiseWeigh™ WBA-220" Ext-CAL	"WiseWeigh™ WBA-220A" Int-CAL *New*
Weighing Range. mg	**0.1 mg ~ 220 g**	
Weighing Plate. mm	Φ 80 mm	Φ 90 mm
Read-Out [d]. mg	0.1 mg	
Reproducibility. mg	0.1 mg	
Linearity. mg	0.1 mg	
Ambien Temperature	5.0~35℃	
Weight Mode	g / ct	g / ct / % / GN / dwt / etc
Counting Mode	Available Counting & Weighing Mode	
Calibration	**External Calibration, Included 200g Calibration Weight**	**Internal Calibration, AUTO**
Display	Digital LCD with Back-Light Function	
Dimension & Net Weight	190×240×h265mm / 6.3 kg	223×345×h331mm / 5.7 kg
Packing Size & Gross Weight	290×420×h490mm / 8.3 kg	390×510×h520mm / 10.1 kg
Electrical Reqts.	AC 220V, 50 / 60Hz	DC 15V, with AC 230V Adapter, 50/60Hz
Cat. No.	**SL.WBA0220**	**SL.WBA0220A**
Price, Each. ₩	1,259,000	2,517,000

Optional Thermal Printers

		Ea. Price, ₩
SL.WBA.100P	(1) Thermal Printer, Paper Roll, **"WBA-100"** Included Cable Module, 1×Paper Roll	484,000
SL.WBA0084	Thermal Paper Package, 5×Paper Roll, for **"WBA-100"**	14,520
SL.WBA.420P	(2) Thermal Printer, Label Paper Roll, **"WBA-420"** Included Cable Module, 1×Label Paper Roll	909,920
SL.WBA0771	Thermal Label Paper Package, 5×Label Paper Roll, for **"WBA-420"**	30,980



(1) RS-232C Thermal Printer, "WBA-100"



(2) RS-232C Thermal Label Printer, "WBA-420"

SciLab-brand® 1mg~320/620g Hi-Precision Lab Balance, *"WiseWeigh™"*, Ext-CAL "WBA-320/620", Int-CAL "WBA-620A" with Glass Draft Shield, Super Size Backlit LCD, Counting Function, Various Weight Mode, Φ90 / 110 / 128mm Weighing Plate

"Ext-CAL 외부 보정형" & "Int-CAL 자동 보정형" 다기능 랩 바란스, g /계수/ % 측정, 작업보호카바 포함

"Ext-CAL" 0.1mg ~ 320g / 620g CE



Included 200g Calibration Weight

2-Year Warranty

0.001~320g Ext-CAL "WiseWeigh™ WBA-320"
& 0.001~620g Ext-CAL "WiseWeigh™ WBA-620"

NEW *"Int-CAL" 0.1mg ~ 620g* CE



2-Year Warranty

Int-CAL 0.001~620g, "WiseWeigh™ WBA-620A"

- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Available Counting & Weighing(g / %) Mode***
- ***Various Weight Mode (Available g-/ct-/GN-/dwt-/etc.)***
- ***Included 200g or 500g Calibration Weight(WBA-320 : 200g, WBA-620 : 500g)***
- ***Numberic Linearity Calibration*** ■ ***Time & Date Setting for Recording Data***
- ***Available Rechargeable Battery(6V/1.2A, Excluded)***
- ***with AC Adapter for DC Power 12V/500mA(WBA-320), 15V/300mA(WBA-620/-620A)***
- ***Four Level Anti-shock Adjustable Function*** ■ ***For Both AC and DC***
- ***Weighing Response Time Adjustable*** ■ ***Super Size Back Light LCD***

∗ Ambient Temperature 5.0~35℃
∗ Stabilization Time(Typical at Fast) ≤ 8 Seconds
∗ Default and Auto Lock Present Working Mode
∗ Built in RS232C & USB port for Printer
∗ Electro Magnetic Base
∗ Available Counting & Weighing Mode
∗ Included Glass Draft Shield
∗ Built in Under Hook
∗ Display Present Temperature
∗ Percent(%) Weighing Mode

Specifications & Ordering information

Spec. \ Model	"WiseWeigh™ WBA-320"	"WiseWeigh™ WBA-620"	"WiseWeigh™ WBA-620A" Int-CAL *New*
Weighing Range. g	**0.001 ~ 320 g**	**0.001 ~ 620 g**	
Weighing Plate. mm	Φ 90 mm	Φ 128 mm	Φ 118 mm
Read-Out [d]. g	0.001 g		
Reproducibility. g	0.001 g		
Linearity. g	0.001 g		
Ambient Temp.	5.0~35℃		
Weight Mode	% Mode and Available g-/ct-/GN-/dwt-/etc...		
Counting Mode	Available Counting & Weighing Mode		
Calibration	**External Calibration**		**Internal Calibration**
	Included 200g Calibration Weight	**Included 500g Calibration Weight**	**AUTO**
Display	Digital Super Size LCD with Back-Light Function		
Dimension & Net Weight	223×345×h331mm 3.6 kg	223×345×h331mm 5.7 kg	
Packing Size & Gross Weight	290×385×h365mm 5.1 kg	390×510×h520mm 10.1 kg	
Electrical Reqts.	DC 12V, with AC 230V Adapter, 50/60Hz	DC 15V, with AC 230V Adapter, 50/60Hz	
Cat. No.	**SL.WBA0320**	**SL.WBA0620**	**SL.WBA0620A**
Price, Each. ₩	717,000	1,181,000	2,324,000

Optional Thermal Printers

		Ea. Price, ₩
SL.WBA.100P	(1) Thermal Printer, Paper Roll, **"WBA-100"** Included Cable Module, 1×Paper Roll	484,000
SL.WBA0084	Thermal Paper Package, 5×Paper Roll, for **"WBA-100"**	14,520
SL.WBA.420P	(2) Thermal Printer, Label Paper Roll, **"WBA-420"** Included Cable Module, 1×Label Paper Roll	909,920
SL.WBA0771	Thermal Label Paper Package, 5×Label Paper Roll, for **"WBA-420"**	30,980



(1) RS-232C Thermal Printer, "WBA-100"



(2) RS-232C Thermal Label Printer, "WBA-420"

SciLab-brand® 0.01~3200/6200g Hi-Standard Lab Balance, *"WiseWeigh™ WBA-3200/-6200"*, 168×168mm Weighing Plate with Super Size Back Light LCD, Counting Function, Ext-CAL, 2kg Cali. Weight, Various Weight Mode, with Certi. & Traceability

표준 다용도 랩 바란스, g / **계수** / % **측정,** Ext-CAL(**표준분동 포함**), 4**각플레이트**



Included 2kg Calibration Weight (Only "WBA-3200" model)

2-Year Warranty

0.01~3200g or 6200g, Hi-Standard Lab Balances, ex. "WiseWeigh™ WBA-3200"

- ■ ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Available Counting & Weighing(g / %) Mode***
- ■ ***Various Weight Mode (Available g-/ct-/GN-/dwt-/etc...)***
- ■ ***External Calibration*** ■ ***Numberic Linearity Calibration***
- ■ ***Available Rechargeable Battery(6V/1.2A, Excluded)***
- ■ ***with AC 230V Adapter for DC Power 12V/500mA***
- ■ ***Four Level Anti-shock Adjustable Function***
- ■ ***Time & Date Setting for Recording Data*** ■ ***For Both AC and DC***
- ■ ***Weighing Response Time Adjustable*** ■ ***Super Size Back Light LCD***

∗ Ambient Temperature 5.0~35℃
∗ Stabilization Time(Typical at Fast) ≤ 8 Seconds
∗ Default and Auto Lock Present Working Mode
∗ Included 2kg Calibration Weight(only WBA-3200)
∗ Built in RS232C & USB port for Printer
∗ Electro Magnetic Base
∗ Available Counting & Weighing Mode
∗ Various Weight Mode (Available g-/ct-/GN-/dwt-/etc.)
∗ Numberic Linearity Calibration
∗ Super Size Back Light LCD
∗ Glass Draft Shield(Optional)
∗ Built in Under Hook
∗ Display Present Temperature
∗ Percent(%) Weighing Mode
∗ Weighing Response Time Adjustable

Specifications & Ordering information

Spec. \ Model	"WiseWeigh™ WBA-3200"	"WiseWeigh™ WBA-6200"
Weighing Range. g	**0.01 ~ 3200 g**	**0.01 ~ 6200 g**
Weighing Plate. mm	168×168 mm	
Read-Out [d]. g	0.01 g	
Reproducibility. g	0.01 g	
Linearity. g	0.01 g	
Ambient Temperature	5.0~35℃	
Weight Mode	% Mode and Available g-/ct-/GN-/dwt-/etc...	
Counting Mode	Available Counting & Weighing Mode	
Calibration	External Calibration	
	Included 2kg Calibration Weight	none
Display	Digital Super Size LCD with Back-Light Function	
Dimension & Net Weight	195×295×h90mm / 2.6 kg	
Packing Size & Gross Weight	243×377×h163mm / 3.2 kg	
Electrical Reqts.	DC 12V, with AC 230V Adapter, 50/60Hz	
Cat. No.	**SL.WBA3200**	**SL.WBA6200**
Price, Each. ₩	717,000	1,181,000



(1) Glass Draft Shield (Optional)



(2) RS-232C Thermal Printer, Paper "WBA-100"



(3) RS-232C Thermal Printer, Label "WBA-420"

Optional Glass Draft Shield

		Ea. Price, ₩
SL.WBA0003	(1) Glass Draft Shield, 3 Slide Doors(Left, Right, Top), 175×195×h230 mm	136,000

Optional Thermal Printers

		Ea. Price, ₩
SL.WBA.100P	(2) Thermal Printer, Paper Roll, **"WBA-100"** Included Cable Module, 1×Paper Roll	484,000
SL.WBA0084	Thermal Paper Package, 5×Paper Roll, for **"WBA-100"**	14,520
SL.WBA.420P	(3) Thermal Printer, Label Paper Roll, **"WBA-420"** Included Cable Module, 1×Label Paper Roll	909,920
SL.WBA0771	Thermal Label Paper Package, 5×Label Paper Roll, for **"WBA-420"**	30,980

Articles	Cat. No	Description

SciLab-brand® 1mg~110g High-performance Moisture Analyzer, *"WiseWeigh™ WBA-110M"*, 0.00~ 100.00 %, 40~199℃ with 100g Cali. Weight, Back Light LCD, Counting Func., 3×displays of %(g) / ℃ / Time, & Ext-CAL program, 초정밀/다용도 수분측정기



Included 100g Calibration Weight

2-Year Warranty

1mg~110g High-performance Moisture Analyzer "WiseWeigh™ WBA-110M"

- ***CE Certified***
- ***PL (Product Liability) Insurance***
- ***The Percentage of moisture Content***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Included 100g Calibration Weight***
- ***Store Historical Setting***
- ***Halogen Light Heating***
- ***Stainless-steel Chamber***
- ***Temperature and Time can be Set***
- ***External Calibration***
- ***The Percentage of Dry Residual***
- ***Back Light LCD***
- ***3×Display after Drying : Humidity(%) - Reduce Weight of Liquid Dry Mass(%) - Weight of Solid ATRO(%) - 100 ~ 999%***

∗ Digital Function, and AC 220V, 50/60Hz Operated
∗ Ambient Temperature 5.0~35℃
∗ Loadcell Sensor
∗ Default and Auto Lock Present Working Mode
∗ Built in RS232C & USB port for Printer
∗ Included 10ea Sample Plates



(1) 10ea Sample Plates(Included)



(2) RS-232C Thermal Printer, Paper "WBA-100"



(3) RS-232C Thermal Printer, Label "WBA-420"

Specifications & Ordering information

Spec. \ Model	"WiseWeigh™ WBA-110M"
Weighing Range. g	**0.001 ~ 110 g**
Weighing Plate. mm	Φ 90 mm
Read-Out [d]. g	0.01 mg
Reproducibility. g	0.1 mg
Ambient Temperature	5.0~35℃
Heat Source / Temp. Sensor	Halogen Lamp / PT100 Sensor
Temp. Range / Resolution	40 ~ 199 ℃ / 1 ℃
Moisture Range / Read ability	0.00 ~ 100% / 0.01%
Dry Residual	Range : 0.00 ~ 100.00%, Read ability : 0.01%
ATRO	100 ~ 999%, 0 ~ 999%
Timer / Auto-stop	1 ~ 99min(Resolution : 1Sec.) / Auto-stop 0.1~9.9% within 1min.
Number of Storage	15
Calibration	External Calibration, Included 100g Calibration Weight
Display	Digital LCD with Back-Light Function
Power Consumption	400 W
Dimension & Net Weight	180×200×h380 mm / 5.8 kg
Packing Size & Gross Weight	290×305×h440 mm / 6.4 kg
Power Supply & Cord Plug	AC 220V, 50 / 60Hz
Cat. No.	**SL.WBA110M**
Price, Each. ₩	1,739,000

Optional Sample Plates

Cat. No		Pk.	Price, ₩
SL.WBA0005	(1) Sample Plates, Φ90 mm×h4mm	10ea	3,880

Optional Thermal Printers

Cat. No		Ea. Price, ₩
SL.WBA.100P	(2) Thermal Printer, Paper Roll, **"WBA-100"** Included Cable Module, 1×Paper Roll	484,000
SL.WBA0084	Thermal Paper Package, 5×Paper Roll, for **"WBA-100"**	14,520
SL.WBA.420P	(3) Thermal Printer, Label Paper Roll, **"WBA-420"** Included Cable Module, 1×Label Paper Roll	909,920
SL.WBA0771	Thermal Label Paper Package, 5×Label Paper Roll, for **"WBA-420"**	30,980

SciLab Korea

Baths

Bath, Chiller ····· P. 17
, Cold Trap ····· P. 18
, Extraction Water Bath, Multi-purpose ····· P. 19
, General Purpose, 100℃ ····· P. 14~15
, General Purpose, 250℃ ····· P. 16
, High-Temp. Bath Circulators ····· P. 20
, Magnetic Stirring ····· P. 21
, Refrigerated Bath Circulators ····· P. 22~23
, Refrigerated Heating External Circulators ····· P. 24
, Shaking Water Bath ····· P. 26
, Viscosity ····· P. 27
, Accessories ····· P. 25



Water Bath
"WiseBath® SB-11"



Circulation Water Bath
"WiseBath® SCB-22"



Chiller
"WiseCircu® Chi-20"



High-temp Bath Circulator
"WiseCircu® SCH"



Refrigerated Bath Circulator
"WiseCircu® SCL"



Refrigerated Heating
External Circulator
"WiseCircu® SHR-20"



Shaking Water Bath
"WiseBath® SSB-30"



Viscosity Bath
"ViscoBath™ SVB-30"

SciLab-brand® Digital General Purpose Water Bath, *"WiseBath® SB"*, 6-/11-/22- Lit, up to 100℃, ±0.1℃, CE-Certi. with Digital Fuzzy Control System, 1×Stainless-steel Flat Lid, and Back Light LCD, with Certi. & Traceability

정밀 범용 항온수조, 디지털 퍼지 제어 시스템, 스텐리스 스틸 리드 포함



Digital Precise Water Bath, 11Lit. "WiseBath® SB-11"

- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

* User's Self-Compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0℃).
* 304 Stainless steel Bath & Lid for Superior Durability & High Thermal Efficiency/Constant.
* Digital Timer Function(99hr 59min) : 'Delay Time' and 'Operation Time' can be Controlled.
* Storage Function for the Set Values of Temperature and Timer.
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled).

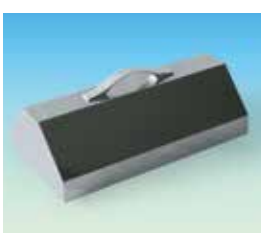
Specifications & Ordering information

Spec. \ Model		"WiseBath® SB-6"	"WiseBath® SB-11"	"WiseBath® SB-22"
Capacity		6 Lit.	11 Lit.	22 Lit.
Temp. Range & Accuracy		Room Temp.+5℃~100℃, ±0.1℃		
Temp. Resolution		0.1℃-Display, 0.1℃-Control		
Temp. Uniformity & Probe		±1.0℃, PT100		
Heating Power		800 W	1 kW	2 kW
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog - Shuttle Switch (Turn+Push)		
Safety Circuit		Over-Temp. / -Current protection, Sensor Error Detection		
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External		
Lid		included Stainless-steel Flat Lid, Optional Dome Lid		
Drain Valve		None		Mounted(φ9.5~11mm)
Dimension (w×d×h)	**Effective Space**	300×155×h110mm	302×240×h110mm	500×295×h110mm
	Internal	300×155×h150mm	302×240×h150mm	500×295×h150mm
	External	325×180×h260mm	325×265×h260mm	535×330×h260mm
Packing Size (mm) and Gross Weight (kg)		350×210×h310mm, 8 kg	350×300×h310mm, 10 kg	570×360×h310mm, 14 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Cat. No.	**230V**	**SL.SB000106**	**SL.SB000111**	**SL.SB000122**
	120V	**SL.SB000206**	**SL.SB000211**	**SL.SB000222**
Price, Each. ₩		**448,000**	**448,000**	**523,000**

*** Other Specifications are available upon Customer's Request.**



(1) Flat Lid, Stainless-steel (Included)



(2) Dome Lid, Stainless-steel



(3) "BFC106"
Lid with Concentric Ring Cover Sets for 6Lit.



(4) "BFC111"
Lid with Concentric Ring Cover Sets for 11Lit.



(5) "BFC122"
Lid with Concentric Ring Cover Sets for 22Lit. Bath



(6) Test Tube Rack, Stainless-steel

Optional Lids and Tube Rack, Stainless-steel

		Ea. Price, ₩
DH.WB010206	(2) Dome Lid, for **6 Lit,** 324×176×h100mm, **"BD206"**	129,000
DH.WB010211	, for **11 Lit,** 324×263×h100mm, **"BD211"**	143,000
DH.WB010222	, for **22 Lit,** 533×328×h100mm, **"BD222"**	163,000
DH.WB030106	(3) Lid with 2×Concentric Ring Cover Sets, for **6 Lit,** Stainless-steel, 330×182×h20mm, **"BFC106"**	63,000
DH.WB030111	(4) Lid with 2×Concentric Ring Cover Sets, for **11 Lit,** Stainless-steel, 329×269×h20mm, **"BFC111"**	77,000
DH.WB030122	(5) Lid with 6×Concentric Ring Cover Sets, for **22 Lit,** Stainless-steel, 539×334×h20mm, **"BFC122"**	135,000
DH.WB020106	(6) Tube Rack, for **6 Lit**, 36Hole×φ17mm, **"BTH106",** Stainless-steel, 220×125×h78.5mm	36,000
DH.WB020206	(6) Tube Rack, for **6 Lit**, 15Hole×φ32mm, **"BTH206",** Stainless-steel, 220×125×h78.5mm	36,000
DH.WB020111	(6) Tube Rack, for **11 Lit**, 63Hole×φ17mm, **"BTH111",** Stainless-steel, 220×205×h78.5mm	43,000
DH.WB020211	(6) Tube Rack, for **11 Lit**, 25Hole×φ32mm, **"BTH211",** Stainless-steel, 220×205×h78.5mm	43,000

Water Bath with Validation (IQ, OQ) Service

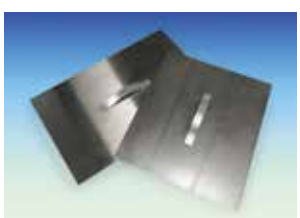
		Ea. Price, ₩
SL.SB040106	Validation Service(IQ, OQ), with "WB-6" , **"BV106"**	On Request
SL.SB040111	, with "WB-11", **"BV111"**	On Request
SL.SB040122	, with "WB-22", **"BV122"**	On Request

SciLab-brand® Digital Precise Circulation Water Bath, *"WiseBath® SCB"*, 6-/11-/22- Lit, with Certi. & Traceability

with 1 ×Stainless-steel Flat Lid, Powerful Circulation Pump, up to 100℃, ±0.1℃, 5 Lit./min, **정밀 항온 순환 수조**



Digital Precise Circulation Water Bath "WiseBath® SCB-22"



Flat Lid, Stainless-steel
(Included)

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

∗ Ideal for Biotechnology, Clinical, Environmental, Medical, Petroleum, Food Industry, Pharmaceutical and Industrial Applications. ∗ Alarm function : Error Status and Timer-end
∗ Warning and Automatic Stop Function in case of Liquid Shortage.
∗ Powerful Circulation Pump Assures Temp. Uniformity : Internal and External Circulation.
∗ Connection with Evaporators and Viscometers is applicable.

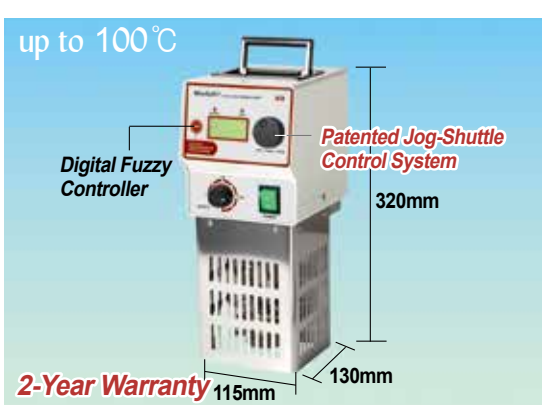
Specifications & Ordering information

Spec. \ Model		"WiseBath® SCB- 6"	"WiseBath® SCB-11"	"WiseBath® SCB- 22"
Capacity		6 Lit.	11 Lit.	22 Lit.
Temp. Range & Accuracy		Room Temp.+5℃~ 100℃, ±0.1℃		
Temp. Resolution		0.1℃-Display, 0.1℃-Control		
Temp. Uniformity & Probe		±0.2℃, PT100		
Heating Power		800 W	1 kW	2 kW
Pump		5 Lit. / min (Internal / External)		
Circulation Nozzle		i.d. 7×o.d. 11 mm (i.d. 9 / o.d. 12mm silicon tube connected for inner circulation)		
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end		
Controller & Display		Digital Fuzzy Controller with Back Light Digital LCD		
Safety Circuit		Over-Temp./-Current protection, Sensor Error & Low Level Detection		
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External		
Drain Valve		None		Mounted(Φ9.5~11mm)
Dimension (w×d×h)	Effective Space	120×155×h150 mm	170×240×h150 mm	372×295×h150 mm
	Internal	300×155×h150 mm	302×240×h150 mm	500×295×h150 mm
	External	330×185×h385 mm	335×275×h385 mm	540×335×h410 mm
Packing Size (mm) and Gross Weight (kg)		350×210×h410mm, 11 kg	360×300×h420mm, 13 kg	580×380×h470mm, 18 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Cat. No.	230V	SL.SCB00106	SL.SCB00111	SL.SCB00122
	120V	SL.SCB00206	SL.SCB00211	SL.SCB00222
Price, Each. ₩		614,000	621,000	695,000

∗ Other Specifications are available upon Customer's Request. ※ 운임 약 ₩ 9,000 별도!

SciLab-brand® Digital Precise Circulation Immersion Pump Head, *"WiseBath® SCB"*, 11-/22- Lit, up to 100℃

with Digital Fuzzy Control System, Certi. & Traceability, Power Circulation Pump, 5 Lit/min, **정밀 항온 순환기**



Digital Precise Immersion Circulator Head "WiseBath® SCB-11H"





- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

∗ Ideal for Biotechnology, Clinical, Environmental, Medical, Petroleum, Food Industry, Pharmaceutical and Industrial Applications. ∗ Alarm function : Error Status and Timer-end
∗ Powerful Circulation Pump Assures Temp. Uniformity : Internal and External Circulation.

Specifications & Ordering information

Spec. \ Model		"WiseBath® SCB- 11H"	"WiseBath® SCB- 22H"
Capacity		11 Lit.	22 Lit.
Temp. Range & Sensor		Room Temp.+5℃~ 100℃, PT100	
Heating Power & Pump		1 kW, 5 Lit. / min	2 kW, 5 Lit. / min
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end	
Controller & Display		Digital Fuzzy Controller with Back Light Digital LCD	
Safety Circuit		Over-Temp./-Current protector, Sensor Error & Low Level Detection	
Dimension		130×165×h320 mm	
Packing Size (mm) and Gross Weight (kg)		400×280×h200 mm, 8 kg	400×280×h200 mm, 10 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	SL.SCB10011	SL.SCB10022
	120V	SL.SCB20011	SL.SCB20022
Price, Each. ₩		451,000	463,000

Articles	Cat. No	Description

SciLab-brand® Digital High-Temperature Oil Bath, *"WiseBath® SHB"*, 6-/11-/22-Lit, with Certi. & Traceability NEW

with 1 ×Stainless-steel Flat Lid, Digital Fuzzy Control System, Back Light LCD, up to 250℃, ±1.5℃

정밀 고온 오일 베스, 디지털 퍼지 제어 시스템, 스텐리스 스틸 리드 포함



Digital High Temperature Oil Bath, 11Lit., "WiseBath® SHB-11"



Included Flat Lid, Stainless-steel

- ***Made in Korea.*** ■ ***PL (Product Liability) Insurance.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy.***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function.***

∗ Rustless 304 Stainless-steel Bath having 1.2mm & Ceramic Fiber Insulator of 50mm Thickness.
∗ User's Self-Compensation Function to Control Difference between Real Temp. and Indicated Temp.
∗ Storage Function for the Set Values of Temperature & Timer.
∗ Alarm & Digital Timer : 'Delay Time' and 'Operation Time' can be Controlled.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled).

Specifications & Ordering information

Spec. \ Model		"WiseBath® SHB-6"	"WiseBath® SHB-11"	"WiseBath® SHB-22"
Capacity		6 Lit.	11 Lit.	22 Lit.
Temp. Range & Accuracy		Room Temp + 5℃ to 250℃, ±1.5℃		
Temp. Uniformity & Probe		±3.0℃, PT100		
Heating Power		1.5 kW	2.0 kW	2.5 kW
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection		
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External, 50 mm Thickness Ceramic Fiber-Insulation		
Lid		Stainless-steel Flat Lid Included		
Drain Valve		Mounted		
Dimension (w×d×h)	Effective Space	270×180×h110 mm	300×250×h110 mm	400×300×h140 mm
	Mounted	270×180×h150 mm	300×250×h150 mm	400×300×h180 mm
	External	425×305×h340 mm	425×375×h340 mm	525×425×h370 mm
Packing Size (mm) & Gross Weight		470×400×h500 mm, 23 kg	600×490×h500 mm, 25 kg	600×490×h500 mm, 39 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or 230 V, 50 / 60 Hz		
Cat. No.	230V	**SL.SHB00106**	**SL.SHB00111**	**SL.SHB00122**
	120V	**SL.SHB00206**	**SL.SHB00211**	**SL.SHB00222**
Price, Each. ₩		**816,000**	**844,000**	**943,000**

⋆ Other Specifications are available upon Customer's Request.

High-Temp. Oil Bath with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SHB40106	Validation Service(IQ, OQ), with **"WHB-6", "HBV106"**	On Request
SL.SHB40111	, with **"WHB-11", "HBV111"**	On Request
SL.SHB40122	, with **"WHB-22", "HBV122"**	On Request

Therminol D12® −85+230℃ Best COOL-/HEAT-ing Transfer Fluid, Synthetic Hydrocarbon Mixture NEW

for Low/High-Temp Baths, Clearly Harmless Liquid, Low Odor FDA Grade, 4/18/200Lit, **냉매/열매 겸용 합성 탄화수소물액체**



(1) 4Lit



(2) 18Lit

- ***Supplied by "Eastman" USA*** ■ ***Clear, Water white Liquid / Non-Toxic / Low-Smell, FDA-Grade.***
- ***The Best Circulation Properties / Thermal Stability.***
- ***The Lowest Viscosity, cP ► (1) -50℃ : 12cP, (2) 100℃ : 0.46cP, (3) 200℃ : 0.19cP, (4) 230℃ : 0.16cP***

∗ Specific Gravity : 0.759 at 25℃ ∗ Autoignition Temp : 247℃ ∗ Flash Point : 62℃
∗ Freezing Point : -94℃ ∗ Boiling Point(90%) : 204℃
∗ Package : (1) 4Lit. and (2) 18Lit. PE Square Bottle / Subdivision, Original-200Lit. Steel Drum / 155kg

		4ℓ.dh pk ₩
SL.CirD12.1	(1) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 4 Lit.	4Lit 230,870
		18ℓ.dh pk ₩
SL.CirD12.2	(2) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 18Lit.	18Lit 789,170
	※ 운임 약 ₩ 25,000 별도!	**Drum Price,₩**
SL.CirD12	"Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 200Lit./Drum	200Lit 6,171,000

SciLab-brand® Chiller, −20℃+40℃ Heavy-duty External Cooling Circulator, *"WiseCircu® Chi"*, Flow 20-/30-Lit/min

Ideal for 1~50Lit Evaporators, Cooling Line, etc. Lift 8-/27-m, Cooling Capa 0.87-/1.3-/3.0-kW, **다용도 냉각 써큐레타/칠러** NEW



Chiller, −20℃+40℃
Heavy-duty Refrigerated External Circulator
"WiseCircu® Chi-30"



Assembly-type Safety Connection Ports/Pipe for Fluid In/Out-let ;
ISO RC 1/2" Thread, Located On Rear-Upper Pannel

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Wide-range Reaction System and Evaporator.*** ■ ***Max. Lift 8-/27-m***
- ***Assembly-type Safety Connection Ports/Pipe for Fluid In/Out-let : ISO RC 1/2" Thread, Stainless-steel.***
- ***Digital PID Control System Implementing Superior Temperature Accuracy.***
- ***Embedded External Nozzle Part for the Prevention of Nozzle Damaged.***
- ***Stainless-steel Internal Bath for Prevention of Corrosion.***

∗ Wide-range Filling Volume 17Lit. / 29Lit. / 47Lit. ∗ Effective Cooling Capacity
∗ Useful for 1~50Lit. Various Reactors and Evaporators. ∗ Emergency Stop Button for safety.
∗ High Quality Circulation Pump : 20-/30-Lit/min Max Flow Rate and 1.0-/3.3-bar Max. Pressure.
∗ Built in Pump Pressure Gauge and Compressor Pressure Gauge.

Specifications & Ordering information

Spec. \ Model		"WiseCircu® Chi-20"	"WiseCircu® Chi-30"	"WiseCircu® Chi-50"
Temp. Range & Stability		−20℃~ +40℃-Range, ±0.2℃(at 15℃)-Stability		
Cool-Fluid. Filling Volume		17 Lit. max	29 Lit. max	47 Lit. max
Useful for 1~50Lit Evaporators, etc.		for 1~20Lit Evaporator	for 10~30Lit Evaporator	for 20~50Lit Evaporator
Refrigerator Capacity(HP)		1/2 HP	1 HP	2 HP
Lid & Top Opening Dia.		Φ100 mm		
Fluid In/Out-let Connector		ISO RC 1/2" (English System AG 1/2") Thread, Stainless-steel		
Pump Power, Lift Height, m	Max. Flow Rate	20 Lit/min	30 Lit/min	
	Max. Pressure & Lift	1.0 bar Max. Lift : 8m	3.3 bar Max. Lift : 27m	
Cooling Capacity	at +20℃	1.7 kW	2.8 kW	6.5 kW
	at 0℃	0.87 kW	1.3 kW	3.0 kW
	at −20℃	0.32 kW	0.45 kW	1.2 kW
External Dimension		450×630×h650 mm	550×830×h975 mm	605×975×h1265 mm
Material		Stainless steel-Internal, Powder Coated steel-External		
Electrical Reqts.		1 Phase 230V, 50 / 60 Hz or 3Phase 380V		
Cat. No.	230V	SL.Chi0020	SL.Chi0030	-
	3 Phase	-	-	SL.Chi0050
Price, Each. ₩		4,713,000	6,783,000	8,507,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

▶ Therminol D12® Cooling / Heating Transfer Fluid, Clear / Harmless
▶ Insulated External Circulating Tubing

※ See the Page of Baths, High Temp Bath Circulator Acce.



▶ Figure : One of the Applications in the Large Volume Evaporator Line.

Articles	Cat. No	Description

SciLab-brand® Digital Precision Cold Trap Bath, *"WiseTrap™ SCT"*, −40℃/ −80℃, 10 Lit, with Certi. & Traceability NEW
with 2 ×Glass Cold Trap, Digital PID Control System, Back-Light LCD, CFC-free Refrigeration System, 초저온 동결 트랩



Digital Precision Cold Trap Bath "WiseTrap™ SCT-40"



(1) Glass Cold Trap "CTG1000"

※SciLab Recommendation : Combination of the Cold Trap Bath(SCT) with the Vacuum Oven and Vacuum Pump.

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital PID Controller***
- ***CFC-free (R-404A) Refrigeration System***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

∗ Ideal for exceptional Cooling System like Collecting Evaporation Vapor or Hazardous Vapor from Vacuum Line.
∗ Durable Stainless-steel Bath and Powder Coated steel
∗ Digital Timer Function : 'Delay Time' and 'Operation Time' : Can be Controlled.
∗ User's Self-Compensation Function to Control Difference between Real Temperature and Indicated Temperature.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

Specifications & Ordering information

Spec. \ Model		"WiseTrap™ SCT- 40"	"WiseTrap™ SCT- 80"
Temperature Range		−40℃ ~ −20℃	−80℃ ~ −65℃
Bath Volume		10 Lit	
Bath Volume & Cold Trap Type		Stainless-steel 304, 2×Glass Trap	
Refrigerator		1/2 HP	1 HP
Power Consumption		900 W	1.8 kW
Refrigerator & Refrigerant		R-404A	HFC
Display		Digital LCD with Back-Light Function	
Controller		PID Controller with Jog-Shuttle Switch (Turn+Push)	
Drain Valve		Mounted	
Safety Circuit		Over Current protection, Sensor Error Detection, Leakage Breaker	
Material		Stainless-steel (#304)-Internal, Powder Coated steel, 1.2t, Doublepaint & Baked-External, 20 mm Thickness Polyurethane-Insulation	
Dimension (w×d×h)		220×220×h210 mm-Internal, 377×453×h705 mm-External	
Packing Dimension (mm) and Gross Weight (kg)		560×500×h1,010, 67 kg	680×640×h1,130, 90 kg
Electrical Reqts.		1 Phase, AC 120 V / 60 Hz or 230 V, 50 / 60 Hz	
Cat. No.	230V	SL.SCT00140	SL.SCT00180
	120V	SL.SCT00240	SL.SCT00280
Price, Each. ₩		1,909,000	3,563,000

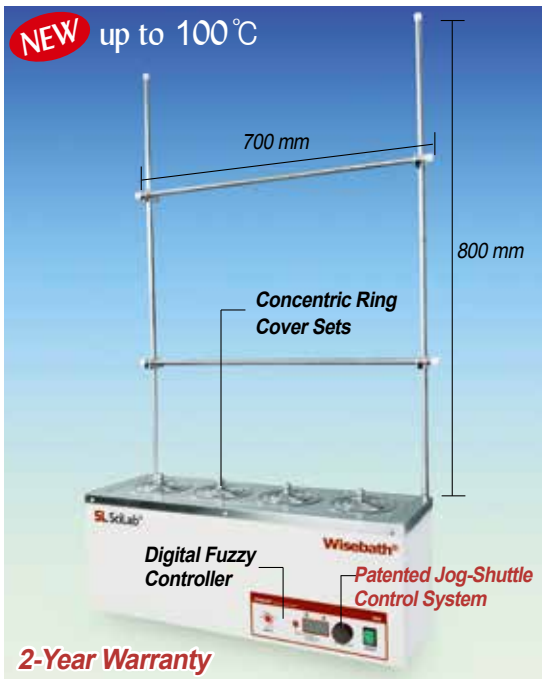
∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 16,000 별도!

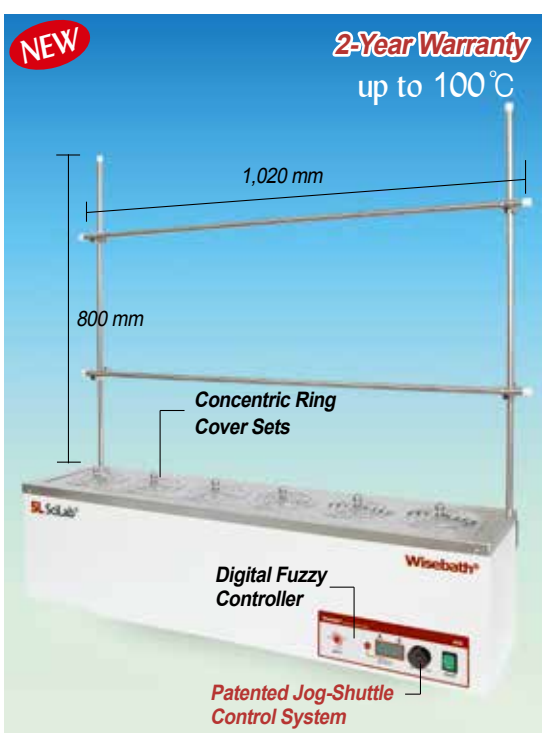
Spare Glass Cold Trap

		Ea. Price, ₩
DH.WCT11000	(1) 1×Glass Cold Trap, Φ106×h249mm, **"CTG1000"**, DURAN® Borosilicate Glass α 3.3, Safety-Pressure, Resistant 1.5bar at 250℃, for **"SCT"**	81,000

SciLab-brand® Extraction Water Bath, *"WiseBath® SEB"*, Multi-purpose, 4-/6-/8-Place, with Certi. & Traceability NEW
with Concentric Ring Cover Sets & Holding Frame, Digital Fuzzy Control, Back Light LCD, up to 100℃, ±0.2℃
다용도 추출용 항온수조, 4-/6-**구, 컨센트릭 링 커버 셋 & 홀딩 프레임 포함**



Multi-purpose Extraction Water Bath "WiseBath® SEB-4"



Multi-purpose Extraction Water Bath "WiseBath® SEB-6"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Gentle Extraction, Soxhlet Extraction and Determination of COD***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Concentric Ring Cover Sets make Effective Steaming Work***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

* 4, 6, 8 Extraction Places are available.
* Included Concentric Ring Cover Set & Holiding Frame
* User's Self-compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0℃).
* High Quality 304 Stainless steel Bath and Holding Frame for Superior Durability.
* Storage Function for the Set Values of Temperature and Timer.
* Alarm Function : Error Status and Timer-end.
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled).

Specifications & Ordering information

Spec. \ Model		"WiseBath® SEB-4"	"WiseBath® SEB-6"	"WiseBath® SEB-8"
Temp. Range & Accuracy		Room Temp. +5 ℃ to 100 ℃, ±0.2℃		
Temp. Uniformity & Sensor		±1.0℃, PT100		
No. of Extraction Holes		4 Places	6 Places	8(4×2) Places
Heating Power		1.4 kW	1.8 kW	1.4 kW×2
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection, Leakage Breaker		
Material		Stainless steel (#304)-Internal, Powder Coated steel-External, Stainless steel-Holding Frame		
Lid & Top Opening Dia.		Concentric Ring Cover Sets included, Φ110 mm		
Drain Valve		Mounted		
Drain Valve	Mounted	610×160×h160 mm	910×140×h160 mm	610×290×h160 mm
Drain Valve	External	720×245×h275 mm	975×245×h275 mm	720×375×h275 mm
Packing Size (mm) and Gross Weight (kg)		710×310×h300, 18 kg	1,030×320×h370, 25 kg	880×420×h300, 34 kg
Electrical Reqts.		1 Phase, AC 120 V / 60 Hz or 230 V, 50 / 60 Hz		
Cat. No.	230V	**SL.SEB01004**	**SL.SEB01006**	**SL.SEB01008**
Cat. No.	120V	**SL.SEB02004**	**SL.SEB02006**	**SL.SEB02008**
Price, Each. ₩		**701,000**	**816,000**	**912,000**

* Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 9,000 별도!**

Spare Lid with Concentric Ring Cover Set and Holding Frame Set

		Ea. Price, ₩
DH.WEB11000	Lid with Concentric Ring Cover Sets, **"EBC100"**, for all **"SEB"** models	22,000
DH.WEB21004	Holding Frame Set, **"EBF100"**, for **"SEB-4"**, 2ea×800mm Pole & 2ea×700mm Pole	51,000
DH.WEB21006	Holding Frame Set, **"EBF200"**, for **"SEB-6"**, 2ea×800mm Pole & 2ea×1,020mm Pole	53,000
DH.WEB21008	Holding Frame Set, **"EBF300"**, for **"SEB-8"**, 4ea×800mm Pole & 4ea×740mm Pole	90,000

Articles	Cat. No	Description

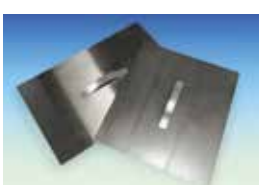
SciLab-brand® Precise High-temp Bath Circulator, *"WiseCircu® SCH"*, to 250℃, ±0.1℃, 8-/12-/22-/30- Lit NEW
with 1 ×Stainless-steel Flat Lid/Digital Fuzzy Control System/Certi. & Traceability, Flow 16 Lit/min, Lift 2.8m
Ideal for Reactors, etc., External Circulating Connect - od.12.5/id.10.5mm, **정밀 고온 베스겸용 고온 써큐래타**



High Temp. Bath Circulators
"WiseCircu® SCH-8" & "WiseCircu® SCH-12"



External Circulating Nozzle



Flat Lid, Included



Ex. Multi-use High Temp. Bath Circulator
with Modular Reactor System

- ***Made in Korea.*** ***PL (Product Liability) Insurance.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.***
- ***Advanced Heating System Ensures Temperature Performance.***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy.***
- ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 16 Lit./min.).***
- ***Controlled 5 Steps Circulation speed(Flow Rate).***
- ***Patented Jog-Dial Control System and Capacitive Touch Button.***

∗ 304 Stainless-steel Bath and Lid for Superior Durability and High Thermal Efficiency.
∗ Compensation Function to Control Difference between Real Temp. and Indicated Temp.
∗ Digital Timer Function : 'Delay Time' and 'Operation Time' can be Controlled.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled).

Specifications & Ordering information

Spec. \ Model		WiseCircu® SCH-8	WiseCircu® SCH-12	WiseCircu® SCH-22	WiseCircu® SCH-30
Bath Volume		8 Lit.	12 Lit.	22 Lit.	30 Lit.
Pump		Max Flow Rate : 16 Lit./min, (Controlled 5 Steps Flow Rate Speed), Max Pressure : 5 psi, Max Lift : 2.8m			
Temp. Range & Accuracy		Room Temp+5℃~ 250℃, ±0.1℃			
Temp. Resolution		0.1℃-Display, 0.5℃-Control			
Temp. Uniformity & Probe		±0.2℃, PT100			
Heating Power		1.0 kW	1.5 kW	2.2 kW	2.5 kW
Heat-up Time		50 min. to 100℃			
External Circulation Nozzle		id.10.5 / od.12.5 mm			
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end			
Display		Digital LCD with Back-Light Function			
Controller		Digital Fuzzy Controller with Jog - Dial Knob (Turn+Push)			
Safety Circuit		Over-Temp./-Current protection, Sensor Error & Low Level Detection			
Material		Stainless steel (#304)-Internal, Powder Coated steel-External, 50mm Thickness Ceramic Fiber-Insulation			
Lid & Drain Valve		included Stainless-steel Flat Lid, Ball Valve, Optional Dome Lid,			
Dimension (w×d×h)	Effective Space	180×130×h155	250×130×h155	340×250×h155	340×250×h200
	Mounted	180×320×h155	250×320×h155	340×440×h155	340×440×h200
	External	303×443×h569	373×443×h569	463×563×h569	463×563×h614
Packing Size (mm) & Gross Weight(kg)		470×400×h500 19 kg	470×400×h500 21 kg	600×490×h500 23 kg	600×490×h500 37 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	SL.SCH00408	SL.SCH00412	SL.SCH00422	SL.SCH00430
	120V	SL.SCH00508	SL.SCH00512	SL.SCH00522	SL.SCH00530
Price, Each. ₩		1,248,000	1,287,000	1,382,000	1,421,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 9,000 별도!





Insulated Silicone & Teflon PFA Circulation Hose, Id Φ10 ~ 19mm, L1/1.5m NEW

■ ***Supplied by SciLab Korea*** ∗ Φ37mm Black NBR Foam Insulated Silicone or PFA-Hose

∗ Silicone Vacu-Hose : id 10×od 18mm, id 15×od 20mm, id 18×od 25mm, 220℃

∗ PTFE Hose : id 10×od 12mm, id 15×od 16mm, id 19×od 20mm, -100 + 260℃ ∗ SL.Tub4031 & SL.Tub4032 : PFA Hose

(1) Insulated Silicone Hose, 220℃

		dh	Pk.	Price,₩
SL.Tub4021	Sili-hose, id 10mm, L1m	1m		21,700
SL.Tub4022	, L1.5m	1.5m		24,200
SL.Tub4023	, id 15mm, L1m	1m		27,000
SL.Tub4024	, L1.5m	1.5m		32,200
SL.Tub4025	, id 18mm, L1m	1m		34,700
SL.Tub4026	, L1.5m	1.5m		43,500

(2) Insulated PFA Hose, 260℃

		dh	Pk.	Price,₩
SL.Tub4031	PFA-hose, id 10mm, L1m	1m		32,800
SL.Tub4032	, L1.5m	1.5m		40,900
SL.Tub4033	PTFE-hose, id 15mm, L1m	1m		35,500
SL.Tub4034	, L1.5m	1.5m		45,100
SL.Tub4035	, id 19mm, L1m	1m		44,900
SL.Tub4036	, L1.5m	1.5m		46,500

(3) Best Insulatedly & Flexible Stainless-steel Circulation Hose, Id Φ17mm, L1m, 360℃

		Ea.	Price,₩
SL.Tub7021	Flexible Stainless-steel Circulation Hose, id 17×od 60mm, L1m		849,420

Therminol D12® −85+230℃ Best COOL-/HEAT-ing Transfer Fluid, Synthetic Hydrocarbon Mixture NEW

for Low/High-Temp Baths, Clearly Harmless Liquid, Low Odor FDA Grade, 4/18/200Lit, **냉매/열매 겸용 합성 탄화수소물액체**



(1) 4Lit



(2) 18Lit

■ ***Supplied by "Eastman" USA*** ■ ***Clear, Water white Liquid / Non-Toxic / Low-Smell, FDA-Grade.***

■ ***The Best Circulation Properties / Thermal Stability.***

■ ***The Lowest Viscosity, cP ► (1) -50℃ : 12cP, (2) 100℃ : 0.46cP, (3) 200℃ : 0.19cP, (4) 230℃ : 0.16cP***

∗ Specific Gravity : 0.759 at 25℃ ∗ Autoignition Temp : 247℃ ∗ Flash Point : 62℃

∗ Freezing Point : -94℃ ∗ Boiling Point(90%) : 204℃

∗ Package : (1) 4Lit. and (2) 18Lit. PE Square Bottle / Subdivision, Original-200Lit. Steel Drum / 155kg

		4ℓ.dh pk	₩
SL.CirD12.1	(1) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 4 Lit.	4Lit	230,870
		18ℓ.dh pk	**₩**
SL.CirD12.2	(2) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 18Lit.	18Lit	789,170
	※ 운임 약 ₩ 25,000 별도!	**Drum**	**Price,₩**
SL.CirD12	"Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 200Lit./Drum	200Lit	6,171,000

SciLab-brand® Integrated Thermostatic Magnetic Stirring Bath, up to 200℃, 0~2000rpm, 4 & 6.5Lit

with PID Controller, Digital Display, Stainless-steel Heater, can be used for Oil-/Water-Bath, **다목적 자력교반 항온 수조**



Integrated Thermostatic Magnetic Stirring Bath "MbWCL-3"

■ ***Adopt ANSI 304 Stainless-steel Heater which can be used for Oil and Water Bath.***

■ ***Powerful Magnetic Stirring of High Performance Direct Current Brushless.***

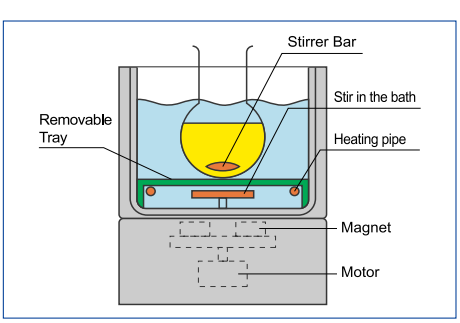
■ ***Dual Sensor, Temperature can be converted and Displayed in Flume and Reaction Vessel.***

∗ Strong Magnetic Stirring makes the Stirrings in the Flume Rotate Synchronistically to ensure the even and Precision of High Viscosity Solution Temperature.

∗ The Performance of High Performance Direct Current Brushless Machine is Stable and can be used Continuously.

Specifications & Ordering information

Spec. \ Model	"MbWCL-3"	"MbWCL-5"
Bath Volume & Size	4 Lit, Φ220×depth110mm	6.5 Lit, Φ254×depth130mm
Temp. Range & Stability, Digital	Room Temp.+5℃~ 200℃, ±1℃ : 1	
Speed, Knob Setting	0~2000 rpm	
Max. Flask Input	3000 ml	5000 ml
Heater, ANSI 204 Stainless-steel	500W	1050W
Temp. Controller & Display	PID Controller, Digital Display	
Dimension	260×280×h230 mm	260×280×h260 mm
Electrical Reqts.	220V, 50/60Hz	
Cat. No.	**SL.MbWCL3**	**SL.MbWCL5**
Price, Each. ₩	**840,000**	**884,000**



Drawing of "MbWCL-3"

∗ **Included Retractile Multi-Ring Opening Lid :** This Lid can Adjust Caliber to Match the External Diameter of the Reaction Vessel and Round Flask, Decrease Volatilization of the Refrigerant and Heat Exchange with the Outside Environment, Realize Stable Low-Temperature Environment.



Articles	Cat. No	Description

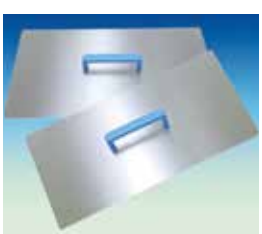
SciLab-brand® −25℃~+150℃ Digital Precise Refrigerated/Heating Bath Circulator, *"WiseCircu® SCR"*, ±0.2℃ NEW with 1×Flat Lid/Digital Fuzzy Control/CFC-free Refrigeration/Certi. & Traceability, Flow 25Lit/min, Lift 4m, 8-/12-/22-/30- Lit. Ideal for Evaporators, etc., with External/Internal Circulating Connect - od.12/id.10mm, 정밀 냉동/가열 배스 겸용 써큐래타



−25℃~+150℃ Refrigerated / Heating Bath Circulator
"WiseCircu® SCR-8" & "WiseCircu® SCR-12"



External Circulation Nozzle



Flat Lid, Stainless-steel (Included)

- ■ ***Made in Korea.*** ■ ***PL (Product Liability) Insurance.***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.***
- ■ ***Advanced Refrigerating System Ensures Temperature Performance.***
- ■ ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy.***
- ■ ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 25 Lit./min.).***
- ■ ***Controlled 5 Steps Circulation speed(Flow Rate).***
- ■ ***Innovated Refrigeration System, CFC-free (R-404A).***
- ■ ***Patented Jog-Dial Control System and Capacitive Touch Button, Digital LCD with Back-Light Function.***
- ■ ***External & Internal Circulation : Possible.***

∗ For Inner Circulating : to Connect directly the In-/outlet Nozzles.
∗ RS232C Interface for Remote Monitoring and Controlling with PC.
∗ More Faster Cool-down Time. ∗ Urethane Foam Insulation.
∗ All models Built in Caster. ∗ Proper Liquid Level Line in Bath.
∗ User's Self-compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0℃).
∗ Warning and Auto-Stop Function in case of Liquid Shortage.
∗ Auto-controlled Refrigeration System for Compressor Protection and Power Saving.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled).

▶ Therminol D12® Cooling / Heating Transfer Fluid, Clear / Harmless

▶ Insulated External Circulating Tubing

※ See the Page of Baths, High Temp Bath Circulator Acce.

Specifications & Ordering information

Spec. \ Model		WiseCircu® SCR-8	WiseCircu® SCR-12	WiseCircu® SCR-22	WiseCircu® SCR-30
Temp. Range & Accuracy		−25℃~ +150℃, ±0.1℃			
Temp. Resolution		0.1℃-Display, 0.1℃-Control			
Temp. Uniformity & Probe		±0.2℃ at −10℃, PT100			
Pump		Max Flow Rate : 25Lit./min(Controlled 5 Steps Flow Rate Speed), Max Pressure : 7.5 psi, Max Lift : 4m			
Bath Volume		8 Lit.	12 Lit.	22 Lit.	30 Lit.
Heating Power		1 kW	1.5 kW	2 kW	2.2 kW
Refrigerator		1/3HP	1/3HP	1/2HP	3/4HP
Cooling Capacity	at +20℃	300 W	380 W	680 W	850 W
	at 0℃	200 W	250 W	500 W	620 W
	at −20℃	110 W	130 W	300 W	400 W
Refrigerant		CFC -Free(R-404A) Refrigeration System			
Total Power Consumption		1.6 kW	2 kW	2.7 kW	3 kW
Compressor Control		Intelligent Control of Refrigerator for preventing Compressor Overload			
Pump		Max Flow Rate : 25Lit./min, Max Pressure : 7.5 psi, Max Lift : 4m			
External Circulation Nozzle		id.10.5 / od.12.5mm(For Inner Circulat. : to Connect directly the in-/outlet Nozzles)			
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end			
Display		Digital LCD with Back-Light Function			
Controller		Digital Fuzzy Controller with Jog-Dial Knob (Turn+Push)			
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection, Leakage Breaker			
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External, 40 mm Thickness Urethane Foaming - Insulation			
Lid & Drain Valve		included Stainless-steel Flat Lid, Ball Valve, Optional Dome Lid			
Dimension (w×d×h)	Effective Space (mm)	175×153×150	230×181×150	290×220×200	330×290×200
	Internal (mm)	175×320×150	230×350×150	290×390×200	330×460×200
	External (mm)	330×474×752	400×523×807	483×563×850	494×633×906
Packing Size (mm) & Gross Weight (kg)		560×420×922	630×530×972	670×615×1022	740×625×1072
		45 kg	54 kg	63 kg	70 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	SL.SCR00408	SL.SCR00412	SL.SCR00422	SL.SCR00430
	120V	SL.SCR00508	SL.SCR00512	SL.SCR00522	SL.SCR00530
Price, Each. ₩		2,141,000	2,204,000	2,487,000	2,590,000

∗ Other Specifications are available upon Customer's Request. ※ 운임 약 ₩ 16,000 별도!

Refrigerated Circulator with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SCR30308	Validation Service(IQ, OQ), with "SCR-8"	On Request
SL.SCR30312	, with "SCR-12"	On Request
SL.SCR30322	, with "SCR-22"	On Request
SL.SCR30330	, with "SCR-30"	On Request

SciLab-brand® −35℃~+150℃ Digital Precise Refrigerated/Heating Bath Circulator, *"WiseCircu® SCL"*, ±0.2℃ NEW

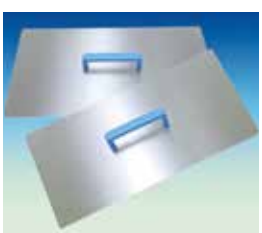
with 1×Flat Lid/Digital Fuzzy Control/CFC-free/Certi. & Traceability, Flow 25Lit/min, Lift 4m, 8-/12-/22-/30-Lit.
Ideal for Evaporators, etc., with External/Internal Circulating Connect - od.12/id.10mm, **정밀 냉동/가열 배스 겸용 써큐래타**



−35℃~ +150℃ Refrigerated / Heating Bath Circulator
"WiseCircu® SCL-8" & "WiseCircu® SCL-12"



External Circulation Nozzle



Flat Lid, Stainless-steel (Included)

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Advanced Refrigeration System Ensures Temperature Performance***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 25 Lit./min.)***
- ***Controlled 5 Steps Circulation speed(Flow Rate).***
- ***Innovated Refrigeration System, CFC-free (R-404A)***
- ***Patented Jog-Dial Control System and Capacitive Touch Button, Digital LCD with Back-Light Function***
- ***External & Internal Circulation : Possible.***

∗ For Inner Circulating : to Connect directly the In-/outlet Nozzle.
∗ RS232C Interface for Remote Monitoring and Controlling with PC
∗ More Faster Cool-down Time ∗ Urethane Foam Insulation
∗ All models Built in Caster ∗ Proper Liquid Level Line in Bath
∗ Connection with Evaporator or Viscometer is applicable
∗ User's Self-compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0℃).
∗ Warning and Auto-Stop Function in case of Liquid Shortage.
∗ Auto-controlled Refrigeration System for Compressor Protection and Power Saving.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)

Specifications & Ordering information

Spec. \ Model		WiseCircu® SCL-8	WiseCircu® SCL-12	WiseCircu® SCL-22	WiseCircu® SCL-30
Temp. Range & Accuracy		−35℃~ +150℃, ±0.1℃			
Temp. Resolution		0.1℃-Display, 0.1℃-Control			
Temp. Uniformity & Probe		±0.2℃ at −20℃, PT100			
Pump		Max Flow Rate : 25Lit./min(Controlled 5 Steps Flow Rate Speed), Max Pressure : 7.5 psi, Max Lift : 4m			
Bath Volume		8 Lit.	12 Lit.	22 Lit.	30 Lit.
Heating Power		1 kW	1.5 kW	2 kW	2.2 kW
Refrigerator		1/2HP	1/2HP	7/8HP	1HP
Cooling Capacity	at +20℃	500 W	530 W	860 W	1030 W
	at 0℃	340 W	370 W	620 W	760 W
	at −20℃	200 W	210 W	400 W	500 W
Refrigerant		CFC -Free(R-404A) Refrigeration System			
Total Power Consumption		1.7 kW	2.2 kW	3 kW	3.3 kW
Compressor Control		Intelligent Control of Refrigerator for preventing Compressor Overload			
External Circulation Nozzle		id.10.5 / od.12.5mm(For Inner Circulat. : to Connect directly the in-/outlet Nozzles)			
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end			
Display		Digital LCD with Back-Light Function			
Controller		Digital Fuzzy Controller with Jog-Dial Knob (Turn+Push)			
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection, Leakage Breaker			
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External, 40 mm Thickness Urethane Foaming - Insulation			
Lid & Drain Valve		included Stainless-steel Flat Lid, Ball Valve, Optional Dome Lid			
Dimension (w×d×h)	Effective Space (mm)	175×153×150	230×181×150	290×220×200	330×290×200
	Internal (mm)	175×320×150	230×350×150	290×390×200	330×460×200
	External (mm)	400×523×807	400×523×807	483×563×850	494×633×906
Packing Size (mm) & Gross Weight (kg)		630×530×972 / 50 kg	630×530×972 / 55 kg	670×615×1022 / 65 kg	740×625×1072 / 78 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	SL.SCL00408	SL.SCL00412	SL.SCL00422	SL.SCL00430
	120V	SL.SCL00508	SL.SCL00512	SL.SCL00522	SL.SCL00530
Price, Each. ₩		2,232,000	2,354,000	2,584,000	2,981,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 16,000 별도!

- ▶ Therminol D12® Cooling / Heating Transfer Fluid, Clear / Harmless
- ▶ Insulated External Circulating Tubing

※ See the Page of Baths, High Temp Bath Circulator Acce.

Refrigerated Circulator with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SCL30308	Validation Service(IQ, OQ), with "SCL-8"	On Request
SL.SCL30312	, with "SCL-12"	On Request
SL.SCL30322	, with "SCL-22"	On Request
SL.SCL30330	, with "SCL-30"	On Request

SciLab-brand® −30℃+200℃ Precise Refrigerated Heating External Circulators, *"WiseCircu® SHR"*, Lift 38m, ±0.2℃

Ideal for 5~100 Lit Reactors, Heating Line, etc., with Pre-Cooling Sys, Can be used with External Direct Contact K-type Temp. Probe(Optional) with High Quality Magnetic Pump, Flow 20-/40-/60-Lit/min, **정밀 고온/냉동 겸용 외부 써큐레타** NEW



−30℃~ +200Refrigerated/Heating External Circulator, "WiseCircu® SHR-50"



Assembly-type Safety Connection Ports/Pipe, for Fluid In/Out-let ; ISO RC 1" Thread, Located On Rear-Upper Pannel

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance*** ■ ***Max. Lift : 38m***
- ***Ideal for Various Size Reactor-system.*** ■ ***Built in Magnetic Pump ensures Long-life Time.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Can be used with External Direct Contact K-type Temp. Probe(Optional)***
- ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 20-/40-/60-Lit./min.)***
- ***Assembly-type Safety Connection Ports/Pipe (for Fluid In/Out-let : ISO RC 1" Screw Stainless-steel.)***
- ***Patented Jog-Dial Control System and Digital LCD with Back-Light Function.***
- ***With High Quality Shock-proof Caster for Convenient and Safe Moving.***
- ***Independently 3-systems : Refrigerating System, Heating System, Pre-Cooling System.***
- ***Embedded External Nozzle Part for the Prevention of Nozzle Damaged.***
- ***Stainless-steel Internal Bath for Prevention of Corrosion.***

∗ Urethane Foam Insulation ∗ Warning and Auto-Stop Function in case of Liquid Shortage.
∗ More Faster Cool-down and Heat-up Time ∗ Connection with Evaporator or Viscometer is applicable.
∗ Wide-range Filling Volume 10Lit./18Lit./25Lit. ∗ Useful for 5~100Lit. Various Reactors and Evaporators.
∗ High Quality Magnetic Pump : Max Flow Rate 20-/40-/60-Lit/min and Max. Pressure 4 bar

Specifications & Ordering information

Spec. \ Model		WiseCircu® SHR-20	WiseCircu® SHR-50	WiseCircu® SHR-100
Temp. Range & Stability		−30℃~ +200℃-Range, ±0.2℃(at 15℃)-Stability		
Heat-Fluid Filling Volume		10 Lit. max	18 Lit. max	25 Lit. max
Useful for 5~100Lit Reactors, etc.		for 5~20Lit Reactor, etc.	for 20~50Lit Reactor, etc.	for 50~100Lit Reactor, etc.
Refrigerator Capacity		4.5 kW	7.5 kW	18 kW
Heater		2.5 kW	6.0 kW	12 kW
Lid & Top Opening Dia.		Φ80 mm		
Fluid In/Out-let Connector		ISO RC 1" (English System AG 1") Thread, Stainless-steel		
Pump Power, Lift Height, m	Max. Flow Rate	20 Lit/min	40 Lit/min	60 Lit/min
	Max. Pressure & Lift	Max Pressure : 4 bar, Max. Lift : 38m		
Cooling Capacity	at +15℃	8.1 kW	13.1 kW	22.7 kW
	at 0℃	4.3 kW	7.3 kW	12.6 kW
	at −25℃	1.4 kW	3.1 kW	5.45 kW
External Dimension		550×630×h1060 mm	700×790×h1270 mm	770×1100×h1500 mm
Optional External Temp. Sensor K-type Probe		Can be used with External Direct Contact K-type Temp. Probe. (Optional)		
Material		Stainless steel-Internal, Powder Coated steel-External		
Electrical Reqts.		1 Phase 230 V, 50 / 60 Hz or 3Phase 380V		
Cat. No.	230V	**SL.SHR0020**	-	-
	3 Phase	-	**SL.SHR0050**	**SL.SHR0100**
Price, Each. ₩		**9,019,000**	**11,992,000**	**17,740,000**

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

▶ Therminol D12® Cooling / Heating Transfer Fluid, Clear / Harmless

▶ Insulated External Circulating Tubing

※ See the Page of Baths, High Temp Bath Circulator Acce.

▶ External Direct Contact K-type Temperature Probe

※ See the Page of Baths, Refrigerated Heating External Circulators, Thermocouple Probes



▶ Figure ; One of the Applications in the Reactor System.

Articles	Cat. No	Description



Digital Temp. Controller/Displayer for K-type Probes NEW
with Female Minisocket for Miniplug, −50℃+400℃, **디지털 온도측정 / 조절계**

■ Made in Korea ***■ Ideal for Temp Control of Reactor-system***

* Ideal for Temperature Monitor / Controller for Reactor System
* Jumbo LCD with Digit Height 18mm * 100~240VAC Free
* With K-type Probe Connector & Electronic Cable 2m
* Dimension : 90×70×h50mm * High Accuracy

※ Note : The Controller Can be used in other Cable & Plug System.

		Ea.	Price, ₩
SL.The5011	Digital Temp. Controller/Displayer-Set, –50℃~+400℃, K-type		290,400

Cowie® K-type PTFE Encapsulated Stainless-steel Thermocouple Probes, Can be Bent, −180℃+280℃ NEW
with Miniplug & PFA Insulated 1&2m Cable, Probe Body L100~900mm, PTFE **내약품/내부식/청결형 온도 프로브**



■ Made in UK. ***■ Ideal for Reactor : Especially Long Body Probes***

* Outstanding Chemical Resistance, No-Contamination of Working Media, and Pressure Resistant
* Fully Pure PTFE Encapsulated Stainless-steel Core Probe for Rigidity, But can be Bent
* with Push-On Ferrule * Response : 50% in 6~14 seconds, -180℃+280℃

(1) With L100~L700mm Probe-body and 1m Cable

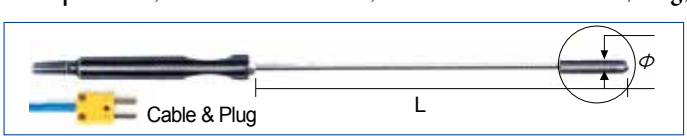
		Ea.	Price, ₩
CW.600.101.1	PTFE Capsulated K-probe, Body-Φ6×ℓ100, Ferrule-L35mm, Total -L135mm		66,340
CW.600.201.1	-Φ7×ℓ200, -L40mm, -L240mm		71,990
CW.600.301.1	-Φ8×ℓ300, -L40mm, -L340mm		77,990
CW.600.401.1	-Φ8×ℓ400, -L50mm, -L450mm		83,160
CW.600.501.1	-Φ9×ℓ500, -L60mm, -L560mm		95,060
CW.600.601.1	-Φ9×ℓ600, -L60mm, -L660mm		104,370
CW.600.701.1	-Φ9×ℓ700, -L45mm, -L745mm		120,840

(2) With L500~L900mm Probe-body and 2m Cable

		Ea.	Price, ₩
CW.600.501.1.2	PTFE Capsulated K-probe, Body-Φ9×ℓ500, Ferrule-L60mm, Total-L560mm		105,400
CW.600.601.1.2	-Φ9×ℓ600, -L60mm, -L660mm		114,710
CW.600.701.1.2	-Φ9×ℓ700, -L45mm, -L745mm		131,170
CW.600.901.1.2	-Φ9×ℓ900, -L45mm, -L945mm		140,490

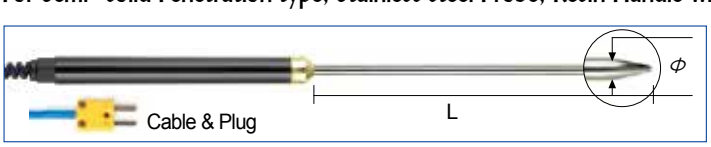
K-type Thermocouple Probes, for Wide-range Temp. −160℃~+1200℃
with Common use Plug "Miniature 2×Flat" and Cable, **"K-형" 온도계 & 각종 열기구 온도 프로브**

(1) For Liquid & Air, Stainless-steel Probe, Resin Handle with Cable/Plug, −160℃~+1200℃



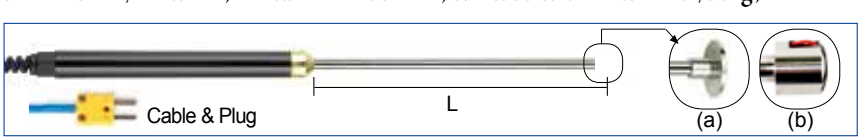
		Ea.	Price, ₩
AS1.5522.04	Liquid/ Air Probe "K", −160~+700℃, Φ1.0×L306mm, 1m Cable/Plug		198,610
DH.WHP503040	, −60~+600℃, Φ4.8×L250mm, 1.8m Cable/Plug		62,000
DH.WHP503050	, −60~+500℃, Φ4.8×L380mm, 1.8m Cable/Plug		65,000

(2) For Semi - solid Penetration-type, Stainless-steel Probe, Resin Handle with Cable/Plug, −100℃~+1000℃



		Ea.	Price, ₩
A1.TK175S	Penetration Probe "K", −100~+800℃, Φ3.2×L150mm, 1m Cable/Plug		73,810
A1.TK225S	, −100~+1000℃, Φ6.4×L200mm, 1m Cable/Plug		86,740

(3) For Surface / Contact, Stainless-steel Probe, Resin Handle with Cable/Plug, −100℃~+400℃



		Ea.	Price, ₩
A1.TK004T	(a) Surface Probe "K", Head : Φ15×t1.5, Stem : Φ3.5×L180mm, −100~+400℃,1m Cable/Plug		91,350
A1.TK033T	(b) : Φ16×t14, Stem : Φ6.5×L215mm, −100~+400℃,1m Cable/Plug		91,810

Articles	Cat. No	Description

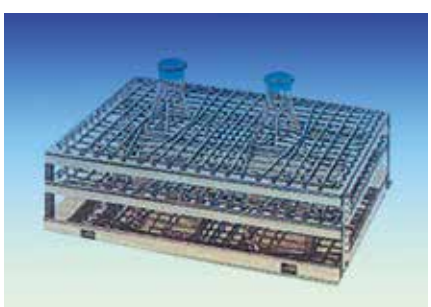
SciLab-brand® Digital Precise Shaking Water Bath, *"WiseBath® SSB"*, Reciprocating Motion, 18-/30-/45-Lit

with Universal Spring Rack, Digital Fuzzy Control, up to 2 Lit. Flask, 20~250 rpm, up to 100℃, ±0.1℃, with Certi. & Traceability

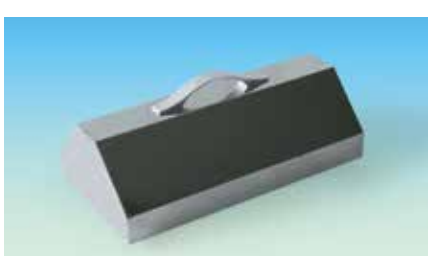
정밀 진탕 항온수조, 왕복 진탕 운동, 디지털 피드백 제어, 고성능 쉐이킹 엔진 탑재



Digital Precise Shaking Water Bath "WiseBath® SSB-30"



(1) Universal Spring Rack (Included)



(2) Dome Lid, Stainless steel (Optional)

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Controller Provides Precise Temperature Control***
- ***Digital Feedback Controller Provides Precise Speed Control***
- ***Hi-Performance Shaking Engine ensures Best Smoothly Shaking Motion and Minimum Noise and Vibration***
- ***Easy to Disassemble Spring Rack for Cleaning***
- ***Patented Shaking Mechanism : Minimum Noise and Vibration***
- ***Patented Jog-Dial Control System and Digital LCD with Back-Light***

* Ideal for Direct Immersion of Samples or Shaking in the Field of Biotechnology and Laboratories.
* Hybridization Applications, Cell Cultures, Cell Aeration, Increasing Solubility Rates, Molecular Biology Assays, Bacterial Cultures
* Stainless-steel Bath for Superior Durability & High Thermal Efficiency
* Universal Stainless-steel Spring Rack Included : for various kind of Flasks and Tubes (up to 2 ℓ)
* User's Self-Compensation Function to Control Difference between Real Temperature and Indicated Temperature (±10.0℃)
* Over Temp., Over Current Protection and Sensor Error Detection
* Digital Timer Function : 'Delay Time' and 'Operation Time' : Can be Controlled

Specifications & Ordering information

Spec. \ Model		WiseBath® SSB-18	WiseBath® SSB-30	WiseBath® SSB-45
Capacity		18 Lit.	30 Lit.	45 Lit.
Max.Q'ty of Erlenmeyer Flask		250 ml×6 ea, 500 ml×4 ea, 1000 ml×1 ea	250 ml×10 ea, 500 ml×8 ea, 1000 ml×3 ea	250 ml×18 ea, 500 ml×15 ea, 1000 ml×8 ea
Temp. Range & Accuracy		Room Temp. +5℃ to 100 ℃, ±0.1℃		
Temp. Resolution		0.1℃-Display, 0.1℃-Control		
Temp. Uniformity & Probe		±0.5℃ , PT100		
Heating Power		1.4 kW	1.8 kW	2.4 kW
Shaking Speed & Resolution		20 ~ 250 rpm, 1rpm-Display/1rpm-Control		
Shaking Stroke (mm)		15, 20, 30 Available (20 as factory Default)		
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller Digital		Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection		
Rack		Included Stainless steel Spring Rack : Universal-type		
Drain Valve		Mounted		
Material		Stainless steel (#304)-Internal, Powder Coated steel-External		
Dimension (w×d×h)	Internal (mm)	300×300×h200	500×300×h200	600×380×h200
	External (mm)	563×353×h340	763×353×h340	863×433×h340
Packing Size (mm) & Gross Weight (kg)		620×420×h450, 24 kg	820×420×h450, 26 kg	920×500×h450, 32 kg
Electric Reqts.		1 Phase, AC 120V, 60 Hz or 230V, 50 / 60Hz		
Cat. No.	230V	**SL.SSB03018**	**SL.SSB03030**	**SL.SSB03045**
	120V	**SL.SSB03218**	**SL.SSB03230**	**SL.SSB03245**
Price, Each. ₩		**1,294,000**	**1,374,000**	**1,538,000**

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 16,000 별도!

(1) Spare Universal Spring Racks

		Ea. Price, ₩
DH.WSB51018	(1) Spring Rack, for **18 Lit**, 245×270×h110mm, **"SBR018"**	148,000
DH.WSB51030	, for **30 Lit**, 445×270×h110mm, **"SBR030"**	228,000
DH.WSB51045	, for **45 Lit**, 545×350×h110mm, **"SBR045"**	228,000

(2) Optional Stainless-steel Dome Lids

		Ea. Price, ₩
DH.WSB02018	(2) Dome Lid, for **18 Lit**, 363×353×h69mm, **"SBD018"**	96,000
DH.WSB02030	, for **30 Lit**, 563×353×h69mm, **"SBD030"**	113,000
DH.WSB02045	, for **45 Lit**, 663×433×h69mm, **"SBD045"**	129,000

Shaking Water Bath with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SSB31018	Validation Service(IQ, OQ), with "SSB-18"	On Request
SL.SSB31030	, with "SSB-30"	On Request
SL.SSB31045	, with "SSB-45"	On Request

SciLab-brand® Digital Precise Viscosity Bath, *"ViscoBath™ SVB"*, Useful 5×Viscometer, up to 100℃, ±0.1℃ NEW

with 5 Holes Stainless steel Lid for Viscometer Holder, Available Reverse & Routine-type Viscometer, Transparent Window, 30 Lit

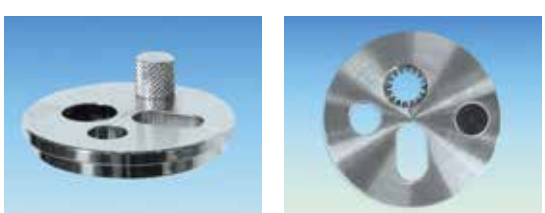
투시형 정밀 점도 항온수조, 5×점도계 사용가능, 디지털 퍼지 제어 시스템, 5-구 스텐리스 스틸 리드포함



Digital Precise Viscosity Bath "ViscoBath™ SVB-30", included Flat Lid for Viscometer Holder (without Viscometer Holder)



Flat Lid with Viscometer Holder



(1) Viscometer Holder "WVB02010" (Optional)

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Used for Precise Measurement with Capillary Viscometers***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Powerful Circulation Pump ensures Highest Uniformity of Temperature***
- ***Viscometer Holder : Available Reverse & Routine-type Viscometer***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function.***

* Stainless-steel(#304) made inner bath
* Stainless-steel Lid Contains Five Holes for Insertion of Viscometer Holders
* User's Self-compensation Function to Control Difference between Real Temperature and Indicated Temperature
* Storage Function for the Set Values of Temperature and Time
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Included Flat Lid for Viscometer(without Viscometer Holder)
* Over Temp., Over Current Protection and Sensor Error Detection
* Digital Timer Function : 'Delay Time' and 'Operation Time' : Can be Controlled

Specifications & Ordering information

Spec. \ Model		"ViscoBath™ SVB-30"
Range & Accuracy		Room Temp. +5℃ to 100 ℃, ±0.1℃
Temp. Resolution		0.1℃-Display, 0.1℃-Control
Temp. Uniformity & Probe		±0.2℃ , PT100
Heating Power		2 kW
Pump		Magnetic Drive, Max. Flow 30 Lit./min
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end
Display		Digital LCD with Back-Light Function
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection
Lid		Included 5 Holes Stainless-steel Lid for Viscometer Holder
Drain Valve		Mounted
Viewing Window Size(mm)		230×180
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External, Vacuum Sealed and Tempered Safety Pair Glasses-Window
Dimension (w×d×h)	Effective Space (mm)	330×300×h260 mm
	Internal (mm)	350×300×h300 mm
	External (mm)	585×375×h420 mm
Packing Size (mm) & Gross Weight (kg)		640×450×h500 mm, 24 kg
Electric Reqts.		1 Phase, AC 120V, 60Hz or 230V, 50 / 60Hz
Cat. No.	230V	**SL.SVB01030**
	120V	**SL.SVB02030**
Price, Each. ₩		**1,688,000**

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 16,000 별도!

Spare Stainless-steel Flat Lid for Viscometer Holder

		Ea. Price, ₩
DH.WVB11030	Flat Lid, for **30 Lit**, w380×d330, 5×Φ50mm Holes, **"VBF030"**	53,000

Optional Viscometer Holder

		Ea. Price, ₩
DH.WVB02010	(1) Viscometer Holder, **"WVB02010" for Ostwald, Ubbelohde**	78,000
DH.WVB02011	Viscometer Holder, **"WVB02011" for Cannon-Fenske Reverse Flow, Cannon-Fenske Routine**	78,000
DH.WVB02012	Viscometer Holder, **"WVB02012" for Thread-type Ubbelohde**	103,000

Viscosity Bath Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SVB31030	Validation Service(IQ, OQ), with "SVB-30"	On Request

SciLab Korea

Centrifuge

Centrifuge - Mini-micro ····· P. 29
- Pro-micro ····· P. 30
- Table-top General Purpose ····· P. 31
- Centrifuge Tube, 0.5~2.0ml ····· P. 29

Mini-micro Centrifuge

High performance Mini-micro Centrifuge

"WiseSpin® SCF-5"

6×0.2/0.5/1.5/2.0 ml Tubes





Pro-micro Centrifuge

High performance Pro-micro Centrifuge

"WiseSpin® SCF-10"

12×0.2-/0.5-/1.5-/2.0-ml

Table-top General Purpose Centrifuge

Popularly Classic Centrifuge

"WiseSpin® Scef-6"

6×1.5-/2.0-/5~7-/10~15ml



SciLab-brand® High performance Mini-microcentrifuge Set, *"WiseSpin® SCF-5"*, Max. 5,500 rpm, with Certi. & Traceability with Circular Fixed-Angle Rotor for 6×0.2/0.5/1.5/2.0㎖ Tubes and Strip Rotor for 2×0.2㎖ PCR 8-tubes Strips/16×0.2㎖ PCR Tubes
미니-마이크로 원심분리기 셋트, 앵글-/스트립-로터 포함, 0.2/0.5㎖ 튜브 아답터 포함



Mini-microcentrifuge Set "WiseSpin® SCF-5" with Circular Fixed Angle Rotor

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***For Quick Spindown from Walls or Caps of Centrifuge Tubes***
- ***Complete Set with Circular Fixed-Angle Rotor and Fixed Strip Rotor***

∗ Plasmid, DNA and RNA work, and miniprep kit, and many other applications
∗ Supplied with two Rotors :
- **Circular Fixed-Angle Rotor** for 6×0.5-/1.5-/2.0-ml Tubes (6×0.2-/0.5-ml tube Adapters included)
- **Strip Rotor** for 2×0.2ml PCR 8-tubes Strips or 16ea of individual 0.2ml PCR Tubes

∗ Smooth Opening of the Lid by Simply Pressing
∗ ABS Material of Body and Rotor
∗ Clear and Transparent PC(Polycarbonate) Lid
∗ Operation Display LED Lamp
∗ Lid-Activated On/Off Safety Switch : Close the Clear Lid to Start and Open to Stop

Specifications & Ordering information

Spec. \ Model		"WiseSpin® SCF-5"
RPM & Max. RCF		Max. 5,500 rpm, 1,775×g
Max. Capacity		6×0.5-/1.5-/2.0-ml tubes, 2×0.2ml PCR 8-tube Strip or 16×0.2ml PCR 8 Tubes
Rotor (included)	Angle Rotor	6 Holes Circular Fixed-Angle Rotor for 0.5-/1.5-/2.0-ml Tubes
	Strip Rotor	16 Holes Strip Rotor for 0.2ml PCR 8-tube Strip or individual Tubes
Adapter		Included 6×0.2-/ 0.5-ml Tube Adapter
Material		Lid-PC, Body-ABS, Rotor-ABS
Dimension (w×d×h)		178×150 ×h109 mm
Packing Size & Gross Weight		200×180×h175 mm, 2 kg
Power Consumption		8 W
Electric Reqts.		1 Phase, AC 100 ~ 240V, 50/60Hz
Cat. No.	230V	SL.SCF00005
	120V	SL.SCF00025
Price, Each. ₩		109,000

∗ **Other Specifications are available upon Customer's Request.**



Operation Display LED Lamp



(1) Circular Fixed Angle Rotor
For 6×0.2-/0.5-/1.5-/2.0-ml Tubes



(2) Fixed Strip Rotor
For 2×0.2ml PCR 8-tube Strips or 16×0.2ml PCR Tubes



(3) Tube Adapter
6×0.2 -/ 0.5-ml Tube Adapter

Spare Rotor & Adapter Set

		Ea. Price, ₩
DH.WCF00105	(1) Circular Fixed Angle Rotor, **"CFAR1512M"**, for **"SCF-5"** for 6×0.2-/0.5-/1.5-/2.0-ml Tubes	8,000
DH.WCF00205	(2) Fixed Strip Rotor, **"CFPR8"**, for **"SCF-5"**, for 2×0.2ml PCR8-tube Strips or 16×0.2ml PCR Tubes	8,000
DH.WCF00201	(3) 0.2ml Tube Adapter-sets, 6ea Adapter/1set, for Circular Fixed Angle Rotor, **"CFTA3"**	4,000
DH.WCF00301	(3) 0.5ml Tube Adapter-sets, 6ea Adapter/1set, for Circular Fixed Angle Rotor, **"CFTA4"**	5,000

JetBiofil® 0.5~2.0㎖ Sterile Micro-centrifuge Tubes, Quality Traceable, DNase/Rnase-free, Pyrogenic, 25,000 RCF with Flat Top Cap, Fine Graduation/Marking area on Tube, Autoclavable, −80℃~121℃, **멸균 Micro 원심관**





- ***Batch Certifications : Every Case (or Pack) is printed a Lot No. for Quality Traceability.***
- ***100,000 Clean Grade, Non-pyrogenic, Boil-proof, and Sterile.***
- ***Certified ISO 9001:2008, ISO 13485***

∗ Engraved Graduation ensure Accuracy
∗ Autoclavable at 121℃ and Freezable to -80℃
∗ Packaged in Easy Opening Plastic Bags.
∗ Can be Spun up to 25,000×g
∗ Provide Easy and Legible Mark Area
∗ DNase/RNase-free and Non-pyrogenic

		Pk.	Price,₩	Cs.	Price,₩
J1.T003.105	Microcentrifuge tube, sterile, bag Pk, 0.5 / 0.1㎖	1000ea	19,670	8pk	142,860
J1.T003.115	, 1.5 / 0.5㎖	500ea	9,850	8pk	71,440
J1.T003.120	, 2.0 / 0.5㎖	500ea	11,810	8pk	85,750

Articles	Cat. No	Description

SciLab-brand® High-Performance Pro-microcentrifuge Set, *"WiseSpin® SCF-10"*, Max. 13,500rpm, with Certi. & Traceability with MC Nylon Fixed Angle Rotor for 12×0.2-/0.5-/1.5-/2.0-㎖ Tubes, Compact, Quiet, Safety Electronic Lid Lock System

프로-마이크로 원심분리기, 전자식 안전 도어 잠금 시스템, 앵글 로터 포함, 0.2/0.5㎖ 튜브 아답터 포함



High Performance Pro-microcentrifuge Set "WiseSpin® SCF-10"

- ***Made in Korea***
- ***Unbelievably Quiet Operation - Brushless DC motor***
- ***High Performance - Digital Feedback Speed Control, Max. 13,500rpm, 12,225×g***
- ***Useful Exclusive Spin Down Function***
- ***Included MC Nylon Fixed Angle Rotor for 1.5-/2.0-ml×12 Tubes and 12×0.2-/0.5-ml PCR Tube Adapters***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***
- ***PL (Product Liability) Insurance***

∗ Plasmid, DNA and RNA work, protein work, and miniprep kit, Cell Culture, cell harvesting, subcellular separations, and many other applications.
∗ Unnecessary Rotor Lid for Running and Reducing Noise (≤57dB at Max. RPM).
∗ Realize Extremely Compact Design with Exceptionally Small Footprint.
∗ Acceleration and Braking Times are Lower than 15 sec (at Max. Speed).
∗ Storage Function for the Set Values : RPM & Time.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be disabled).
∗ Safety System for Motor Error.
∗ **Safety Electronic Lid Lock System :** Opening Lid is not applicable during running.
∗ Simple Operation for Repetitive use of 'Spin Down' Function.



(1) Fixed Angle Rotor
for 12×0.2-/0.5-/1.5-/2.0-ml



(2) Tube Adapter
12×0.2/0.5ml Tube Adapter

Specifications & Ordering information

Spec. \ Model		"WiseSpin® SCF-10"
RCF		1,000~13,500 RPM , 12,225×g
Max. Capacity		0.2-/0.5-/1.5-/2.0-ml×12 Tubes
Rotor		MC Nylon Fixed Angle Rotor for 0.2-/0.5-/1.5-/2.0-ml×12 Tubes
Drive System		Brushless DC motor, Direct drive
Noise Level		≤57 dB
Acceleration & Braking Time		≤15 sec (at Max. speed)
Cooling Device		Air Cooling System
Timer & Alarm		99hr 59min (Continuous run), Error status & Timer-end
Display		Digital LCD with Back-Light Function
Controller		Digital Feedback Control with Jog-Shuttle Switch (Turn+Push)
Safety Circuit		Motor Error Detector, Electronic Safety Lid Lock System
Material		Lid-PC, Body-ABS, Rotor-PE
Dimension & Weight		170×226×h183 mm, 2.3 kg
Packing Size & Gross Weight		290×240×h220 mm, 5 kg
Power Consumption		90W
Electric Reqts.		1 Phase, AC 120V, 50/60Hz or AC 230V, 50 / 60Hz
Cat. No.	230V	**SL.SCF00010**
	120V	**SL.SCF00011**
Price, Each. ₩		**292,000**

∗ Other Specifications are available upon Customer's Request.

Spare Rotor & Adapter Set

		Ea. Price, ₩
DH.WCF00100	MC Nylon Fixed Angle Rotor, **"CFAR1512"**, for **"SCF-10"**, 12×0.2-/0.5-/1.5-/2.0-ml Tubes	25,000
DH.WCF00200	0.2ml Tube Adapter-sets, 12ea Adapter/1set, for Fixed Angle Rotor, **"CFTA1"**	8,000
DH.WCF00300	0.5ml Tube Adapter-sets, 12ea Adapter/1set, for Fixed Angle Rotor, **"CFTA2"**	10,000

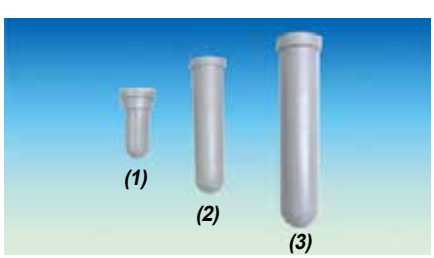
SciLab-brand® 1.5~15㎖ Popularly Classic Centrifuge, *"WiseSpin® Scef"*, for 1.5~15㎖ tubes, Safety Stop Switch NEW with 6-/8-Holes Fixed Angle Rotor, 3000-/6000-rpm, RCF-1066×g/-4265×g, 1.5~15㎖ 튜브용 다용도 원심분리기



(A) "WiseSpin® Scef-6" for 6 Tubes of 1.5~15ml, with 6 Holes Fixed Angle Rotor, 3000rpm



(B) "WiseSpin® Scef-8" for 6 Tubes of 1.5~15ml, with 8 Holes Fixed Angle Rotor, 6000rpm



Optional Tube Adapters

- ***SciLab Designed*** ■ ***Speed is Linear and Stables***
- ***Ideal for Biology, Medicine, Pharmacology, Laboratory, etc. Various Application***
- ***with 6- or 8-Holes Fixed Angle Rotor :***
  Useful Various Tubes, Adjustable 1.5-/2.0-/5~7-/10~15-ml Tubes without Changing Rotor
- ∗ The Design is up-to-date, Beautiful Outlook and Durable
- ∗ Auto-balancing System
- ∗ Stepless Controller : Speed and Operating Time
- ∗ ABS Outer Shell can Resist Collision.
- ∗ Brushless Motor, Free Maintenance
- ∗ Small Size Unit can Save your Working Desk Space
- ∗ with Safety Switch when Centrifuge Lid Opened the Motor can be Stop

Specifications & Ordering information

Spec. \ Model		(A) "WiseSpin® Scef-6"	(B) "WiseSpin® Scef-8"
Speed Range (rpm)		300~3000rpm at 60Hz(300~2500rpm at 50Hz)	300~6000rpm
R.C.F		1,066×g	4,265×g
Max Capacity		1.5-/2.0-/5~7-/10~15ml×6 Tubes	1.5-/2.0-/5~7-/10~15ml×8 Tubes
Rotor		included Fixed Angle Rotor, 6Holes	included Fixed Angle Rotor, 8Holes
Motor		Induction Motor	DC Motor
Timer		0~30min Analog Timer	
Display		None	Tachometer for Speed and R.C.F
Adapter		6×10~15ml Tube Adapter(id17.5×L95mm)	8×10~15ml Tube Adapter(id17.5×L95mm)
Safety Manual Brake		None	Yes
Dimension & Weight		280×280×h255 mm, 3.5kg	280×280×h265 mm, 4.5kg
Electric Reqts.		AC230V, 50/60Hz or AC120V, 60Hz	
Cat. No.	230V	**SL.Scef0006**	**SL.Scef0008**
	120V	**SL.Scef0106**	**SL.Scef0108**
Price, Each. ₩		**359,000**	**583,000**

Optional Tube Adapter for 1.5-/2.0-/5~7-㎖ Tubes

		Ea. Price, ₩
DH.CefA0102	(1) 1.5-/2.0ml Tube Adapter, PP, id⌀11.0×L42mm, for "Scef-6", "Scef-8"	5,000
DH.CefA0507	(2) 5~7ml Tube Adapter, PP, id⌀13.5.0×L69mm, for "Scef-6", "Scef-8"	5,000

Spare Tube Adapter for 10~15㎖ Tubes

		Ea. Price, ₩
DH.CefA1050	(3) 10~15ml Tube Adapter, PP, id⌀17.5×L98mm, for "Scef-6", "Scef-8"	5,000

SciLab Korea

Desiccator Cabinets

Desiccator, Auto-Dry ····· P. 34~35
, Gas Exchangeable/General Purpose ····· P. 33~34
, General Purpose ····· P. 33
, UV Protection Auto-Dry ····· P. 36
, Vacuum ····· P. 37~38



General Purpose Desiccator
"DeLL", 33Lit.



Auto-Dry Desiccator
"DeADLH", 33Lit.



UV Protection Auto-Dry Desiccator
"DeADLL.UV", 33Lit.



Vacuum Desiccator
"DeVM", 9.2Lit.



Vacuum Desiccator
"DeVL", 12Lit.



Vacuum Desiccator
"DeVLH", 30Lit.



Vacuum Desiccator
"DeVW", 48Lit.



Auto-Dry Desiccator
"DeADAWS", 604Lit.



Gas Exchangeable/General Purpose Desiccator
"DeBG1K", 207Lit.



Auto-Dry Desiccator
"DeADDWS", 604Lit.

Articles	Cat. No	Description

2-Year Warranty



(1) Horizontal-type, 33Lit.

2-Year Warranty



(2) Vertical-type, 33Lit.

SciLab-brand® General Purpose Desiccator, Horizontal- & Vertical-types, 33Lit.
with ABS Frame, Transparent Acrylic Panel, "DeLL", "DeLH", 일반 데시게이터

* SciLab® Designed Korea-made
* Superior Sealing and Airtight for Door using Rubber Packing.
* Excellent Impact Resistance and Stiffness with ABS Body Frame
* Transparent Acrylic for Easy Viewing ensures over 99% Permeability.
* Easy to Insert the Various Size by Adjustable Shelves Support
* Material : Main Body - Frame(ABS : Acrylonitrile Butadiene Styrene resin),
  Panel -Transparent Acrylic (PMMA : Polymethyl Methacrylate),
  Board for Shelves - Transparent Acrylic (PMMA : Polymethyl methacrylate),
  Rubber Leg - Natural Rubber
* Horizontal-type is Included 1ea Board for Shelf : Board for Shelves Size : 397×302×5mm
* Vertical-type is Included 3ea Board for Shelves : Board for Shelves Size : 267×302×4mm
* Board Load : 2kg
* Shelf Interval : 30mm(Adjustable Shelf by Purpose)
* Weight(Included Board for Shelf) : 4.7kg
* Included 1ea Silica Gel Plate.

※ 운임 약 ₩ 6,000 별도!

(1) Horizontal-type, 33Lit.

		Ea.	Price, ₩
SL.DeLL	General Desiccator, Horizontal-type, 33Lit. Outer : 450×330×h350mm, Inner : 400×305×h270mm		294,030

(2) Vertical-type, 33Lit.

		Ea.	Price, ₩
SL.DeLH	General Desiccator, Vertical-type, 33Lit. Outer : 330×330×h480mm, Inner : 270×305×h400mm		294,030

Spare Shelves : Adjustable Shelves Number and Height

		Ea.	Price, ₩
SL.DeSH003	Spare PMMA Shelves, Horizontal-type, Load 2kg, w397×d302mm		29,410
SL.DeSH002	, Vertical-type, Load 2kg, w267×d302mm		29,410

2-Year Warranty



207Lit.,

(1) Floor-type, 2-Doors

2-Year Warranty



164Lit.,

(2) Bench-type, 1-Doors

with Digital Thermo Hygrometer

SciLab-brand® Gas Exchangeable/General Purpose Desiccator, 164-/207-Lit
with Aluminum Frame, Transparent Acrylic(PMMA) Panel, with-/without-Wheel, "DeBG2", "DeBG1K"
Bench-type 1-Door 164Lit, Floor-type 2-Doors 207Lit, 가스치환가능/일반 데시게이터, 중형

* SciLab® Designed Korea-made
* **Easy Viewing of the Internal Temperature and Humidity by attached Digital Thermo Hygrometer on the Front Door.**
* Transparent Acrylic (PMMA) Main Body for Easy Viewing of the Contents and Maintain Airtight by Using The Rubber Packing.
* Material : Panel - Transparent Acrylic (PMMA), Frame - Aluminum, Shelf - Stainless-steel
* Nylon Caster ensures Convenience of Moving.
* Shelf Moving Interval : 50 mm
* Adjustable Shelves Number and Height
* Number of Shelf : DeBG1K / 4ea, DeBG2 / 2ea Included.
* Available Gas Exchange and Mounted Gas Valve.
* Order Made for Non-standard Dimensions, UV Protection and Antistatic is available.
* Purpose : Storage of Various Samples, Precision Instrument and Semiconductor-related Product that User want to Perform a Reliable Humidity Control and Used in Simple and Easy Low Humidity Characterization Test.

※ 운임 약 ₩ 16,000 별도!

		Ea.	Price, ₩
SL.DeBG1K	(1) 207Lit, Floor-type Desiccator, with Caster, 2-Doors Outer : 574×535×h1070mm, Inner : 490×460×h920mm		1,061,780
SL.DeBG2	(2) 164Lit, Bench-type Desiccator, 1-Door Outer : 574×535×h765mm, Inner : 490×460×h730mm		735,080

Spare Shelves : Adjustable Shelves Number and Height

		Ea.	Price, ₩
SL.DeSH001	Spare Stainless-steel Shelves, Load 20kg, w490×d460mm		58,810

Spare Accessories

		Ea.	Price, ₩
SL.DeDHY	Spare Digital Thermo Hygrometer		19,610

Articles	Cat. No	Description



"SL.DeSS", 320Lit.
1-Room, 2-Doors



"SL.DeW4S", 604Lit.
4-Rooms, 4-Doors

with Digital Thermo Hygrometer

SciLab-brand® Gas Exchangeable/General Purpose Desiccator
320-/640-/604-Lit. and 1-/2-/4-Rooms, "DeSS", "DeWS", "DeW4S"
with Al-Frame, Clear PMMA, 2- or 4-Doors, 가스치환가능/일반 데시게이터, 대형

* SciLab® Designed Korea-made
* Available Gas Exchange and Mounted 2ea Gas valve.
* **Easy Viewing of the Internal Temperature and Humidity by attached Digital Thermo Hygrometer on the Front Door.**
* Material : Panel - Transparent Acrylic (PMMA), Frame - Aluminum, Shelves - Stainless-steel
* Transparent Acrylic (PMMA) Main Body for Easy Viewing of the Contents and Maintain Confidentiality by Using The Rubber Packing.
* Design of 4 Independent Structures is Reduced the Gas Consumption Because It is not Affect Another Room if the Other Door is Opened as Store Sample by Gas Exchange. (Only DH.DeW4S Model)
* Shelves Moving Interval : 50 mm
* Adjustable Shelves Number and Height
* Nylon Caster ensures Convenience of Moving.
* Purpose : Storage of Various Samples, Precision Instrument and Semiconductor-related Product that User want to Perform a Reliable Humidity Control and Used in Simple and Easy Low Humidity Characterization Test.

※ 운임 약 ₩ 30,000 별도!

* Order Made for Non-standard Dimensions is available

		Ea. Price, ₩
SL.DeSS	General Desiccator, 320Lit, 1-Room, 2-Doors Outer : 574×535×h1770mm, Inner : 490×460×h1420mm Included Shelves 4ea, Silica gel Tray 1ea and Gas valve 2ea	1,388,480
SL.DeWS	General Desiccator, 640Lit, 2-Rooms, 4-Doors Outer : 1164×535×h1770mm, Inner : 490×460×h1420mm×2Room Included Shelves 8ea, Silica gel Tray 2ea and Gas valve 2ea	2,776,950
SL.DeW4S	General Desiccator, 604Lit, 4-Rooms, 4-Doors Outer : 1164×535×h1770mm, Inner : 490×460×h670mm×4Room Included Shelves 8ea, Silica gel Tray 4ea and Gas valve 8ea	3,430,350

	Spare Shelves : Adjustable Shelves Number and Height	Ea. Price, ₩
SL.DeSH001	Spare Stainless-steel Shelves, Load 20kg, w490×d460mm	58,810
SL.DeDHY	Spare Digital Thermo Hygrometer	19,610



(1) Horizontal-type, 33Lit.



(2) Vertical-type, 33Lit.



Built-in Dehumidification Unit

with Analog Hygrometer

SciLab-brand® Auto-Dry Desiccator, Horizontal- & Vertical-types, "DeADLL", "DeADLH", 33Lit.
with ABS-Frame, Clear PMMA, Built-in Dehumidification ~25%RH, 자동습도조절 데시게이터

* SciLab® Designed Korea-made
* Equipped Analog Hygrometer : To Read the Internal Humidity.
* Power Consumption is 3 Watt by Energy-saving Designed, User can use Efficiently as Dehumidified storage that always Put the Power to Use.
* Superior Sealing and Airtight of Door Part by Rubber Packing Door
* Excellent Durability : Dehumidification-unit has no Driving Part the Source of Sound or Vibration and in Dehumidification-unit
* Excellent Impact Resistance and Stiffness with ABS Body frame
* Method of Dehumidification : Perform Auto-regeneration and Dehumidification Function without having to put a Silica gel by Auto-regenerated Silica gel Method
* Transparent Acrylic for Easy Viewing ensures over 99% Permeability.
* Shelves Interval : 30mm (Adjustable Shelves by Purpose)

Specifications
* Range of Humidity : ~25%RH (Depend on Surrounding Environmental Condition)
* Dry Module
* Material : Main Body - Frame(ABS), Panel / Board for Shelf - Transparent Acrylic (PMMA), Rubber Leg- Natural Rubber
* Horizontal-type is Included 1ea Board for Shelves: Board for Shelf Size : 397×302×5mm
* Vertical-type is Included 3ea Board for Shelves : Board for Shelf Size: 267×302×4mm
* Board for Shelf Load : 2kg
* Weight(Included Board for Shelves) : 5kg
* Power Supply : AC220V, 50/60Hz, 3W

※ 운임 약 ₩ 6,000 별도!

(1) Auto-Dry Desiccator, Horizontal-type, 33Lit.

		Ea. Price, ₩
SL.DeADLL	Auto-Dry Desiccator, Horizontal-type, 33Lit. Outer : 450×330×h350mm, Inner : 400×305×h270mm	490,050

※ 운임 약 ₩ 6,000 별도!

(2) Auto-Dry Desiccator, Vertical-type, 33Lit.

		Ea. Price, ₩
SL.DeADLH	Auto-Dry Desiccator, Vertical-type, 33Lit. Outer : 330×330×h480mm, Inner : 270×305×h400mm	490,050

	Spare Shelves : Adjustable Shelves Number and Height	Ea. Price, ₩
SL.DeSH003	Spare PMMA Shelves, Horizontal-type, Load 2kg, w397×d302mm	29,410
SL.DeSH002	, Vertical-type, Load 2kg, w267×d302mm	29,410

	Spare Accessories	Ea. Price, ₩
SL.DeAHY	Spare Analog Hygrometer	19,610
SL.DeHY	Spare Dehumidification Unit	245,030

Articles	Cat. No	Description



Auto-Dry "SL.DeADASS"
320Lit., 1-Room, 2-Doors



Auto-Dry "SL.DeADAWS", 604Lit.,
2-Rooms, 4-Doors

with Digital Thermo Hygrometer

SciLab-brand® Auto-Dry Desiccator, Analog Control, 207-/320-/604-Lit and 1-/2-Rooms, 1-or 2- or 4-Doors, "DeADABG1K", "DeADASS", "DeADAWS" with Al-frame, 20~50%RH, 아날로그 방식 자동 제습 데시게이터

* SciLab® Designed Korea-made
* **Easy Viewing of the Internal Temperature and Humidity by attached Digital Thermo Hygrometer on the Front Door.**
* Method of Dehumidification : Improved Dehumidification Capability by Repeated Regeneration of Solid Silica gel
* Used the Excellent Airtight Rubber Packing and Reached the Desired Humidity using Super - Dehumidifier in Minimum Time.
* The Dehumidifier uses 220V Power Supply and Analog Controller.
* Purpose: Storage of Various Samples, Precision Instrument and Semiconductor-related Product that User want to Perform a reliable Humidity Control and Used in Simple and Easy Low Humidity Characterization Test.
* Humidity Control Range : 20~50%RH * Display(Humidity) : LED Digital Display
* Material : Panel - Transparent Acrylic (PMMA), Frame - Aluminum, Shelves - Stainless-steel
* Included 4ea Shelves * Equipped Wheel
* Order Made for Non-standard Dimensions is available

※ 운임 약 ₩ 30,000 별도!

		Ea. Price, ₩
SL.DeADABG1K	Auto-Dry Desiccator, Analog Control, 207Lit., 1-Room, 1-Doors, Outer : 574×535×h1070mm, Inner : 490×460×h920mm	1,388,480
SL.DeADASS	Auto-Dry Desiccator, Analog Control, 320Lit., 1-Rooms, 2-Doors, Outer : 574×535×h1770mm, Inner : 490×460×h1420mm	1,878,530
SL.DeADAWS	Analog Control Desiccator, 604Lit., 2-Rooms, 4-Doors, Outer : 1154×535×h1770mm, Inner : 490×460×h1420mm	3,267,000

Spare Shelves : Adjustable Shelves Number and Height

		Ea. Price, ₩
SL.DeSH001	Spare Stainless-steel Shelves, Load 20kg, w490×d460mm	58,810

Spare Accessories

		Ea. Price, ₩
SL.DeDHY	Spare Digital Thermo Hygrometer	19,610



Auto-Dry "SL.DeADDWS", 604Lit.
2-Rooms, 4-Doors

with Digital Thermo Hygrometer

SciLab-brand® Auto-Dry Desiccator, Digital Control, with 207-/320-/604-Lit. and 1-/2-Rooms, 1-or 2- or 4-Doors, "DeADDBG1K", "DeADDSS", "DeADDWS" with Al-frame, Transparent Acrylic-Panel, 15~60%RH, 디지털 고성능 자동 제습 데시게이터

* SciLab® Designed Korea-made
* **Easy Viewing of the Internal Temperature and Humidity by attached Digital Thermo Hygrometer on the Front Door.**
* Method of Dehumidification : Improved Dehumidification Capability by Repeated Regeneration of Solid Silica gel
* Used the Excellent Airtight Rubber Packing and Reached the Desired Humidity using Super- Dehumidifier in Minimum Time.
* The Dehumidifier uses 220V Power Supply and Digital Controller.
* Purpose : Storage of Various Samples, Precision Instrument and Semiconductor-related Product that User want to Perform a reliable humidity control and Used in Simple and Easy Low Humidity Characterization Test.
* Humidity Control Range : 15~60%RH
* Humidity Control Resolution : 5%RH - Atmospheric Humidity
* Material : Panel - Transparent Acrylic (PMMA), Frame - Aluminum, Shelves - Stainless-steel
* Display(Humidity) : LED Digital Display * Included 4ea Shelves
* Order Made for Non-standard Dimensions is available * Equipped Wheel

※ 운임 약 ₩ 30,000 별도!

		Ea. Price, ₩
SL.DeADDBG1K	Auto-Dry Desiccator, Digital Control, 207Lit., 1-Room, 1-Doors, Outer : 574×535×h1070mm, Inner : 490×460×h920mm	1,960,200
SL.DeADDSS	Auto-Dry Desiccator, Digital Control, 320Lit., 1-Rooms, 2-Doors, Outer : 574×535×h1770mm, Inner : 490×460×h1420mm	2,450,250
SL.DeADDWS	Auto-Dry Desiccator, Digital Control, 604Lit., 2-Rooms, 4-Doors, Outer : 1154×535×h1770mm, Inner : 490×460×h1420mm, Included 8ea Shelves	3,838,730

Spare Shelves : Adjustable Shelves Number and Height

		Ea. Price, ₩
SL.DeSH001	Spare Stainless-steel Shelves, Load 20kg, w490×d460mm	58,810

Articles	Cat. No	Description



UV Protection, Auto-Dry Desiccator
Vertical-type "DeADLH.UV", 33Lit.



Built-in Dehumidification Unit

with Analog Hygrometer

SciLab-brand® UV Protection Auto-Dry Desiccator, Vertical-type, "DeADLH.UV", 33Lit with ABS-Frame, Clear PMMA, ~25%RH, 520nm or Less, UV차단 자동습도조절 데시게이터

Feature

* SciLab® Designed Korea-made
* UV Protection : Protect from Less 520nm.
* **Equipped Analog Hygrometer : To Read the Internal Humidity.**
* Power Consumption is 3 Watt by Energy-saving Designed, User can use Efficiently as Dehumidified Storage that always Put the Power to Use.
* Excellent Durability : Dehumidification-unit has no Driving Part the source of sound or vibration and in Dehumidification-unit
* Method of Dehumidification : Perform Auto-regeneration and Dehumidification Function without having to put a Silica gel by Auto-regenerated Silica gel Method
* Superior Sealing and Airtight of Door Part by Rubber Packing Door
* Excellent Impact Resistance and Stiffness with ABS Body frame
* Using the Transparent Acrylic for Easy Observation.
* Adjustable Shelf Interval : 30mm

Specifications

* Range of Humidity : ~25%RH (Depend on Surrounding Environmental Condition)
* Equipped Analog Hygrometer : To Read the Internal Humidity.
* Dry Module
* Material : Main Body - Frame(ABS), Panel / Board for Shelf - Transparent Acrylic (PMMA), Rubber Leg- Natural Rubber
* Board for Shelf Size : 267×302×4mm
* Weight(Included Board for Shelf) : 5kg
* Board for Shelf Load : 2kg
* Included 3ea Shelves
* Power Supply : AC220V, 50/60Hz, 3W

※ 운임 약 ₩ 6,000 별도!

		Ea. Price, ₩
SL.DeADLH.UV	UV Protection Desiccator, Auto-Dry, Vertical-type, 33Lit. Outer : 330×330×h480mm, Inner : 270×305×h400mm	686,070

Spare Shelves : Adjustable Shelves Number and Height

		Ea. Price, ₩
SL.DeSH002	Spare PMMA Shelves, Vertical-type, Load 2kg, w267×d302mm	29,410

Spare Accessories

		Ea. Price, ₩
SL.DeAHY	Spare Analog Hygrometer	19,610
SL.DeHY	Spare Dehumidification Unit	245,030



UV Protection, Auto-Dry Desiccator
Horizontal-type "DeADLL.UV", 33Lit.



Built-in Dehumidification Unit

with Analog Hygrometer

SciLab-brand® UV Protection Auto-Dry Desiccator, Horizontal-type, "DeADLL.UV", 33Lit with ABS-Frame, Clear PMMA, ~25%RH, 520nm or Less, UV차단 자동습도조절 데시게이터

Feature

* SciLab® Designed Korea-made
* UV Protection : Protect from Less 520nm.
* **Equipped Analog Hygrometer : To Read the Internal Humidity.**
* Power Consumption is 3 Watt by Energy-saving Designed, User can use Efficiently as Dehumidified Storage that always Put the Power to Use.
* Excellent Durability : Dehumidification-unit has no Driving Part the Source of Sound or Vibration and in Dehumidification-unit
* Method of Dehumidification : Perform Auto-regeneration and Dehumidification Function without having to put a Silica gel by Auto-regenerated Silica gel Method
* Superior Sealing and Airtight of Door Part by Rubber Packing Door
* Excellent Impact Resistance and Stiffness with ABS Body frame
* Using the Transparent Acrylic for Easy Observation.
* Adjustable Shelf Interval : 30mm

Specifications

* Range of Humidity : ~25%RH (Depend on Surrounding Environmental Condition)
* Equipped Analog Hygrometer : To Read the Internal Humidity.
* Dry Module
* Material : Main Body - Frame(ABS), Panel / Board for Shelf - Transparent Acrylic (PMMA), Rubber Leg- Natural Rubber
* Board for Shelf Size : 397×302×5mm
* Weight(Included Board for Shelf) : 5kg
* Board for Shelf Load : 2kg
* Included 1ea Shelves
* Power Supply : AC220V, 50/60Hz, 3W

※ 운임 약 ₩ 6,000 별도!

		Ea. Price, ₩
SL.DeADLL.UV	UV Protection Desiccator, Auto-Dry, Horizontal-type, 33Lit. Outer : 450×330×h350mm, Inner : 400×305×h270mm	686,070

Spare Shelves : Adjustable Shelves Number and Height

		Ea. Price, ₩
SL.DeSH003	Spare PMMA Shelves, Horizontal-type, Load 2kg, w397×d302mm	29,410

Spare Accessories

		Ea. Price, ₩
SL.DeAHY	Spare Analog Hygrometer	19,610
SL.DeHY	Spare Dehumidification Unit	245,030

Articles	Cat. No	Description



Vacuum Desiccator "DeVS", 7Lit.

SciLab-brand® Vacuum Desiccator, "DeVS", Clear PMMA, with Pressure Gauge, 7Lit. with Top Door Open, Horizontal-type, 진공 데시게이터, 투명 강화 아크릴

* SciLab® Designed Korea-made
* Transparent Acrylic(PMMA) Main Body for Easy Viewing of the Contents.
* Enhancement of Adhesion by Silicon Packing of Contact Surface Between Main Body and Door.
* Material : Main Body - Tempered Transparent Acrylic(Thick.20mm), Valve and Installed Part of the Vacuum Gauge : Acetal
* Vacuum Valve : Out Diameter Φ8mm×2ea * Permissible Degree of Vacuum : 1 Torr(Approximately 133Pa)
* Order Made for Non-standard Dimensions and for UV Protection is available.
* Included Pressure Gauge 1ea, Board for Shelf 1 ea and Silica gel Tray 1ea
* Shelf : 1ea * Upper Door Open Type

※ 운임 약 ₩ 6,000 별도!

		Ea.	Price, ₩
SL.DeVS	Vacuum Desiccator, Outer : 300×300×h170mm, Inner : 260×260×h100mm		784,080



Vacuum Desiccator "DeVM", 9.2Lit.

SciLab-brand® Vacuum Desiccator, "DeVM", Clear PMMA, with Pressure Gauge, 9.2Lit. with Upper Door Open, Vertical-type, 진공 데시게이터, 투명 강화 아크릴

* SciLab® Designed Korea-made
* Transparent Acrylic(PMMA) Main Body for Easy Viewing of the Contents.
* Enhancement of Adhesion by Silicon Packing of Contact Surface Between Main Body and Door.
* Material : Main Body - Tempered Transparent Acrylic(Thickness 20mm), Valve and Installed Part of the Vacuum Gauge : Acetal
* Vacuum Valve: Out Diameter Φ8mm×2ea
* Permissible Degree of Vacuum : 1 Torr(Approximately 133Pa)
* Order Made for Non-standard Dimensions and for UV Protection is available.
* Included Pressure Gauge 1ea and Silica gel Tray 1ea.

※ 운임 약 ₩ 6,000 별도!

		Ea.	Price, ₩
SL.DeVM	Vacuum Desiccator, Outer : 260×260×h360mm, Inner : 210×210×h210mm		735,080



Vacuum Desiccator "DeVL", 12Lit.

SciLab-brand® Vacuum Desiccator, "DeVL", Clear PMMA, with Pressure Gauge, 12Lit. with Front Door Open, Vertical-type, 진공 데시게이터, 투명 강화 아크릴

* SciLab® Designed Korea-made
* Transparent Acrylic (PMMA) Main Body for Easy Viewing of the Contents.
* Enhancement of Adhesion by Silicon Packing of Contact Surface Between Main Body and Door.
* Material : Main Body - Tempered Transparent Acrylic (Thickness 20mm), Valve and Installed Part of the Vacuum Gauge : Acetal
* Order Made for Non-standard Dimensions and for UV Protection is available.
* Included Pressure Gauge 1ea, Board for Shelf 1ea and Silica gel Tray 1ea
* Vacuum Valve : Out Diameter Φ8mm, 2ea
* Permissible Degree of Vacuum : 1 Torr(Approximately 133Pa)

※ 운임 약 ₩ 6,000 별도!

		Ea.	Price, ₩
SL.DeVL	Vacuum Desiccator, Outer : 310×225×h430mm, Inner : 260×180×h260mm		980,100



Vacuum Desiccator "DeVLH", 30Lit.

SciLab-brand® Vacuum Desiccator, "DeVLH", Clear PMMA, with Pressure Gauge, 30Lit. with Front Door Open, Vertical-type, 진공 데시게이터, 투명 강화 아크릴

* SciLab® Designed Korea-made
* Transparent Acrylic (PMMA) Main Body for Easy Viewing of the Contents.
* Permissible Degree of Vacuum : 1 Torr(Approximately 133Pa)
* Material : Main Body - Tempered Transparent Acrylic (Thickness 25mm), Valve and Installed Part of the Vacuum Gauge : Acetal
* Enhancement of Adhesion by Silicon Packing of Contact Surface Between Main Body and Door.
* Order Made for Non-standard Dimensions and for UV Protection is available.
* Included Pressure Gauge 1ea, Board for Shelf 4ea and Silica gel Tray 1ea
* Number of Shelves : 4ea (Board for Shelf Interval : 85mm)
* Vacuum Valve : Out Diameter Φ8mm, 2ea

※ 운임 약 ₩ 6,000 별도!

		Ea.	Price, ₩
SL.DeVLH	Vacuum Desiccator, Outer : 320×335×h600mm, Inner : 260×280×h410mm		1,682,510

Articles	Cat. No	Description



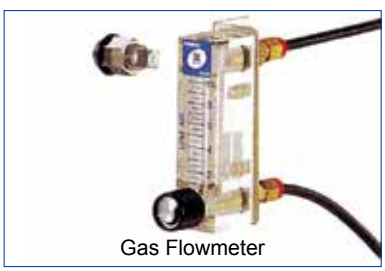
Vacuum Desiccator "DeVW", 48Lit.

SciLab-brand® Vacuum Desiccator, "DeVW", Clear PMMA, with Pressure Gauge, 48Lit. with Front Door Open, Vertical-type, 진공 데시게이터, 투명 강화 아크릴

* SciLab® Designed Korea-made
* Transparent Acrylic (PMMA) Main Body for Easy Viewing of the Contents.
* Permissible Degree of Vacuum : 1 Torr(Approximately 133Pa)
* Material : Main Body - Tempered Transparent Acrylic (Thickness 25mm), Valve and Installed Part of the Vacuum Gauge : Acetal
* Enhancement of Adhesion by Silicon Packing of Contact Surface Between Main Body and Door.
* Order Made for Non-standard Dimensions and for UV Protection is available.
* Included Pressure Gauge 1ea, Board for Shelf 3ea and Silica gel Tray 1ea
* Number of Shelves : 3ea (Board for Shelf Interval : 96mm)
* Vacuum Valve : Out Diameter Φ8mm, 2ea

※ 운임 약 ₩ 10,000 별도!

		Ea.	Price, ₩
SL.DeVW	Vacuum Desiccator, Outer : 470×365×h600mm, Inner : 400×300×h400mm		2,450,250


Gas Flowmeter

SciLab-brand® Gas Flowmeter, 70×170mm, 10ℓ/min Ideal for Desiccator, 유량계 (데시게이터용 악세사리)

* Desiccator Accessory
* Size : 70×170mm
* Included Bracket and Fitting 2ea (for Φ6mm Tube)

		Ea.	Price, ₩
SL.DeFL	Gas Flowmeter, Desiccator Accessory, 70×170mm, 10ℓ/min		133,950

Desiccant


(1) OPP Film Packing


(2) Paper Packing


(3) Non-woven Fabric Packing



(4) Blue-Gel Bulk Can Packing

Sungel® Drying Agent "Silica-Gel" or "Blue-Gel", Narrow Pore-type, 1g~20g & 1kg Ideal for Food & Medical Supplies, Non-toxic / Colorless / Odorless, 실리카겔 or 블루겔 건조제

* Non-Indicating type
* Insoluble in water, No Chemical Changes
* Opp Film : The Excellent Chemical Resistance and Durability
* "(4)" Blue-Gel(Indicating Type) : Contact with water, Change White Color.

(1) Silica-Gel, Non-Indicating Type, OPP Film 1~5g

		Pk.	Price, ₩	Cs.	Price, ₩
S19.101	Silica-gel, OPP Film, 35×35mm, 1g	10ea	90	1,200pk	94,090
S19.102	, 45×35mm, 2g	10ea	140	800pk	94,090
S19.103	, 50×50mm, 3g	10ea	190	500pk	81,680
S19.105	, 50×60mm, 5g	10ea	310	400pk	109,780

(2) Silica-Gel, Non-Indicating Type, Paper Packing, 5~10g

		Pk.	Price, ₩	Cs.	Price, ₩
S19.205	Silica-gel, Paper, 50×60mm, 5g	10ea	310	350pk	107,820
S19.210	, 60×80mm, 10g	10ea	480	200pk	86,250

(3) Silica-Gel, Non-Indicating Type, Non-woven Fabric Packing, 20g

		Pk.	Price, ₩	Cs.	Price, ₩
S19.320	Silica-gel, Non-woven Fabric, 70×85mm, 20g	10ea	1,070	100pk	98,010

(4) Blue-Gel, Indicating Type, Bulk Can Packing, 1kg NEW

		Pk.	Price, ₩
S19.401	Blue-gel, Bulk Can, 73×142×h230mm, 1kg	1kg	11,440

SciLab Korea

Electrophoresis

Gel Documentation System - Portable ..... P. 40
- Unified ..... P. 41
UV Transilluminator ..... P. 42
Accessories - UV-intensity Meter ..... P. 42
- UV-indicator ..... P. 42

Gel Documentation System

Portable Gel Documentation System

"WiseDoc® SGD-20"

1.5M Pixel CCD Camera





Gel Imaging System

Unified Gel Imaging System

"WiseDoc® G2"

1.45 Mega Pixel CCD

UV Transilluminator

Transilluminator, Standard Case-type

"WiseUV® TI-L50"



Articles	Cat. No	Description

SciLab-brand® Portable Gel Documentation System, *"WiseDoc® SGD-20"*, 1.5M Pixel CCD Camera, with Certi. & Traceability with Digital CCD Camera & Optical Lens, Portable Darkroom Hood, WiseCapture Ⅱ™ Capture Software, USB Interface NEW

젤이미지 분석 시스템, 고성능/최저가, 디지털 CCD 카메라(150만 화소) 장착

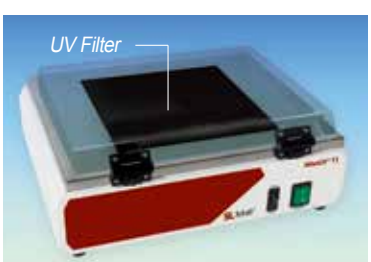


Portable Gel Documentation System "WiseDoc® SGD-20"

※ Computer System Requirements
- Intel Chipset, USB 2.0 Support Mainboard
- Over Pentium 4 Processor
- Over 256MB Main Memory
- Over 60MB Space of HDD for Installation and Running
- Window XP, Vista & 7 OS(32bit)



WiseCapture Ⅱ™
: Included S/W, Real-Time Image Viewing/Capture, Manipulate and Save Images



(1) UV Transilluminator(Optional)

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***The Most Cost-Effective System***
- ***High Precise and Large Caliber Optical Lens with Zoom, Focus and Iris Control are Used***

* DNA, RNA gel Imaging Capture and Analysis
* Digital CCD Camera (Resolution 1.5 Million pixel) with Portable Darkroom is Offered
* 1360×1024, 10-bit CCD, Available for 8-bit Gray Level Image Capturing
* Power Consumption : Supplied USB(USB 2.0)
* Very Compact Portable Darkroom System Enables the Existing Transilluminators in the Lab to be used together with this system. High Flexibility in use is Offered
* USB 2.0 Interface is available, through which Real-Time Images are transferred directly to PC
* WiseCapture Ⅱ™ Software : Easy and Fast Capture of Gel Image
* TotalLab™ Software : Fully Automatic, Single Button Press Complete Image Analysis in Interesting Area(Optional)

Specifications & Ordering information

Spec. \ Model		"WiseDoc® SGD-20"	"WiseDoc® SGD-20S"
CCD Module	CCD & Pixel Size	1/2″ CCD, 4.65×4.65 um	
	Max. Resolution	1360×1024	
	Lens Mount & Optical Size	C mount, 7.6×6.2 mm	
	Connect to PC & Power	USB 2.0, Supplied USB	
Zoom Lens	Iris & Focal Length	F1.0 - Close, 8~48mm	
	Ambient Temp.	−10℃ to +50℃	
Overall	Dimension & Weight	260×260×h430 mm, 9 kg	
	Software Capability	Windows XP, Vista & 7	
Included Standard S/W		WiseCapture Ⅱ (Real-time Image Viewing/Capture/Save)	
Included DNA Analysis S/W		none	TotalLab™ Quant
Packing Size & Weight		400×350×h510 mm, 18 kg	
Cat. No.		SL.SGD00020	SL.SGD00024
Price, Each. ₩		2,842,000	4,049,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 9,000 별도!

Optional Transilluminator & S/W

		Ea. Price, ₩
SL.SUV00020	(1) Transilluminator, **"WiseUV® TI-L20",** 20×20cm Filter 312nm, 15W UV Lamp×6ea	1,030,000
SL.SUV00050	(1) Transilluminator, **"WiseUV® TI-L50",** 20×20cm Filter 365nm+312nm, 15W UV Lamp×6ea	895,000
SL.SUV00120	(1) Transilluminator, **"WiseUV® TI-M20",** 20×20cm Filter 312nm, 8W UV Lamp×6ea	968,000
DH.WGD00100	(2) **TotalLab™ Quant,** DNA Analysis S/W	1,229,000
DH.WGD00120	(3) **Phoretix 1D,** DNA Analysis S/W	4,576,000
DH.WGD00121	(4) **Phoretix 1D Pro,** DNA Analysis S/W	9,137,000
DH.WGD00200	LapTop Computer, **WGD-Laptop,** for WGD Gel Doc.System	1,562,000

DNA Analysis S/W

(2) TotalLab™ Quant
■ Automatic and Manual Lane Detection, Background Subtraction
Fully Automatic Band Detection, Molecular Size / pI Calibration
Quantity Calibration, Normalization

(3) Phoretix 1D (additional function)
■ Band Matching, Band Picking, Dendrograms, Intensity Calibration

(4) Phoretix 1D Pro (additional function)
■ Match Band Data Patterns across Large Groups of Lanes
Choice of Algorithms to Generate Dendrograms : NeighborJoining, UPGMA, Complete Linkage, Single Linkage, Ward Library, Queries Function



One Stop Analysis

SciLab-brand® Gel Imaging System, Built-in Transilluminator, *"WiseDoc® G2"*, 1.45M Pixel, 4.65㎛, F1.0, 8~48mm Manual Zoom with Capture Software, High-quality CCD Camera & Optical Lens, Auto Control Sys, USB Connection, Certi. & Traceability NEW

이미지 분석 시스템, 자외선 발산기 일체형, 디지털 CCD 카메라(145만 화소) 장착



"WiseDoc® G2" Gel Imaging System, Built-in Transilluminator

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.***
- ***Complete System with 1.45M Pixel Digital CCD Camera, Safety Darkroom Hood and Built-in Transilluminator(6×8W UV Lamps, 312nm) is Offered.***
- ***High-quality F1.0 Optical Lens with 8~48mm Manual Zoom, Focus and Iris Control is Used.***
- ***Included MaXidoc Gel Imaging Capture Software.***

∗ Ideal for Various Applications of DNA, RNA Gel Imaging Capture and Analysis.
∗ Unified Darkroom System with Built-in Sliding Transilluminator offers very safety and convenience in use
∗ Built-in Single Wave Transilluminator : 312nm, 6×8W UV Lamps and 3×White LED Lamps
∗ 1360×1024 CCD Resolution ∗ Can be Used with Tablet PC(Optional)
∗ USB 2.0 Interface is Available through Which Real-time Images are Transferred Directly to PC





Imaging Capture S/W

: Included S/W, Real-Time Image Viewing/Capture, Manipulate and Save Images



Specifications & Ordering information

Spec. \ Model		"WiseDoc® G2"
Camera Resolution		1.45 Mega Pixel CCD
Pixel Size		4.65㎛
Lens		F1.0 Fixed, 8~48mm Manual Zoom
Tranilluminator		312nm, 6×8W UV Lamps, Filter Size : 210×260mm
Software		Included MaXidoc Gel Imaging Capture Software
White Light		3×LED Lamps
PC Interface(OS)		Window 7 (32 bit)
Camera Interface		USB 2.0
Dimension & Weight		360×380×h700 mm, 24 kg
Packing Size (mm) & Gross Weight (kg)		430×490×h830 mm, 28 kg
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz
Cat. No.	230V	SL.SGD00300
	120V	SL.SGD00301
Price, Each. ₩		4,400,000

∗ **Other Specifications are available upon Customer's Request.**

Optional Software/Transilluminator/White Light Table

		Ea. Price, ₩
DH.WGD00100	DNA/Protein Analysis S/W, **TotalLab™ Quant**	1,229,000
DH.WGD00120	DNA Analysis S/W, **Phoretix 1D**	4,576,000
DH.WGD00121	, **Phoretix 1D Pro**	9,137,000
DH.WUV01110	UV Lamp, 365nm, 8W	22,000
DH.WUV02110	, 312nm, 8W	72,000
DH.WGD10300	10inch Tablet PC, Window7, i3 CPU, RAM 2GB 1366×768 Display, Included Stationary Stand	On Request

DNA Analysis S/W

(2) TotalLab™ Quant
■ Automatic and Manual Lane Detection, Background Subtraction
Fully Automatic Band Detection, Molecular Size / pI Calibration
Quantity Calibration, Normalization

(3) Phoretix 1D (additional function)
■ Band Matching, Band Picking, Dendrograms, Intensity Calibration

(4) Phoretix 1D Pro (additional function)
■ Match Band Data Patterns across Large Groups of Lanes
Choice of Algorithms to Generate Dendrograms : NeighborJoining, UPGMA, Complete Linkage, Single Linkage, Ward Library, Queries Function



One Stop Analysis

SciLab-brand® UV Transilluminators, *"WiseUV® TI"*, Standard- & Compact Case-type, 48W/90W with Hinged UV-Blocking Safety Cover, Robust, Versatile, 312-/365-/312+365-nm, with Certi. & Traceability

자외선 발산기, 기본형 핵산(DNA, RNA), 스탠다드-/컴팩트-케이스 타입



(1) Transilluminator, Standard Case-type "WiseUV® TI-L50"



(2) Transilluminator, Compact Case-type "WiseUV® TI-M20"

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Low Cost, Robust, Versatile, Affordable & Gentle Excitation***
- ***Hinged UV-Blocking Safety Cover Protects User from UV Radiation***
- ***Stainless steel Frame and Robust Steel Housing***

∗ Ideal for Standard Gel Documentation and Preparative Work, especially for Detection of very small amount of DNA & RNA Stained by EtBr

∗ Long-Life Electronic (Low Heat, no Flickering) ∗ High (100%) / Low (75%) Intensity Switch

Specifications & Ordering information

Spec. \ Model		WiseUV® TI-L10	WiseUV® TI-L20	WiseUV® TI-L50	WiseUV® TI-M10	WiseUV® TI-M20
Body Size-type		(1) Standard Case-type			(2) Compact Case-type	
Dimension		495×330×h95 mm			350×275×h95 mm	
Filter Size		200×200 mm				
Wave Length		Single 365 nm	Single 312 nm	Dual 365+312 nm	Single 365 nm	Single 312 nm
UV Lamps		15W×6ea (90W)			8W×6ea (48W)	
Power Consumption		95 W			52 W	
Weight		10 kg			8 kg	
Packing Size (mm) & Gross Weight (kg)		520×380×h220 mm, 12 kg			380×320×h220 mm, 10 kg	
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz				
Cat. No.	230V	SL.SUV00010	SL.SUV00020	SL.SUV00050	SL.SUV00110	SL.SUV00120
	120V	SL.SUV02010	SL.SUV02020	SL.SUV02050	SL.SUV00210	SL.SUV00220
Price, Each. ₩		749,000	1,030,000	895,000	714,000	970,000

∗ **Other Specifications are available upon Customer's Request.**

Spare UV Lamps

		Ea. Price, ₩
DH.WUV01010	UV Lamp, 365nm, 15W, for **"TI-L10/-L50"**	25,000
DH.WUV01020	, 312nm, 15W, for **"TI-L20/-L50"**	78,000
DH.WUV01110	, 365nm, 8W, for **"TI-M10"**	22,000
DH.WUV02110	, 312nm, 8W, for **"TI-M20"**	72,000



UV-intensity Meter

Custom® Digital UV-intensity Meter, 1999~19,990㎼-/cm² with UV Sensor, 70×25×h131mm, 335g, 디지탈 자외선 강도계

- ***Supplied by LMS® in Japan***

∗ Range(㎼W/cm2): 1999 · 19990 ∗ Accuracy: ±(4%rdg+2 dgt)

∗ Wavelength Sensitivity Characteristics : 290-390 nm ∗ Sampling : 2.5time/sec

∗ Size : Body / 70×25×131mm, Sensor / 46×27×168mm, Cord Length / 700mm

∗ Measurement of UVA, UVB is Possible

∗ Separated Sensor enables you to Measure from Furthere.

		Ea. Price, ₩
AS1.6395.11	"UV340" Meter, Digital, UV-intensity	581,250



UV-indicator Dot Label

Jayu® UV-indicator Dot Label, Φ18mm, 자외선 감시 라벨

- ***Supplied by LMS® in Japan***

∗ Original Color → Discoloration : UV-L / Clear(White) → Reddish Brown, UV-M / Clear(White) → Pink, UV-H / Clear(White) → Orange, UV-S / Clear(White) → Red

∗ Labels Change Color by UV and keep Remining Once Discolored.

∗ The Back has Special Adhesives so that it can Stick Easily. ∗ Quantity : 1pack (100sheet)

		Pk.	Price, ₩
AS6.7789.03	"UV.S" Label UV-indicator Dot, for UV-lamp	100ea	104,740
AS6.7789.04	"UV.L" , Solar	100ea	104,740

SciLab Korea

Evaporator

Evaporator Circulator Coolers "Chillers" ..... P. 52

Evaporator Vacuum Aspirator and Cooler ..... P. 53

Rotary Vacuum Evaporators, 0.5~2 Lit. ..... P. 44~45

, 5 Lit. ..... P. 46~47

, 10 & 20 Lit. ..... P. 48~49

, 50 Lit. ..... P. 50~51



▶ **Installation Figure : 20Lit Evaporator with Chiller & Vacuum Pump**

SciLab-brand® 0.5~2 Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1001V", "WiseVapor™ Ev-1001L"*

with 6.5 Lit Digital Bath 100℃, PID Control & Lifting Table, 20~180rpm, Cooling Surface 1,300 cm², Certi. & Traceability, 회전식 증발 농축기



2-Year Warranty

(1) Digital Rotary Evaporator, Vertical-type "WiseVapor™ Ev-1001V", 0.5 ~ 2 Lit



2-Year Warranty

(2) Digital Rotary Evaporator, Diagonal-type "WiseVapor™ Ev-1001L", 0.5 ~ 2 Lit.

- ***Cooling Surface 1,300 cm²***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Distill of (Mixed) Solvent, Condensation Solution and Suspension, Concentrate Liquid, Re-crystallization, Dry Powder and Granulate, Synthesize Chemical, Soxhlet Extraction, Recycle Solve***
- ***Included 2×Evaporating Flasks : 1×0.5Lit. & 1×1Lit.***
- ***The Temperature adopts PID Control, which ensures accurate Temperature Control.***
- ***Speed Display, Operate Visually and easily***

∗ Digital Speed Display, Digital Temp. Display on Water Bath.
∗ Double Sealing with PTFE and Fluorous Rubber to ensure High Vacuum Degree.
∗ The Air Extraction Nozzle of Condenser is set down, and it is Safer after Connection with Vacuum Pipe
∗ Building Block Design is Easily to be Extended.
∗ Easy Operation of Lifting, Move up and Down Smoothly and Easy to Lock.
∗ Dedicated Electric Machinery, Worm and Gear Drive Steadily.
∗ The Separation of Bath and the Mainframe makes Configure Flexible.
∗ These Rotary Evaporators could Set with Circulation Aspirator Pump (P. 53)

Specifications & Ordering information

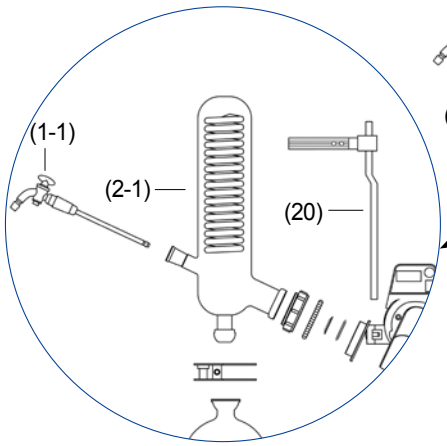
Spec. \ Model		"WiseVapor™ Ev-1001V"	"WiseVapor™ Ev-1001L"
Condenser Type		Vertical-type	Diagonal-type
Bottle Capacity	Evaporating	Included 2×Evaporating Flasks : 1×0.5Lit. & 1×1Lit, Available 100-/250-ml, 2Lit. Evaporating Flask(Optional)	
	Receiving	Included 1ea 1 Lit. Flask	
Rotary Speed		20 ~ 180 rpm	
Evaporating Capability		20 ml/min	
Cooling Surface		1,300 cm²	
Achievable Vacuum		399.9Pa(below 3mmHg)	
Bath Capacity		6.5 Lit. / Φ254×130 mm	
Temp. Range		0℃ ~ 100℃	
Functional of Lifting Table		Weight Balancing Gliding Elevating & Manual Lifting	
Elevating Stroke		100 ~ 250 mm	
Vacuum Sealing		Double Sealing Rings made of Teflon	
Power Consumption		Motor : 25 W, Heater : 1.05KW	
Controller & Display		PID Controller, Digital display	
Dimension & Net Weight		560×320×h660mm / 9.5 kg	750×320×h540mm / 9.5 kg
Electrical Reqts.		AC220V, 50/60Hz or AC110V, 60Hz	
Cat. No.		**SL.Ev1001V**	**SL.Ev1001L**
Price, Each. ₩		2,349,000	2,349,000

The Details of Spare Parts : Please See the Next Page

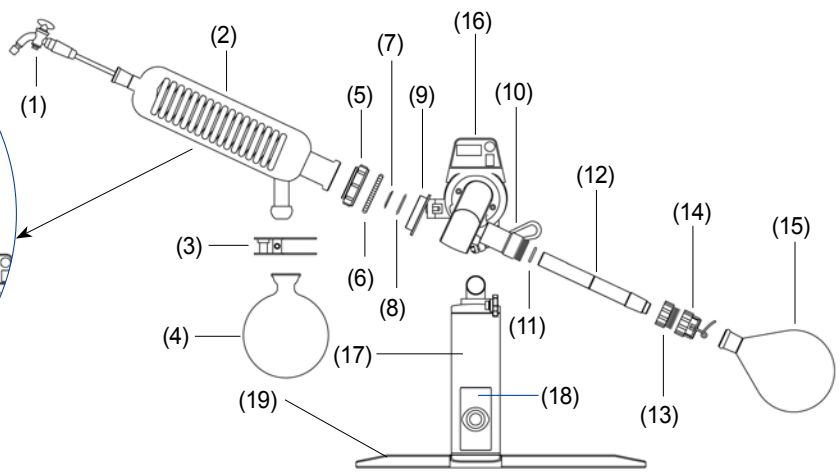
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<*Continued From...* SciLab-brand® 0.5~2 Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1001V", "WiseVapor™ Ev-1001L"*>

The Details of Spare Parts for 0.5~2Lit Digital Rotary Evaporator "WiseVapor™ Ev-1001V" & "WiseVapor™ Ev-1001L" models



Drawing of Digital Rotary Evaporator, Vertical-type, "WiseVapor™ Ev-1001V"



Drawing of Digital Rotary Evaporator, Diagonal-type, "WiseVapor™ Ev-1001L"

Ordering Information

Seq. No.	Cat. No.	Description	Ea.	Price, ₩
(1)	**DH.Ev1001.A01**	Glass Feeding Valve(19#), for **"Ev-1001L"**		72,490
(1-1)	**DH.Ev1001V.A01**	Glass Feeding Valve(19#), for **"Ev-1001V"**		72,490
(2)	**DH.Ev1001L.A02**	Glass Condenser, Φ85×390mm, for **"Ev-1001L"**		299,000
(2-1)	**DH.Ev1001V.A02**	Glass Condenser, Φ85×385mm, for **"Ev-1001V"**		299,000
(3)	**DH.Ev1001.A03**	Clamp for Receiving Flask, STS304, 90×33×50mm, for **"Ev-1001L", "Ev-1001V"**		9,070
(4)	**SL.Fla2081**	DURAN glass Receiving Flask, 250㎖, 35/20, for **"Ev-1001L", "Ev-1001V"**		33,880
(4)	**SL.Fla2082**	DURAN glass Receiving Flask, 500㎖, 35/20, for **"Ev1001L", "Ev-1001V"**		35,090
(4)	**SL.Fla2083**	DURAN glass Receiving Flask, 1,000㎖, 35/20, for **"Ev-1001L", "Ev-1001V"**		38,720
(4)	**SL.Fla2084**	DURAN glass Receiving Flask, 2,000㎖, 35/20, for **"Ev-1001L", "Ev-1001V"**		61,710
(5)	**DH.Ev1001.A05**	Condenser Locknut, PP, Φ75×23mm, for **"Ev-1001L", "Ev-1001V"**		9,070
(6)	**DH.Ev1001.A06**	Circlip, STS304, Φ38mm, for **"Ev-1001L", "Ev1001V"**		9,070
(7)	**DH.Ev1001.A07**	Deputy Vacuum Seal, FTFE, Φ51×5mm, for **"Ev-1001L", "Ev-1001V"**		86,080
(8)	**DH.Ev1001.A08**	Main Vacuum Seal, PTFE, Φ51×5mm, for **"Ev-1001L", "Ev-1001V"**		13,600
(9)	**DH.Ev1001.A09**	Bearing end Cap, PA, Φ83×28mm, for **"Ev1001L", "Ev-1001V"**		13,600
(10)	**DH.Ev1001.A10**	Rotary Axis, STS304, Φ38×67mm, for **"Ev-1001L", "Ev-1001V"**		45,310
(11)	**DH.Ev1001.A11**	O-ring, Silicon, Φ20×3mm, for **"Ev-1001L", "Ev-1001V"**		2,270
(12)	**DH.Ev1001.A12**	Glass Rotation Axis, Φ22×190mm, for **"Ev-1001L", "Ev-1001V"**		36,250
(13)	**DH.Ev1001.A13**	Auxiliary Flask Opener, PC, Φ41×53mm, for **"Ev-1001L", "Ev-1001V"**		9,070
(14)	**DH.Ev1001.A14**	Main Flask Opener, PC, Φ41×53mm, for **"Ev-1001L", "Ev-1001V"**		9,070
(15)	**SL.Fla2061**	DURAN glass Evaporating Flask, 100㎖, ⧲ 24/40, for **"Ev-1001L", "Ev-1001V"**		24,410
(15)	**SL.Fla2063**	DURAN glass Evaporating Flask, 250㎖, ⧲ 24/40, for **"Ev-1001L", "Ev-1001V"**		26,810
(15)	**SL.Fla2065**	DURAN glass Evaporating Flask, 500㎖, ⧲ 24/40, for **"Ev-1001L", "Ev-1001V"**		30,360
(15)	**SL.Fla2067**	DURAN glass Evaporating Flask, 1,000㎖, ⧲ 24/40, for **"Ev-1001L", "Ev-1001V"**		38,340
(15)	**SL.Fla2069**	DURAN glass Evaporating Flask, 2,000㎖, ⧲ 24/40, for **"Ev-1001L" , "Ev-1001V"**		90,780
(16)	**DH.Ev1001.A16**	Motor Shroud, ABS, 145×100×180mm, for **"Ev-1001L", "Ev-1001V"**		588,940
(17)	**DH.Ev1001.A17**	Lifting Column, Aluminum, 38×30×230mm, for **"Ev-1001L" , "Ev-1001V"**		158,560
(18)	**DH.Ev1001.A18**	Lifting Handle, PP, Φ24×115mm, for **"Ev-1001L", "Ev-1001V"**		45,310
(19)	**DH.Ev1001.A19**	Base Plate, Aluminum, 320×460×20mm, for **"Ev-1001L", "Ev-1001V"**		45,310
(20)	**DH.Ev1001V.A20**	Glass Condenser Bracket, STS304, Φ10×280mm, for **"Ev-1001V"**		22,660

SciLab-brand® 5 Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1005"* Large Capacity, Vertical-type with Digital Controlled Stainless-steel Bath 99℃, Electric Lift Bath, 20~140 rpm, 대용량 회전식 증발 농축기



Digital Rotary Evaporator, Large Capa.
"WiseVapor™ Ev-1005" 5Lit.

- ***Cooling Surface 2,700 cm²***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Distill of (Mixed) Solvent, Condensation Solution and Suspension, Concentrate Liquid, Re-crystallization, Dry Powder and Granulate, Synthesize Chemical, Soxhlet Extraction, Recycle Solve***
- ***Teflon (PTFE) and Fluorine Rubber Dual Rotating Seal, Patented Technology to ensure High Vacuum.***
- ***A Vacuum Switching Valve, without Affecting the System Vacuum Distillation of the Situation and the Solution can be Continuously Collected.***
- ***Stainless steel Water Bath Electric Lift, Easy to Use.***

∗ Water Bath Electric Lift, Easy to Use.
∗ The Introduction of Foreign Advanced Frequency Control System, Temperature Control System, Accurate and Reliable.
∗ PTFE Discharge Valve, Corrosion Resistance, Pollution-free. ∗ Water Bath Electric Lift, Easy to Use.
∗ These Rotary Evaporators could Set with Circulation Aspirator Pump (P.53)

Specifications & Ordering information

Spec. \ Model	"WiseVapor™ Ev-1005"
Evaporating Flask	5 Lit, Flange Opening Φ50 mm
Receiving Flask & Condenser	3 Lit, Vertical type Water Refrigerating
Temp. Range & Rotary Speed	0℃ ~ 99℃, 20 ~ 140 rpm
Evaporating Capability	Water : 2 Lit./h, Alcohol : 5.4 Lit/h
Cooling Surface	2,700 cm²
Achievable Vacuum	399.9Pa(below 3mmHg)
Functional of Lifting Table & Stroke	Electric, 0 ~ 150 mm
Vacuum Sealing	PTFE and Fluorine Rubber Dual Rotating Seal
Motor	250 W, Phase DC Induction Motor
Heating Boiler	Stainless steel Water Bath
Display	Digital display
Dimension (mm)	835×400×h1090
Electrical Reqts.	2.3kW, 220V, 50/60Hz
Cat. No.	SL.Ev1005
Price, Each. ₩	4,747,000

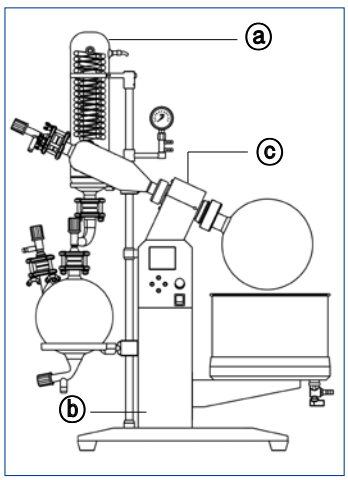
※ 운임 약 ₩ 9,000 별도!

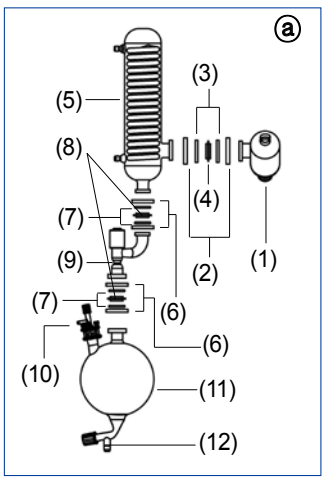
The Details of Spare Parts : Please See the Next Page

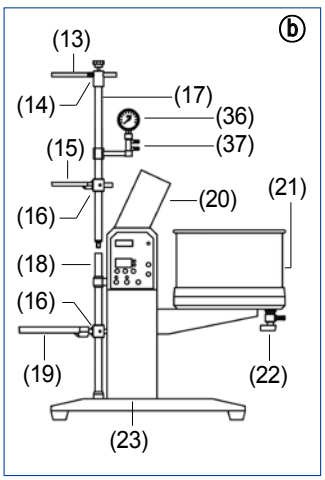
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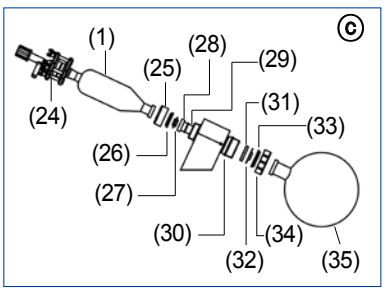
<*Continued From...* SciLab-brand® 5 Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1005"*>

The Details of Spare Parts for 5Lit Digital Rotary Evaporator "WiseVapor™ Ev-1005" model









Ordering Information

Seq. No.	Cat. No.	Description	Ea.	Price, ₩
(1)	**DH.Ev1005.A01**	3-way Glass Flask, Φ80×300mm, for **"Ev-1005"**		92,870
(2)	**DH.Ev1005.A02**	Connection Flange Set(50#), Aluminum, Φ82×10mm, for **"Ev-1005", "Ev-1010", "Ev-1020"**		22,660
(3)	**DH.Ev1005.A03**	Flange Retaining Ring(50#), EPDM, Φ60×6mm, for **"Ev-1005", "Ev-1010", "Ev-1020"**		2,270
(4)	**DH.Ev1005.A04**	Flange Gasket(50#), PTFE, Φ45×12mm, for **"Ev-1005", "Ev-1010", "Ev-1020"**		18,130
(5)	**DH.Ev1005.A05**	Glass Condenser(Main), Φ100×455mm, for **"Ev-1005"**		373,750
(6)	**DH.Ev1005.A06**	Connection Flange Set(40#), Aluminum, Φ72×10mm, for **"Ev-1005"**		22,660
(7)	**DH.Ev1005.A07**	Flange Retaining Ring(40#), EPDM, Φ50×6mm, for **"Ev-1005"**		2,270
(8)	**DH.Ev1005.A08**	Flange Gasket(40#), PTFE, Φ35×12mm, for **"Ev-1005"**		18,130
(9)	**DH.Ev1005.A09**	Condenser Connector, Glass, 135×96×39mm, for **"Ev-1005"**		174,420
(10)	**DH.Ev1005.A10**	Glass Bleed Valve(35#), for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		144,970
(11)	**DH.GL22095**	DURAN glass Receiving Flask, 3Lit., for **"Ev-1005"**		122,250
(12)	**DH.Ev1005.A12**	Discharge Valve, PTFE, Φ56×120mm, for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		45,310
(13)	**DH.Ev1005.A13**	Condenser Clamp, SUS304, 91-113, for **"Ev-1005"**		36,250
(14)	**DH.Ev1005.A14**	Condenser Clamp Holder, SUS304, Φ28×45mm, for **"Ev-1005"**		22,660
(15)	**DH.Ev1005.A15**	Condenser Tray, EPDM, Φ102mm, for **"Ev-1005"**		36,250
(16)	**DH.Ev1005.A16**	Stand Folder, SUS304, Φ19×Φ12mm, for **"Ev-1005"**		36,250
(17)	**DH.Ev1005.A17**	Stand Pole, SUS304, Φ20×480mm, for **"Ev-1005"**		36,250
(18)	**DH.Ev1005.A18**	Under Stand Pole, SUS304, Φ20×450mm, for **"Ev-1005"**		36,250
(19)	**DH.Ev1005.A19**	Glass Receiving Flask Tray, Φ167mm, for **"Ev-1005"**		67,960
(20)	**DH.Ev1005.A20**	Machine Head Capsule, Aluminum, 179×100×90mm, for **"Ev-1005"**		1,268,470
(21)	**DH.Ev1005.A21**	Water Bath, SUS304, Φ314×168mm, for **"Ev-1005"**		203,870
(22)	**DH.Ev1005.A22**	Drain Valve, PTFE, 1/2″, for **"Ev-1005"**		20,390
(23)	**DH.Ev1005.A23**	Stand Base, Carbon Steel, 570×266mm, for **"Ev-1005"**		181,210
(24)	**DH.Ev1005.A24**	Glass Feeding Valve(40#), for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		190,280
(25)	**DH.Ev1005.A25**	Fixed Nut, for 3-way Glass Flask, Aluminum, Φ62×24mm, for **"Ev-1005"**		36,250
(26)	**DH.Ev1005.A26**	Fixed Nut Retainer Ring, 3-way Glass Flask, PA , Φ50×8mm, for **"Ev-1005"**		4,540
(27)	**DH.Ev1005.A27**	Flange Seals, PTFE, Φ35×12mm, for **"Ev-1005"**		18,130
(28)	**DH.Ev1005.A28**	Rotation Glass Axis, Φ40×160mm, for **"Ev-1005"**		49,840
(29)	**DH.Ev1005.A29**	O-ring, EPDM, Φ27×2.65mm, for **"Ev-1005"**		2,270
(30)	**DH.Ev1005.A30**	Couplings, SUS304, Φ64×34mm, for **"Ev-1005"**		67,960
(31)	**DH.Ev1005.A31**	Main Vacuum Seal, PTFE, Φ50×8mm, for **"Ev-1005"**		90,610
(32)	**DH.Ev1005.A32**	Deputy Vacuum Seal, FTFE, Φ50×8mm, for **"Ev-1005"**		95,140
(33)	**DH.Ev1005.A33**	Retaining Ring, PA, 57×67×8mm, for **"Ev-1005"**		4,540
(34)	**DH.Ev1005.A34**	Rotating Shaft Nut, PA, Φ78×29mm, for **"Ev-1005"**		38,510
(35)	**SL.Fla2074**	DURAN glass Evaporating Flask, 5Lit., for **"Ev-1005"**		217,800

SciLab-brand® 10-/20-Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1010", "WiseVapor™ Ev-1020"*, Large Capacity, Vertical -type with Digital Controlled Stainless-steel Bath 99℃, Electric Lift Bath, 20~130 rpm, 대용량 회전식 증발 농축기



2-Year Warranty

Digital Rotary Evaporator, Large Capa.
"WiseVapor™ Ev-1010" 10Lit

- ***Stainless-steel Water Bath Electric Lift, Easy to Use.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Distill of (Mixed) Solvent, Condensation Solution and Suspension, Concentrate Liquid, Re-crystallization, Dry Powder and Granulate, Synthesize Chemical, Soxhlet Extraction, Recycle Solve***
- ***Cooling Surface : "WEV-1010" total 6,500 cm² and "WEV-1020" total 11,500 cm²***
- ***Teflon (PTFE) and Fluorine Rubber Dual Rotating Seal, Patented Technology to ensure High Vacuum.***
- ***A Vacuum Switching Valve, without Affecting the System Vacuum Distillation of the Situation and the Solution can be Continuously Collected.***

∗ The Introduction of Foreign Advanced Frequency Control System, Temperature Control System, Accurate and Reliable. ∗ PTFE Discharge Valve, Corrosion Resistance, Pollution-free.
∗ A Vacuum Switching Valve, without Affecting the System Vacuum Distillation of the Situation and the Solution can be Continuously Collected. ∗ Water Bath Electric Lift, Easy to Use.
∗ These Rotary Evaporators could Set with Circulation Aspirator Pump (P.53)

Specifications & Ordering information

Spec. \ Model		"WiseVapor™ Ev-1010"	"WiseVapor™ Ev-1020"
Evaporating Flask		**10 Lit**., Flange Opening Φ95 mm	**20 Lit**., Flange Opening Φ125 mm
Receiving Flask		5 Lit.	10 Lit.
Condenser		Standing, Main & Auxiliary Cooling and Highly Efficient 3 Circulating Cold Trap	
Temp. Range		0℃ ~ 99℃	
Rotary Speed		20 ~ 130 rpm	
Evaporating Capability		Water : 3.2 Lit./h, Alcohol : 8.6 Lit./h	Water : 5 Lit./h, Alcohol : 14.3 Lit./h
Cooling Surface		Main Condenser 4,500 cm² Auxiliary Condenser 2,000 cm²	Main Condenser 8,000 cm² Auxiliary Condenser 3,500 cm²
Achievable Vacuum		399.9Pa(below 3mmHg)	
Functional of Lifting Table		Electric	
Elevating Stroke		0 ~ 160 mm	0 ~ 190 mm
Vacuum Sealing		PTFE and Fluorine Rubber Dual Rotating Seal	
Motor		Phase DC Induction Motor	
		250 W	250 W
Heating Boiler		Stainless-steel Water Bath	
Display		Digital display	
Power Consumption		3.8 KW	6.3 KW
Dimension (mm)		990×550×h1655	1195×635×h2070
Electrical Reqts.		1Phase 220V, 50/60Hz or 3Phase 380V, 50Hz	3Phase 380V, 50Hz
Cat. No.	230V	**SL.Ev1010**	**SL.Ev1020**
	3Phase	**SL.Ev1011**	**SL.Ev1021**
Price, Each. ₩		7,816,000	10,760,000

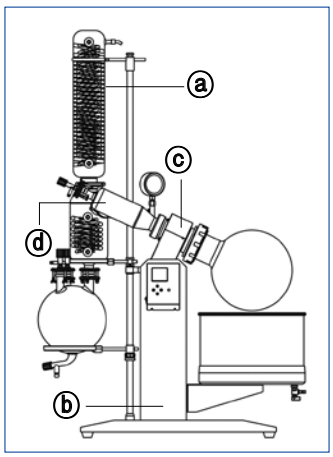
※ 운임 약 ₩ 9,000 별도!

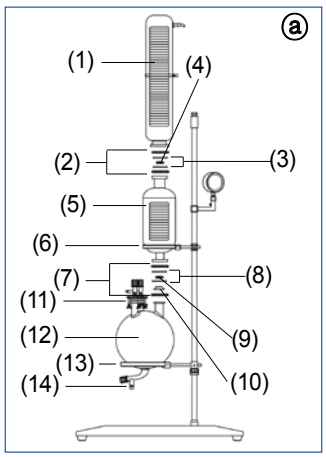
The Details of Spare Parts : Please See the Next Page

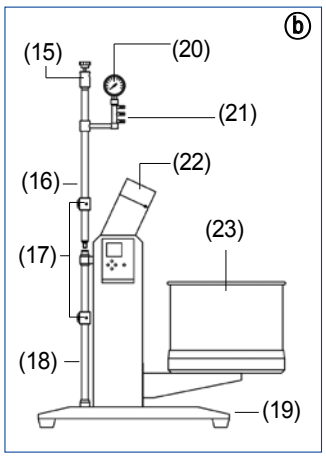
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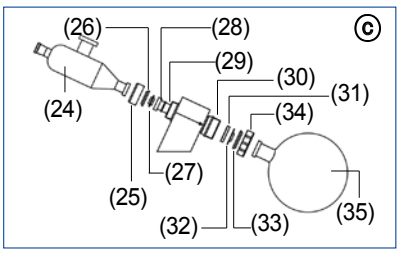
<*Continued From...* SciLab-brand® 10-/20-Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1010", "WiseVapor™ Ev-1020"*>

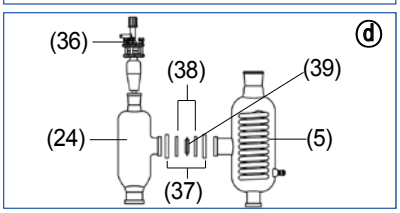
The Details of Spare Parts for 10-/20-Lit Digital Rotary Evaporator "WiseVapor™ Ev-1010" & "WiseVapor™ Ev-1020" models











Seq. No.	Cat. No.	Description	Ea.	Price, ₩
(1)	DH.Ev1010.A01	Glass Condenser(Main), Φ120×575mm, for **"Ev-1010"**		634,240
(1)	DH.Ev1020.A01	Glass Condenser(Main), Φ135×738mm, for **"Ev-1020"**		987,600
(2)	DH.Ev1010.A02	Connection Flange Set(60#), Φ90×12mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		22,660
(2)	DH.Ev1020.A02	Connection Flange Set(80#), Aluminum, Φ110×15mm, for **"Ev-1020", "Ev-1050"**		22,660
(3)	DH.Ev1010.A03	Flange Retaining Ring(60#), EPDM, Φ70×10mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		2,270
(3)	DH.Ev1020.A03	Flange Retaining Ring(80#), EPDM, Φ86.5×10mm, for **"Ev-1020", "Ev-1050"**		4,540
(4)	DH.Ev1010.A04	Flange Gasket(60#), PTFE, Φ55×12.5mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		18,130
(4)	DH.Ev1020.A04	Flange Gasket(80#), PTFE, Φ75×12.5mm, for **"Ev-1020", "Ev-1050"**		18,130
(5)	DH.Ev1010.A05	Auxiliary Glass Condenser, Φ134×400mm, for **"Ev-1010"**		403,200
(5)	DH.Ev1020.A05	Auxiliary Glass Condenser, Φ165×575mm, for **"Ev-1020"**		813,180
(6)	DH.Ev1010.A06	Auxiliary Glass Condenser Tray, EPDM, Φ116mm, for **"Ev-1010"**		67,960
(6)	DH.Ev1020.A06	Auxiliary Glass Condenser Tray, EPDM, Φ150mm, for **"Ev-1020"**		67,960
(7)	DH.Ev1005.A02	Connection Flange Set(50#), Aluminum, Φ82×10mm, for **"Ev-1005", "Ev-1010", "Ev-1020"**		22,660
(8)	DH.Ev1005.A03	Flange Retaining Ring(50#), EPDM, Φ60×6mm, for **"Ev-1005", "Ev-1010", "Ev-1020"**		2,270
(9)	DH.Ev1005.A04	Flange Gasket(50#), PTFE, Φ45×12mm, for **"Ev-1005", "Ev-1010", "Ev-1020"**		18,130
(10)	DH.Ev1010.A10	Automatic Switching Valve, Φ31×23mm, for **"Ev-1010", "Ev-1020"**		13,600
(11)	DH.Ev1005.A10	Glass Bleed Valve(35#), for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		144,970
(12)	DH.GL22097	DURAN glass Receiving Flask, 5Lit., for **"Ev-1010"**		225,550
(12)	DH.GL22098	DURAN glass Receiving Flask, 10Lit., for **"Ev-1020"**		439,880
(13)	DH.Ev1010.A13	Glass Receiving Flask Tray, Φ227mm, for **"Ev-1010", "Ev-1020"**		67,960
(14)	DH.Ev1005.A12	Discharge Valve, PTFE, Φ56×120mm, for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		45,310
(15)	DH.Ev1010.A15	Condenser Clamp, SUS304, 113-140, for **"Ev-1010", "Ev-1020"**		36,250
(16)	DH.Ev1010.A16	Stand Pole, SUS304, Φ25×697mm, for **"Ev-1010", "Ev-1020"**		45,310
(17)	DH.Ev1010.A17	Stand Folder, SUS304, Φ25×Φ12mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		22,660
(18)	DH.Ev1010.A18	Under Stand Pole, SUS304, Φ25×704mm, for **"Ev-1010", "Ev-1020"**		45,310
(19)	DH.Ev1010.A19	Stand Base, Carbon Steel, 680×337mm, for **"Ev1010"**		226,520
(19)	DH.Ev1020.A19	Stand Base, Carbon Steel, 451×850mm, for **"Ev-1020"**		226,520
(20)	DH.Ev1010.A20	Vacuum Gauge, Φ100, for **"Ev-1010", "Ev-1020", "Ev-1050"**		54,370
(21)	DH.Ev1010.A21	Vacuum Gauge Holder, Copper, 137×120×35mm, for **"Ev-1010", "Ev-1020"**		36,250
(22)	DH.Ev1010.A22	Machine Head Capsule, Aluminum, 130×214×100mm, for **"Ev-1010"**		1,359,080
(22)	DH.Ev1020.A22	Machine Head Capsule, Aluminum, 290×137×50mm, for **"Ev-1020"**		1,812,100
(23)	DH.Ev1010.A23	Water Bath, SUS304, Φ345×215mm, for **"Ev-1010"**		271,820
(23)	DH.Ev1020.A23	Water Bath, SUS304, Φ450×255mm, for **"Ev-1020"**		339,770
(24)	DH.Ev1010.A24	3-way Glass Flask, Φ100×338mm, for **"Ev-1010", "Ev-1020"**		113,260
(25)	DH.Ev1010.A25	Fixed Nut, for 3-way Glass Flask, Aluminum, Φ90×29mm, for **"Ev-1010"**		36,250
(25)	DH.Ev1050.A25	Fixed Nut, for 3-way Glass Flask, Aluminum, Φ105×31mm, for **"Ev-1020", "Ev-1050"**		40,780
(26)	DH.Ev1010.A26	Fixed Nut Retainer Ring, 3-way Glass Flask, PA , Φ65×10mm, for **"Ev-1010", "Ev-1020"**		4,540
(27)	DH.Ev1010.A27	Flange Seals, PTFE, Φ55×12.5mm, for **"Ev-1010", "Ev-1020"**		18,130
(28)	DH.Ev1010.A28	Rotation Glass Axis, Φ60×185mm, for **"Ev1010"**		117,790
(28)	DH.Ev1020.A28	Rotation Glass Axis, Φ60×195mm, for **"Ev-1020"**		140,440
(29)	DH.Ev1010.A29	O-ring, EPDM, Φ38×3.1mm, for **"Ev-1010"**		4,540
(29)	DH.Ev1050.A29	O-ring, EPDM, Φ55×3mm, for **"Ev-1020", "Ev-1050"**		4,540
(30)	DH.Ev1010.A30	Couplings, SUS304, Φ116×45mm, for **"Ev-1010", "Ev-1020"**		67,960
(31)	DH.Ev1010.A31	Main Vacuum Seal, Φ96×10mm, PTFE, for **"Ev-1010"**		149,500
(31)	DH.Ev1050.A31	Main Vacuum Seal, PTFE, Φ125×10mm, for **"Ev-1020", "Ev-1050"**		235,580
(32)	DH.Ev1010.A32	Deputy Vacuum Seal, FTFE, Φ96×10mm, for **"Ev-1010"**		158,560
(32)	DH.Ev1050.A32	Deputy Vacuum Seal, FTFE, Φ125×10mm, for **"Ev-1020", "Ev-1050"**		203,870
(33)	DH.Ev1010.A33	Retaining Ring, PA, Φ107×15mm, for **"Ev-1010", "Ev-1020"**		4,540
(34)	DH.Ev1010.A34	Rotating Shaft Nut, PA, Φ78×29mm, for **"Ev-1010"**		45,310
(34)	DH.Ev1050.A34	Rotating Shaft Nut, PA, Φ175×45mm, for **"Ev-1020", "Ev-1050"**		67,960
(35)	SL.Fla2075	DURAN glass Evaporating Flask, 10Lit., for **"Ev-1010"**		429,820
(35)	SL.Fla2076	DURAN glass Evaporating Flask, 20Lit., for **"Ev-1020"**		666,520
(36)	DH.Ev1005.A24	Glass Feeding Valve(40#), for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		190,280
(37)	DH.Ev1010.A02	Connection Flange Set(60#), Φ90×12mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		22,660
(38)	DH.Ev1010.A03	Flange Retaining Ring(60#), EPDM, Φ70×10mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		2,270
(39)	DH.Ev1010.A04	Flange Gasket(60#), PTFE, Φ55×12.5mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		18,130

SciLab-brand® 50 Lit Digital Rotary Evaporator, *"WiseVapor™ Ev-1050"*, Large Capacity, Vertical Type, with Electric & Manual Lift Bath with Digital Controlled Stainless-steel Bath 99℃, 20~110 rpm, 19 Lit/h, Cooling Surface 14,500 cm², 대용량 회전식 증발 농축기



Digital Rotary Evaporator, Large Capa.
"WiseVapor™ Ev-1050", 50 Lit.

- ***Cooling Surface : 14,500 cm²***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Distill of (Mixed) Solvent, Condensation Solution and Suspension, Concentrate Liquid, Re-crystallization, Dry Powder and Granulate, Synthesize Chemical, Soxhlet Extraction, Recycle Solve***
- ***Large Capacity & Diameter Rotary Evaporator Flask - 50Lit.***
- ***Teflon (PTFE) and Fluorine Rubber Dual Rotating Seal, Patented Technology to Ensure High Vacuum.***
- ***Stainless-steel Water Bath - Electric & Manual Lift, Easy to Use***

∗ The Introduction of Foreign Advanced Frequency Control System, Temperature Control System, Accurate and Reliable.
∗ A Vacuum Switching Valve, without Affecting the System Vacuum Distillation of the Situation and the Solution can be Continuously Collected.
∗ Water Bath Electric Lift and Manual Lift Support, Easy to Use.
∗ PTFE Discharge Valve, Corrosion Resistance, Pollution-free.
∗ This Rotary Evaporator could Set with Circulation Aspirator Pump (P.53)

Specifications & Ordering information

Spec. \ Model		"WiseVapor™ Ev-1050"
Evaporating Flask		**50 Lit**, Flange Opening Φ125 mm
Receiving Flask		20 Lit.
Condenser		Standing, Main & Auxiliary Cooling and Highly Efficient 3 Circulating Cold Trap
Temp. Range & Rotary Speed		0℃ ~ 99℃, 20 ~ 110 rpm
Evaporating Capability		Water : 9 Lit./h, Alcohol : 24.5 Lit./h
Cooling Surface		Main Condenser 9,500 cm² Auxiliary Condenser 5,000 cm²
Achievable Vacuum		399.9Pa(below 3mmHg)
Functional of Lifting Table & Stroke		Electric & Manual, 0 ~ 180 mm
Vacuum Sealing		PTFE and Fluorine Rubber Dual Rotating Seal
Motor		250 W, Phase DC Induction Motor
Heating Boiler		Stainless-steel Water Bath
Display		Digital display
Dimension (mm)		1345×770×h2140
Electrical Reqts.		6.3 KW, 3Phase 380V, 50Hz
Cat. No.	230V	**SL.Ev1050**
	3Phase	**SL.Ev1051**
Price, Each. ₩		15,007,000

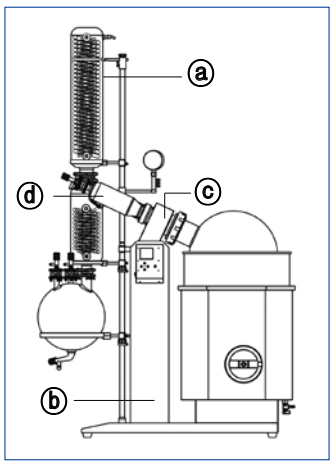
※ 운임 약 ₩ 9,000 별도!

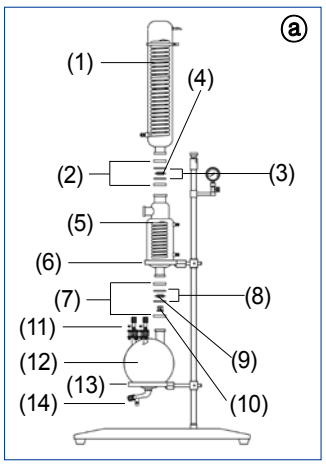
The Details of Spare Parts : Please See the Next Page

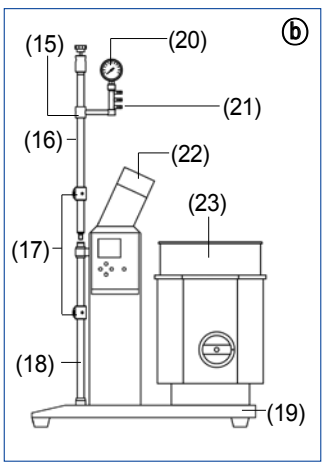
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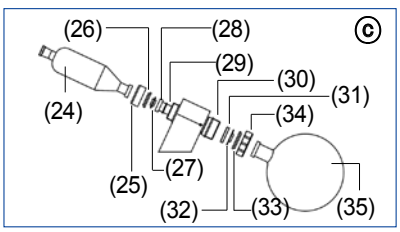
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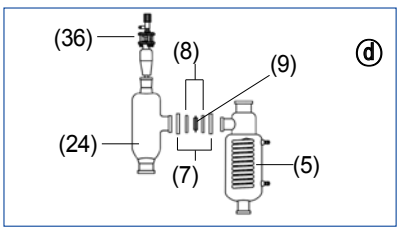
The Details of Spare Parts for 50 Lit. Digital Rotary Evaporator "WiseVapor™ Ev-1050" models











Ordering Information

Seq. No.	Cat. No.	Description	Ea.	Price, ₩
(1)	**DH.Ev1050.A01**	Glass Condenser(Main), Φ165×830mm, for **"Ev-1050"**		1,162,010
(2)	**DH.Ev1020.A02**	Connection Flange Set(80#), Aluminum, Φ110×15mm, for **"Ev-1020", "Ev-1050"**		22,660
(3)	**DH.Ev1020.A03**	Flange Retaining Ring(80#), EPDM, Φ86.5×10mm, for **"Ev-1020", "Ev-1050"**		4,540
(4)	**DH.Ev1020.A04**	Flange Gasket(80#), PTFE, Φ75×12.5mm, for **"Ev-1020", "Ev-1050"**		18,130
(5)	**DH.Ev1050.A05**	Auxiliary Glass Condenser, Φ165×585mm, for **"Ev-1050"**		872,080
(6)	**DH.Ev1050.A06**	Auxiliary Glass Condenser Tray, EPDM, Φ167mm, for **"Ev-1050"**		67,960
(7)	**DH.Ev1010.A02**	Connection Flange Set(60#), Aluminum, Φ90×12mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		22,660
(8)	**DH.Ev1010.A03**	Flange Retaining Ring(60#), EPDM, Φ70×10mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		2,270
(9)	**DH.Ev1010.A04**	Flange Gasket(60#), PTFE, Φ55×12.5mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		18,130
(10)	**DH.Ev1050.A10**	Automatic Switching Valve, Φ40×24mm, for **"Ev-1050"**		13,600
(11)	**DH.Ev1005.A10**	Glass Bleed Valve(35#), for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		144,970
(12)	**DH.GL22099**	DURAN glass Receiving Flask, 20Lit., for **"Ev-1050"**		592,510
(13)	**DH.Ev1050.A13**	Glass Receiving Flask Tray, Φ332mm, for **"Ev-1050"**		67,960
(14)	**DH.Ev1005.A12**	Discharge Valve, PTFE, Φ56×120mm, for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		45,310
(15)	**DH.Ev1050.A15**	Condenser Clamp, SUS304, 150-220, for **"Ev-1050"**		36,250
(16)	**DH.Ev1050.A16**	Stand Pole, SUS304, Φ25×1017mm, for **"Ev-1050"**		45,310
(17)	**DH.Ev1010.A17**	Stand Folder, SUS304, Φ25×Φ12mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		22,660
(18)	**DH.Ev1050.A18**	Under Stand Pole, SUS304, Φ25×1024mm, for **"Ev-1050"**		45,310
(19)	**DH.Ev1050.A19**	Stand Base, Carbon Steel, 1022×486mm, for **"Ev-1050"**		226,520
(20)	**DH.Ev1010.A20**	Vacuum Gauge, Φ100mm, for **"Ev-1010", "Ev-1020", "Ev-1050"**		54,370
(21)	**DH.Ev1050.A21**	Vacuum Gauge Holder, Copper, Φ25×Φ12mm, for **"Ev-1050"**		36,250
(22)	**DH.Ev1050.A22**	Machine Head Capsule, Aluminum, 300×100×230mm, for **"Ev-1050"**		2,038,610
(23)	**DH.Ev1050.A23**	Water Bath, SUS304, for **"Ev-1050"**		453,030
(24)	**DH.Ev1050.A24**	3-way Glass Flask, Φ100×358mm, for **"Ev-1050"**		135,910
(25)	**DH.Ev1050.A25**	Fixed Nut, for 3-way Glass Flask, Aluminum, Φ105×31mm, for **"Ev-1020", "Ev-1050"**		40,780
(26)	**DH.Ev1050.A26**	Fixed Nut Retainer Ring, PA , Φ90×11mm, for **"Ev-1050"**		4,540
(27)	**DH.Ev1050.A27**	Flange Seals, PTFE, Φ65×12.5mm, for **"Ev-1050"**		18,130
(28)	**DH.Ev1050.A28**	Rotation Glass Axis, Φ69×210mm, for **"Ev-1050"**		140,440
(29)	**DH.Ev1050.A29**	O-ring, EPDM, Φ55×3mm, for **"Ev-1020", "Ev-1050"**		4,540
(30)	**DH.Ev1050.A30**	Couplings, SUS304, Φ144×42mm, for **"Ev-1050"**		67,960
(31)	**DH.Ev1050.A31**	Main Vacuum Seal, PTFE, Φ125×10mm, for **"Ev-1020", "Ev-1050"**		235,580
(32)	**DH.Ev1050.A32**	Deputy Vacuum Seal, FTFE, Φ125×10mm, for **"Ev-1020", "Ev-1050"**		203,870
(33)	**DH.Ev1050.A33**	Retaining Ring, PA, Φ134×16mm, for **"Ev-1020", "Ev-1050"**		4,540
(34)	**DH.Ev1050.A34**	Rotating Shaft Nut, PA, Φ175×45mm, for **"Ev-1020", "Ev-1050"**		67,960
(35)	**SL.Fla2077**	DURAN glass Evaporating Flask, 50Lit., for **"Ev-1050"**		1,837,580
(36)	**DH.Ev1005.A24**	Glass Feeding Valve(40#), for **"Ev-1005", "Ev-1010", "Ev-1020", "Ev-1050"**		190,280

SciLab-brand® Chiller, −20℃+40℃ Heavy-duty External Cooling Circulator, *"WiseCircu® Chi"*, Flow 20-/30-Lit/min

Ideal for 1~50Lit Evaporators, Cooling Line, etc. Lift 8-/27-m, Cooling Capa 0.87-/1.3-/3.0-kW, **다용도 냉각 써큐레타/칠러** NEW



Chiller, −20℃+40℃
Heavy-duty Refrigerated External Circulator
"WiseCircu® Chi-30"



Assembly-type Safety Connection Ports/Pipe for Fluid In/Out-let ;
ISO RC 1/2" Thread, Located On Rear-Upper Pannel

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Wide-range Reaction System and Evaporator.*** ■ ***Max. Lift 8-/27-m***
- ***Assembly-type Safety Connection Ports/Pipe for Fluid In/Out-let : ISO RC 1/2" Thread, Stainless-steel.***
- ***Digital PID Control System Implementing Superior Temperature Accuracy.***
- ***Embedded External Nozzle Part for the Prevention of Nozzle Damaged.***
- ***Stainless-steel Internal Bath for Prevention of Corrosion.***

∗ Wide-range Filling Volume 17Lit. / 29Lit. / 47Lit. ∗ Effective Cooling Capacity
∗ Useful for 1~50Lit. Various Reactors and Evaporators. ∗ Emergency Stop Button for safety.
∗ High Quality Circulation Pump : 20-/30-Lit/min Max Flow Rate and 1.0-/3.3-bar Max. Pressure.
∗ Built in Pump Pressure Gauge and Compressor Pressure Gauge.

Specifications & Ordering information

Spec. \ Model		"WiseCircu® Chi-20"	"WiseCircu® Chi-30"	"WiseCircu® Chi-50"
Temp. Range & Stability		−20℃~ +40℃-Range, ±0.2℃(at 15℃)-Stability		
Cool-Fluid. Filling Volume		17 Lit. max	29 Lit. max	47 Lit. max
Useful for 1~50Lit Evaporators, etc.		for 1~20Lit Evaporator	for 10~30Lit Evaporator	for 20~50Lit Evaporator
Refrigerator Capacity(HP)		1/2 HP	1 HP	2 HP
Lid & Top Opening Dia.		Φ100 mm		
Fluid In/Out-let Connector		ISO RC 1/2" (English System AG 1/2") Thread, Stainless-steel		
Pump Power, Lift Height, m	Max. Flow Rate	20 Lit/min	30 Lit/min	
	Max. Pressure & Lift	1.0 bar Max. Lift : 8m	3.3 bar Max. Lift : 27m	
Cooling Capacity	at +20℃	1.7 kW	2.8 kW	6.5 kW
	at 0℃	0.87 kW	1.3 kW	3.0 kW
	at −20℃	0.32 kW	0.45 kW	1.2 kW
External Dimension		450×630×h650 mm	550×830×h975 mm	605×975×h1265 mm
Material		Stainless steel-Internal, Powder Coated steel-External		
Electrical Reqts.		1 Phase 230V, 50 / 60 Hz or 3Phase 380V		
Cat. No.	230V	SL.Chi0020	SL.Chi0030	-
	3 Phase	-	-	SL.Chi0050
Price, Each. ₩		4,713,000	6,783,000	8,507,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

▶ Therminol D12® Cooling / Heating Transfer Fluid, Clear / Harmless
▶ Insulated External Circulating Tubing

※ See the Page of Baths, High Temp Bath Circulator Acce.



▶ Figure : One of the Applications in the Large Volume Evaporator Line.

SciLab-brand® Multiuse Water Circulating Vacuum Pump/Aspirator, 0.098MPa/20mbar

Ideal for Evaporators 1~50-Lit, etc. with Multi-Taps/Safety Valve, Bath 15 & 57-Lit, **다용도 아스피레타, 워터순환식 진공펌프**



2-Year Warranty

(1) "PuSHB-3S" ideal for 1~5Lit. Evaporators

- ***Resist Corrosion by Acid, Alkali and Solvents.***
- ***Cyclically use Water, Save the Precious Water Resources.***
- ***Good for Evaporation, Distillation, Crystallization, Drying, Sublimation, Filtration, etc.***
- ***Fluorine Rubber Sealing, the inner of which can't be Intruded by Corrosive Gas.***
- ***Need to Replace the Water in the Flume Regularly to ensure the Purity of Water Quality, the Vacuum Degree and to Avoid Dirt Stains.***

(1) For 1~5Lit Evaporator, 180W-Pump Power "PuSHB-3S"

* Save more than 35% of Electricity than Other type of Vacuum Pump.
* Double-tap, Double-display, can be used alone or in Parallel.
* The Fluid Muffler Purposemade can Reduce the Gas in Water and make the Vacuum Degree Higher and more Stable Reduce the Friction between Gas and Fluid, Reduce the Noise.

(2) For 5~50Lit Evaporator, 550W-Pump Power "PuSHB-B95"

* Compared with the Desk-top type Pump, the Bleed Air Flow is more, which Applies to the Vacuum demand with Large Bleed Air Flow
* Stainless-steel(#304) Body, Copper Ejector, Tee Junction, PP Back Valve, Stainless-steel Impeller
* Five-taps can be used alone or in Parallel. The Bleed Air Flow is Large with Five-way Pipe in Parallel, which can meet the Demand of Large Scale Rotary Evaporator or Reaction Kettle.



2-Year Warranty

(2) "PuSHB-B95" ideal for 5~50Lit. Evaporators

Specifications & Ordering information

Spec. \ Model	(1) "PuSHB-3S"	(2) "PuSHB-B95"
Max. Vacuum Degree	0.098 MPa (20mbar)	
Pump Power(Capacity)	180 W	550 W
Water Bath Volume(Lit.)	15 Lit.	57 Lit.
Useful for Evaporator Capacity	for 1~5 Lit.	for 5~50 Lit.
Flow Rate	80 Lit/min	100 Lit/min
Taps & Air Sucking Amount	2Taps, 10 Lit/min(1Tap)	5Taps, 10 Lit/min(1Tap)
External Circulation Nozzle	id. 5 / od. 10mm (id. 8 / od.11 mm Silicon tube Connected for Circulation)	
Safety Function	Safety Check Valve	
Drain Pipe	Drain Pipe(id. 15mm)	Drain Pipe(id. 24.3mm)
Material of Water Tank / Body	PP / PP	PE / Stainless-steel(#304)
Dimension & Net Weight	385×280×h420 mm / 11 kg	450×350×h820 mm / 36 kg
Electric Reqts.	230V, 50/60Hz	
Cat. No.	SL.PuSHB003S	SL.PuSHB.B95
Price, Each. ₩	637,000	908,000

SciLab-brand® −35℃~+150℃ Digital Precise Refrigerated/Heating Bath Circulator, *"WiseCircu® SCL"*, ±0.2℃

with 1×Flat Lid/Digital Fuzzy Control/CFC-free/Certi. & Traceability, Flow 25Lit/min, Lift 4m, 8-/12-/22-/30-Lit. NEW

Ideal for Evaporators, etc., with External/Internal Circulating Connect - od.12/id.10mm, **정밀 냉동/가열 배스 겸용 써큐래타**



−35℃~+150℃ Refrigerated / Heating Bath Circulators

- ***Made in Korea***
- ***PL (Product Liability) Insurance***

Specifications & Ordering information

Spec. \ Model		WiseCircu® SCL-8	WiseCircu® SCL-12	WiseCircu® SCL-22	WiseCircu® SCL-30
Temp. Range & Accuracy		−35℃~+150℃, ±0.1℃			
Temp. Resolution		0.1℃−Display, 0.1℃-Control			
Temp. Uniformity & Probe		±0.2℃ at −20℃, PT100			
Pump		Max Flow Rate : 25Lit./min(Controlled 5 Steps Flow Rate Speed), Max Pressure : 7.5 psi, Max Lift : 4m			
Bath Volume		8 Lit.	12 Lit.	22 Lit.	30 Lit.
Cat. No.	230V	SL.SCL00408	SL.SCL00412	SL.SCL00422	SL.SCL00430
	120V	SL.SCL00508	SL.SCL00512	SL.SCL00522	SL.SCL00530
Price, Each. ₩		2,232,000	2,354,000	2,584,000	2,981,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 16,000 별도!

※ Details : See the Baths-section of Refrigerated Circulators

SciLab®

Freeze Dry System
"WiseDry™ FD-8"

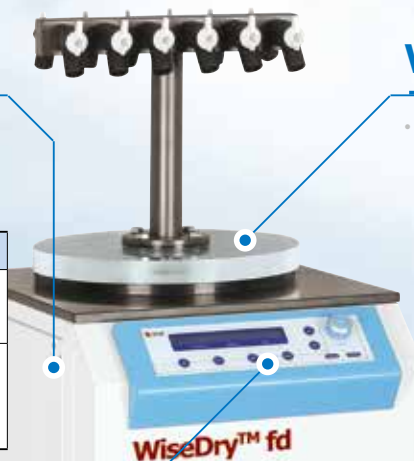
Lab Scale Bench-top
Freeze Dryer NEW

- Patented Jog-Dial & Touch-Button Control
- Compact-size Lab Scale Bench-top Type
- Fastest Freezing Time

Ergonomic & Compact Body

- Lab Scale, Bench-top Type Model
- Compact size for all laboratory table
- Ergonomic Design

Company	**SciLab**	Competitor
Chamber Capacity	8 Lit.	8 Lit.
External Dimension (mm)	**w400xd530xh415**	w500xd646xh976



Various Installing Accessories

- Used with 12-port Manifold or 8-port Dry Chamber, Various Size Flasks, Flask Top, Vacuum Valve, Vacuum Pumps, Table Cart etc.



12-port T-type Manifold



8-port Acrylic Dry Chamber

Fastest Freezing System

- SciLab Freezing System realizes Quick Freezing and Quick Defrosting Function





Freezing System

Intuitive User Interface

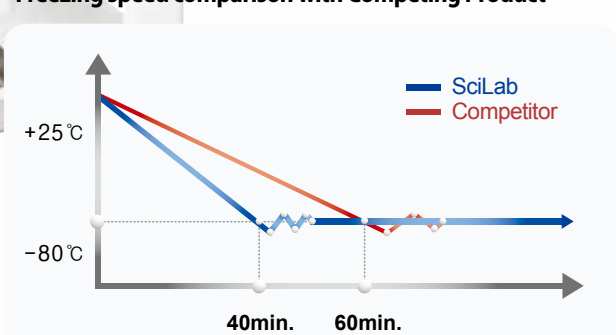
- Patented Jog-Dial Controller(Turn and Push)
- Capacitive Touch Button for user convenience
- Precise control by microprocessor
- Digital Back-Light LCD



Others

- High Sublimation Rate : 3Lit/24hr
- Manual Defrost Function : Hot Gas Defrost Function for quick next cycle turn-around
- Automatic or Manual Process Control
- Controllable temperature, vacuum and timer at Automatic Mode
- LED Indication Light On in case of suitable temperature and vacuum
- Can be Used with Various Accessories

Freezing speed comparison with Competing Product



Articles	Cat. No	Description

SciLab-brand® Freeze Dry System, Lab Scale Benchtop-type, *"WiseDry™ FD-8"*, 8 Lit, 3Lit/24hr, Cold Trap Max. −90℃ with Automatic & Manual Process, Used with 12-port T-type Manifold or 8-port Acrylic Drying Chamber, 실험실용 동결 건조기 NEW



"WiseDry™ FD-8" Freeze Dry System, with Optional 12-port T-type Manifold and 12ea Vacuum Handle Valves

- ***Made in Korea*** ■ ***Patented Jog-Dial & Touch Button Control System***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*** ■ ***PL (Product Liability) Insurance***
- ***Ideal for Wide Rang from Pharmaceutics, Biology, Food Industry to Petro-Chemistry and Semiconductor Industry, etc.***

* Ergonomic Design and Compact Body Size for All Laboratory Tables
* Allows Automatic or Manual Process Control
* LCD Indicates Temperature and Vacuum
* Rapid Integrated Hot Gas Defrost Function for Quick Next Cycle Turn-around
* LED Indication Light On in Case of Suitable Temperature and Vacuum
* Can be Controlled Temperature and Timer at Automatic Mode
* Homogeneous Temperature Distribution across all Shelves in Dry Chamber

Specifications & Ordering information

Spec. \ Model	"WiseDry™ FD-8"
Chamber & Max Condenser Capa.	Chamber : 8 Lit., Max Condenser : 10 Lit.
Sublimation Rate(Lit/day)	3 Lit/day
Max. Temperature	Cold Trap : -90℃, Condenser : -40℃
Set Temperature Range	-60℃ ~ -90℃
Compressor & Defrost-type	Compressor : 1/2 HP, Defrost-type : Manual
Controller	Digital Fuzzy Control with Jog-Dial(Turn & Push) & Touch Button
Display	Digital LCD with Back-Light Function
Material	Stainless-steel(SUS304)
Dimension(mm) & Weight	Exterior : w400×d530×h415, Condenser : Φ300×h150mm, Net Weight : 55 kg
	Packing Dimension : w560×d760×h675, Gross Weight : 60kg
Electrical Reqts.	1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No. 230V	**SL.Frd00208**
Cat. No. 120V	**SL.Frd00108**
Price, Each. ₩	9,809,000

*** Other Specifications are available upon Customer's Request.**

Optional Accessories for Freeze Dryer


(1) 12-port T-type Manifold


(2) 8-port Acrylic Dry Chamber


(3) 3-stage Shelf, Stainless-steel


(4) Vacuum Handle Valve



Tube Adapters for Connecting Flask Top


(8) Flask Top, Silicone


(9) Glass Flasks


(10) Vacuum Pump


(11) 2-stage Table Cart

※ **Note! Details of Vacuum Pumps : See the "Pump" Section**

Optional 12-port T-type Manifold / 8-port Acrylic Dry Chamber / 3-stage Shelf

		Ea. Price, ₩
DH.Frd01034	(1) T-type Manifold, 12-port, for Connecting 3/4″ Vacuum Handle Valve, with Silicon Stopper	1,400,000
DH.Frd02010	(2) Acrylic Dry Chamber, 8-port, for Connecting 3/4″ Vacuum Handle Valve, with Silicon Stopper	2,172,000
DH.Frd02020	(3) 3-stage Shelf, Stainless-steel(STS), for Acrylic Dry Chamber	391,000

Optional Vacuum Handle Valve-/Tube Adapters-for Connecting Flask

		Ea. Price, ₩
DH.Frd03010	(4) 3/4″ Vacuum Handle Valve, Neoprene Rubber & PP, for Connecting Flask	14,000
DH.GL28091	(5) 3/4″ Glass Tube Adapter, Φ19/1.8t×L80mm for Connecting Middle & Large-size Flask Top	6,500
DH.GL28092	(6) 3/4″ Glass Bend-type Tube Adapter, Φ19/1.8t×L80mm, for Connecting Middle & Large-size Flask Top	7,300
DH.Frd04010	(7) 3/4″ PP Tube Adapter, Φ19/1.8t×L80mm, for Connecting Small-size Flask Top	3,000

Optional DURAN® Borosilicate α 3.3 Glass Flasks / Silicone Flask Top

		Ea. Price, ₩
DH.Frd05010	(8) Flask Top, Silicone, 3/4″ Small-size Flask Top, for 40-/80-ml Flask	5,000
DH.Frd05020	, 3/4″ Middle-size Flask Top, for 200-/300-ml Flask	9,000
DH.Frd05030	, 3/4″ Large-size Flask Top, for 500-/700-/1000-ml Flask	15,000
DH.GL12041	(9) Glass Flask, DURAN® Glass α 3.3, 40ml, Φ40/2.3t×h80mm	28,400
DH.GL12042	, 80ml, Φ40/2.3t×h120mm	34,200
DH.GL12043	, 200ml, Φ65/2.2t×h100mm	40,200
DH.GL12044	, 300ml, Φ65/2.2t×h140mm	46,200
DH.GL12045	, 500ml, Φ90/2.5t×h125mm	53,800
DH.GL12046	, 700ml, Φ90/2.5t×h165mm	62,500
DH.GL12047	, 1000ml, Φ90/2.5t×h225mm	76,300

Optional Vacuum Pumps / 2-stage Table Cart for Vacuum Pump

		Ea. Price, ₩
V3.VOP100	(10) Vacuum Pump, **"VOP-100"**, 100/120Lit./min, 50/60Hz, 220V	1,473,780
V3.VOP150	, **"VOP-150"**, 150/180Lit./min, 50/60Hz, 220V	1,727,880
DH.Frd06025	NW25 Vacuum Pump Connection-set, Tube / O-ring / Clamp	140,000
DH.Frd06016	NW16 Vacuum Pump Connection-set, Tube / O-ring / Clamp / Adapter	242,000
DH.Ca1002	(11) 2-stage Table Cart for Freeze Dryer & Vacuum Pump, with Stop-on Caster and Vacuum Pump Oil Tray, w504×d604×h780mm	262,000

SciLab Korea

Fume Hood

Ductless - Clean Bench, Filtered PCR Cabinet ····· P. 57~58
Ducted - Premium Fume Hood ····· P. 59
- PVC Fume Hood, Ideal for Acid ····· P. 60
- PVC Wet Scrubber Fume Hood, Ideal for Acid ··· P. 61



Ductless Clean Bench, Laminar Flow
"WiscInBench™ SLCV-12"



Ducted Premium Fume Hood
"SHD-1500G"



Ducted PVC Fume Hood
"SHD-1500", Ideal for Acid



Ducted PVC Wet Scrubber Fume Hood
"SHD-1500S", Ideal for Acid

Clean Bench-Ductless

Maximum Convenience by Advanced Digital Technology

SciLab NEW Generation
Fume Hoods, Laminar Flow Clean Bench

Innovative Upgrade WiscInBench™



The newly developed Laminar Flow Clean Bench from SciLab Scientific provides reliable protection for samples and work processes against particulate contamination. The air from above the cabinet vertically goes through a **Pre-filter and a Class 100 HEPA Filter** of efficiency up to 99.97% & 0.3 micron size and is exhausted to the front opening for maintenance of Contamination-Free in the cabinet. Also **UV Lamp** installed in the cabinet contributes to sterilize a source of contamination.

The Controller, fully optimized for convenience in the practical use of Clean Bench, offers intuitive monitoring and easy controlling of UV Lamp, Fluorescent light, Filter Fan and air flow speed.

Added to the Unique User Convenient features of SciLab, Laminar Flow & Cleanliness, the core performance of Laminar Flow Clean Bench is innovated to be a new Design. Experiencing the **Max Convenience** and Cleanliness, **WiscInbench™** Clean Bench is necessary to have but no more.

» Key Features

- All New Design with the consideration of Safety, Convenience and Functionality
- Class 100 HEPA Filter with Pre-filter & Vertical Air Flow : Efficiency up to 99.97% Filtration for 0.3 micron sized particle
- Easy to change HEPA filter design, even without servicing.
- Tempered Glass with Sash Door & Double Door Closing Detection : Perfect Safety against UV (Automatic turn-off of UV lamp when door opens)
- 8 Step Control of Air Flow Speed and Timer function
- 2 × Internal Electrical Outlet, 2 × Valve for External Gas Connection, Fluorescent Lamp



» Class 100 HEPA Filter

Efficiency up to 99.97% filtration for 0.3 micron sized particle.
Easy to change HEPA filter design, even without servicing.



» UV Lamp

Built-in UV Lamp Contributes to sterilize a source of contamination in the cabinet.
Automatic turn-off of Fluorescent lamps while UV lamps on: Prevention from an accident (damage on samples or a burn) by performing experiment while UV lamps on.

» Convenience to operate

2 × Internal Electrical Outlet for other electrical devices connection (220 Voltage)
2 × Valve for External Gas Connection.



» Capacitive Touch-Button Controller

Intuitive Touch-Button Controller for user convenience.
Precise Control by Microprocessor and 8 Step Control of Air Flow Speed by simple Touch. Timer for UV Lamp operation.

» Various Product Size

Various Sized Laminar Flow Clean Bench : 1200-/1500-/1800mm

SciLab-brand® Vertical Clean Bench / Filtered PCR Cabinet, *"WisclnBench™ SLCV"*, Class 100 HEPA filter NEW

with 8 Steps Air Velocity Control, Touch-type Controller, Dual UV Lamp and Florescent Lamp, Air and Gas Cock, Built-in Electrical Outlet

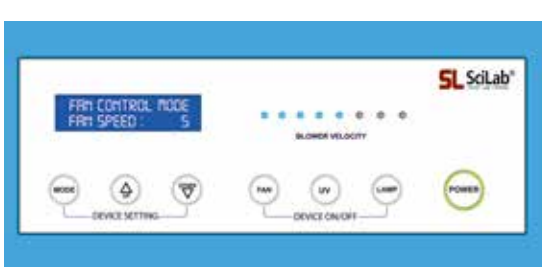
크린벤치 & PCR케비닛, 수직 기류형, 터치식 컨트롤러, 8 단계 풍속 조절, UV 프로텍션 시스템



Vertical Clean Bench and Filtered PCR Cabinet "WisclnBench™ SLCV-12"



Vertical Air Flow of *"WisclBench™ SLCV model"*



High-performance Digital Touch-type Controller, Easy to Use

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Class 100 HEPA Filter of efficiency up to 99.97% & 0.3 micron size***
- ***Mesh Guard for HEPA Filter Protection***
- ***Easy to Exchange HEPA Filter*** ■ ***8 Steps Air Velocity Control***
- ***Safety UV Protection System : UV Lamp is only activated once safety Glass Door is Completely closed***
- ***High performance of Touch Controller-Easy to use***
- ***Microprocessor Digital Controller and Back Light LCD***
- ***UV and Fluorescent Lamp, External Gas Connection Valve, Internal Electrical outlet***

∗ High-Quality Back-Light LCD ∗ 99hr 59min Timer
∗ Silence and Vibration-Free Blower
∗ Tempered Safety Glass Sliding Door for Protection from Against UV
∗ Optimized Air Flow System for Uniform Air Flow/Velocity
∗ Corrosion Resistant 304 Stainless-steel Working table
∗ Air Flow-type : Vertical Air Flow-type

Specifications & Ordering information

Spec. \ Model		WisclnBench™ SLCV-12	WisclnBench™ SLCV-15	WisclnBench™ SLCV-18
Air Flow-type		Vertical Air Flow-type		
Dimension (w×d×h)	Interior	1,200×660×610	1,500×660×610	1,800×660×610
	Exterior	1,280×735×1,895	1,580×735×1,895	1,880×735×1,895
Air Volume		1,350 m²/h	1,700 m²/h	2,020 m²/h
Air Flow Velocity		8 Steps, 0.3 ~ 0.6 m/s		
HEPA Filter		Class 100, 0.3㎛ Particle Removal 99.97%		
Prefilter		3~30㎛ Particle Removal		
Display		Back Light LCD		
Controller		Microprocessor Digital Controller with Touch UI		
Lamp		1×UV 20W, 1×FL 36W	1×UV 30W, 1×FL 55W	
Noise Level		Under 65dBA		
Door Type		Tempered Safety Glass Sliding Door		
Utility Device		1×Air Cock, 1×Gas Cock, 2×220V Outlet		
Material		Internal : Stainless-steel(# 304), External : Powder Coated steel		
Electric Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Cat. No.	230V	SL.SLCV1200	SL.SLCV1500	SL.SLCV1800
	120V	SL.SLCV1201	SL.SLCV1501	SL.SLCV1801
Price, Each. ₩		4,297,000	4,527,000	4,683,000

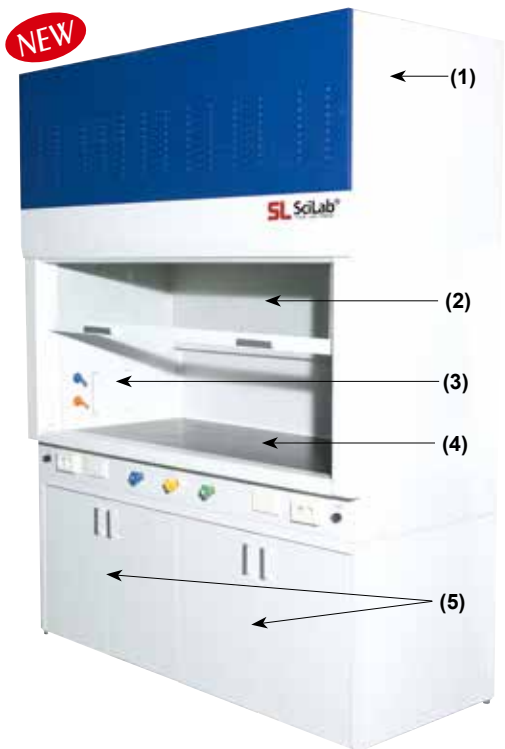
∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 95,000 별도!

SciLab-brand® Premium Ducted Fume Hood, (A) Bypass or (B) Air Curtain-Type, 1200-/1500-/1800-/2400-mm NEW

with Phenol Work Top, Penol Plate Interior, Air-/Gas-/Water-Cock, Cup Sink, Drain, and Explosion Proof Lamp

닥트형 흄후드, Phenol 재질의 작업대, 우수한 내습/내구성, 일반 배기형 or 에어커튼형의 선택성



Premium Ducted Fume Hood "SHD-1500G"

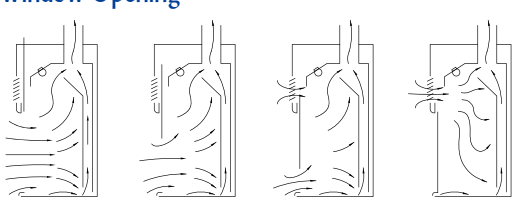
- ***Durable, Hazardous Chemical Gas Remove.***
- ***Slide Type Sash Door with Tempered Safety Glass.***
- ***Sash-type Tempered Safety Glass Window.***
- General Chemical Gas Hood with High Thermal, Chemical Resistance, Various Material for User selection.
- With Air-/Gas-/Water-Cock, Cup Sink, Drain, Explosion Proof Lamp, Receptacle, Multi-purpose Cabinet.
- **By Pass Air Flow-type :** After the Suction Forcing the Indoor Air to Discharge the Gas to the Outside
- **Air Curtain Air Flow-type :** The Outdoor Air Sucked Form the Air Curtain to the Front Chamber, and the Exhaust Gas Back to Suction the Air
- Discharging the Polluted Air and Toxic Gas Generated during the Experiment in a Laboratory to the Outside through the Duct Structure
- Process Pipe & Duct Silicon Sealing to Completely Block the Gas Leakage to the Outside
- The Mechanical Design is Manufactured with Superior Workability

Specification

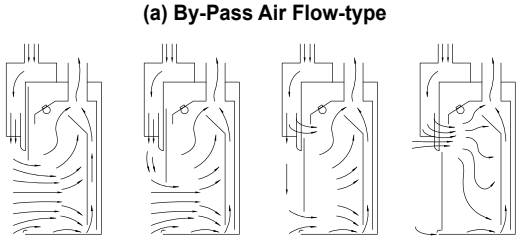
Models & Air Flow-type	**"SHD-1200G"**	**"SHD-1500G"**	**"SHD-1800G"**	**"SHD-2400G"**
	(A) By-Pass Air Flow-type			
	"SHD-C1200G"	**"SHD-C1500G"**	**"SHD-C1800G"**	**"SHD-C2400G"**
	(B) Air Curtain Air Flow-type			
Duct Size	Φ 200mm / Φ 250mm /Φ 300mm			
Material*	**(3)** Internal : Penol Plate, **(1)** External : Powder Coated Steel, **(4)** Work Top : Penol Plate			
Sash Frame & Window	PVC Sheet Frame, (2) Tempered Safety Glass Sash Window			
Cabinet	**(5)** Built in Multi-purpose Cabinet			
Lamp	LED Lamp(1ea×20 W)			
Cock	1ea×Air-/Gas-/Water-Cock			
Receptacle	2ea 220V Concent and 2ea 110V Concent			
Dimension (w×d×h) (mm)	1200×800×2350	1500×800×2350	1800×800×2350	2400×800×2350
Power Supply *	1 Phase, AC 220V / 60Hz			

*** Other Specifications are available upon Customer's Request.**

Diagram of Air Flow Depending on the Safety Window Opening



(a) By-Pass Air Flow-type



(b) Air Curtain Air Flow-type

Welcome! Custom-Made Fume Hoods!!

We can Offer SciLab Custom Fume Hood, for which you can Specify the Specification

Selectable Material of Custom-Made Fume Hood

	Material			
Exterior	Steel	Stainless	P.P	
Interior	Penol	Stainless	P.E	
Work Top	Penol	Stainless	P.E	Granite

Ordering Information

(A) By-Pass Air Flow-type Ducted Fume Hood

		Ea. Price, ₩
SL.SHD02312	Fume Hood, **230V,** 1200×800×h2350mm, **"SHD-1200G"**	2,613,600
SL.SHD02315	, 1500×800×h2350mm, **"SHD-1500G"**	2,758,800
SL.SHD02318	, 1800×800×h2350mm, **"SHD-1800G"**	2,904,000
SL.SHD02324	, 2400×800×h2350mm, **"SHD-2400G"**	3,194,400
SL.SHD01312	Fume Hood, **120V,** 1200×800×h2350mm, **"SHD-1200G"**	2,613,600
SL.SHD01315	, 1500×800×h2350mm, **"SHD-1500G"**	2,758,800
SL.SHD01318	, 1800×800×h2350mm, **"SHD-1800G"**	2,904,000
SL.SHD01324	, 2400×800×h2350mm, **"SHD-2400G"**	3,194,400

(B) Air Curtain Air Flow-type Ducted Fume Hood

		Ea. Price, ₩
SL.SHD02412	Fume Hood, **230V,** 1200×800×h2350mm, **"SHD-C1200G"**	2,904,000
SL.SHD02415	, 1500×800×h2350mm, **"SHD-C1500G"**	3,049,200
SL.SHD02418	, 1800×800×h2350mm, **"SHD-C1800G"**	3,194,400
SL.SHD02424	, 2400×800×h2350mm, **"SHD-C2400G"**	3,484,800
SL.SHD01412	Fume Hood, **120V,** 1200×800×h2350mm, **"SHD-C1200G"**	2,904,000
SL.SHD01415	, 1500×800×h2350mm, **"SHD-C1500G"**	3,049,200
SL.SHD01418	, 1800×800×h2350mm, **"SHD-C1800G"**	3,194,400
SL.SHD01424	, 2400×800×h2350mm, **"SHD-C2400G"**	3,484,800

Optional Blowers

		Ea. Price, ₩
SL.SHD10020	Integrated Blower, **"SHDBL0020"**	On Request
SL.SHD10021	External Blower, **"SHDBL0021"**	On Request

※ Custom-Made Fume Hood : Wide Variety of Material for User Selection.

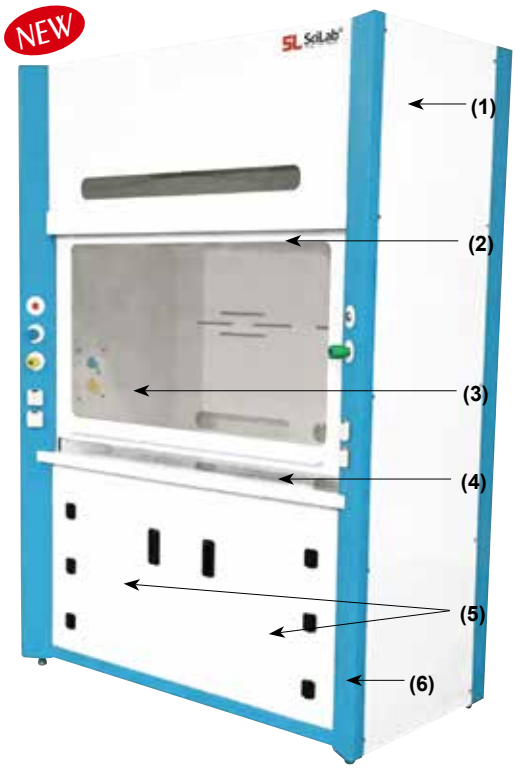
※ Note! Freight and Installation Charges Separately.

Articles	Cat. No	Description

SciLab-brand® All PVC Ducted Fume Hood for Acid / Chemical Resistance, 1200-/1500-/1800-/2400-mm NEW

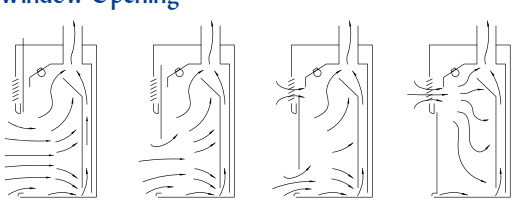
(A) Bypass or (B) Air Curtain-Type, with Air-/Gas-/Water-Cock, Cup Sink, Drain, and Explosion Proof Lamp

내산 / 내약품용 PVC 닥트형 흄후드, PVC 재질의 외부/내부/작업대, 일반 배기형 or 에어커튼형의 선택성

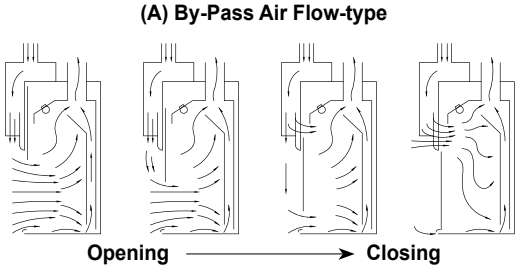


Ducted PVC Fume Hood "SHD-1500"

Diagram of Air Flow Depending on the Safety Window Opening



(A) By-Pass Air Flow-type



(B) Air Curtain Air Flow-type

Welcome! Custom-Made Fume Hoods!!

We can Offer SciLab Custom Fume Hood, for which you can Specify the Specification

Selectable Material of Custom-Made Fume Hood

	Material			
Exterior	PVC	P.P	ABS	
Interior	PVC	P.P	P.E	ABS
Work Top	PVC	P.P	P.E	ABS

■ Durable, Hazardous Chemical Gas Remove.

■ All PVC(PolyVinyl Chloride) Material for Excellent Resistance of Acid / Chemicals

* General Chemical Gas Hood with High Thermal, Chemical Resistance, Various Material for User selection.
* With Air-/Gas-/Water-Cock, Cup Sink, Drain, Explosion Proof Lamp, Receptacle, Multi-purpose Cabinet.
* Acid resistance, alkali resistance Excellent
* **By Pass Air Flow-type :** After the Suction Forcing the Indoor Air to Discharge the Gas to the Outside
* **Air Curtain Air Flow-type :** The Outdoor Air Sucked Form the Air Curtain to the Front Chamber, and the Exhaust Gas Back to Suction the Air
* Discharging the Polluted Air and Toxic Gas Generated during the Experiment in a Laboratory to the Outside through the Duct Structure
* Process Pipe & Duct Silicon Sealing to Completely Block the Gas Leakage to the Outside
* The Mechanical Design is Manufactured with Superior Workability

Specification

Models & Air Flow-type	"SHD-1200"	"SHD-1500"	"SHD-1800"	"SHD-2400"
	(A) By-Pass Air Flow-type			
	"SHD-C1200"	"SHD-C1500"	"SHD-C1800"	"SHD-C2400"
	(B) Air Curtain Air Flow-type			
Duct Size	Φ 200mm / Φ 250mm /Φ 300mm			
Material*	**(3)** Internal : PVC, **(1)** External : PVC, **(4)** Work Top : PVC, **(6)** Column : PVC			
Sash Frame & Window	PVC Sheet Frame, **(2)** Clear PVC			
Cabinet	**(5)** Built in Multi-purpose Cabinet			
Lamp	LED Lamp(1ea×35 W)			
Cock	1ea×Air-/Gas-/Water-Cock			
Receptacle	2ea 220V Concent and 2ea 110V Concent			
Dimension (w×d×h) (mm)	1200×800×2200	1500×800×2200	1800×800×2200	2400×800×2200
Power Supply *	1 Phase, AC 220V / 60Hz			

*** Other Specifications are available upon Customer's Request.**

Ordering Information

(A) By-Pass Air Flow-type Ducted PVC Fume Hood

		Ea. Price, ₩
SL.SHD02112	Fume Hood, **230V,** 1200×800×h2200mm, **"SHD-1200"**	4,501,200
SL.SHD02115	, 1500×800×h2200mm, **"SHD-1500"**	4,791,600
SL.SHD02118	, 1800×800×h2200mm, **"SHD-1800"**	5,082,000
SL.SHD02124	, 2400×800×h2200mm, **"SHD-2400"**	6,534,000
SL.SHD01112	Fume Hood, **120V,** 1200×800×h2200mm, **"SHD-1200"**	4,501,200
SL.SHD01115	, 1500×800×h2200mm, **"SHD-1500"**	4,791,600
SL.SHD01118	, 1800×800×h2200mm, **"SHD-1800"**	5,082,000
SL.SHD01124	, 2400×800×h2200mm, **"SHD-2400"**	6,534,000

(B) Air Curtain Air Flow-type Ducted PVC Fume Hood

		Ea. Price, ₩
SL.SHD02212	Fume Hood, **230V,** 1200×800×h2200mm, **"SHD-C1200"**	5,082,000
SL.SHD02215	, 1500×800×h2200mm, **"SHD-C1500"**	5,372,400
SL.SHD02218	, 1800×800×h2200mm, **"SHD-C1800"**	5,662,800
SL.SHD02224	, 2400×800×h2200mm, **"SHD-C2400"**	7,114,800
SL.SHD01212	Fume Hood, **120V,** 1200×800×h2200mm, **"SHD-C1200"**	5,082,000
SL.SHD01215	, 1500×800×h2200mm, **"SHD-C1500"**	5,372,400
SL.SHD01218	, 1800×800×h2200mm, **"SHD-C1800"**	5,662,800
SL.SHD01224	, 2400×800×h2200mm, **"SHD-C2400"**	7,114,800

Optional Blowers

		Ea. Price, ₩
SL.SHD10010	Integrated Blower, **"SHDBL0010"**	On Request
SL.SHD10011	External Blower, **"SHDBL0011"**	On Request

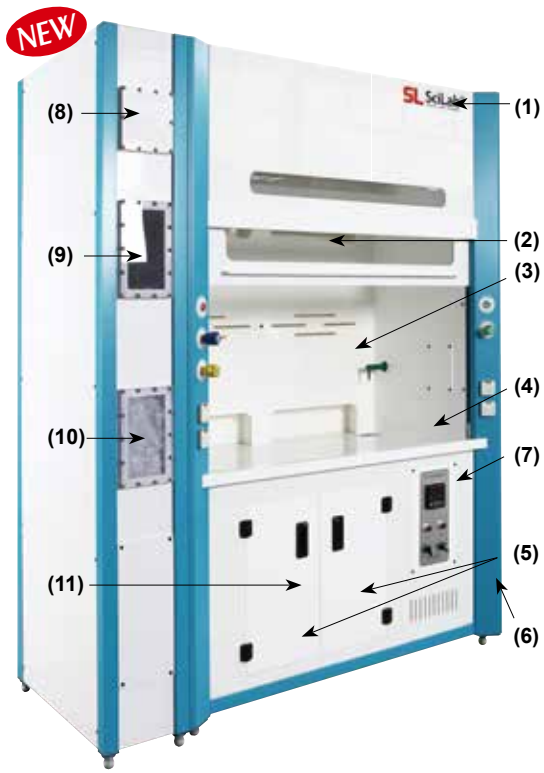
※ Custom-Made Fume Hood : Wide Variety of Material for User Selection.

※ Note! Freight and Installation Charges Separately.

SciLab-brand® All PVC Wet Scrubber Ducted Fume Hood for Acid/Chemical Resistance, 1500-/1800-/2100-/2400-mm

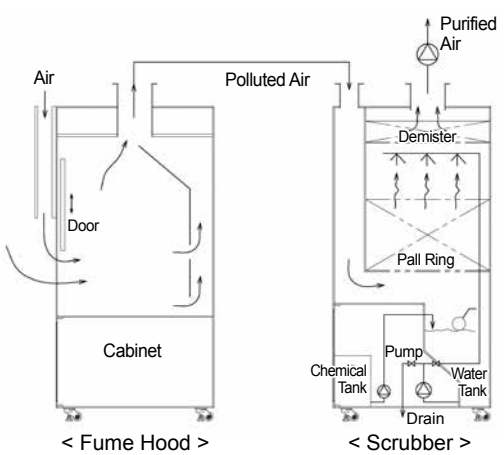
(A) Bypass or (B) Air Curtain-Type, Circulation Pump, PP Pall Ring Filter, Demister, Air-/Gas-/Water-Cock, Cup Sink, and Drain NEW

내산 / 내약품용 PVC 닥트형 스크러버 흄후드, PVC 재질의 외부/내부/작업대, 내화학성, 대기오염방지형



Ducted PVC Wet Scrubber Hood "SHD-1500S"

Diagram of Air Flow Depending on the Safety Window Opening



Ducted PVC Wet Scrubber Hood - Air Flow

Welcome! Custom-Made Fume Hoods!!

We can Offer SciLab Custom Fume Hood, for which you can Specify the Specification

Selectable Material of Custom-Made Fume Hood

	Material			
Exterior	PVC	P.P	ABS	
Interior	PVC	P.P	P.E	ABS
Work Top	PVC	P.P	P.E	ABS

■ Made in Korea ■ Durable, Hazardous Chemical Gas Remove.

■ All PVC(PolyVinyl Chloride) Material for Excellent Resistance of Acid / Chemicals

* General Chemical Gas Hood with High Thermal, Chemical Resistance, Various Material for User selection.
* with Air-/Gas-/Water-Cock, Cup Sink, Drain, Explosion Proof Lamp, Receptacle, Multi-purpose Cabinet.
* Built-in Wet Scrubber : with Circulation Pump, Water Level Gauge, Water Storage Tank, PP Pall-ring Filter, Demister, Water Spray Nozzle, pH Indicator/Control Panel
* **By Pass Air Flow-type :** After the Suction Forcing the Indoor Air to Discharge the Gas to the Outside
* **Air Curtain Air Flow-type :** The Outdoor Air Sucked Form the Air Curtain to the Front Chamber, and the Exhaust Gas Back to Suction the Air
* Moving the Experiment Polluted Air and Toxic Gases Generated in the Laboratory of the Scrubber through Duct Structure, and only the Purified Air Discharged to the Atmosphere after the Contaminants have been Removed
* An Acidified Water drained to Neutralize
* Required Equipment for Air Pollution Prevention
* Through a pH Meter Display can Check the Current pH Level of the Water Storage Tank
* Process Pipe & Duct Silicon Sealing to Completely Block the Gas Leakage to the Outside
* The Mechanical Design is Manufactured with Superior Workability

Specification

Models & Air Flow-type	**"SHD-1500S"**	**"SHD-1800S"**	**"SHD-2100S"**	**"SHD-2400S"**
	(A) By-Pass Air Flow-type			
	"SHD-C1500S"	**"SHD-C1800S"**	**"SHD-C2100S"**	**"SHD-C2400S"**
	(B) Air Curtain Air Flow-type			
Duct Size	Φ 200mm / Φ 250mm /Φ 300mm			
Material*	**(3)** Internal : PVC, **(1)** External : PVC, **(4)** Work Top : PVC, **(6)** Column : PVC **(7)** pH Indicator/Control Panel, **(8)** Demister : PP, **(9)** Window : Clear PVC, **(10)** Pall Ring : PP			
Sash Frame & Window	PVC Sheet Frame, **(2)** Clear PVC			
Cabinet	**(5)** Built in Multi-purpose Cabinet			
Lamp	Explosion Proof Lamp(2ea×20 W)			
Cock	1ea×Air-/Gas-/Water-Cock			
Receptacle	220V Concent(2ea) and 110V Concent(2ea)			
Circulation Pump	**(11)** Built in Magnetic Pump, 1 Phase, AC 220V, 1/3HP			
Water Level Gauge	Clear PVC			
Filter	**(10)** PP Pall Ring			
Demister	**(8)** PP Made (Mesh-type)			
Water Spray Nozzle	6mm PVC Nozzle			
Water Drain Line	PVC Pipe			
Dimension (w×d×h) (mm)	1500×800×2200	1800×800×2200	2100×800×2200	2400×800×2200
Power Supply *	1 Phase, AC 220V / 60Hz			

*** Other Specifications are available upon Customer's Request.**

Ordering Information

(A) By-Pass Air Flow-type, PVC Wet Scrubber Fume Hood

		Ea. Price, ₩
SL.SHD02515	Fume Hood, **230V,** 1500×800×h2200mm, **"SHD-1500S"**	11,325,600
SL.SHD02518	, 1800×800×h2200mm, **"SHD-1800S"**	11,761,200
SL.SHD02521	, 2100×800×h2200mm, **"SHD-2100S"**	12,051,600
SL.SHD02524	, 2400×800×h2200mm, **"SHD-2400S"**	12,777,600

(B) Air Curtain Air Flow-type, PVC Wet Scrubber Fume Hood

		Ea. Price, ₩
SL.SHD02615	Fume Hood, **230V,** 1500×800×h2200mm, **"SHD-C1500S"**	11,616,000
SL.SHD02618	, 1800×800×h2200mm, **"SHD-C1800S"**	12,051,600
SL.SHD02621	, 2100×800×h2200mm, **"SHD-C2100S"**	12,342,000
SL.SHD02624	, 2400×800×h2200mm, **"SHD-C2400S"**	13,068,000

Optional Blower

		Ea. Price, ₩
SL.SHD10011	External Blower, **"SHDBL0011"**	On Request

※ Custom-Made Fume Hood : Wide Variety of Material for User Selection.

※ Note! Freight and Installation Charges Separately.

SciLab Korea

Furnace

Furnaces, Muffle, 1000℃ ..... P. 63
, Muffle, 1200℃ ..... P. 64
, Muffle, High Temperature, 1450℃ ..... P. 65
, Muffle, High Temperature, 1650℃ ..... P. 66

NEW



1000℃ Muffle Furnace,
"WiseTherm® SFX-14"

NEW



1000℃ High-Temp. Muffle Furnace,
"WiseTherm® SFX-63"

NEW



1450℃ High-Temp. Muffle Furnace,
"WiseTherm® FSC-2"

NEW



1450℃ High-Temp. Muffle Furnace,
"WiseTherm® FSC-5", "WiseTherm® FSC-11",
"WiseTherm® FSC-22"

SciLab-brand® 1,000℃ Programmable Digital Muffle Furnaces, *"WiseTherm® SFX"*, Exposed Heating Elements-type with Digital PID Control, Short Heat-up Time, Ceramic Fiber, 4-Side Heating, with Ceramic Fiber Plate, 3~63 Lit NEW

디지털 전기로, 디지털 PID 컨트롤 시스템, 4면 가열 방식, 히터 노출형



1000℃ Digital Muffle Furnace,
Exposed Heating Elements-type "WiseTherm® SFX-14"



1000℃ Digital Muffle Furnace,
Exposed Heating Elements-type "WiseTherm® SFX-63"



Inner Chamber of
Exposed Heating Elements-type

- ***Made in Korea*** ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***
- ***Digital PID Programmable Controller : 4 Patterns with 10 Segments***

* Designed for Ash-Determinations, Enameling, Fusions, Precipitate Drying
* User's Self-Compensation Function for Temperature (±50℃) * Resolution : 1℃, 1min
* Safety Switch for Door Opening * Ceramic Fiber exposed Heating Wire, 4-Side Heating

Specifications & Ordering information

Spec. \ Model		"SFX-03"	"SFX-05"	"SFX-12"	"SFX-14"	"SFX-27"	"SFX-63"
Temp. Range		300℃ ~ 1000℃					
Capacity		3 Lit.	4.5 Lit.	12 Lit.	14 Lit.	27 Lit.	63 Lit.
Heater		Kanthal A1, Expose Wire Heating Elements, 4-Side Heating					
Thermocouple		K-type Thermocouple					
Heating Power		1.6 kW	1.7 kW	3.3 kW	4.0 kW	4.6 kW	9 kW
Required time to be reached 800℃		16 min		20 min			23 min
Timer & Alarm		99hr 59min (Continuous run), Error status & Timer-end					
Display		Digital LCD with Back-Light Function					
Controller		Digital PID Controller with Jog-Dial Switch (Turn+Push)					
Program Function		4 Patterns with 10 Segments					
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection Safety Switch for Door Opening					
Material		Ceramic Fiber with Heating Wire-Internal, Powder Coated steel-External Ceramic Fiber-Insulation					
Dimension (w×d×h)	Internal (cm)	13×25×9	15×30×10	20×30×20	25×35×16	30×30×30	40×40×40
	External (cm)	41×48×53	44×53×55	50×55×66	55×59×62	60×59×76	100×75×95
Packing Size(w×d×h) (cm)		63×54×77	68×57×78	70×63×89	74×68×85	74×73×99	116×90×110
Gross Weight		47 kg	54 kg	59 kg	73 kg	83 kg	225 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase			
Cat. No.	230V	SL.SF21.03	SL.SF21.05	SL.SF21.12	SL.SF21.14	SL.SF21.27	SL.SF21.63
	120V	SL.SF20.03	SL.SF20.05	SL.SF20.12	SL.SF20.14	SL.SF20.27	SL.SF20.63
	3Phase	-	-	SL.SF23.12	SL.SF23.14	SL.SF23.27	SL.SF23.63
Price, Each. ₩		1,413,000	1,610,000	2,041,000	2,319,000	3,697,000	5,904,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

Spare Ceramic Fiber Plates

		Ea. Price, ₩
DH.WF211.03	(1) Ceramic Fiber Plate, "FS1103" for 3Lit.	21,000
DH.WF211.05	, "FS1105" for 4.5Lit.	21,000
DH.WF211.12	, "FS1112" for 12Lit.	32,000
DH.WF211.14	, "FS1114" for 14Lit.	32,000
DH.WF211.27	, "FS1127" for 27Lit.	42,000
DH.WF211.63	, "FS1163" for 63Lit.	77,000

Optional Gloves

		Ea. Price, ₩
NA.491041101	(2) Gloves, Heat-resistant, 700℃, Flexible & Long Sleeve, 1Pair	299,240



(1) Ceramic Fiber Plate
(Included)



(2) Heat-resistant Gloves

Articles	Cat. No	Description

SciLab-brand® 1,200℃ Programmable Digital Muffle Furnaces, *"WiseTherm® SFHX"*, Exposed Heating Elements-type with Digital PID Control, Short Heat-up Time, Ceramic Fiber, 4-Side Heating, with Ceramic Fiber Plate, 3~63 Lit NEW

디지털 전기로, 디지털 PID 컨트롤 시스템, 4면 가열 방식, 히터 노출형



1200℃ Digital Muffle Furnace,
Exposed Heating Elements-type
"WiseTherm® SFHX-14"



1200℃ Digital Muffle Furnace,
Exposed Heating Elements-type "WiseTherm® SFHX-63"



Inner Chamber of
Exposed Heating Elements-type

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Patented Jog-Dial Control System and Digital LCD with Back-Light Function***
- ***Digital PID Programmable Controller : 4 Patterns with 10 Segments***

∗ Digital Jog-Dial Control System ∗ Included Ceramic Fiber Plate
∗ Ceramic Fiber Exposed Heating Wire, 4-Side Heating ∗ Safety Switch for Door Opening
∗ User's Self-Compensation Function for Temperature (±50℃) ∗ Resolution : 1℃, 1min

Specifications & Ordering information

Spec. \ Model		"SFHX-03"	"SFHX-05"	"SFHX-12"	"SFHX-14"	"SFHX-27"	"SFHX-63"
Temp. Range		300℃ ~ 1200℃					
Capacity		3 Lit.	4.5 Lit.	12 Lit.	14 Lit.	27 Lit.	63 Lit.
Heater		Kanthal A1, Expose Wire Heating Elements, 4-Side Heating					
Thermocouple		K-type Thermocouple					
Heating Power		1.6 kW	1.7 kW	3.3 kW	4.0 kW	4.6 kW	9 kW
Required time to be reached 800℃		16 min		20 min			23 min
Timer & Alarm		99hr 59min (Continuous run), Error status & Timer-end					
Display		Digital LCD with Back-Light Function					
Controller		Digital PID Controller with Jog-Dial Switch (Turn+Push)					
Program Function		4 Patterns with 10 Segments					
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection Safety Switch for Door Opening					
Material		Ceramic Fiber with Heating Wire-Internal, Powder Coated steel-External Ceramic Fiber-Insulation					
Dimension (w×d×h)	Internal (cm)	13×25×9	15×30×10	20×30×20	25×35×16	30×30×30	40×40×40
	External (cm)	41×48×53	44×53×55	50×55×66	55×59×62	60×59×76	100×75×95
Packing Size(w×d×h) (cm)		63×54×77	68×57×78	70×63×89	74×68×85	74×73×99	116×90×110
Gross Weight		47 kg	54 kg	59 kg	73 kg	83 kg	225 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase			
Cat. No.	230V	SL.SFH22.03	SL.SFH22.05	SL.SFH22.12	SL.SFH22.14	SL.SFH22.27	SL.SFH22.63
	120V	SL.SFH20.03	SL.SFH20.05	SL.SFH20.12	SL.SFH20.14	SL.SFH20.27	SL.SFH20.63
	3Phase	-	-	SL.SFH23.12	SL.SFH23.14	SL.SFH23.27	SL.SFH23.63
Price, Each. ₩		1,797,000	1,950,000	2,489,000	2,575,000	4,405,000	7,121,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

Spare Ceramic Fiber Plates

		Ea. Price, ₩
DH.WF211.03	(1) Ceramic Fiber Plate, **"FS1103"** for **3Lit.**	21,000
DH.WF211.05	, **"FS1105"** for **4.5Lit.**	21,000
DH.WF211.12	, **"FS1112"** for **12Lit.**	32,000
DH.WF211.14	, **"FS1114"** for **14Lit.**	32,000
DH.WF211.27	, **"FS1127"** for **27Lit.**	42,000
DH.WF211.63	, **"FS1163"** for **63Lit.**	77,000

Optional Gloves

		Ea. Price, ₩
NA.491041101	(2) Gloves, Heat-resistant, 700℃, Flexible & Long Sleeve, 1Pair	299,240



(1) Ceramic Fiber Plate (Included)



(2) Heat-resistant Gloves

"WiseTherm® FSC" 1,450℃ Programmable High-Temp. Muffle Furnaces, Exposed Heating Elements-type NEW

with SIC Heater, Digital PID Control, Short Heat-up Time, 2-Side Heating, without Ceramic Fiber Plate, 1.9~22 Lit

고온 디지털 전기로, 디지털 PID 컨트롤 시스템, 2면 가열 방식



1450℃ Programmable High Temp. Muffle Furnace, 1.9Lit, "WiseTherm® FSC-2"



1450℃ Programmable High Temp. Muffle Furnace, "WiseTherm® FSC-5", "WiseTherm® FSC-11", "WiseTherm® FSC-22"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital PID Programmable Controller : 2 Patterns with 10 Segments***
- ***Digital LCD Display*** ■ ***High Quality Insulation : Ceramic Fiber Board***
- ***SIC(Silicon Carbide) Heater***

∗ Safety Door Lock System
∗ Ceramic Fiber Exposed Heating Wire, 2-Side Heating
∗ Excluding Ceramic Fiber Plate
∗ Safety Switch for Door Opening

Specifications & Ordering information

Spec. \ Model		WiseTherm® FSC-2	WiseTherm® FSC-5	WiseTherm® FSC-11	WiseTherm® FSC-22
Temp. Range		500℃ ~ 1450℃			
Capacity		1.9 Lit.	4.5 Lit.	11 Lit.	22 Lit.
Heater		SIC Heater, 2-Side Heating			
Thermocouple		R-type Thermocouple			
Heating Power		2 kW	3.3 kW	7.7 kW	9.6 kW
Required time to be reached 800℃		30 min			
Timer & Alarm		99hr 59min or Continuous run			
Display		Digital LCD Display			
Controller		Digital PID Controller, UP35A, SCR Power Controller with Push Button			
Program Function		2 Patterns with 10 Segments			
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection, Safety Switch for Door Opening	Over-Temp./-Current protection, Sensor Error Detection		
Material		Ceramic Fiber board with SIC Heater-Internal, Powder Coated steel-External, Ceramic Fiber-Insulation			
Dimension (w×d×h)	Internal (mm)	120×130×120	150×200×150	200×270×200	250×350×250
	External (mm)	440×482×700	820×555×655	870×625×715	920×705×785
Packing Size(w×d×h) (cm)		680×540×940	1350×600×890	1400×770×950	1450×900×1100
Gross Weight		57 kg	70 kg	102 kg	132 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz, without Cord and Plug			
Cat. No.	230V	DH.FSC02002	DH.FSC02005	DH.FSC02011	DH.FSC02022
	120V	DH.FSC01002	DH.FSC01005	DH.FSC01011	DH.FSC01022
Price, Each. ₩		4,234,000	5,080,000	6,774,000	9,060,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!



Inner Chamber of
Exposed Heating Elements-type

Optional Ceramic Fiber Plates

		Ea. Price, ₩
DH.FSC2002	(1) Ceramic Fiber Plate, w120×d130mm, for **1.9Lit.**	59,000
DH.FSC2005	, w150×d200mm, for **4.5Lit.**	91,000
DH.FSC2011	, w200×d270mm, for **11Lit.**	124,000
DH.FSC2022	, w250×d350mm, for **22Lit.**	227,000

Optional Gloves

		Ea. Price, ₩
NA.491041101	(2) Gloves, Heat-resistant, 700℃, Flexible & Long Sleeve, 1Pair	299,240



(1) Ceramic Fiber Plate



(2) Heat-resistant Gloves

"WiseTherm® FSK" 1,650℃ Programmable High-Temp. Muffle Furnaces, Exposed Heating Elements-type NEW

with MoSi2 Heater, Digital PID Control, Short Heat-up Time, 2-Side Heating, without Ceramic Fiber Plate, 1.9~11 Lit

고온 디지털 전기로, 디지털 PID 컨트롤 시스템, 2면 가열 방식



1650℃ Programmable High Temp. Muffle Furnace, 1.9Lit, "WiseTherm® FSK-2"



1650℃ Programmable High Temp. Muffle Furnace, "WiseTherm® FSK-5", "WiseTherm® FSK-11"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital PID Programmable Controller : 2 Patterns with 10 Segments***
- ***Digital LCD Display*** ■ ***High Quality Insulation : Ceramic Fiber Board***

∗ Safety Door Lock System
∗ Ceramic Fiber Exposed Heating Wire, 2-Side Heating
∗ Excluding Ceramic Fiber Plate
∗ Safety Switch for Door Opening

Specifications & Ordering information

Spec. \ Model		WiseTherm® FSK-2	WiseTherm® FSK-5	WiseTherm® FSK-11
Temp. Range		600℃ ~ 1650℃		
Capacity		1.9 Lit.	4.5 Lit.	11 Lit.
Heater		MoSi2 Heater, 2-Side Heating		
Thermocouple		B-type Thermocouple		
Heating Power		1.3 kW	2.9 kW	6.6 kW
Required time to be reached 800℃		40 min		
Timer & Alarm		99hr 59min or Continuous run		
Display		Digital LCD Display		
Controller		Digital PID Controller, UP35A, SCR Power Controller with Push Button		
Program Function		2 Patterns with 10 Segments		
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection, Safety Switch for Door Opening	Over-Temp./-Current protection, Sensor Error Detection	
Material		Ceramic Fiber board with MOSi2 Heater-Internal, Powder Coated steel-External, Ceramic Fiber-Insulation		
Dimension (w×d×h)	Internal (mm)	120×130×120	150×200×150	200×270×200
	External (mm)	440×482×700	900×600×695	980×670×765
Packing Size(w×d×h) (cm)		680×540×940	1430×640×930	1510×810×1000
Gross Weight		72 kg	150 kg	186 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz, without Cord and Plug		
Cat. No.	230V	DH.FSK02002	DH.FSK02005	DH.FSK02011
	120V	DH.FSK01002	DH.FSK01005	DH.FSK01011
Price, Each. ₩		8,255,000	11,007,000	15,027,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

Optional Ceramic Fiber Plates

		Ea. Price, ₩
DH.FSK2002	(1) Ceramic Fiber Plate, w120×d130mm, for **1.9Lit.**	114,000
DH.FSK2005	, w150×d200mm, for **4.5Lit.**	206,000
DH.FSK2011	, w200×d270mm, for **11Lit.**	285,000

Optional Gloves

		Ea. Price, ₩
NA.491041101	(2) Gloves, Heat-resistant, 700℃, Flexible & Long Sleeve, 1Pair	299,240



Inner Chamber of Exposed Heating Elements-type



(1) Ceramic Fiber Plate



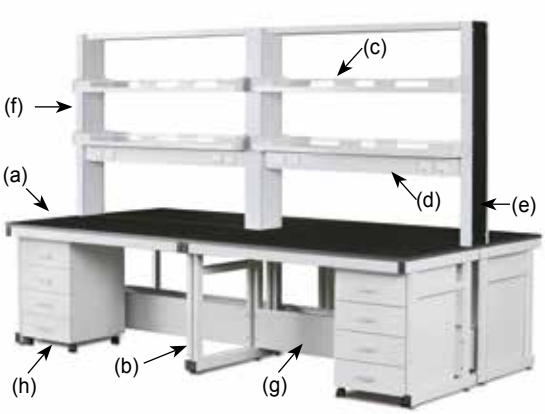
(2) Heat-resistant Gloves

SciLab-brand® Laboratory Assembly Furniture, High Quality Steel-Frame/-Side Panel and Phenol Work Top, SUS Bolted Joint with Transfer Cabinet, Utility Box, 실험실용 조립식 실험대, 고품질 스틸 프레임, 내화학성 페놀 상판, 볼트 조임식 결합 NEW

- ***Made in Korea***
- ***High Quality Steel-Frame(60×40 & 50×30mm), Side-/Back-Steel Panel(t1.6mm)***
- ***Easy to Assemble with Stainless-steel(SUS 304) Bolts and Stable***
- ***The Work Top are made of Melamine, Granite, Phenol(Black or Gray).***
- ***You can choose the Materials of the Work Top according to Usage and Change the Height of Table.***

Features of Work Top Materials

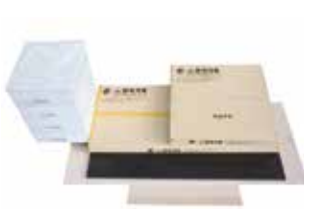
∗ Phenol(Phenolic Laminate) : Strong Plate Consist of 70% Pulp Plaster and 30% Thermosetting Resin. Good for All Purpose Laboratory.
∗ Melamine : Good for Chemical and Heat-resistance. The Surface is Resistant against Scratches and Abrasion. Suitable for Analytical Laboratory.
∗ Granite : Excellent for Heat and Shock-resistance. Suitable for Special Laboratory like Instrumental Analysis Laboratory.



Structures and Features of Assembly Furniture

∗ (a) Work Top : Chemical-resistance Phenolic Laminate, t20mm (Black or Gray)
∗ (b) Frame : The Most Stable Steel Under Construction, Suitable for Long-term Loading of Heavy Analysis Equipment, High Quality Steel, 60×40mm & 50×30mm
∗ (c) Shelves : Shelf Fall Prevention Design, Movable Up and Down, Aluminum Frame, PVC Shelf Plate(t8mm), Epoxy Powder Coating Steel Shelf Supporter(t1.6mm)
∗ (d) Utility Box : Electrical safety design, Attachment Emergency Breaker and Switch Box for Each Line, Steel Plate(t1.6mm), Cover type Power Outlet(220V)
∗ (e) Reagent Structure : Al Frame & Steel Plate(1.6mm), Columns bend(Edge Rounding) to Secure LAN Line, Electricity, Gas, Water etc., Maintenance and Safety Enhancement
∗ (f) Reagent Front / Rear Frame : Anodizing and Electro-deposition Treatment on Environmentally Friendly Aluminum Surface to Enhance Strength, Abrasion-resistance, Corrosion-resistance and Electrical insulation
∗ (g) Modular System Back Panel
  - Easily Removable and Easy to Follow and Check (Scalability)
  - Eco-friendly Epoxy Powder Coating to Prevent Scratches and Corrosion
  - Using Steel Plate t1.6mm
∗ (h) Transfer Cabinet : Particle Board Plate(t15/18mm) / Al-handle / Brake Caster / 450×500×h700mm, Basic 4-stage(2-/3-stage possible)
∗ Attach Inner Support : Use of Steel Pipe for Loaded Area and Flexural Reinforcement
∗ Sink Tables : We can Offer SciLab Custom Sink Table, for which you can Specify the Specification

※ Sequence of Assemble the Table



Package : Total 4 Box including Transfer Cabinet(Work Top / Frame / Panel / Transfer Cabinet)



1. Connect the Work Top Frame and Right Leg Frame with SUS Bolts using a Screwdriver



2. Connect the Work Top Frame and Left Leg Frame with SUS Bolts using a Screwdriver



3. Connect the Bottom Panel and the Left Leg Frame with SUS Bolts using a Screwdriver



4. Connect the Bottom Panel and the Right Leg Frame with SUS Bolts using a Screwdriver



5. Place the Work Top on the Completed Lower Frame



6. Finished Assembly



SFE401 Series, w1800mm

7. Place the Complete Assembley Transfer Cabinet in the desired location

Articles	Cat. No	Description

SciLab-brand® Laboratory Assembly Center Tables, High Quality Steel-Frame/-Side Panel and Phenol Work Top, SUS Bolted Joint with Transfer Cabinet, Utility Box, 실험실용 조립식 중앙 실험대, 고품질 스틸 프레임, 내화학성 페놀 상판, 볼트 조임식 결합 NEW

■ Made in Korea ***■ High Quality Steel-Frame(60×40 & 50×30mm), Side-/Back-Steel Panel(t1.6mm)***

■ Easy to Assemble with Stainless-steel(SUS 304) Bolts and Stable

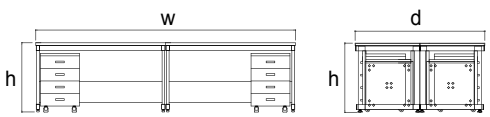
∗ The most Stable Steel Under Construction, Suitable for Long-term Loading of Heavy Analysis Equipment (60×40 & 50×30mm)
∗ Chemical-resistance Phenolic Laminate Work Top, t20mm (Black or Gray)
∗ Could be Change the Work Top, Height of Table on User Applications. Please Call to specify the Work Top.

Assembly Basic Center Tables, with Transfer Cabinet, Steel-frame/-side Panel & Phenol Work Top

∗ Work Top : Phenol Plate, t20mm ∗ Back Panel : Steel Plate, t1.6mm ∗ Frame : Steel, 60×40 & 50×30mm



(1) SFE301 Series, w2400mm



		Ea. Price, ₩
SL.SFE3011	(1) Center Table, 1500×1500×h800mm, with Cabinet(2ea)	1,292,280
SL.SFE3012	, 1800×1500×h800mm, with Cabinet(2ea)	1,597,200
SL.SFE3013	, 2100×1500×h800mm, with Cabinet(4ea)	1,815,000
SL.SFE3014	, 2400×1500×h800mm, with Cabinet(4ea)	2,076,360
SL.SFE3015	, 3000×1500×h800mm, with Cabinet(4ea)	2,584,560
SL.SFE3016	, 3600×1500×h800mm, with Cabinet(4ea)	3,121,800

※ Assembly Details : See Page 67

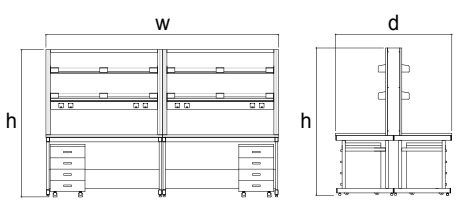
※ **Note! Freight and Installation Charges Separately.**

Assembly Shelf-type Center Tables, with Transfer Cabinet/Shelves, Steel-frame/-side Panel & Phenol Work Top

∗ Work Top : Phenol Plate, t20mm ∗ Back Panel : Steel Plate, t1.6mm ∗ Frame : Steel, 60×40 & 50×30mm ∗ Size : d1500×h800/1900mm



(2) SFE302 Series, w2400mm



		Ea. Price, ₩
SL.SFE3021	(2) Center Table, w1500×h800/1900mm, with Cabinet(2ea) / Shelves	1,815,000
SL.SFE3022	, w1800×h800/1900mm, with Cabinet(2ea) / Shelves	2,178,000
SL.SFE3023	, w2100×h800/1900mm, with Cabinet(4ea) / Shelves	2,468,400
SL.SFE3024	, w2400×h800/1900mm, with Cabinet(4ea) / Shelves	2,904,000
SL.SFE3025	, w3000×h800/1900mm, with Cabinet(4ea) / Shelves	3,630,000
SL.SFE3026	, w3600×h800/1900mm, with Cabinet(4ea) / Shelves	4,356,000

※ Assembly Details : See Page 67

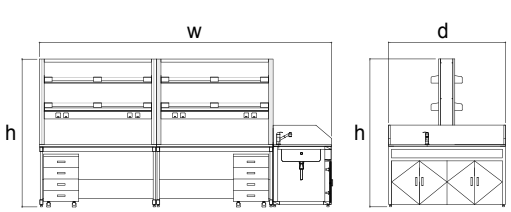
※ **Note! Freight and Installation Charges Separately.**

Assembly Comprehensive Center Tables, with Cabinet/Sink Table/Shelves, Steel-frame/-side Panel & Phenol Work Top

∗ Work Top : Phenol Plate, t20mm ∗ Back Panel : Steel Plate, t1.6mm ∗ Frame : Steel, 60×40 & 50×30mm ∗ Size : d1500×h800/2000mm
∗ Sink Top : Phenol Plate, t20mm ∗ Water Guard : 3-sided Tempered Glass ∗ with Cabinet(4ea) / Shelves / Sink Table ∗ Sink Bowl : PP(Polypropylene)



(3) SFE303 Series, w3150mm



		Ea. Price, ₩
SL.SFE3031	(3) Center Table, w2250×h1900mm, with Shelves / Sink Table	2,976,600
SL.SFE3032	, w2550×h1900mm, with Shelves / Sink Table	3,339,600
SL.SFE3033	, w2850×h1900mm, with Shelves / Sink Table	3,717,120
SL.SFE3034	, w3150×h1900mm, with Shelves / Sink Table	4,065,600
SL.SFE3035	, w3750×h1900mm, with Shelves / Sink Table	4,791,600
SL.SFE3036	, w4350×h1900mm, with Shelves / Sink Table	5,517,600

※ Assembly Details : See Page 67

※ **Note! Freight and Installation Charges Separately.**

SciLab-brand® Laboratory Assembly Side Tables, High Quality Steel-Frame/-Side Panel and Phenol Work Top, SUS Bolted Joint with Transfer Cabinet, Utility Box, 실험실용 조립식 벽면 실험대, 고품질 스틸 프레임, 내화학성 페놀 상판, 볼트 조임식 결합 NEW

■ ***Made in Korea*** ■ ***High Quality Steel-Frame(60×40 & 50×30mm), Side-/Back-Steel Panel(t1.6mm)***

■ ***Easy to Assemble with Stainless-steel(SUS 304) Bolts and Stable***

∗ The most Stable Steel Under Construction, Suitable for Long-term Loading of Heavy Analysis Equipment (60×40mm & 50×30mm)

∗ Chemical-resistance Phenolic Laminate Work Top, t20mm (Black or Gray) ∗ Could be Change the Work Top, Height of Table on User Applications.

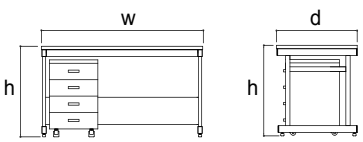
Assembly Basic Side Tables, with Transfer Cabinet, Steel-frame/-side Panel & Phenol Work Top

∗ Work Top : Phenol Plate, t20mm ∗ Back Panel : Steel Plate, t1.6mm ∗ Frame : Steel, 60×40 & 50×30mm

NEW



(1) SFE401 Series, w1800mm



		Ea.	Price, ₩
SL.SFE4011	(1) Side Table, 1200×750×h800mm, with Cabinet(1ea)		518,370
SL.SFE4012	, 1500×750×h800mm, with Cabinet(1ea)		653,400
SL.SFE4013	, 1800×750×h800mm, with Cabinet(1ea)		784,080
SL.SFE4014	, 2100×750×h800mm, with Cabinet(2ea)		914,760
SL.SFE4015	, 2400×750×h800mm, with Cabinet(2ea)		1,030,920

※ Assembly Details : See Page 67

※ **Note! Freight and Installation Charges Separately.**

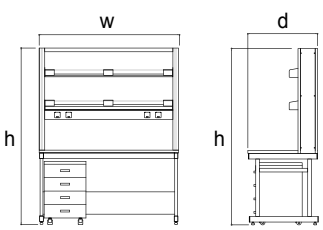
Assembly Shelf-type Side Tables, with Transfer Cabinet/Shelves, Steel-frame/-side Panel & Phenol Work Top

∗ Work Top : Phenol Plate, t20mm ∗ Back Panel : Steel Plate, t1.6mm ∗ Shelves : PVC Shelf Plate(t8mm) & Steel Shelf Supporter(t1.6mm)

NEW



(2) SFE402 Series, w1800mm



		Ea.	Price, ₩
SL.SFE4021	(2) Side Table, 1200×750×h800/1900mm, with Cabinet / Shelves		914,760
SL.SFE4022	, 1500×750×h800/1900mm, with Cabinet / Shelves		1,132,560
SL.SFE4023	, 1800×750×h800/1900mm, with Cabinet / Shelves		1,364,880
SL.SFE4024	, 2100×750×h800/1900mm, with Cabinet / Shelves		1,568,160
SL.SFE4025	, 2400×750×h800/1900mm, with Cabinet / Shelves		1,800,480

※ Assembly Details : See Page 67

※ **Note! Freight and Installation Charges Separately.**

SciLab-brand® Laboratory Sink Tables, High Quality Steel-Frame/-Side Panel, Phenol Sink Top, PP Sink Bowl, Glass Water Guard with ① Cold & Hot Water Mixed Faucet or ② 3-mouth Chemical Faucet, 실험실용 싱크대, 3면 강화유리, 재질 변경 가능 NEW

NEW



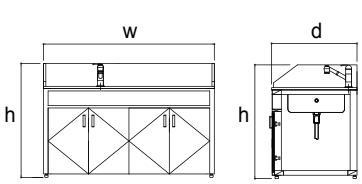
Welcome! Custom-Made Sink Table!!

We can Offer SciLab Custom Sink Table, for which you can Specify the Specification

∗ Available to Select the Faucet (① Cold & Hot Water Mixed Faucet or ② 3-mouth Chemical Faucet)

∗ Sink Top : Chemical-resistance Phenolic Laminate t20mm ∗ Sink Bowl : PP(Selectable Material)

∗ Water Guard : Composed of 3-sided Tempered Glass t8mm(Selectable Material)



Selectable Material of Custom-Made Sink Table

	Material			
(a) Sink Top	Phenol	P.P	PVC	SUS
(b) Sink Bowl	-	P.P	PVC	SUS
(c) Water Guard	Glass	P.C	PVC	PVC

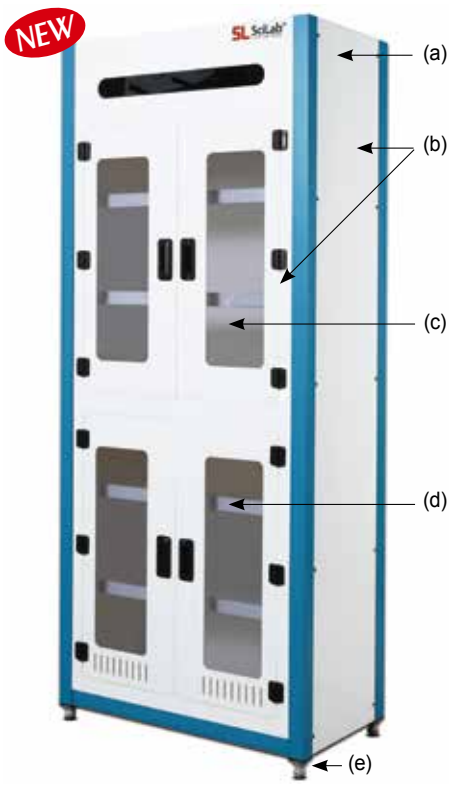
		Ea.	Price, ₩
SL.SFE4031	Sink Table, Laboratory, 900×750×h1050mm		871,200
SL.SFE4032	, 1200×750×h1050mm		1,016,400
SL.SFE4033	, 1500×750×h1050mm		1,161,600
SL.SFE4034	, 1800×750×h1050mm		1,306,800

Optional Eye-washer

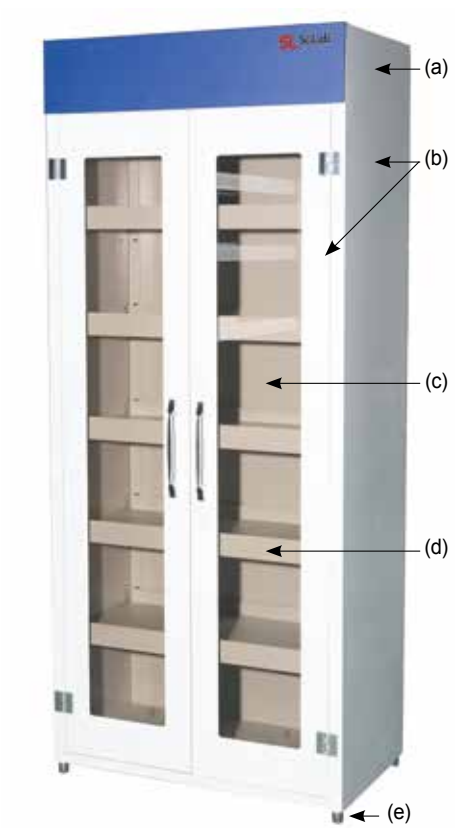
		Ea.	Price, ₩
SL.SFE4040	(d) Option ; Eye-washer, Single Nozzle, Table Mounted, L1.4m		116,160

※ **Note! Freight and Installation Charges Separately.**

SciLab-brand® Ducted Safety Cabinets, with Clear PVC-/Safety Glass-Door Window, Built-in PVC/Al-buttress with Internal & External PVC/Steel Plate, Duct & Pipe Silicon Sealing, Gas Leak Completely Blocked, 닥트형 약품기구 보관장, 환기형



(1) PVC Safety Cabinets, **"SFGC-2001"**



(2) Steel Safety Cabinets, **"SFGC-900"**

- ***Made in Korea*** ■ ***Durable, Hazardous Chemical Gas Remove.***
- ***Internal/External PVC Sheet/Steel Plate Good Resistance of Chemicals & Acid.***
- ***Clear PVC-/Tempered Safety Glass-Window***
  (Custom-Made Safety Cabinet : Wide Variety of Material for User Selection)

∗ Discharging Toxic Gas Generated During Storage Various Reagents to the Outside through the Duct Structure
∗ Effective in Maintaining a Comfortable indoor to Prevent the Laboratory Room Air being Polluted.
∗ It may Create a Space to Treat the Harmful Substances in the Human Body Safely and Comfortably
∗ Process Pipe & Duct Silicon Sealing to Completely Block the Gas Leakage to the Outside
∗ Optional Blower User Selection : External-model(Stainless steel-/ Steel-/ PVC-/ PP-Blower)
& Internal-model(Steel-/ PVC-/ PP-Blower)
∗ Optional 24-hour Timer : Automatically Adjustable Exhaust attached to a Safety Cabinet

(1) Ducted PVC Safety Cabinet, Clear PVC Door Window NEW

- ***Internal/External PVC Material Resistance of Chemicals and Acids***
- ***Built-in PVC-buttress*** ■ ***1-Room, 4-Doors, 5-Shelfs***

∗ Safe Storage of Chemicals and Acids
∗ Door Window : Use the Clear PVC Transparency and Protect the Experimenter Against the Risk of Explosion.
∗ Basic Materials of Construction : Internal(PVC), External(PVC), 5-stage a Fixed Shelf(PVC)

Specifications & Ordering information

Spec. \ Model	"SFGC-2001"	"SFGC-2003"	"SFGC-2005"
(a) Duct size	Φ 100mm / Φ 150mm		
(b) Body & Door Material	PVC(Extrusion Moulding)		
(c) Door Window Material	Clear PVC		
(d) Shelf Material	PVC (5 Fixed-type)		
(e) Foot Material	PVC(Height Adjustable up to 30mm)		
Dimension(w × d × h)	900 × 500 × h2100mm	1200 × 500 × h2100mm	1500 × 500 × h2100mm
Power Supply	220V / 60Hz		
Cat. No.	SL.SFGC2001	SL.SFGC2003	SL.SFGC2005
Price, Ea. ₩	2,032,800	2,178,000	2,613,600

* Other Specifications are available upon Customer's Request.

※ **Note! Freight and Installation Charges Separately.**

(2) Ducted Steel Safety Cabinet, Tempered Safety Glass Door Window

- ***Internal/External Steel plate with Powder finished for Resistance of Chemicals***
- ***Built-in Particle Board-plate & Al-buttress*** ■ ***1-Room, 2-Doors, 5-Shelfs***

∗ Safe Storage of Chemicals
∗ Use Tempered Safety Glass Protects the Experimenter Against the Risk of Explosion.
∗ Basic Materials of Construction : Internal(Steel), External(Steel), 5-stage a Fixed Shelf(PB & Al)

Specifications & Ordering information

Spec. \ Model	"SFGC-900"	"SFGC-1200"	"SFGC-1500"
(a) Duct size	Φ 100mm / Φ 150mm		
(b) Body & Door Material	Steel(with Powder Finished)		
(c) Door Window Material	Tempered Safety Glass		
(d) Shelf Material	PB(Particle Board) Plate + Aluminum Buttress (5 Fixed-type)		
(e) Foot Material	Stainless-steel(Height Adjustable up to 30mm)		
Dimension(w × d × h)	900 × 500 × h2100mm	1200 × 500 × h2100mm	1500 × 500 × h2100mm
Power Supply	220V / 60Hz		
Cat. No.	SL.SFGC0900	SL.SFGC1200	SL.SFGC1500
Price, Ea. ₩	1,452,000	1,597,200	1,815,000

* Other Specifications are available upon Customer's Request.

※ **Note! Freight and Installation Charges Separately.**

Articles	Cat. No	Description

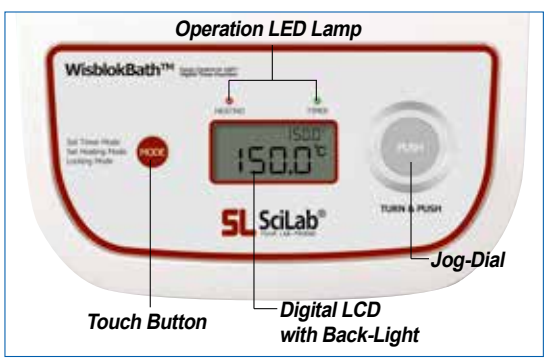
SciLab-brand® High-performance Heating Block/Dry Bath Incubator, *"WisblokBath™ H10"*, up to 150℃, ±0.1℃

with Fuzzy Control, Molded Heater, Modular Anodized Aluminum Blocks, Acrylic Lid, Touch-button Controller, with Certi. & Traceability

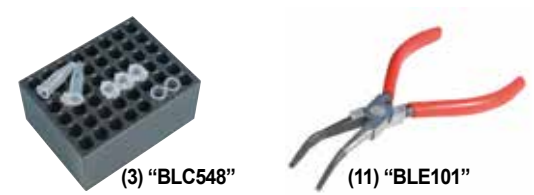
히팅 블럭, 디지털 퍼지 컨트롤 시스템, 터치버튼식 조절기, 일체형 주물 히터, 블럭 교체 가능, 아크릴 리드 / 블럭용 집게 포함 NEW



New ***Heating Block/Dry Bath "WisblokBath™ H10-set"***



New Generation Controller of "WisblokBath™ H10"



Included Anodized Aluminum Block & Tong

- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Designed for Multi-functional Dry Block Heater*** ■ ***Ergonomic Design***
- ***Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility,***
- ***Best Convenient to Operate. with Back-Light LCD***

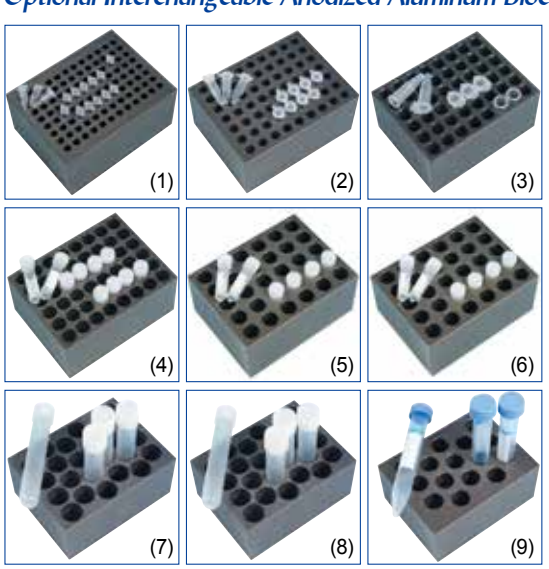
* High-performance Molded Heater ensures Best Temperature Accuracy.
* Internal Bath Material(PPS) ensures Best Heat Insulation
* Ideal for Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures
* Precise Temperature Control : ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃
* User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0℃)
* Digital Timer Included : up to 99hr 59min (Operation Time + Delay Time)
* Storage Function of Temperature and Timer setting values * Modular Block
* Alarm Function : Error Status and Timer-end * Various kind of Blocks are offered (Optional)
* Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
* The Block Extraction Tongs and Included for Easy Handling

Specifications & Ordering information

Spec. \ Model		"WisblokBath™ H10" (Only Unit)	"WisblokBath™ H10-set" (included Standard Block)
Controller		Single Digital Fuzzy Controller	
Useful Block		Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block		None(Only Heating Block Unit)	48 holes×for 1.5/ 2ml Centri. Tube
Heater		Molded Heater(300W)	
Dimension(mm)		Unit : 210×309×h144, Block : 90×120×h60	
Temp. Range, & Accuracy		Ambient +5℃ to 150℃, ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃	
Heat-Up Speed & Sensor		Approx. 5℃/min, PT100	
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm		99hr 59min, Alarm (Error Status and Timer - end)	
Display		Digital LCD with Back-Light Function	
Material		Unit : PPS & BAS(HF380), Block : Anodized Aluminum	
Included Standard Acce.		Block Tongs "BLE101" and Block Cover	
Packing Size & Gross Weight		400×270×h200 mm, 4 kg	
Power Consumption		300 W	
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	**SL.SHB00348**	**SL.SHB00349**
	120V	**SL.SHB00448**	**SL.SHB00449**
Price, Each. ₩		319,000	463,000

* **Other Specifications are available upon Customer's Request.**

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)



		Ea. Price, ₩
DH.WHB510596	(1) for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) for 0.5ml Centri. Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) for 1.5/2ml Centri. Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000
DH.WHB500101	(11) Spare Block Extraction Tongs, **"BLE101"**	21,000

Articles	Cat. No	Description

SciLab-brand® High-performance Heating Block/Dry Bath Incubator, *"WisblokBath™ SHB-96D"*, Heating, Dual-type with Fuzzy Control, Molded Heater, Modular Anodized Aluminum Blocks, Acrylic Lid, Touch-button Controller, up to 150℃, ±0.1℃

히팅 블럭, 디지털 퍼지 컨트롤 시스템, 듀얼 조절기/블럭, 일체형 주물 히터, 블럭 교체 가능, 아크릴 리드/ 블럭용 집게 포함



Heating Block/Dry Bath, Dual Control System
"WisblokBath™ SHB-96D-set"

- ■ ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Designed for Multi-functional Dry Block Heater***
- ■ ***Dual Controller & Block***
- ■ ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

∗ Ideal for Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures
∗ Precise Temperature Control : ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃
∗ User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0℃)
∗ Over Temperature & Over Current Protection and Sensor Error Detection
∗ Digital Timer Included : up to 99hr 59min (Operation Time + Delay Time)
∗ Storage Function of Temperature and Timer setting values ∗ Modular Block
∗ Alarm Function : Error Status and Timer-end ∗ Various kind of Blocks are offered (Optional)
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
∗ The Block Extraction Tongs and Included for Easy Handling


(3) "BLC548"


(11) "BLE101"

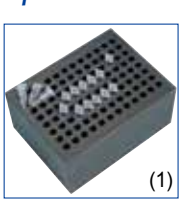
Included Anodized Aluminum Block & Tong

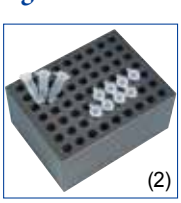
Specifications & Ordering information

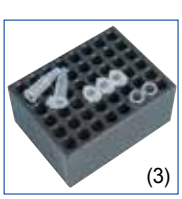
Spec. \ Model	"WisblokBath™ SHB-96D" (Only Unit)	"WisblokBath™ SHB-96D-set" (included Standard Block)
Controller	Dual Digital Fuzzy Controller	
Useful Block	Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block	None(Only Heating Block Unit)	48 holes×for 1.5/ 2ml Centri. Tube
Heater	Molded Heater(300W)×2ea	
Dimension(mm)	Unit : 285×250×h155, Block : (90×120×h60)×2ea	
Temp. Range, & Accuracy	Ambient +5℃ to 150℃, ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃	
Heat-Up Speed & Sensor	Approx. 5℃/min, PT100	
Safety Circuit	Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm	99hr 59min, Alarm (Error Status and Timer - end)	
Display	Digital LCD with Back-Light Function	
Material	Unit : Stainless-steel (#304) & Powder Coated steel, Block : Anodized Aluminum	
Included Standard Acce.	Block Tongs "BLE101" and Block Cover	
Packing Size & Gross Weight	400×270×h200 mm, 6 kg	
Power Consumption	600 W	
Electric Reqts.	1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No. 230V	**SL.SHB00198**	**SL.SHB00199**
Cat. No. 120V	**SL.SHB02198**	**SL.SHB02199**
Price, Each. ₩	624,000	912,000

∗ **Other Specifications are available upon Customer's Request.**

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)


(1)


(2)

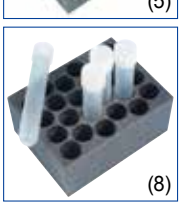

(3)


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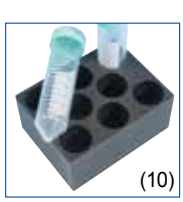

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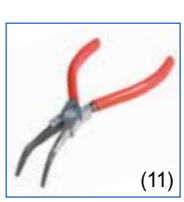

(6)


(7)


(8)


(9)


(10)


(11)

		Ea. Price, ₩
DH.WHB510596	(1) for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) for 0.5ml Centri. Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) for 1.5/2ml Centri. Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000
DH.WHB500101	(11) Spare Block Extraction Tongs, **"BLE101"**	21,000

Articles	Cat. No	Description

SciLab-brand® High-performance Heating Block/Dry Bath Incubator-Heating & Cooling, *"WisblokBath™ SHB-R48"*

with Digital PID Control, Acrylic Lid, Precise Temperature Control, Modular Anodized Aluminum Block, −5℃~95℃, ±0.1℃ Peltier Cooling System, Digital Timer & PID Control System, Interchangeable Blocks, **히팅/쿨링 블럭, 블럭 교체 가능, 아크릴 리드 포함**



"WisblokBath™ SHB-R48-Set"
with Block "BLC548" for 1.5/2ml Centrifuge Tube×48 holes


(3) "BLC548"


(11) "BLE101"

Included Anodized Aluminum Block & Tong

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Designed for Multi-Function : Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures.***
- ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

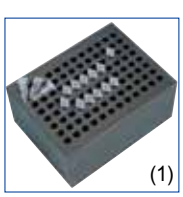
∗ User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0℃)
∗ Storage Function of Temperature and Timer setting values
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

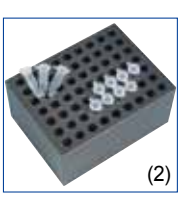
Specifications & Ordering information

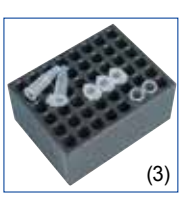
Spec. \ Model		"WisblokBath™ SHB-R48" (Only Unit)	"WisblokBath™ SHB-R48-set" (included Standard Block)
Controller		Digital Fuzzy Controller	
Useful Block		Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block		None(Only Heating Block Unit)	48 holes×for 1.5/2ml Centri. Tube
Dimension : Unit & Block		185×230×h220mm, and 90×120×h60mm	
Cooling		Two Peltier Modules	
Cool-Down Speed		2.3℃/min. between 95℃ to 25℃, 0.5℃/min. between 25℃ to -5℃	
Heater and Sensor		300W (Molded Heater), PT100	
Temp. Range, & Accuracy		−5℃ to 95℃, and ±0.1℃ at 37℃, ±0.2℃ at 90℃	
Heat-Up Speed		Approx. 5℃/min	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm		99hr 59min, Alarm (Error Status and Timer - end)	
Display		Digital LCD with Back-Light Function	
Material	Internal & External	Stainless steel (#304), and Powder Coated steel	
	Block	Anodized Aluminum	
Included Standard Acce.		Block Tongs "BLE101" and Block Cover	
Packing Size, Gross Weight		350×220×h310mm, 9 kg	
Power Consumption		450 W	
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	**SL.SHB00248**	**SL.SHB00249**
	120V	**SL.SHB02248**	**SL.SHB02249**
Price, Each. ₩		720,000	864,000

∗ **Other Specifications are available upon Customer's Request.**

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)


(1)


(2)


(3)


(4)

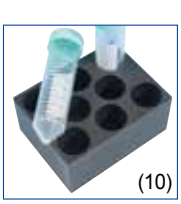

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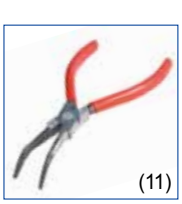

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(11)

		Ea. Price, ₩
DH.WHB510596	(1) for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) for 0.5ml Centri. Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) for 1.5/2ml Centri. Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000
DH.WHB500101	(11) Spare Block Extraction Tongs, **"BLE101"**	21,000

Articles	Cat. No	Description

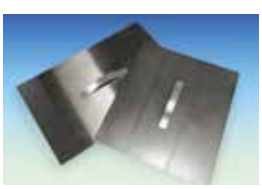
SciLab-brand® Precise High-temp Bath Circulator, *"WiseCircu® SCH"*, to 250℃, ±0.1℃, 8-/12-/22-/30- Lit NEW
with 1×Stainless-steel Flat Lid/Digital Fuzzy Control System/Certi. & Traceability, Flow 16 Lit/min, Lift 2.8m
Ideal for Reactors, etc., External Circulating Connect - od.12.5/id.10.5mm, **정밀 고온 베스겸용 고온 써큐래타**



High Temp. Bath Circulators
"WiseCircu® SCH-8" & "WiseCircu® SCH-12"



External Circulating Nozzle



Flat Lid, Included



Ex. Multi-use High Temp. Bath Circulator with Modular Reactor System

- ***Made in Korea.*** ■ ***PL (Product Liability) Insurance.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.***
- ***Advanced Heating System Ensures Temperature Performance.***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy.***
- ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 16 Lit./min.).***
- ***Controlled 5 Steps Circulation speed(Flow Rate).***
- ***Patented Jog-Dial Control System and Capacitive Touch Button.***

∗ 304 Stainless-steel Bath and Lid for Superior Durability and High Thermal Efficiency.
∗ Compensation Function to Control Difference between Real Temp. and Indicated Temp.
∗ Digital Timer Function : 'Delay Time' and 'Operation Time' can be Controlled.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled).

Specifications & Ordering information

Spec. \ Model		WiseCircu® SCH-8	WiseCircu® SCH-12	WiseCircu® SCH-22	WiseCircu® SCH-30
Bath Volume		8 Lit.	12 Lit.	22 Lit.	30 Lit.
Pump		Max Flow Rate : 16 Lit./min, (Controlled 5 Steps Flow Rate Speed), Max Pressure : 5 psi, Max Lift : 2.8m			
Temp. Range & Accuracy		Room Temp+5℃~250℃, ±0.1℃			
Temp. Resolution		0.1℃-Display, 0.5℃-Control			
Temp. Uniformity & Probe		±0.2℃, PT100			
Heating Power		1.0 kW	1.5 kW	2.2 kW	2.5 kW
Heat-up Time		50 min. to 100℃			
External Circulation Nozzle		id.10.5 / od.12.5 mm			
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end			
Display		Digital LCD with Back-Light Function			
Controller		Digital Fuzzy Controller with Jog - Dial Knob (Turn+Push)			
Safety Circuit		Over-Temp./-Current protection, Sensor Error & Low Level Detection			
Material		Stainless steel (#304)-Internal, Powder Coated steel-External, 50mm Thickness Ceramic Fiber-Insulation			
Lid & Drain Valve		included Stainless-steel Flat Lid, Ball Valve, Optional Dome Lid,			
Dimension (w×d×h)	Effective Space	180×130×h155	250×130×h155	340×250×h155	340×250×h200
	Mounted	180×320×h155	250×320×h155	340×440×h155	340×440×h200
	External	303×443×h569	373×443×h569	463×563×h569	463×563×h614
Packing Size (mm) & Gross Weight(kg)		470×400×h500 19 kg	470×400×h500 21 kg	600×490×h500 23 kg	600×490×h500 37 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	SL.SCH00408	SL.SCH00412	SL.SCH00422	SL.SCH00430
	120V	SL.SCH00508	SL.SCH00512	SL.SCH00522	SL.SCH00530
Price, Each. ₩		1,248,000	1,287,000	1,382,000	1,421,000

∗ Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 9,000 별도!**





Insulated Silicone & Teflon PFA Circulation Hose, Id Φ10 ~ 19mm, L1/1.5m NEW

■ ***Supplied by SciLab Korea*** ∗ Φ37mm Black NBR Foam Insulated Silicone or PFA-Hose
∗ Silicone Vacu-Hose : id 10×od 18mm, id 15×od 20mm, id 18×od 25mm, 220℃
∗ PTFE Hose : id 10×od 12mm, id 15×od 16mm, id 19×od 20mm, -100 + 260℃ ∗ SL.Tub4031 & SL.Tub4032 : PFA Hose

(1) Insulated Silicone Hose, 220℃

		dh	Pk.	Price,₩
SL.Tub4021	Sili-hose, id 10mm, L1m	1m		21,700
SL.Tub4022	, L1.5m	1.5m		24,200
SL.Tub4023	, id 15mm, L1m	1m		27,000
SL.Tub4024	, L1.5m	1.5m		32,200
SL.Tub4025	, id 18mm, L1m	1m		34,700
SL.Tub4026	, L1.5m	1.5m		43,500

(2) Insulated PFA Hose, 260℃

		dh	Pk.	Price,₩
SL.Tub4031	PFA-hose, id 10mm, L1m	1m		32,800
SL.Tub4032	, L1.5m	1.5m		40,900
SL.Tub4033	PTFE-hose, id 15mm, L1m	1m		35,500
SL.Tub4034	, L1.5m	1.5m		45,100
SL.Tub4035	, id 19mm, L1m	1m		44,900
SL.Tub4036	, L1.5m	1.5m		46,500

(3) Best Insulatedly & Flexible Stainless-steel Circulation Hose, Id Φ17mm, L1m, 360℃

		Ea.	Price,₩
SL.Tub7021	Flexible Stainless-steel Circulation Hose, id 17×od 60mm, L1m		849,420

SciLab-brand® −30℃+200℃ Precise Refrigerated Heating External Circulators, *"WiseCircu® SHR"*, Lift 38m, ±0.2℃

Ideal for 5~100 Lit Reactors, Heating Line, etc., with Pre-Cooling Sys, Can be used with External Direct Contact K-type Temp. Probe(Optional) with High Quality Magnetic Pump, Flow 20-/40-/60-Lit/min, **정밀 고온/냉동 겸용 외부 써큐레타** NEW



−30℃~ +200Refrigerated/Heating External Circulator, "WiseCircu® SHR-50"

- ■ *Made in Korea* ■ *PL (Product Liability) Insurance* ■ *Max. Lift : 38m*
- ■ *Ideal for Various Size Reactor-system.* ■ *Built in Magnetic Pump ensures Long-life Time.*
- ■ *with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*
- ■ *Digital Fuzzy Control System Implementing Superior Temperature Accuracy*
- ■ *Can be used with External Direct Contact K-type Temp. Probe(Optional)*
- ■ *Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 20-/40-/60-Lit./min.)*
- ■ *Assembly-type Safety Connection Ports/Pipe (for Fluid In/Out-let : ISO RC 1" Screw Stainless-steel.)*
- ■ *Patented Jog-Dial Control System and Digital LCD with Back-Light Function.*
- ■ *With High Quality Shock-proof Caster for Convenient and Safe Moving.*
- ■ *Independently 3-systems : Refrigerating System, Heating System, Pre-Cooling System.*
- ■ *Embedded External Nozzle Part for the Prevention of Nozzle Damaged.*
- ■ *Stainless-steel Internal Bath for Prevention of Corrosion.*

∗ Urethane Foam Insulation ∗ Warning and Auto-Stop Function in case of Liquid Shortage.
∗ More Faster Cool-down and Heat-up Time ∗ Connection with Evaporator or Viscometer is applicable.
∗ Wide-range Filling Volume 10Lit./18Lit./25Lit. ∗ Useful for 5~100Lit. Various Reactors and Evaporators.
∗ High Quality Magnetic Pump : Max Flow Rate 20-/40-/60-Lit/min and Max. Pressure 4 bar



Assembly-type Safety Connection Ports/Pipe, for Fluid In/Out-let ; ISO RC 1" Thread, Located On Rear-Upper Pannel

Specifications & Ordering information

Spec. \ Model		WiseCircu® SHR-20	WiseCircu® SHR-50	WiseCircu® SHR-100
Temp. Range & Stability		−30℃~ +200℃-Range, ±0.2℃(at 15℃)-Stability		
Heat-Fluid Filling Volume		10 Lit. max	18 Lit. max	25 Lit. max
Useful for 5~100Lit Reactors, etc.		for 5~20Lit Reactor, etc.	for 20~50Lit Reactor, etc.	for 50~100Lit Reactor, etc.
Refrigerator Capacity		4.5 kW	7.5 kW	18 kW
Heater		2.5 kW	6.0 kW	12 kW
Lid & Top Opening Dia.		Φ80 mm		
Fluid In/Out-let Connector		ISO RC 1" (English System AG 1") Thread, Stainless-steel		
Pump Power, Lift Height, m	Max. Flow Rate	20 Lit/min	40 Lit/min	60 Lit/min
	Max. Pressure & Lift	Max Pressure : 4 bar, Max. Lift : 38m		
Cooling Capacity	at +15℃	8.1 kW	13.1 kW	22.7 kW
	at 0℃	4.3 kW	7.3 kW	12.6 kW
	at −25℃	1.4 kW	3.1 kW	5.45 kW
External Dimension		550×630×h1060 mm	700×790×h1270 mm	770×1100×h1500 mm
Optional External Temp. Sensor K-type Probe		Can be used with External Direct Contact K-type Temp. Probe. (Optional)		
Material		Stainless steel-Internal, Powder Coated steel-External		
Electrical Reqts.		1 Phase 230 V, 50 / 60 Hz or 3Phase 380V		
Cat. No.	230V	SL.SHR0020	-	-
	3 Phase	-	SL.SHR0050	SL.SHR0100
Price, Each. ₩		9,019,000	11,992,000	17,740,000

∗ Other Specifications are available upon Customer's Request. ※ 운임 약 ₩ 20,000 별도!



▶ Figure ; One of the Applications in the Reactor System.

Therminol D12® −85+230℃ Best COOL-/HEAT-ing Transfer Fluid, Synthetic Hydrocarbon Mixture NEW

for Low/High-Temp Baths, Clearly Harmless Liquid, Low Odor FDA Grade, 4/18/200Lit, **냉매/열매 겸용 합성 탄화수소물액체**



(1) 4Lit



(2) 18Lit

- ■ *Supplied by "Eastman" USA* ■ *Clear, Water white Liquid / Non-Toxic / Low-Smell, FDA-Grade.*
- ■ *The Best Circulation Properties / Thermal Stability.*
- ■ *The Lowest Viscosity, cP ▶ (1) -50℃ : 12cP, (2) 100℃ : 0.46cP, (3) 200℃ : 0.19cP, (4) 230℃ : 0.16cP*

∗ Specific Gravity : 0.759 at 25℃ ∗ Autoignition Temp : 247℃ ∗ Flash Point : 62℃
∗ Freezing Point : -94℃ ∗ Boiling Point(90%) : 204℃
∗ Package : (1) 4Lit. and (2) 18Lit. PE Square Bottle / Subdivision, Original-200Lit. Steel Drum / 155kg

		4ℓ.dh pk ₩
SL.CirD12.1	(1) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 4 Lit.	4Lit 230,870
		18ℓ.dh pk ₩
SL.CirD12.2	(2) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 18Lit.	18Lit 789,170
	※ 운임 약 ₩ 25,000 별도!	Drum Price,₩
SL.CirD12	"Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 200Lit./Drum	200Lit 6,171,000

SciLab Korea

Heating Mantle

SciLab® YOUR LAB-FRIEND

For Beaker - Basic-type ····· P. 77
- Stirring-type ····· P. 77
For Flask - Basic-type ····· P. 78
- Stirring-type ····· P. 78
- Remote Control ····· P. 79~80
Fabric Housing ····· P. 80
Reaction Vessel - Basic-type ····· P. 81
- Stirring-type ····· P. 81
- Remote Control ····· P. 82
Heating Tape and Custom Made ····· P. 84
Heating Product Controller ····· P. 85
Soxhlet/Extraction ····· P. 83



Beaker Basic-type
"Man8015"



Beaker Stirring-type
"Man8025"



Flask Basic-type
"Man8034"



Flask Stirring-type
"Man8054"



Flask High Temp-type
"Man8093"



Fabric Housing
"Man8105"



Fabric Housing
"Man8114"

Analog Compact Controller
"WHM-C10A"



Digital Feedback Controller
"WHM-C10D"



Reaction Flask
"Man8233"



Reaction Vessel
"Man8153"



Reaction Vessel
"Man8180"



Analog 6 places Heating Mantle
"Man8251"

Articles	Cat. No	Description

SciLab-brand® Aluminum-case Beaker Heating Mantles, (1) Basic & (2) Stirring-type, 450℃, 100~5,000㎖

with Built-in Temp Controller, with/without Mag-stir Speed Control, with Certi. & Traceability.

비이커용 히팅맨틀, 온도 조절기 내장, "기본형" 및 "자석교반형", Ni-Cr열선 내장

- ***Made in Korea***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***
- ***Ideal for All type Beakers***



(1) Basic-type Beaker Mantle with Controller

(1) Basic-type Beaker Mantles, Built-in Temp. Controller

∗ With a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.

Beakers, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
100ml, Φ50~52	80 W	40 mm	Φ145×H140	**SL.Man8010**	**SL.Man8010.1**	96,000
250ml, Φ68~70	140 W	65 mm	Φ145×H140	**SL.Man8011**	**SL.Man8011.1**	100,000
400ml, Φ79~81	240 W	70 mm	Φ145×H140	**SL.Man8012**	**SL.Man8012.1**	103,000
600ml, Φ88~90	240 W	75 mm	Φ145×H140	**SL.Man8013**	**SL.Man8013.1**	105,000
800ml, Φ98~100	300 W	90 mm	Φ190×H165	**SL.Man8014**	**SL.Man8014.1**	121,000
1,000ml, Φ105~108	350 W	90 mm	Φ190×H165	**SL.Man8015**	**SL.Man8015.1**	124,000
2,000ml, Φ130~132	450 W	125 mm	Φ199×H190	**SL.Man8016**	**SL.Man8016.1**	137,000
3,000ml, Φ151~153	550 W	160 mm	Φ270×H235	**SL.Man8017**	**SL.Man8017.1**	165,000
4,000ml, Φ160~162	700 W	160 mm	Φ270×H235	**SL.Man8018**	**SL.Man8018.1**	172,000
5,000ml, Φ169~171	800 W	160 mm	Φ270×H235	**SL.Man8019**	**SL.Man8019.1**	193,000



(2) Stirring-type Beaker Mantle with a Stir-Bar

(2) Stirring-type Beaker Mantles, Built-in 50~75rpm Mag-stir Speed & Temp. Controller

∗ With a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.
∗ With 1ea × PTFE Octagonal Magnetic Stirrer Bar, L38mm

Beakers, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
100ml, Φ50~52	80 W	45 mm	Φ145×H140	**SL.Man8020**	**SL.Man8020.1**	261,000
250ml, Φ68~70	140 W	70 mm	Φ190×H165	**SL.Man8021**	**SL.Man8021.1**	273,000
400ml, Φ79~81	240 W	70 mm	Φ190×H165	**SL.Man8022**	**SL.Man8022.1**	274,000
600ml, Φ88~90	240 W	72 mm	Φ190×H165	**SL.Man8023**	**SL.Man8023.1**	278,000
1,000ml, Φ105~108	350 W	105 mm	Φ190×H190	**SL.Man8025**	**SL.Man8025.1**	284,000
2,000ml, Φ130~132	450 W	140 mm	Φ270×H235	**SL.Man8026**	**SL.Man8026.1**	308,000
3,000ml, Φ151~153	550 W	140 mm	Φ270×H235	**SL.Man8027**	**SL.Man8027.1**	314,000
4,000ml, Φ160~162	700 W	170 mm	Φ325×H270	**SL.Man8028**	**SL.Man8028.1**	383,000
5,000ml, Φ169~171	800 W	170 mm	Φ325×H270	**SL.Man8029**	**SL.Man8029.1**	383,000



(3) Stand Rod, "RD300", Φ12.7×L520mm

(4) Holder / Clamp / Clip for Temp. Probe

Optional Stainless-steel Rod, Holder & Clamp

		Ea. Price, ₩
DH.WHP503037	(3) Stand Rod, Φ12.7×L520mm, **"RD300"**, for Heating Mantles	16,000
DH.WHP503012	(4) Holder & Clamp, **"CL220"**, for Temp. Sensor	25,000

Articles	Cat. No	Description

SciLab-brand® Aluminium-case Flask Heating Mantles, (1) Basic & (2) Stirring-type, 450℃, 50~20,000㎖
with Built-in Temp Controller, with/without Mag-stir Speed Control, with Certi. & Traceability
라운드플라스크용 히팅맨틀, 온도 조절기 내장, "기본형" 및 "자석교반형", Ni-Cr열선 내장

- ***Made in Korea***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***
- ***Ideal for All type Round Flask***
- ***With Powder-coated Steel-case : 10-/20-Lit.***



(1) Basic-type Flask Mantle with Controller





(2) Stirring-type Flask Mantle with a Stir-Bar

(1) Basic-type Flask Mantles, Built-in Temp. Controller

∗ Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.

Flasks, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
50ml, Φ49~52	90 W	30 mm	Φ145×H140	**SL.Man8030**	**SL.Man8030.1**	94,000
100ml, Φ63~66	90 W	50 mm	Φ145×H140	**SL.Man8031**	**SL.Man8031.1**	94,000
250ml, Φ83~86	160 W	55 mm	Φ145×H140	**SL.Man8032**	**SL.Man8032.1**	97,000
500ml, Φ102~105	250 W	70 mm	Φ190×H165	**SL.Man8033**	**SL.Man8033.1**	117,000
1,000ml, Φ130~133	350 W	85 mm	Φ190×H165	**SL.Man8034**	**SL.Man8034.1**	121,000
2,000ml, Φ165~169	490 W	100 mm	Φ270×H200	**SL.Man8035**	**SL.Man8035.1**	146,000
3,000ml, Φ184~187	600 W	110 mm	Φ270×H200	**SL.Man8036**	**SL.Man8036.1**	159,000
4,000ml, Φ206~208	750 W	140 mm	Φ325×H226	**SL.Man8037**	**SL.Man8037.1**	215,000
5,000ml, Φ221~225	850 W	130 mm	Φ325×H226	**SL.Man8038**	**SL.Man8038.1**	215,000
6,000ml, Φ234~237	850 W	130 mm	Φ325×H226	**SL.Man8039**	**SL.Man8039.1**	221,000
10Lit, Φ278~282	1,500 W	205 mm	Φ400×H260	**SL.Man8040**	**SL.Man8040.1**	388,000
20Lit, Φ344~350	2,000 W	220 mm	Φ460×H280	**SL.Man8041**	**SL.Man8041.1**	653,000

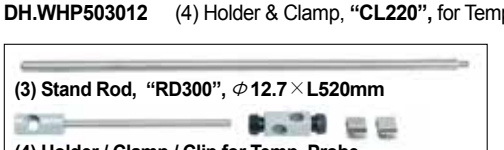
(2) Stirring-type Flask Mantles, Built-in 50~75rpm Mag-stir Speed & Temp. Controller

∗ Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.
∗ 10-/20-Lit. models Square-type Outside Shape.
∗ With 1ea×PTFE Oval-type Magnetic Stirrer Bar, L25mm.

Flasks, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
50ml, Φ49~52	90 W	45 mm	Φ145×H140	**SL.Man8050**	**SL.Man8050.1**	261,000
100ml, Φ63~66	90 W	45 mm	Φ145×H140	**SL.Man8051**	**SL.Man8051.1**	261,000
250ml, Φ83~86	160 W	45 mm	Φ145×H140	**SL.Man8052**	**SL.Man8052.1**	261,000
500ml, Φ102~105	250 W	70 mm	Φ190×H165	**SL.Man8053**	**SL.Man8053.1**	278,000
1,000ml, Φ130~133	350 W	90 mm	Φ190×H190	**SL.Man8054**	**SL.Man8054.1**	284,000
2,000ml, Φ165~169	490 W	105 mm	Φ270×H200	**SL.Man8055**	**SL.Man8055.1**	302,000
3,000ml, Φ184~187	600 W	105 mm	Φ270×H200	**SL.Man8056**	**SL.Man8056.1**	310,000
4,000ml, Φ206~208	750 W	135 mm	Φ325×H226	**SL.Man8057**	**SL.Man8057.1**	378,000
5,000ml, Φ221~224	850 W	130 mm	Φ325×H226	**SL.Man8058**	**SL.Man8058.1**	378,000
6,000ml, Φ234~237	850 W	130 mm	Φ325×H226	**SL.Man8059**	**SL.Man8059.1**	380,000
10Lit, Φ278~282	1,500 W	210 mm	440×510×h310	**SL.Man8060**	**SL.Man8060.1**	914,000
20Lit, Φ344~348	2,000 W	230 mm	440×550×h330	**SL.Man8061**	**SL.Man8061.1**	On Request

Optional Stainless-steel Rod, Holder & Clamp

		Ea. Price, ₩
DH.WHP503037	(3) Stand Rod, Φ12.7×L520mm, **"RD300",** for Heating Mantles	16,000
DH.WHP503012	(4) Holder & Clamp, **"CL220",** for Temp. Sensor	25,000



(3) Stand Rod, "RD300", Φ12.7×L520mm

(4) Holder / Clamp / Clip for Temp. Probe

Articles	Cat. No	Description

SciLab-brand® Remotecontrolled Flask Heating Mantles, (1) 450℃ Basic & (2) 650℃ High Temp-type, 50㎖~100Lit.

for Spherical Flask, with Nickel Chrome Heating Element, K-type Thermo-Sensor Integrated, with Certi. & Traceability, Option-Controller

라운드플라스크용 히팅맨틀, K-type 온도센서, Ni-Cr열선 내장, 자력교반기와 사용가능, 조절기 별도

- ***Made in Korea***
- ***Ideal for All type Round Flask and Use with Magnetic Stirrer***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Optional Remote Thermo Controller, K-type Themo-Senser, and Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***
- ***Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.***



(1) 450℃ Basic-type

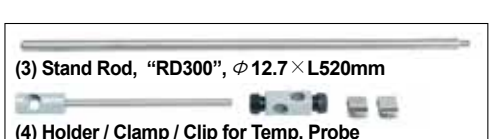


(2) 650℃ High Temp.-type









(3) Stand Rod, "RD300", Φ12.7×L520mm

(4) Holder / Clamp / Clip for Temp. Probe

(1) 450℃ Basic-type, 50㎖~100Lit.

① with Aluminum-case, 50~6000ml ② with Powder-coated Steel-case, 10~100Lit.

Flasks, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
50ml, Φ49~52	90 W	30 mm	Φ145×H75	SL.Man8070	SL.Man8070.1	69,000
100ml, Φ63~66	90 W	50 mm	Φ145×H75	SL.Man8071	SL.Man8071.1	69,000
250ml, Φ83~86	160 W	50 mm	Φ145×H75	SL.Man8072	SL.Man8072.1	76,000
500ml, Φ102~105	250 W	55 mm	Φ190×H80	SL.Man8073	SL.Man8073.1	86,000
1,000ml, Φ130~133	350 W	85 mm	Φ190×H110	SL.Man8074	SL.Man8074.1	96,000
2,000ml, Φ165~169	490 W	105 mm	Φ270×H135	SL.Man8075	SL.Man8075.1	119,000
3,000ml, Φ184~187	600 W	110 mm	Φ270×H135	SL.Man8077	SL.Man8077.1	128,000
4,000ml, Φ206~208	750 W	135 mm	Φ325×H165	SL.Man8078	SL.Man8078.1	177,000
5,000ml, Φ221~224	850 W	130 mm	Φ325×H165	SL.Man8079	SL.Man8079.1	177,000
6,000ml, Φ234~237	850 W	130 mm	Φ325×H165	SL.Man8080	SL.Man8080.1	177,000
10Lit, Φ278~282	1,500 W	205 mm	Φ390×H240	SL.Man8081	SL.Man8081.1	349,000
20Lit, Φ344~348	2,000 W	220 mm	Φ460×H280	SL.Man8082	SL.Man8082.1	592,000
50Lit, Φ489~494	4,000 W	310 mm	Φ610×H390	SL.Man8083	SL.Man8083.1	1,005,000
100Lit, Φ609~614	6,000 W	370 mm	Φ740×H450	SL.Man8084	SL.Man8084.1	On Request

(2) 650℃ High Temp-type, 100㎖~10Lit.

① with Aluminum-case, 100~6000ml ② with Powder-coated Steel-case, 10Lit.

Flasks, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
100ml, Φ63~66	160 W	50 mm	Φ145×H75	SL.Man8090	SL.Man8090.1	117,000
250ml, Φ83~86	250 W	50 mm	Φ145×H75	SL.Man8091	SL.Man8091.1	129,000
500ml, Φ102~105	350 W	55 mm	Φ190×H80	SL.Man8092	SL.Man8092.1	140,000
1,000ml, Φ130~133	490 W	85 mm	Φ190×H110	SL.Man8093	SL.Man8093.1	188,000
2,000ml, Φ165~169	600 W	105 mm	Φ270×H135	SL.Man8094	SL.Man8094.1	256,000
3,000ml, Φ184~187	750 W	105 mm	Φ270×H135	SL.Man8096	SL.Man8096.1	287,000
4,000ml, Φ206~208	850 W	125 mm	Φ325×H165	SL.Man8097	SL.Man8097.1	354,000
5,000ml, Φ221~224	1,500 W	130 mm	Φ325×H165	SL.Man8098	SL.Man8098.1	354,000
6,000ml, Φ234~237	1,500 W	130 mm	Φ325×H165	SL.Man8099	SL.Man8099.1	395,000
10Lit, Φ278~282	2,000 W	160 mm	Φ400×H260	SL.Man8100	SL.Man8100.1	On Request

Optional Remote Controller

	Cat. No		Ea. Price, ₩
	with 230V	with 120V	
(a) Analog Remote Controller, 5~100% of Rated Voltage, Up to 1.2kW	DH.WHM13500	DH.WHM23500	112,000
(b) Digital Remote Controller, Ambient +5 ~ 700℃, ±1℃ Uniformity at Set Temp.	DH.WHM12500	DH.WHM22500	232,000

Optional Temp. Probes & Stand Rod, Holder, Clamp for Digital Temp. Remote Controller

		Ea. Price, ₩
DH.WHP503040	Direct Contact Temp. Probe, K-type, **"SS300"**, L250×Φ 4.8 mm	62,000
DH.WHP503050	, **"SS400"**, L380×Φ 4.8 mm	65,000
DH.WHP503041	Direct Contact Temp. Probe, K-type, **"SS310"**, Teflon Coated, L250×Φ5 mm	113,000
DH.WHP503051	Direct Contact Temp. Probe, K-type, **"SS410"**, Teflon Coated, L380×Φ5 mm	113,000
DH.WHP503037	(3) Stand Rod, Φ12.7×L520mm, **"RD300"**, for Heating Mantles	16,000
DH.WHP503012	(4) Holder & Clamp, **"CL220"**, for Temp. Sensor	25,000

Articles	Cat. No	Description

SciLab-brand® Remotecontrolled Reaction Flasks Heating Mantle, Bottom Outlet-type, 450℃, 2,000㎖~50Lit.

with Nickel Chrome Heating Element, K-type Thermo-sensor Integrated, with Certi. & Traceability, Option-Controller

반응조용 히팅맨틀, 반응조 라운드 플라스크용, K-type 온도센서, Ni-Cr열선 내장, 조절기 별도



- ***Made in Korea*** ■ ***Ideal for All type Reaction Flasks***
- ***Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***
- ***With a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.***
- ***Optional Remote Thermo Controller, K-type Themo-Senser***

Flasks, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
2,000ml, Φ165~169	550 W	110 mm	Φ270×H135	SL.Man8222	SL.Man8222.1	174,000
3,000ml, Φ184~187	800 W	130 mm	Φ325×H165	SL.Man8232	SL.Man8232.1	215,000
5,000ml, Φ222~226	800 W	135 mm	Φ325×H165	SL.Man8233	SL.Man8233.1	245,000
10Lit, Φ278~282	1400 W	200 mm	Φ400×H250	SL.Man8226	SL.Man8226.1	407,000
20Lit, Φ348~352	2000 W	230 mm	Φ440×H290	SL.Man8227	SL.Man8227.1	671,000
50Lit, Φ480~484	4000 W	300 mm	Φ625×H360	SL.Man8228	SL.Man8228.1	1,117,000

SciLab-brand® Fabric-Housed Heating Mantles, (1) Self Standing-base & (2) Top Cover, 450℃, 50㎖~100Lit.

for Spherical Flask, with Nickel Chrome Heating Element, Option-Controller, with Certi. & Traceability

직물케이스 히팅맨틀, Ni-Cr열선 내장, 자력교반기와 사용가능, 조절기 별도

- ***Made in Korea*** ■ ***Ideal for All type Round Flask and Use with Magnetic Stirrer***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***



(1) Self Standing-base

(1) Self Standing-base Mantle

Flasks, ml Dia. Φ mm	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(mm)	with 230V	with 120V	
50ml, Φ49~52	90 W	30 mm	Φ100×H50	SL.Man8101	SL.Man8101.1	30,000
100ml, Φ63~66	90 W	50 mm	Φ120×H70	SL.Man8102	SL.Man8102.1	30,000
250ml, Φ83~86	160 W	55 mm	Φ150×H80	SL.Man8103	SL.Man8103.1	38,000
500ml, Φ102~105	250 W	75 mm	Φ180×H100	SL.Man8104	SL.Man8104.1	39,000
1,000ml, Φ130~133	350 W	90 mm	Φ210×H115	SL.Man8105	SL.Man8105.1	48,000
2,000ml, Φ165~169	490 W	105 mm	Φ250×H130	SL.Man8106	SL.Man8106.1	65,000
3,000ml, Φ184~187	600 W	115 mm	Φ270×H140	SL.Man8107	SL.Man8107.1	72,000
4,000ml, Φ206~208	750 W	120 mm	Φ310×H160	SL.Man8108	SL.Man8108.1	90,000
5,000ml, Φ221~224	850 W	135 mm	Φ310×H160	SL.Man8109	SL.Man8109.1	90,000
6,000ml, Φ234~237	850 W	135 mm	Φ310×H160	SL.Man8110	SL.Man8110.1	90,000
10Lit, Φ278~282	1,500 W	205 mm	Φ390×H260	SL.Man8111	SL.Man8111.1	282,000



<Ex.>(2) Top Cover with (1) Self Standing-base

(2) Top Cover only

Flasks, ml Dia. Φ mm	Mantle		Catalog No.		Ea. Price, ₩
	Watts (W)	Outside Φ × H(mm)	with 230V	with 120V	
250ml, Φ83~86	90 W	Φ136×H70	SL.Man8112	SL.Man8112.1	102,000
500ml, Φ102~105	160 W	Φ160×H77	SL.Man8113	SL.Man8113.1	113,000
1,000ml, Φ130~133	250 W	Φ183×H90	SL.Man8114	SL.Man8114.1	153,000
2,000ml, Φ165~169	350 W	Φ220×H107	SL.Man8115	SL.Man8115.1	204,000
3,000ml, Φ184~187	490 W	Φ236×H210	SL.Man8116	SL.Man8116.1	224,000
4,000ml, Φ206~208	490 W	Φ260×H130	SL.Man8117	SL.Man8117.1	265,000
5,000ml, Φ221~224	600 W	Φ280×H140	SL.Man8118	SL.Man8118.1	265,000
10Lit, Φ278~282	850 W	Φ350×H170	SL.Man8119	SL.Man8119.1	367,000
20Lit, Φ344~348	1,500 W	Φ420×H210	SL.Man8120	SL.Man8120.1	468,000
50Lit, Φ489~494	2,000 W	Φ590×H290	SL.Man8121	SL.Man8121.1	On Request
100Lit, Φ609~614	2,000 W	Φ700×H340	SL.Man8122	SL.Man8122.1	On Request





Optional Remote Controller

(a) Analog Remote Controller, 5~100% of Rated Voltage, Up to 1.2kW
(b) Digital Remote Controller, Ambient +5 ~ 700℃,
±1℃ Uniformity at Set Temp.

Cat. No.		Ea. Price, ₩
with 230V	with 120V	
DH.WHM13500	DH.WHM23500	112,000
DH.WHM12500	DH.WHM22500	232,000

SciLab-brand® Reaction Vessel Heating Mantles, (1) Basic & (2) Stirring-type, 450℃, 100㎖~100Lit.

with Built-in Temp Controller, with/without Mag-stir Speed Control, with Certi. & Traceability

반응조용 히팅맨틀, 온도 조절기 내장, "기본형" 및 "자석교반형", Ni-Cr열선 내장

- ***Made in Korea*** ■ ***Powder-coated Steel Housing*** ■ ***Ideal for All type Reaction Vessel***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***
- ***Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.***



(1) Basic-type Reaction Vessel Mantle with Temp. Controller

(1) Basic-type Reaction Vessel Mantles, Built-in Temp. Controller

① with Aluminum-case, 100~500ml ② with Powder-coated Steel-case, 1000ml ~ 100Lit.

Vessels, ml Dia. Φ × H(cm)	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(cm)	with 230V	with 120V	
100ml, Φ7×H9	80 W	6.5 cm	Φ14.5×H14.0	SL.Man8130	SL.Man8130.1	96,000
250ml, Φ7×H13	140 W	9.0 cm	Φ19.0×H16.5	SL.Man8131	SL.Man8131.1	119,000
500ml, Φ11×H12	350 W	9.0 cm	Φ19.0×H16.5	SL.Man8015	SL.Man8015.1	124,000
1,000ml, Φ11×H20	350 W	16.0 cm	Φ19.0×H26.0	SL.Man8133	SL.Man8133.1	123,000
2,000ml, Φ13×H24	450 W	18.5 cm	Φ19.0×H26.0	SL.Man8134	SL.Man8134.1	137,000
2,000ml, Φ14×H27	550 W	24.5 cm	Φ20.6×H30.0	SL.Man8135	SL.Man8135.1	153,000
3,000ml, Φ13×H32	550 W	24.5 cm	Φ19.0×H32.0	SL.Man8136	SL.Man8136.1	174,000
4,000ml, Φ20×H29	800 W	23.5 cm	Φ32.5×H30.0	SL.Man8138	SL.Man8138.1	204,000
5,000ml, Φ20×H29	800 W	23.5 cm	Φ32.5×H30.0			
6,000ml, Φ21.5×H32	800 W	23.5 cm	Φ32.5×H30.0	SL.Man8139	SL.Man8139.1	224,000
10Lit, Φ21.5×H45	1,400 W	35.0 cm	Φ35.0×H40.0	SL.Man8140	SL.Man8140.1	407,000
10Lit, Φ24×H41	1,400 W	33.0 cm	Φ35.0×H36.0	SL.Man8141	SL.Man8141.1	407,000
20Lit, Φ25×H47	2,000 W	40.0 cm	Φ35.0×H45.0	SL.Man8142	SL.Man8142.1	712,000
20Lit, Φ27×H45	2,000 W	35.0 cm	Φ40.0×H40.0	SL.Man8143	SL.Man8143.1	653,000
20Lit, Φ29×H42	2,000 W	35.0 cm	Φ40.0×H40.0	SL.Man8144	SL.Man8144.1	653,000
50Lit, Φ31.5×H81	4,000 W	67.0 cm	Φ44.0×H75.0	SL.Man8145	SL.Man8145.1	1,077,000
100Lit, Φ41.5×H91	6,000 W	75.0 cm	Φ55.0×H83.0	SL.Man8146	SL.Man8146.1	1,929,000

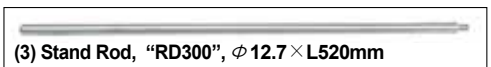


(2) Stirring-type Reaction Vessel Mantle with Temp.-/Stirring-Controller and 1× Mag Stir bar

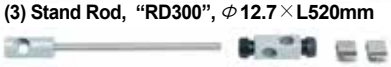
(2) Stirring-type Reaction Vessel Mantles, Built-in 50~75rpm Mag-stir Speed & Temp. Controller

∗ With 1ea×PTFE Oval-type Magnetic Stirrer Bar, L25mm.
∗ 10-/20-Lit. models Square-type Outside Shape.
① with Aluminum-case, 100~500ml ② with Powder-coated Steel-case, 1000ml ~ 20Lit.

Vessels, ml Dia. Φ × H(cm)	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(cm)	with 230V	with 120V	
100ml, Φ7×H9	80 W	7.0 cm	Φ14.5×H16.5	SL.Man8150	SL.Man8150.1	285,000
250ml, Φ7×H13	140 W	9.0 cm	Φ14.5×H18.5	SL.Man8151	SL.Man8151.1	285,000
500ml, Φ11×H12	240 W	9.5 cm	Φ19.0×H19.0	SL.Man8152	SL.Man8152.1	285,000
1,000ml, Φ11×H20	350 W	16.5 cm	Φ19.0×H26.0	SL.Man8153	SL.Man8153.1	305,000
2,000ml, Φ13×H24	450 W	16.5 cm	Φ19.0×H26.0	SL.Man8154	SL.Man8154.1	326,000
2,000ml, Φ14×H27	550 W	22.5 cm	Φ20.6×H30.0	SL.Man8155	SL.Man8155.1	347,000
3,000ml, Φ13×H32	550 W	22.5 cm	Φ19.0×H32.0	SL.Man8156	SL.Man8156.1	347,000
4,000ml, Φ20×H29	800 W	23.5 cm	Φ32.5×H30.0	SL.Man8158	SL.Man8158.1	366,000
5,000ml, Φ20×H29	800 W	23.5 cm	Φ32.5×H30.0			
6,000ml, Φ21.5×H32	800 W	23.5 cm	Φ32.5×H30.0	SL.Man8159	SL.Man8159.1	386,000
10Lit, Φ21.5×H45	1400 W	40.0 cm	35×46×h48	SL.Man8160	SL.Man8160.1	935,000
10Lit, Φ24×H41	1400 W	37.0 cm	35×46×h39.5	SL.Man8161	SL.Man8161.1	914,000
20Lit, Φ25×H47	2000 W	48.5 cm	35×46×h56.5	SL.Man8162	SL.Man8162.1	1,219,000



(3) Stand Rod, "RD300", Φ12.7×L520mm



(4) Holder / Clamp / Clip for Temp. Probe

Optional Stainless-steel Rod, Holder & Clamp

		Ea. Price, ₩
DH.WHP503037	(3) Stand Rod, Φ12.7×L520mm, **"RD300",** for Heating Mantles	16,000
DH.WHP503012	(4) Holder & Clamp, **"CL220",** for Temp. Sensor	25,000

Articles	Cat. No	Description

SciLab-brand® Remotecontrolled Reaction Vessel Heating Mantles, (1)Plain Bottom & (2)Bottom Outlet-type, 450℃, 100㎖~100Lit.

with Nickel Chrome Heating Element, K-type Thermo-Sensor Integrated,with Certi. & Traceability, Option-Controller

반응조용 히팅맨틀, K-type 온도센서, Ni-Cr열선 내장, 자력교반기와 사용가능, 조절기 별도

- ***Made in Korea*** ■ ***Powder-coated Steel Housing.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Optional Remote Thermo Controller, K-type Themo-Senser, and Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.***
- ***Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod Φ12.7 mm for Article Support.***



(1) Plain Bottom-type Remotecontrolled Reaction Vessel Heating Mantle

(1) Plain Bottom-type

Vessels, ml Dia. Φ × H(cm)	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(cm)	with 230V	with 120V	
100ml, Φ7×H9	80 W	6.5cm	Φ14.5×11.0	SL.Man8170	SL.Man8170.1	72,000
250ml, Φ7×H13	140 W	10.5cm	Φ14.5×14.0	SL.Man8171	SL.Man8171.1	77,000
500ml, Φ11×H12	240 W	9.0cm	Φ19.0×13.5	SL.Man8172	SL.Man8172.1	86,000
1,000ml, Φ11×H20	350 W	14.0cm	Φ19.0×16.5	SL.Man8173	SL.Man8173.1	102,000
2,000ml, Φ13×H24	450 W	16.5cm	Φ19.0×19.0	SL.Man8174	SL.Man8174.1	112,000
2,000ml, Φ14×H27	550 W	20.5cm	Φ20.6×22.0	SL.Man8175	SL.Man8175.1	123,000
3,000ml, Φ13×H32	550 W	26.5cm	Φ19.0×29.0	SL.Man8176	SL.Man8176.1	140,000
4,000ml, Φ20×H29	800 W	21.0cm	Φ27.0×22.5	SL.Man8178	SL.Man8178.1	164,000
5,000ml, Φ20×H29	800 W	21.0cm	Φ27.0×22.5			
6,000ml, Φ21.5×H32	800 W	24.5cm	Φ32.5×23.5	SL.Man8179	SL.Man8179.1	183,000
10Lit, Φ21.5×H45	1400 W	32.0cm	Φ32.5×35.0	SL.Man8180	SL.Man8180.1	366,000
10Lit, Φ24×H41	1400 W	32.0cm	Φ32.5×35.0	SL.Man8181	SL.Man8181.1	366,000
20Lit, Φ25×H47	2000 W	40.0cm	Φ40.0×45.0	SL.Man8182	SL.Man8182.1	631,000
20Lit, Φ27×H45	2000 W	35.0cm	Φ40.0×40.0	SL.Man8183	SL.Man8183.1	631,000
20Lit, Φ29×H42	2000 W	35.0cm	Φ40.0×40.0	SL.Man8184	SL.Man8184.1	631,000
50Lit, Φ31.5×H81	4000 W	70.0cm	Φ44.0×75.0	SL.Man8185	SL.Man8185.1	1,057,000
100Lit, Φ41.5×H91	6000 W	75.5cm	Φ55.0×83.0	SL.Man8186	SL.Man8186.1	1,828,000

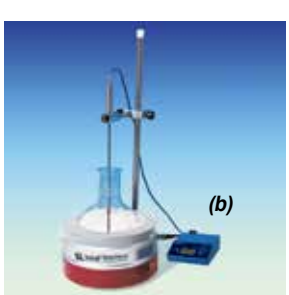


(2) Bottom Outlet-type Remotecontrolled Reaction Vessel Heating Mantle

(2) Bottom Outlet-type / with Bottom Drain Valve PTFE

∗ Bottom Outlet Hole Size : L7.2×W4.0cm(500~2,000ml) or L12.0×W7.0cm(3,000ml~100Lit.)

Vessels, ml Dia. Φ × H(cm)	Mantle			Catalog No.		Ea. Price, ₩
	Watts (W)	Inside Depth	Outside Φ × H(cm)	with 230V	with 120V	
500ml, Φ11×H12	240 W	8.5cm	Φ19.0×11.0	SL.Man8190	SL.Man8190.1	113,000
1,000ml, Φ11×H20	350 W	14.0cm	Φ19.0×16.5	SL.Man8191	SL.Man8191.1	134,000
2,000ml, Φ13×H24	450 W	16.5cm	Φ19.0×19.0	SL.Man8192	SL.Man8192.1	146,000
2,000ml, Φ14×H27	550 W	16.5cm	Φ20.6×22.0	SL.Man8193	SL.Man8193.1	164,000
3,000ml, Φ13×H32	550 W	26.5cm	Φ19.0×29.0	SL.Man8194	SL.Man8194.1	178,000
4,000ml, Φ20×H29	800 W	21.0cm	Φ27.0×22.5	SL.Man8196	SL.Man8196.1	204,000
5,000ml, Φ20×H29	800 W	21.0cm	Φ27.0×22.5			
6,000ml, Φ21.5×H32	800 W	24.5cm	Φ32.5×23.5	SL.Man8197	SL.Man8197.1	224,000
10Lit, Φ21.5×H45	1400 W	31.0cm	Φ32.5×35.0	SL.Man8198	SL.Man8198.1	407,000
10Lit, Φ24×H41	1400 W	31.0cm	Φ32.5×35.0	SL.Man8199	SL.Man8199.1	407,000
20Lit, Φ25×H47	2000 W	41.0cm	Φ40.0×45.0	SL.Man8200	SL.Man8200.1	710,000
20Lit, Φ27×H45	2000 W	35.0cm	Φ40.0×40.0	SL.Man8201	SL.Man8201.1	710,000
20Lit, Φ29×H42	2000 W	35.0cm	Φ40.0×40.0	SL.Man8202	SL.Man8202.1	710,000
50Lit, Φ31.5×H81	4000 W	70.0cm	Φ44.0×75.0	SL.Man8203	SL.Man8203.1	1,097,000
100Lit, Φ41.5×H91	6000 W	78.0cm	Φ55.0×83.0	SL.Man8204	SL.Man8204.1	1,880,000





<Ex.>
Heating Mantle Set with Temp. Probe and the Digital Feedback Temp. Controller "WHM - C10D"

Optional Remote Controller

	Cat. No		Ea. Price, ₩
	with 230V	with 120V	
(a) Analog Remote Controller, 5~100% of Rated Voltage, Up to 1.2kW	DH.WHM13500	DH.WHM23500	112,000
(b) Digital Remote Controller, Ambient +5 ~ 700℃, ±1℃ Uniformity at Set Temp.	DH.WHM12500	DH.WHM22500	232,000

Optional Temp. Probes & Stand Rod, Holder, Clamp for Digital Temp. Remote Controller

		Ea. Price, ₩
DH.WHP503040	Direct Contact Temp. Probe, K-type, **"SS300"**, L250×Φ 4.8 mm	62,000
DH.WHP503050	, **"SS400"**, L380×Φ 4.8 mm	65,000
DH.WHP503041	Direct Contact Temp. Probe, K-type, **"SS310"**, Teflon Coated, L250×Φ5 mm	113,000
DH.WHP503051	Direct Contact Temp. Probe, K-type, **"SS410"**, Teflon Coated, L380×Φ5 mm	113,000
DH.WHP503037	(3) Stand Rod, Φ12.7×L520mm, **"RD300",** for Heating Mantles	16,000
DH.WHP503012	(4) Holder & Clamp, **"CL220",** for Temp. Sensor	25,000



(3) Stand Rod, "RD300", Φ12.7×L520mm

(4) Holder / Clamp / Clip for Temp. Probe

SciLab-brand® Analog Aluminum-case Multi Heating Mantles, "WHM", with 3 & 6 Places, 450℃, with Certi. & Traceability with Glassware Supporting Rod & Clamp, Ideal for Extraction · Reflux · Distillation Applications, Lower Profile, 250~1,000㎖

3 & 6구 멀티 히팅맨틀, 추출/증류용에 적합, 조절기 내장

- ***Made in Korea***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Lower Profile for Space-saving Convenience***
- ***Ideal for Repetitive Extraction (Kjeldahl, Soxhlet and other Extraction Procedure), Reflux and Distillation Laboratory Applications***
- ***Analog Controller Built-in System***
- ***Rods and Clamps for Rods Connection***
- ***Ideal for DURAN / Kimax / Pyrex & Iwaki-brand Round Flasks***
- ***Highly-processed Aluminum Case Offers Robust Standing, Easy Handling***
- ***Nickel Chrome Heating Element - Coil Type : Acid-Resistant, Long Life Time***
- ***without Clamp & Clamp Holder for Glassware ; Order Separately***



(1) Analog 6 places Heating Mantles (SL.Man8251)

Premium Analog Multi Heating Mantles

Highly-processed Aluminum Case
Nickel Chrome Heating Element



(2) Analog 3 places Heating Mantles (SL.Man8255)

(1) 6 places Analog Multi Heating Mantle, 250㎖, 300㎖ & 500㎖, 450℃

Catalog No.		Flask Capacity (ml)	Flask		Watts(W)	Inside Depth (mm)	Dimension W×D×H (mm)	Ea. Price, ₩
with 230V	with 120V		Max. Dia. Φ (mm)	Bottom				
SL.Man8250	SL.Man8250.1	250/300	83 ~ 86	Flat	840	50	800×240×110	477,000
SL.Man8251	SL.Man8251.1	250/300	83 ~ 86	Round	840	50	800×240×110	477,000
SL.Man8252	SL.Man8252.1	500	102 ~ 105	Round	1440	65	950×270×130	478,000

(2) 3 places Analog Multi Heating Mantle, 500㎖ & 1,000㎖, 450℃

Catalog No.		Flask Capacity (ml)	Flask		Watts(W)	Inside Depth (mm)	Dimension W×D×H (mm)	Ea. Price, ₩
with 230V	with 120V		Max. Dia. Φ (mm)	Bottom				
SL.Man8255	SL.Man8255.1	500	102 ~ 105	Round	720	65	550×270×130	322,000
SL.Man8256	SL.Man8256.1	1,000	130 ~ 133	Round	1050	75	690×340×170	448,000

※ Remarks : DU. : DURAN Ki. : Kimax Iw. : Iwaki Py. : Pyrex

Spare Support Rod & Clamp Set

		Ea. Price, ₩
DH.WHM30500	Support Rod & Clamp Set, **"MHR01"**, for 3Places 500ml, 2×750-/1×500-mm Rod and 2×Clamp for Rod	30,000
DH.WHM31000	, **"MHR02"**, for 3Places 1000ml, 2×750-/1×600-mm Rod and 2×Clamp for Rod	30,000
DH.WHM60250	, **"MHR03"**, for 6Places 250-/300-ml, 2×750-/1×900-mm Rod and 2×Clamp for Rod	30,000
DH.WHM60500	, **"MHR04"**, for 6Places 500ml, 2×750-/1×940-mm Rod and 2×Clamp for Rod	30,000

Articles	Cat. No	Description

SciLab-brand® Heating Tapes, "WHM", Standard-type, 250℃, 13 & 25mm



Heating Tapes
∗ For Glass Tubes Metal Pipet

Catalog No.	13mm Width × Length(m)	Watts & Volt	Ea. Price, ₩
SL.Man8300	13mm × 0.6m	200W, 230V	26,000
SL.Man8301	× 1.0m	200W, 230V	26,000
SL.Man8302	× 1.5m	250W, 230V	38,000
SL.Man8303	× 2.0m	300W, 230V	50,000
SL.Man8304	× 2.5m	350W, 230V	62,000
SL.Man8305	× 3.0m	400W, 230V	74,000

Catalog No.	25mm Width × Length(m)	Watts & Volt	Ea. Price, ₩
SL.Man8310	25mm × 0.6m	200W, 230V	26,000
SL.Man8311	× 1.0m	200W, 230V	26,000
SL.Man8312	× 1.5m	250W, 230V	38,000
SL.Man8313	× 2.0m	300W, 230V	50,000
SL.Man8314	× 2.5m	350W, 230V	62,000
SL.Man8315	× 3.0m	400W, 230V	74,000
SL.Man8316	× 4.0m	550W, 230V	102,000
SL.Man8317	× 6.0m	700W, 230V	177,000

SciLab-brand® Custom-Made Heating Mantles & Insulation

Ideal for Bottom Valved Vessels or General-use, "WHM", Up to 450℃~650℃, **고객 주문 사양 히팅맨틀 및 단열/보온재**

We can Offer SciLab Custom Heating Mantles, for which you can Specify the Outside Diameter of the Vessel, Length of Mantle, Voltage, Number of Circuits and Length of Each Heating Zone, Ambient Temperature, Unusual Ambient Conditions, Size & Location of Holes for View Ports, and Tubulations.

Please Submit a Sketch for Complicated Applications and Contact our International Sales Team (E-mail : ebiz@scilab.kr) or our Distributor in your Country.
- Provides Uniform Heating and Insulation for Scrubbing and Fractionating Columns.
- Closes with a Zipper, with Eyelets and laces or Hooks and laces.
- Internal Operating Temperature is up to 450℃ or 650℃

Examples for Customized Heating Mantles





Welcome! Custom-Made Heating Mantles!!

DAIHAN-brand® Analog Compact Temp. Controller, "WHM-C10A", up to 1.2kW, for All-Purpose Heating Instruments with Solid State, Proportional Voltage Power Control (5~100%), 아날로그 온도 조절기 Upgrade

■ *Made in Korea* ■ *with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*



Analog Compact Temp. Controller "WHM-C10A"



<Ex.>
Heating Mantle Set with the Analog Compact Temp. Controller "WHM-C10A"

■ *PL (Product Liability) Insurance*
■ ***Small Footprint, Compact Analog Temperature Controller***
■ ***Precise Manual Control of Heating Mantles, Tapes, Cords and Other Resistive Loads up to 1.2 kW***
∗ Safe and Durable Design
∗ Solid state, Proportional Voltage Power Control (5~100% or Rated Voltage)

Specifications & Ordering information

Spec. \ Model		"WHM-C10A"
Control Range & Capacity		5~100% of Rated Voltage, Up to 1.2 kW
Dimension & Weight		95×98×h106mm, 1 kg
Packing Size & Gross Weight		190×160×h130mm, 2 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.WHM13500
	120V	DH.WHM23500
Price, Each. ₩		112,000

* Other Specifications are available upon Customer's Request.

DAIHAN-brand® Digital Feedback Temp. Controller, "WHM-C10D", up to 700℃, ±0.1℃, with Back-Light LCD for All-purpose Heating Instruments, Available K-type External Direct Contact Thermocouple(Optional), 디지털 온도 조절기 Upgrade

■ *Made in Korea* ■ *with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*



Digital Feedback Temp. Controller "WHM-C10D"



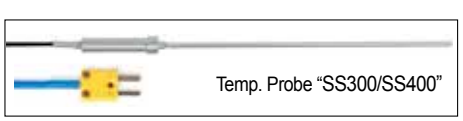
<Ex.>
Heating Mantle Set with Temp. Probe and the Digital Feedback Temp. Controller "WHM-C10D"

■ *PL (Product Liability) Insurance*
■ ***User's Self-compensation Function to Control Difference between Real Temp. and Indicated Temp. (±50℃)***
■ *Patented Jog-Shuttle Control System*
∗ Digital Feedback Control by High-Performance Microprocessor
∗ Digital LCD with Back-Light Function ∗ Small Footprint and User-Friendly Design.
∗ Storage function, Timer, Alarm & Locking Mode
∗ Heating Instruments can be controlled up to 2kW.
∗ Accurate Temp. Control of the Liquid in the Vessel using Optional Direct K-type Sensor

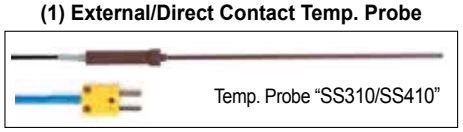
Specifications & Ordering information

Spec. \ Model		"WHM-C10D"
Temp. Range & Accuracy		Ambient +5 ~ 700℃, ±1℃ at Set Temperature
Temp. Resolution		1℃-Display, 1℃-Control
Timer & Alarm		99hr 59min (Continuous run), Error status & Timer-end
Display		Digital LCD with Back Light Function (Temp., Timer)
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)
Control Capacity		up to 2 kW for 230V, 1.5kw for 120V
Dimension & Weight		145×185×h68mm, 2.8 kg
Packing Size & Gross Weight		280×250×h110mm, 4 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.WHM12500
	120V	DH.WHM22500
Price, Each. ₩		232,000

* Other Specifications are available upon Customer's Request.



(1) External/Direct Contact Temp. Probe



(2) External/Direct Contact Temp. Probe, Teflon Coated



(3) Stand Rod, "RD300", Φ12.7×L520mm
(4) Holder / Clamp / Clip for Temp. Probe

Optional Temp. Probes & Stand Rod, Holder, Clamp

		Ea. Price, ₩
DH.WHP503040	(1) Direct Contact Temp. Probe, K-type, **"SS300"**, L250×Φ 4.8 mm	62,000
DH.WHP503050	(1) Direct Contact Temp. Probe, K-type, **"SS400"**, L380×Φ 4.8 mm	65,000
DH.WHP503041	(2) Direct Contact Temp. Probe, K-type, **"SS310"**, Teflon Coated, L250×Φ5 mm	113,000
DH.WHP503051	(2) Direct Contact Temp. Probe, K-type, **"SS410"**, Teflon Coated, L380×Φ5 mm	113,000
DH.WHP503037	(3) Stand Rod, Φ12.7×L520mm, **"RD300"**, for Heating Mantles	16,000
DH.WHP503012	(4) Holder & Clamp, **"CL220"**, for Temp. Sensor	25,000

SciLab Korea

Homogenizers

Homogenizers, with Direct Controller ····· P. 87
, with Remote Digital Controller ····· P. 88
, Accessories ····· P. 89
Homogenizing Stirrer for Tissue Grinder ····· P. 90
Homogenizing Tissue Grinder ····· P. 90



Homogenizer
with Direct Controller
"WiseTis® SHG-15A"
27,000 rpm



Digital Homogenizer
with Remote Controller
"WiseTis® SHG-15D"
2,000~27,000 rpm

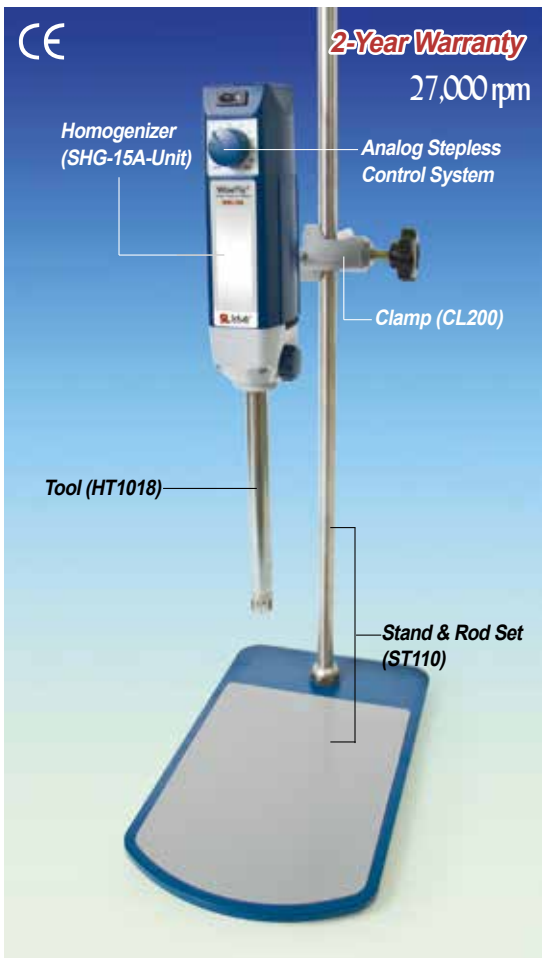


Homogenizer Stirrer
"WiseTis® SHS-30E"
200~5,000 rpm

SciLab-brand® Homogenizer with Direct Controller, *"WiseTis® SHG-15A"*, up to 27,000 rpm, 1~2,500㎖

with Analog Stepless Control System, High Efficiency Dispersing Tools, High-Speed · High-Quality · Low Noise

균질기 / 호모게나이저, 아날로그 컨트롤러 내장, 초고속/저소음 모터



(a) Homogenizer Package-set "WiseTis® SHG-15A-Set-A"

- ■ ***Made in Korea*** ■ ***PL (Product Liability) Insurance*** ■ ***CE Certified***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Useful for All Dispersing and Homogenizing Applications***
- ■ ***Over Heat Protection***
- ∗ Designed for Liquid and Tissue Samples
- ∗ Useful for All Dispersing and Homogenizing Applications
- ∗ High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load)
- ∗ Speed & Power Control Optimized for a Sample
- ∗ High Efficiency Dispersing Tool made of Stainless steel and PTFE

Specifications & Ordering information

Spec. \ Model		(a) "SHG-15A"-Set-A	(b) "SHG-15A"-Set-B	(c) "SHG-15A" (Unit Only)
Speed Range & Adjustment		Max. 27,000 rpm (without load), Stepless		
Working Range		1 ~ 2,500ml		
Motor Rating (Input / Output)		Input : 300W , Output : 160 W		
Controller		Analog Phase Controller		
Standard Component Acc.		"**HT1018**" Dispersing Tool, "**CL200**"Clamp, "**ST110**"Stand	"**HT1025**" Dispersing Tool, "**CL200**"Clamp,"**ST110**"Stand	Unit Only
Safety Device		Over Heat Protector		
Usable Dispersing Tool		Φ8mm Stator "**HT1008**", Φ10mm Stator "**HT1010**", Φ18mm Stator "**HT1018**", Φ25mm Stator "**HT1025**"		
Material		Aluminum Die-casting and ABS-Unit, Stainless steel (#304)-Tool		
Permissible Temp. & Moisture		Ambient +5 ~ 50℃, 85%		
Extension Arm Size		Φ12.7×L250mm		
Dimension & Weight		60×75×h215mm, 2.5kg		
Packing Size & Gross Weight		320×300×h190mm, 5 kg		
Power Consumption		160W		
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz		
Cat. No.	**230V**	**SL.SHG02016**	**SL.SHG02017**	**SL.SHG02015**
	120V	**SL.SHG01016**	**SL.SHG01017**	**SL.SHG01015**
Price, Each. ₩		470,000	470,000	345,000

∗ Other Specifications are available upon Customer's Request.



(1) Dispersing Tool "HT1008"



(2) Dispersing Tool "HT1010"



(3) Dispersing Tool "HT1018"



(4) Dispersing Tool "HT1025"

Spare Dispersing Tools & Clamp & Plate Stand

		Ea. Price, ₩
DH.WHG02108	(1) Dispersing Tool, **"HT1008"**, Rotor Φ6, Stator Φ8mm , 1~50ml	304,000
DH.WHG02110	(2) Dispersing Tool, **"HT1010"**, Rotor Φ7.96, Stator Φ10mm, 1~100ml	304,000
DH.WHG02118	(3) Dispersing Tool, **"HT1018"**, Rotor Φ12.8, Stator Φ18mm, 10~1000ml	149,000
DH.WHG02125	(4) Dispersing Tool, **"HT1025"**, Rotor Φ20 , Stator Φ25mm, 50~2500ml	149,000
SL.Cla8011	Clamp, **"CL200"**, for Stirrer or Homogenizer, Cast Aluminum, Grip Capacity Φ23mm for Stand/Rod ***New***	15,000
DH.WOS501510	Standard Plate Stand, **"ST110"**, for Stirrer or Homogenizer, Φ16×h800 mm Rod, w20×d35 cm Plate, with Silicone Pad	78,000
DH.WOS501515	Wide Plate Stand, **"ST120"**, for Stirrer or Homogenizer, Φ23×h1000 mm Rod, w30×d40 cm Plate, with Silicone Pad	94,000

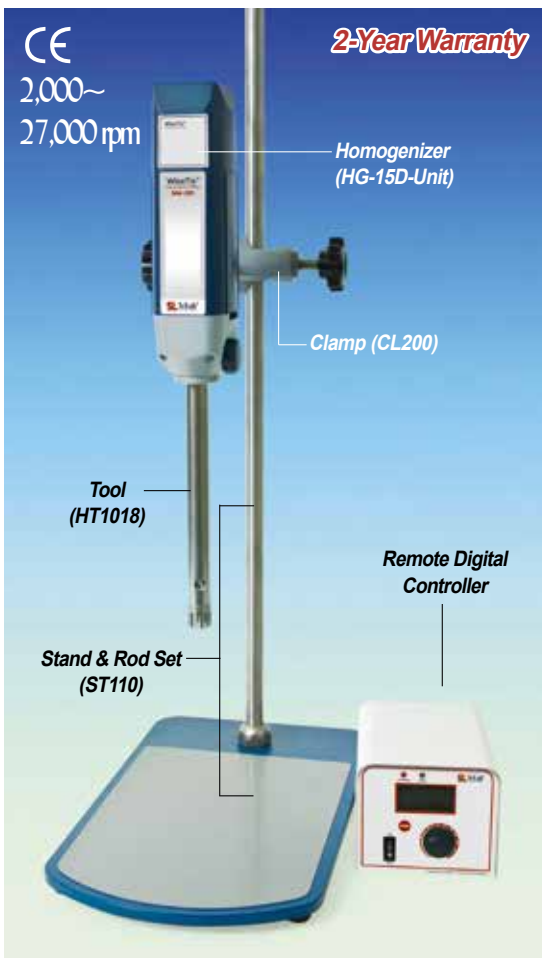
※ **See page 89 for the Specifications of Dispersing Tools and Accessories.**

Articles	Cat. No	Description

SciLab-brand® Homogenizer with Remote Digital Controller, *"WiseTis® SHG-15D"*, 2,000~27,000rpm

with Microprocessor Digital-Control, High-Efficiency Dispersing Tools, Back Light LCD, 1~2,500㎖

디지털 균질기 / 호모게나이저, 분리형 리모트 컨트롤러, 초고속/저소음 모터



(a) Homogenizer with Remote Digital Controller "WiseTis® SHG-15D-Set-A"

- ■ ***Made in Korea*** ■ ***PL (Product Liability) Insurance*** ■ ***CE Certified***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Patented Jog-Shuttle Control System***
- ∗ Useful for All Dispersing and Homogenizing Applications
- ∗ Designed for Liquid and Tissue Samples
- ∗ High Speed / High Quality / Low Noise : Max. 27,000 RPM (without load)
- ∗ Remote Digital Controller : Fully Digital Controlled by Using Microprocessor
- ∗ Speed & Power Control Optimized for a Sample
- ∗ LCD of Speed(RPM) and Power Bar Graph
- ∗ High Efficiency Dispersing Tool made of Stainless steel and PTFE

Specifications & Ordering information

Spec. \ Model		(a) "SHG-15D"-Set-A	(b) "SHG-15D"-Set-B	(c) "SHG-15D" (Unit Only)
Speed Range & Resolution		2,000 ~ 27,000rpm (without load), 10 rpm-Control		
Working Range		1 ~ 2,500ml		
Motor Rating (Input / Output)		Input : 300W , Output : 160 W		
Timer & Alarm		10sec ~ 15min, Timer-end Alarm		
Display		Digital LCD with Back-Light Function		
Controller		Digital Feedback Controller (Remote Type)		
Standard Component Acc.		"**HT1018**" Dispersing Tool, "**CL200**"Clamp,"**ST110**"Stand	"**HT1025**" Dispersing Tool, "**CL200**"Clamp,"**ST110**"Stand	Unit Only
Safety Device		Over Load & Over Heat Protector		
Usable Dispersing Tool		Φ8mm Stator "**HT1008**", Φ10mm Stator "**HT1010**", Φ18mm Stator "**HT1018**", Φ25mm Stator "**HT1025**"		
Material		Aluminum Die-casting and ABS-Unit, Stainless steel (#304)-Tool		
Permissible Temp. & Moisture		Ambient +5 ~ 50℃, 85%		
Extension Arm Size		Φ12.7×L250mm		
Dimension & Weight		60×75×h215mm, 2.5kg		
Packing Size & Gross Weight		580×340×h230mm, 6 kg		
Power Consumption		160W		
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz		
Cat. No.	**230V**	**SL.SHG02019**	**SL.SHG02020**	**SL.SHG02018**
	120V	**SL.SHG01019**	**SL.SHG01020**	**SL.SHG01018**
Price, Each. ₩		720,000	720,000	609,000

∗ **Other Specifications are available upon Customer's Request.**



(1) Dispersing Tool "HT1008"



(2) Dispersing Tool "HT1010"



(3) Dispersing Tool "HT1018"



(4) Dispersing Tool "HT1025"

Spare Dispersing Tools & Clamp & Plate Stand

		Ea. Price, ₩
DH.WHG02108	(1) Dispersing Tool, **"HT1008"**, Rotor Φ6, Stator Φ8mm , 1~50ml	304,000
DH.WHG02110	(2) Dispersing Tool, **"HT1010"**, Rotor Φ7.96, Stator Φ10mm, 1~100ml	304,000
DH.WHG02118	(3) Dispersing Tool, **"HT1018"**, Rotor Φ12.8, Stator Φ18mm, 10~1000ml	149,000
DH.WHG02125	(4) Dispersing Tool, **"HT1025"**, Rotor Φ20 , Stator Φ25mm, 50~2500ml	149,000
SL.Cla8011	Clamp, **"CL200"**, for Stirrer or Homogenizer, Cast Aluminum, Grip Capacity Φ23mm for Stand/Rod ***New***	15,000
DH.WOS501510	Standard Plate Stand, **"ST110"**, for Stirrer or Homogenizer, Φ16×h800 mm Rod, w20×d35 cm Plate, with Silicone Pad	78,000
DH.WOS501515	Wide Plate Stand, **"ST120"**, for Stirrer or Homogenizer, Φ23×h1000 mm Rod, w30×d40 cm Plate, with Silicone Pad	94,000

※ **See page 89 for the Specifications of Dispersing Tools and Accessories.**



(1) Dispersing Tool "HT1008"



(2) Dispersing Tool "HT1010"



(3) Dispersing Tool "HT1018"



(4) Dispersing Tool "HT1025"


(5) High Quality Clamp (CL200)

Homogenizer Accessories, Dispersing Tools & Plate Stand for Homogenizer

- ***Accurate Stator & Rotor made of Stainless steel***
- ***High Efficiency Dispersing Tool made of Stainless steel and PTFE***
- ***Low Cost & High Efficiency***

Model	(1)"HT1008"	(2)"HT1010"	(3)"HT1018"	(4)"HT1025"
Working Range	1 ~ 50ml	1 ~ 100ml	10 ~ 1,000ml	50 ~ 2,500ml
Stator Diameter	Φ8 mm	Φ10 mm	Φ18 mm	Φ25 mm
Rotor Diameter	Φ6 mm	Φ7.96 mm	Φ12.8mm	Φ20 mm
Gap between Rotor & Stator	0.25 mm	0.2 mm	0.25 mm	0.35 mm
Allowable Max. Speed	27,000 rpm		20,000 rpm	15,000 rpm
Immersion Depth Min.	35 mm		60 mm	
Immersion Depth Max	70 mm		130 mm	
Shaft Length	138 mm		225 mm	
Bearing Material	PTFE			
Suitable for Solvent	Yes			
Max. Temperature	180℃			
Sterilization Method	All Methods			
Suspensions & Emulsions	Suspension : 10 ~ 50㎛, Emulsion : 1 ~ 10㎛			

* Test Condition : 1.8 liters of water in the 2 liters capacity beaker.


(6) Standard Plate Stand (ST110)


(7) Wide Plate Stand (ST120)

Spare Dispersing Tool & Clamp & Plate Stand

		Ea. Price, ₩
DH.WHG02108	(1) Dispersing Tool, **"HT1008"**, Rotor Φ6, Stator Φ8mm , 1~50ml	304,000
DH.WHG02110	(2) Dispersing Tool, **"HT1010"**, Rotor Φ7.96, Stator Φ10mm, 1~100ml	304,000
DH.WHG02118	(3) Dispersing Tool, **"HT1018"**, Rotor Φ12.8, Stator Φ18mm, 10~1000ml	149,000
DH.WHG02125	(4) Dispersing Tool, **"HT1025"**, Rotor Φ20, Stator Φ25mm, 50~2500ml	149,000
SL.Cla8011	(5) Clamp, **"CL200"**, for Stirrer or Homogenizer, L135mm, Cast Aluminum, Grip Capacity Φ23mm for Stand/Rod *New*	15,000
DH.WOS501510	(6) Standard Plate Stand, **"ST110"**, for Stirrer or Homogenizer, Φ16×h800 mm Rod, w20×d35 cm Plate, with Silicone Pad	78,000
DH.WOS501515	(7) Wide Plate Stand, **"ST120"**, for Stirrer or Homogenizer, Φ23×h1000 mm Rod, w30×d40 cm Plate, with Silicone Pad	94,000



Steel Retort Base Duo Stand

Steel Retort Base Duo Stand, up to Φ16mm Rods, for 2 Rods with Hinged Screw M6, Nonskid Feet equipped, Rod Excluded

∗ Can Fix Rods up to 2ea (Below Φ16mm) ∗ Stand Thickness : 8mm

Retort Stand, Only Stand Base

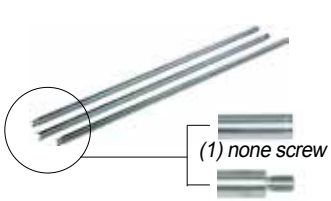
∗ Supplied by Usbeck® in Germany

		Ea. Price, ₩
US.2040	Stand, **"US2040"**, r =150mm	62,860
US.2041	, **"US2041"**, r =185mm	85,720

Optional Stainless steel Rod

		Ea. Price, ₩
DH.WOS502001	Stainless-steel Rod, **"RD501"**, Φ16×h800mm, Non-screw	19,000
DH.WOS502002	, **"RD502"**, Φ16×h1000mm, Non-screw	22,000
DH.WOS502003	, **"RD503"**, Φ16×h1200mm, Non-screw	22,000

DAIHAN-brand® High-Quality Stainless-steel (#304) Rod. for Plate Stand, Φ16/23 mm



Stainless steel Rod

(1) Plain-type Φ16mm Rod, without Screw

		Ea. Price, ₩
DH.WOS502001	Stainless-steel Rod, **"RD501"**, Φ16×h800mm, Non-screw	19,000
DH.WOS502002	, **"RD502"**, Φ16×h1000mm, Non-screw	22,000
DH.WOS502003	, **"RD503"**, Φ16×h1200mm, Non-screw	22,000
DH.WOS502031	, **"RD531"**, Φ23×h800mm, Non-screw	32,000
DH.WOS502033	, **"RD533"**, Φ23×h1200mm, Non-screw	28,000

(2) 1.5P Screw-type Φ16 & 23mm Rod

		Ea. Price, ₩
DH.WOS502011	Stainless-steel Rod, **"RD511"**, Φ16×h800mm, 1.5P Screw	25,000
DH.WOS502012	, **"RD512"**, Φ16×h1000mm, 1.5P Screw	25,000
DH.WOS502013	, **"RD513"**, Φ16×h1200mm, 1.5P Screw	25,000
DH.WOS502021	, **"RD521"**, Φ23×h800mm, 1.5P Screw	26,000
DH.WOS502022	, **"RD522"**, Φ23×h1000mm, 1.5P Screw	26,000
DH.WOS502023	, **"RD523"**, Φ23×h1200mm, 1.5P Screw	26,000

Articles	Cat. No	Description

SciLab-brand® Homogenizing Stirrer, *"WiseTis® SHS-30E"*, for Tissue Grinder, 200~5,000rpm

for Tissue Grinders, Analog Phase Control, without Tissue Grinder, with Certi. & Traceability, **호모게나이저 스터러**



Homogenizing Stirrer Package-Set "WiseTis® SHS-30E"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for usage with Tissue Grinders***

* Designed for most Laboratory Applications such as Homogenizing or Mixing
* Compact Unit with Solid State Speed Control

Specifications & Ordering information

Spec. \ Model		"WiseTis® SHS-30E"
Speed Range & Max. Torque		200 ~ 5,000 rpm, 85 Ncm
Stirring Capacity		Max. 10 Lit.
Motor Rating		Input : 83 W, Output : 75 W, 1/10 HP
Safety Device		Over Heat Protector
Controller		Analog Phase Controller
Dimension & Weight		90×145×h180mm, 3.5 kg
Packing Size & Gross Weight		320×300×h190mm, 5 kg
Power Consumption		75W
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz
Cat. No.	230V	**SL.SOS01010**
	120V	**SL.SOS02010**
Price, Each. ₩		280,000
Component of Package-set		included "CL200" Clamp and "ST110" Stand-set(Rod, Plate)
Cat. No.	230V	**SL.SOS01011**
	120V	**SL.SOS02011**
Price, Each. ₩		374,000

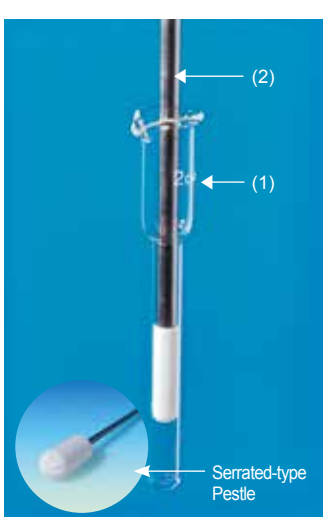
* **Other Specifications are available upon Customer's Request.**

※ ***Note!*** **The Package does not Include a Tissue Grinder**

▶ **Tissue Grinder ⇒ The Details : See the "Tissue Grinder" Section!**

Cowie® Tissue Grinders, with PTFE Pestle Head · Borosilicate Glass Mortar, 2~50㎖, Separately

Good for Chemical/Heat Resistance, Standard- / Serrated-type PTFE Head Pestles, STS Pestle Rod is Perfect for Motor Drive, **티슈 그라인더**





(3) Serrated-type Pestle

- ***Supplied by Cowie® in U.K***

* Use for the Controlled Reduction of Particle Size and Homogenisation for a Variety of Substances, especially Biological Material.
* The pestle head is pure PTFE and pestle rod Stainless-steel, Φ 6.5㎜
* Pestle Length : 230~270mm ∗ The Mortar is precision borosilicate glass.

(1) Glass Mortar, Borosilicate, 2~50㎖

		Ea. Price, ₩
CW.011.102	Mortar, 2㎖, Φ 8×ℓ120㎜	26,750
CW.011.105	, 5㎖, Φ12×ℓ135㎜	29,750
CW.011.110	, 10㎖, Φ15×ℓ150㎜	30,450
CW.011.115	, 15㎖, Φ19×ℓ155㎜	31,150
CW.011.130	, 30㎖, Φ25×ℓ175㎜	42,350
CW.011.150	, 50㎖, Φ32×ℓ195㎜	50,490

(2) Standard-type Pestles

		Ea. Price, ₩
CW.011.202	Pestle, Standard-type, for 2㎖, ℓ230㎜	16,980
CW.011.205	, for 5㎖, ℓ235㎜	16,570
CW.011.210	, for 10㎖, ℓ270㎜	17,170
CW.011.215	, for 15㎖, ℓ270㎜	22,060
CW.011.230	, for 30㎖, ℓ270㎜	27,190
CW.011.250	, for 50㎖, ℓ270㎜	34,440

(3) Serrated-type Pestles

		Ea. Price, ₩
CW.011.302	Pestle, Serrated-type, for 2㎖, ℓ230㎜	17,760
CW.011.305	, for 5㎖, ℓ235㎜	17,560
CW.011.310	, for 10㎖, ℓ270㎜	18,190
CW.011.315	, for 15㎖, ℓ270㎜	23,680
CW.011.330	, for 30㎖, ℓ270㎜	28,790
CW.011.350	, for 50㎖, ℓ270㎜	36,290

SciLab Korea

Hotplates & Hotplate Stirrers

Hotplates, 380℃, Analog ····· P. 95
, 380℃, Digital ····· P. 94
, 500℃, Solid Ceramic Glass Plate ····· P. 92~93
, Large Plate, 350℃ ····· P. 96
Hotplate Stirrers, 380℃, Analog ····· P. 99
, 380℃, Digital ····· P. 98
, 500℃, Solid Ceramic Glass Plate ····· P. 97
, Systematic Multi-plate, 350℃ ····· P. 100

500℃ Hi-temp. Digital Hotplate Stirrers

"WiseTherm® SMSH-500"



Analog Premium Hotplate Stirrers

"WiseTherm® SMSH-20A"



Digital Hotplate Stirrers

"WiseTherm® SMSH-20D"



Large Plate Digital Hotplate

"WiseTherm® SHPLP-C-P"



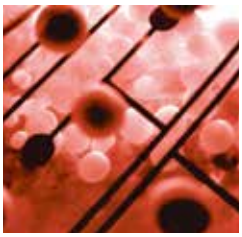
Systematic Multi-Hotplate Stirrers

"WiseTherm® SSMHS-6"



Maximum Convenience by Advanced Digital Technology

SciLab New Generation
500℃ High Temp. Hotplates, Solid Ceramic Glass Plate





High-quality Ceramic Glass Plate

Achieved the maximum temperature of 500℃ by using High-quality Ceramic Glass Plate which can resist up to 700℃
Superior Heat-/Acid/-Chemical-resistant and Easy-to-Clean Plate



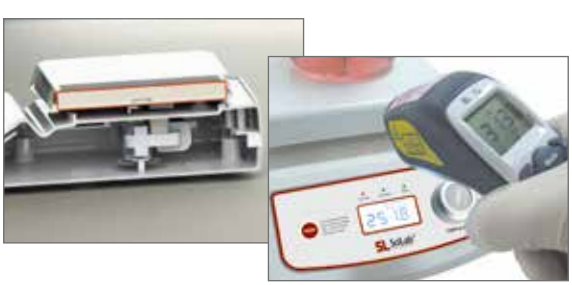
Hot-top Indicator for User Safety

The Indicator Lamp illuminates while temperature on the Plate Surface is over 50℃ regardless power on/off.
Prevention from a fire or a burn caused by operation at high temperature



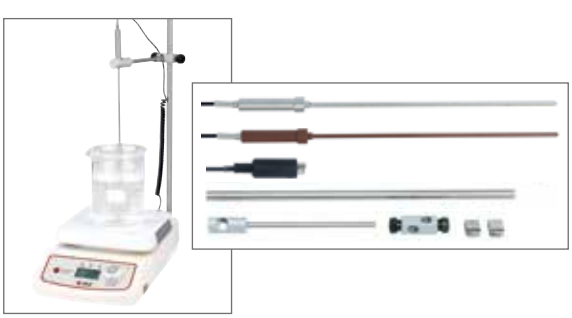
2×Independent Internal Temp. Sensor

Two Independent Internal Temp. Sensors: Accurate Temp. Control and Over-temp. Protection.
1xTemp Control Sensor: Achieved Accurate Temp. Control at High Temp.
1xOver-Temp. Protection Sensor: Prevention from malfunction or danger caused by Over-temperature.



High-quality Insulation (BTU) for User Safety

High-quality Insulation (BTU) ensures User Safety during operation at High Temperature.
Minimized Heat Transfer from the Plate to the Inside, ensures Long Life-time.



External Temp. Sensor

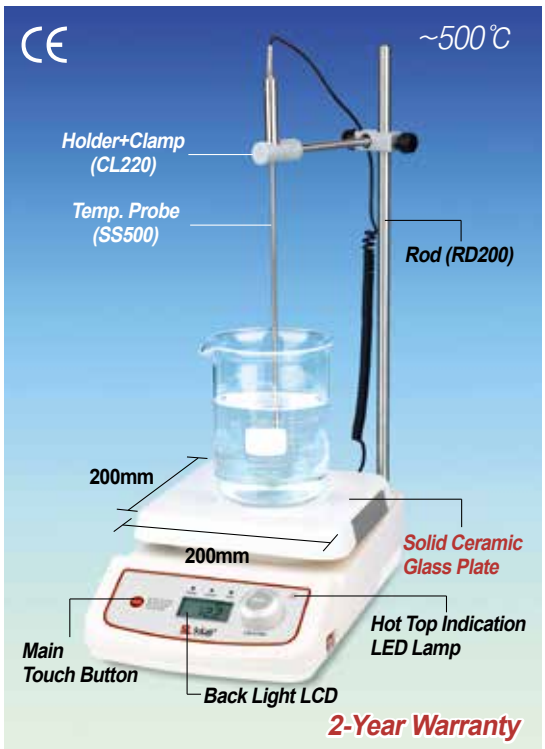
External Temp. Sensor achieves even more Accurate Temp Control by measuring Temp. of Sample. (Optional)

<Continued On Next Page>

SciLab-brand® 500℃ Hi-Temp. Digital Hotplates, *"WiseTherm® SHP-500H"*, Solid Ceramic Glass Plate, 200×200mm

with Digital Feedback Control, Accurate Temp. Control, Touch-button Controller, Hot-Top Indicator, Max. 500℃, Accu. ±0.3℃

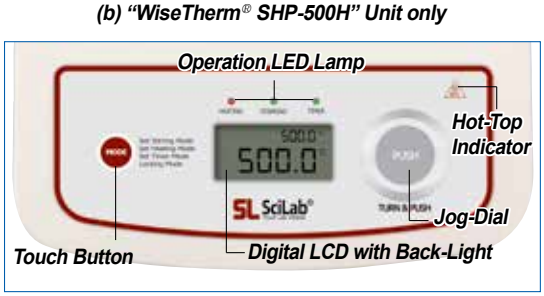
고온용 디지털 가열판, 디지털 피드백 온도 제어, 내열성/내화학성/내산성 솔리드 세라믹 글라스 플레이트



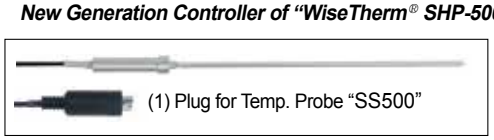
(a) "WiseTherm® SHP-500H" Package-set



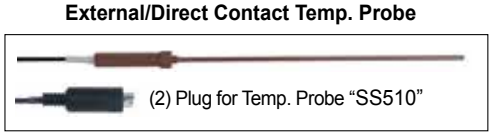
(b) "WiseTherm® SHP-500H" Unit only



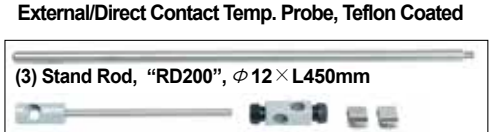
New Generation Controller of "WiseTherm® SHP-500H"



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean***
- ***Maximum Temperature of 500℃*** ■ ***Ergonomic Design***
- ***Digital Feedback Control by High-Performance Microprocessor***
- ***Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate. with Back-Light Function***
- ***2×Internal K-type Temp. Sensor Operating Independently : 1×Temp. Control Sensor for Temperature Accuracy and 1×Over Temp. Detection Sensor for User Safety***
- ***Hot Top Indicator LED Lamp : Hot Surface(Over 50℃) Warning Lamp for User Safety***

∗ Excellent for Sample Drying and most General Lab Heating Applications
∗ User's Self -Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
∗ Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
∗ Storage Function for the set Values : Temp. and Timer
∗ Minimization of Noise and Improved the Product Life
∗ Use of the Special Advanced Insulation for the safety of the Body Temp.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SHP-500H" (Package-set)	(b) "WiseTherm® SHP-500H" (Unit Only)
Material	Body	Powder Coated Aluminum	
	Plate	Solid Ceramic Glass Plate, 200×200mm	
Stirring Capa.		Max. 20 Lit.	
Temp. Range & Accuracy		Max. 500℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power / Consumption		850W	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.	
Safety Circuit		Over Temp. Protection Hot Top Indicator LED Lamp	
Included Standard Acc.		Unit, ∗ External Temp Probe-set	Unit Only
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		205×345×h135mm, 3.3kg	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SHP04020**	**SL.SHP05020**
	120V	**SL.SHP04021**	**SL.SHP05021**
Price, Each. ₩		452,000	383,000

∗ **Other Specifications are available upon Customer's Request.**

Component of Package-set

∗ External Temp Probe-set : ① Hotplate Unit ② **"SS500"** PT100 External / Direct Contact Temp. Probe, ③ **"RD200"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe with stir Bar

Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

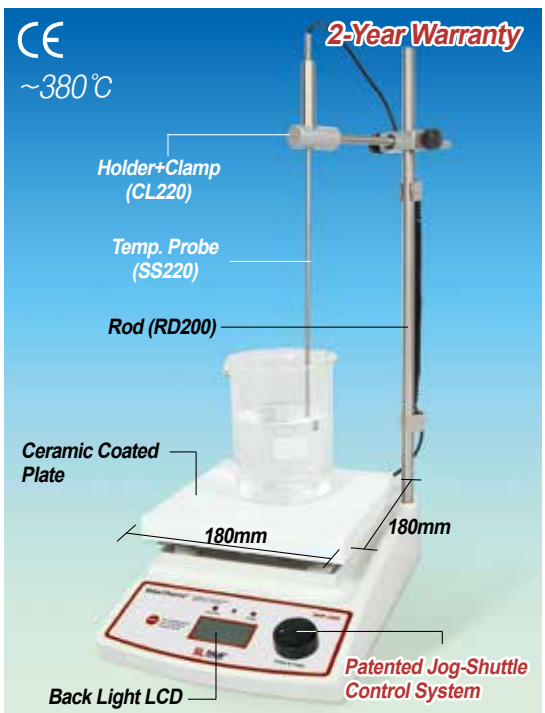
		Ea. Price, ₩
DH.WHP503060	(1) Direct Contact Temp. Probe, **"SS500", "PT100"**, Probe Φ4×L250mm, Cable L190mm, for **"SHP-500H", "SMSH-500"**	54,000
DH.WHP503061	(2) Direct Contact **Teflon Coated** Temp. Probe, **"SS510"**, Probe Φ4×L250mm, Cable L190mm, for **"SHP-500H", "SMSH-500"**	65,000
DH.WHP503036	(3) Stand Rod, **"RD200"**, Stainless steel, Φ12×L450mm, Screw, for **"SHP-500H", "SMSH-500"**	20,000
DH.WHP503012	(4) Holder/Clamp/Clip, **"CL220"**, for Temp. Probe	25,000

Articles	Cat. No	Description

SciLab-brand® 380℃ Digital Precise Hotplate, *"WiseTherm® SHP-D"*, Ceramic-Coated Plate, ±0.3℃

with Digital Feedback Control System, Back Light LCD, 180×180mm– or 260×260mm–Plate, with Certi. & Traceability

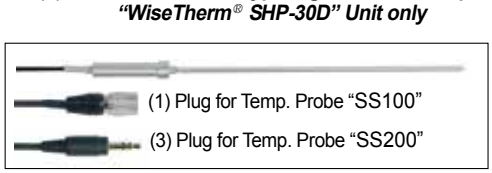
디지털 정밀 가열판, 디지털 피드백 온도 제어, 세라믹 코팅 플레이트



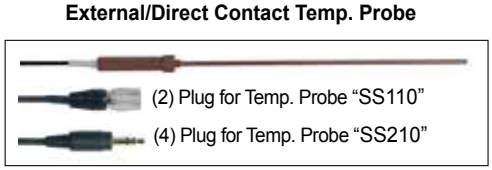
(a) 180×180mm Plate-type Digital Precise Hotplate "WiseTherm® SHP-20D" Package-set



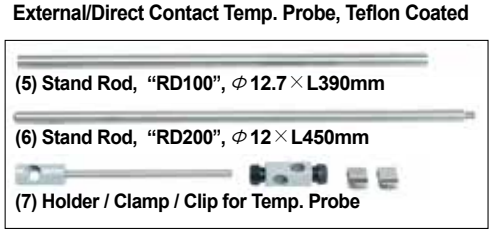
(b) 180×180mm Plate-type Digital Precise Hotplate "WiseTherm® SHP-30D" Unit only



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified (SHP-20D)*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Patented Jog-Shuttle Control System***

∗ Digital Feedback Control by High-Performance Microprocessor
∗ Smart Design of Body made by Aluminum Die-Casting (SHP-20D)
∗ Ceramic Coated Plate-Chemical/Acid Resistance ∗ Digital LCD with Back-Light Function
∗ Superior Temperature Uniformity : less than 10% on the Plate at Ambient Temperature
∗ Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
∗ Locking Mode for Experimental Safety Supported (Input to Jog Shuttle can be disabled)
∗ User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SHP-20D"	(b) "WiseTherm® SHP-30D"
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Temp. Range & Accuracy		Max. 380℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600 W	1.2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)	
Safety Circuit		Over Temp. Protection	
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.2kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200hmm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Unit Only			
Cat. No.	230V	**SL.SHP03020**	**SL.SHP03022**
	120V	**SL.SHP02020**	**SL.SHP02022**
Price, Each. ₩		232,000	417,000
∗ External Temp. Probe Package-set			
Cat. No.	230V	**SL.SHP03021**	**SL.SHP03023**
	120V	**SL.SHP02021**	**SL.SHP02023**
Price, Each. ₩		269,000	468,000

∗ Other Specifications are available upon Customer's Request.

Component of Package-set

∗ **"HP-20D"** Package-set : Complete with ① Hotplate Unit ② : **"SS200"** PT100 External / Direct Contact Temp. Probe, ③ **"RD200"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe

∗ **"HP-30D"** Package-set : Complete with ① Hotplate Unit ② : **"SS100"** PT100 External / Direct Contact Temp. Probe, ③ **"RD100"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe

Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503020	(1) External / Direct Contact Temp. Probe, **"SS100"**, PT100, for **"SHP-30D"**, **"SMSH-30D"** and **"SSMHS"** Probe Φ4×L250mm, Cable L190mm	69,000
DH.WHP503021	(2) External / Direct Contact Temp. Probe, **"SS110"**, PT100, **Teflon Coated**, for **"SHP-30D"**, **"SMSH-30D"**, **"SSMHS"** Probe Φ4×L250mm, Cable L190mm	80,000
DH.WHP503030	(3) External / Direct Contact Temp. Probe, **"SS200"**, PT100, for **"SHP-20D"**, **"SMSH-20D"** Probe Φ4×L250mm, Cable L190mm	51,000
DH.WHP503031	(4) External / Direct Contact Temp. Probe, **"SS210"**, PT100, **Teflon Coated**, for **"SHP-20D"**, **"SMSH-20D"** Probe Φ4×L250mm, Cable L190mm	62,000
DH.WHP503011	(5) Stand Rod, **"RD100"**, Stainless steel, Φ12.7×L450mm for **"SHP-30A/30D"**, **"SMSH-30A/30D"**, Non-screw	10,000
DH.WHP503036	(6) Stand Rod, **"RD200"**, Stainless steel, Φ12×L450mm for **"SHP-20A/20D"**, **"SMSH-20A/20D"**, **"SSMHS"**, Screw	20,000
DH.WHP503012	(7) Holder/ Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

SciLab-brand® 380℃ Analog Premium Hotplate, *"WiseTherm® SHP-A"*, Ceramic-Coated Plate

Built-in Linearity PWM Controller, High Temp. Uniformity, 180×180- or 260×260-mm Plate, CE Certified, with Certi. & Traceability

아날로그 정밀 가열판, 우수한 온도균일성 & 경제성, 세라믹 코팅 플레이트



(a) 180×180mm Plate-type Hotplate "WiseTherm® SHP-20A"



(b) 260×260mm Plate-type Hotplate "WiseTherm® SHP-30A"

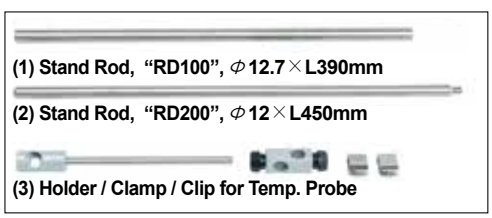
- ***Made in Korea*** ■ ***CE Certified (SHP-20A)*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Excellent for Sample Drying and Most General Lab Heating Applications***
- ***Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature***

∗ Excellent for Sample Drying and most General lab Heating Applications
∗ Smart Design of Body made by Aluminum Die-Casting (SHP-20A)
∗ Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
∗ Superior Linearity for Temperature Control by Specially Designed Control Circuitry (PWM control)
∗ Ceramic Coated Plate - Chemical / Acid Resistance

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SHP-20A"	(b) "WiseTherm® SHP-30A"
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Temp. Range & Uniformity		Max. 380℃Temp., High Uniformity : Difference 10% less	
Heating Power/Consumption		600 W	1.2 kW
Controller		Superior Linearity PWM Controller	
Permissible Temp. & RH %		R/T +5 ~ 50℃, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.3kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×200hmm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SHP03120**	**SL.SHP03121**
	120V	**SL.SHP02120**	**SL.SHP02121**
Price, Each. ₩		151,000	361,000

∗ **Other Specifications are available upon Customer's Request.**

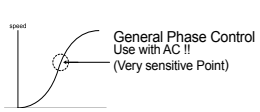


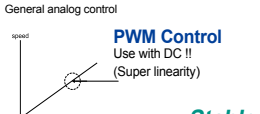
Optional Stand Rod & Holder/Clamp

		Ea. Price, ₩
DH.WHP503011	(1) Stand Rod, **"RD100"**, Stainless steel, Non-screw Φ12.7×L390mm, for **"SHP-30A/30D", "SMSH-30A/30D"**	10,000
DH.WHP503036	(2) Stand Rod, **"RD200"**, Stainless steel, 1.5p screw Φ12×L450mm, for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS"**	20,000
DH.WHP503012	(3) Holder / Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

Specialized Features

High Stability in Very Low & High-Temperature

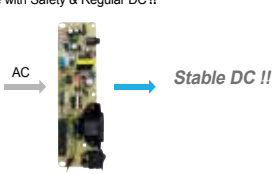




Realize ***Stable & Easy to Use!***

Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC !!



SSR (Solid State Relay)-Non Contact
No Electronic Harm!

Realize ***Long Life Cycle!***

Articles	Cat. No	Description

SciLab-brand® 350℃ Large Plate Digital Hotplate, *"WiseTherm® SHPLP-C-P"*, Superior Temp. Uniformity

Built-in Digital PID Controller or Digital Remote Controller, Ceramic-Coated Plate, Back Light LCD, 310×620mm Plate

디지털 대형 정밀 가열판, 디지털 피드백 온도 제어, 디지털 PID 조절기 디지털, 백색 세라믹 코팅판



Large Digital Hotplate, with Built-in Digital PID Controller, Ceramic-Coated Plate-type "WiseTherm® SHPLP-C-P"

- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***2-Years Warranty*** ■ ***Max Temp : 350℃***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature***
- ***Digital PID Controller***
- ***Patented Jog-Shuttle Control System and Back-Light LCD***

∗ Excellent for Sample Drying and most General lab Heating Applications
∗ Large Heating Area : Ideal for TLC Plate Heating and Surface Heating in Electronic Industries
∗ Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
∗ Ceramic Coated Plate -Chemical / Acid Prevention

Specifications & Ordering information

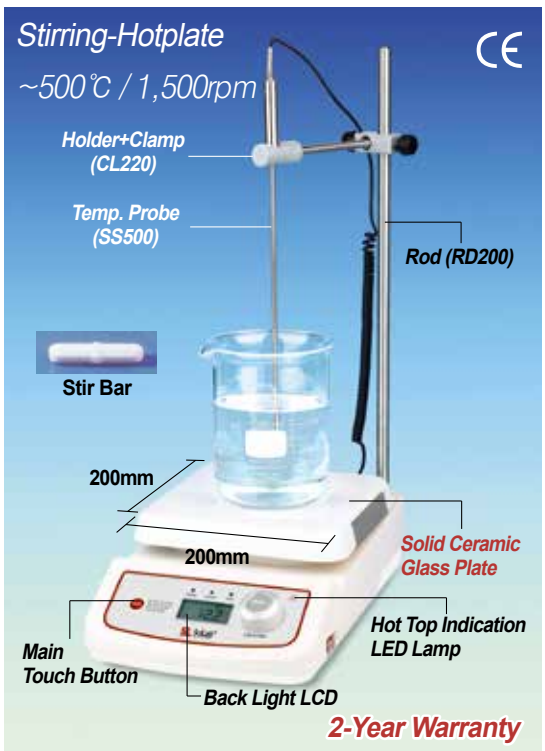
Spec. \ Models		"WiseTherm® SHPLP-C-P"	
Controller		Built-in Digital PID Controller	Digital Remote Controller
Plate Surface		Ceramic-coated	
Plate Size		310×620mm	
Temp. Range & Accuracy		Max. 350℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		2 kW	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		670×360 ×h150mm, 16kg	
Packing Size & Gross Weight		750×430×h220mm, 18 kg	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	**230V**	**SL.SHP03024**	
	120V	**SL.SHP02024**	
Price, Each. ₩		708,000	

∗ Other Specifications are available upon Customer's Request.

Articles	Cat. No	Description

SciLab-brand® 500℃ Hi-Temp. Digital Hotplate Stirrers, *"WiseTherm® SMSH-500"*, Solid Ceramic Glass Plate, 200×200mm with Digital Feedback Control, Accurate Temp. Control, Touch-button Controller, Hot Top Indicator, 80~1,500rpm, Max. 500℃, ±0.3℃

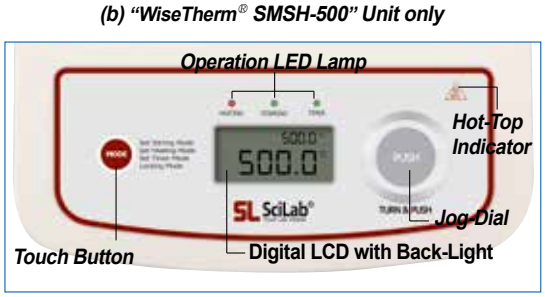
고온용 디지털 가열 자력 교반기, 디지털 피드백 온도 제어, 내열성/내화학성/내산성 솔리드 세라믹 글라스 플레이트



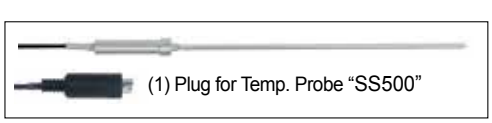
(a) "WiseTherm® SMSH-500" Package-set



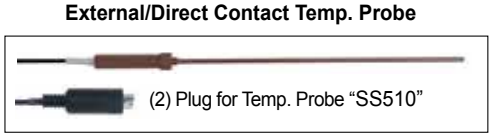
(b) "WiseTherm® SMSH-500" Unit only



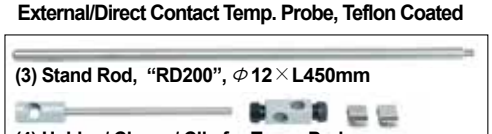
New Generation Controller of "WiseTherm® SMSH-500" model



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean***
- ***Maximum Temperature of 500℃*** ■ ***Ergonomic Design***
- ***Digital Feedback Control by High-Performance Microprocessor***
- ***Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate. with Back-Light Function***
- ***2×Internal K-type Temp. Sensor Operating Independently : 1×Temp. Control Sensor for Temperature Accuracy and 1×Over Temp. Detection Sensor for User Safety***
- ***Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control, Minimization Noise***
- ***Hot Top Indicator LED Lamp : Hot Surface(Over 50℃) Warning Lamp for User Safety***

∗ User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
∗ Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
∗ Storage Function for the set Values: Temp. and Timer
∗ Use of the Special Advanced Insulation for the safety of the Body Temp.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
∗ Digital LCD with Back Light Function ∗ Digital Timer Function(99hr 59min)

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SMSH-500" (Package-set)	(b) "WiseTherm® SMSH-500" (Unit Only)
Material	Body	Powder Coated Aluminum	
	Plate	Solid Ceramic Glass Plate, 200×200mm	
Stirring Capa.		Max. 20 Lit.	
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 500℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power / Consumption		850W	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Safety Circuit		Over Temp. Protection, Hot Top Indicator LED Lamp	
included Standard Acc.		Unit, ∗External Temp Probe-set, with 1ea Stir Bar	Unit with 1ea Stir Bar
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		205×345×h135mm, 3.3kg	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug	
Cat. No.	230V	**SL.SMH04020**	**SL.SMH05020**
	120V	**SL.SMH04021**	**SL.SMH05021**
Price, Each. ₩		487,000	424,000

∗ Other Specifications are available upon Customer's Request.

Component of Package-set

∗ Package-set : ① Hotplate Unit ② **"SS500"** PT100 External / Direct Contact Temp. Probe,
③ **"RD200"** Stainless steel Support Rod Φ12×L450mm
④ **"CL220"** Holder+Clamp for External Temp. Probe

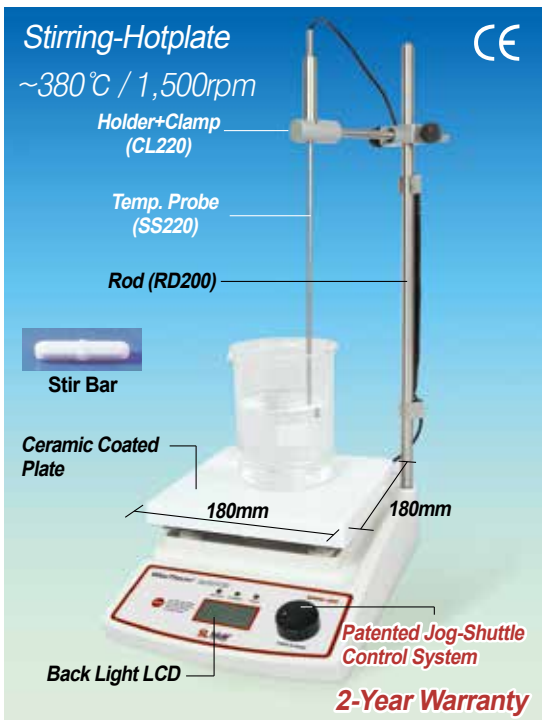
Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503060	(1) Direct Contact Temp. Probe, **"SS500", "PT100"**, Probe Φ4×L250mm, Cable L190mm, for **"SHP-500H", "SMSH-500"**	54,000
DH.WHP503061	(2) Direct Contact **Teflon Coated** Temp. Probe, **"SS510"**, Probe Φ4×L250mm, Cable L190mm, for **"SHP-500H", "SMSH-500"**	65,000
DH.WHP503036	(3) Stand Rod, **"RD200"**, Stainless steel, Φ12×L450mm, Screw, for **"SHP-500H", "SMSH-500"**	20,000
DH.WHP503012	(4) Holder/Clamp/Clip, **"CL220"**, for Temp. Probe	25,000

Articles	Cat. No	Description

SciLab-brand® 380℃ Digital Hotplate Stirrer, *"WiseTherm® SMSH-D"*, Ceramic-Coated Plate, ±0.3℃, with Certi. & Traceability with Digital Feedback Control, Accurate Temp. Control, 180×180mm- or 260×260mm-Plate, 80 ~ 1,500 rpm

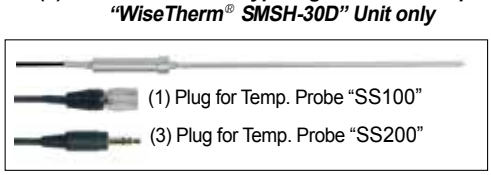
디지털 가열 자력 교반기, 디지털 피드백 온도 제어, 우수한 온도균일성, 세라믹 코팅 플레이트



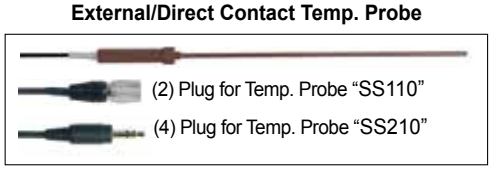
(a) 180×180mm Plate-type Digital Precise Hotplate "WiseTherm® SMSH-20D" Package-set



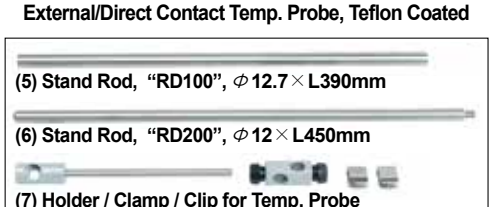
(b) 180×180mm Plate-type Digital Precise Hotplate "WiseTherm® SMSH-30D" Unit only



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified (SMSH-20D)*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Feedback Control by High-Performance Microprocessor***
- ***Patented Jog-Shuttle Control System***

* User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
* Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
* Storage Function for the set Values : Temp. and Timer
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Superior Temperature Uniformity : less than10% on the Plate at Ambient Temperature

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SMSH-20D"	(b) "WiseTherm® SMSH-30D"
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 380℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1.2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Safety Circuit		Over Temp. Protection	
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		206×307×h99mm, 3.3kg	286×387×h99mm, 3.5kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Unit Only			
Cat. No.	230V	**SL.SMH03020**	**SL.SMH03022**
	120V	**SL.SMH02020**	**SL.SMH02022**
Price, Each. ₩		270,000	445,000
*** External Temp. Probe Package-set**			
Cat. No.	230V	**SL.SMH03021**	**SL.SMH03023**
	120V	**SL.SMH02021**	**SL.SMH02023**
Price, Each. ₩		333,000	511,000

*** Other Specifications are available upon Customer's Request.**

Component of Package-set

* **"MSH-20D"** Package-set : Complete with ① Hotplate Unit ② : **"SS200"** PT100 External / Direct Contact Temp. Probe, ③ **"RD200"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe
* **"MSH-30D"** Package-set : Complete with ① Hotplate Unit ② : **"SS100"** PT100 External / Direct Contact Temp. Probe, ③ **"RD100"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe

Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503020	(1) External / Direct Contact Temp. Probe, **"SS100"**, PT100, for **"SHP-30D"**, **"SMSH-30D"** and **"SSMHS"** Probe Φ4×L250mm, Cable L190mm	69,000
DH.WHP503021	(2) External / Direct Contact Temp. Probe, **"SS110"**, PT100, **Teflon Coated**, for **"SHP-30D"**, **"SMSH-30D"** and **"SSMHS"**, Probe Φ4×L250mm, Cable L190mm	80,000
DH.WHP503030	(3) External / Direct Contact Temp. Probe, **"SS200"**, PT100, for **"SHP-20D"**, **"SMSH-20D"** Probe Φ4×L250mm, Cable L190mm	51,000
DH.WHP503031	(4) External / Direct Contact Temp. Probe, **"SS210"**, PT100, **Teflon Coated**, for **"SHP-20D"**, **"SMSH-20D"** Probe Φ4×L250mm, Cable L190mm	62,000
DH.WHP503011	(5) Stand Rod, **"RD100"**, Stainless steel, Φ12.7×L450mm for **"SHP-30A/30D"**, **"SMSH-30A/30D"**, Non-screw	10,000
DH.WHP503036	(6) Stand Rod, **"RD200"**, Stainless steel, Φ12×L450mm for **"SHP-20D"**, **"SMSH-20D"**, and **"SSMHS"**	20,000
DH.WHP503012	(7) Holder/ Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

SciLab-brand® 380℃ Analog Premium Hotplate Stirrer, *"WiseTherm® SMSH-A"*, Ceramic-Coated Plate, 1,500 rpm

Built-in Linearity PWM Controller, Superior Temperature Uniformity, Precise Control of Temp. & RPM, 180×180mm or 260×260mm

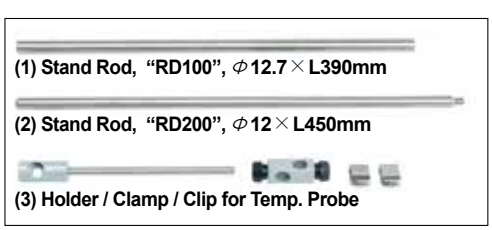
아날로그 가열 자력 교반기, 우수한 온도균일성, 세라믹 코팅 플레이트



(a) 180×180mm Plate-type Hotplate Stirrer "WiseTherm® SMSH-20A"



(b) 260×260mm Plate-type Hotplate Stirrer "WiseTherm® SMSH-30A"



- ***Made in Korea*** ■ ***CE Certified (SMSH-20A)*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature***
- ***Superior Linearity for Temperature Control & Stirring Speed***
- ***Ceramic Coated Plate-Chemical / Acid Resistance***

* Excellent for Sample Drying and most General Lab Heating Applications
* Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
* Superior Linearity for Temperature Control & Stirring Speed by Specially Designed Control Circuitry.(PWM Control)
* Smart Design of Body made by Aluminum Die-Casting (SMSH-20A)
* Ceramic Coated Plate-Chemical/Acid Resistance
* Maximum Temperature of 380℃

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SMSH-20A"	(b) "WiseTherm® SMSH-30A"
Plate Size		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed Range		Max. 1,500 rpm	
Temp. Range		Max. 380℃	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1.2 kW
Controller		Superior Linearity PWM Controller	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.3kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SMH03120**	**SL.SMH03121**
	120V	**SL.SMH02120**	**SL.SMH02121**
Price, Each. ₩		170,000	386,000

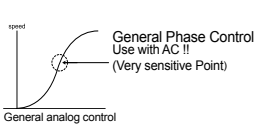
*** Other Specifications are available upon Customer's Request.**

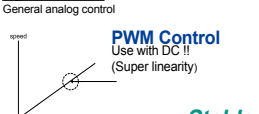
Optional Stand Rod & Holder/Clamp

		Ea. Price, ₩
DH.WHP503011	(1) Stand Rod, **"RD100"**, Stainless steel, Non-screw Φ12.7×L390mm, for **"SHP-30A/30D", "SMSH-30A/30D"**	10,000
DH.WHP503036	(2) Stand Rod, **"RD200"**, Stainless steel, 1.5p screw, Φ12×L450mm, for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS"**	20,000
DH.WHP503012	(3) Holder / Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

Specialized Features

High Stability in Very Low & High-Temperature

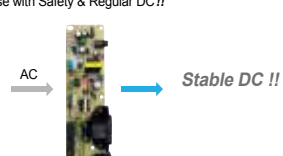




Realize ***Stable & Easy to Use!***

Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC *!!*



SSR (Solid State Relay)-Non Contact
No Electronic Harm!

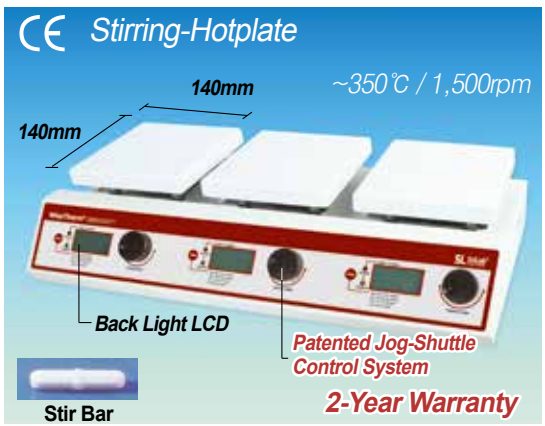
Realize ***Long Life Cycle!***

Articles	Cat. No	Description

SciLab-brand® 350℃ Systematic Multi-Hotplate Stirrers, 3- or 6- Places, *"WiseTherm® SSMHS"*

with Digital Feedback Control, Independent Heating & Stirring Control, up to 350℃, 80~1,500 rpm

멀티 가열 자력 교반기, 우수한 온도균일성, 3- or 6- 구 개별 조절 가능

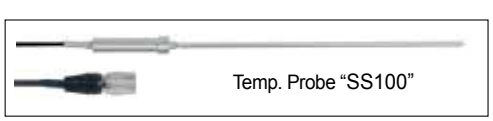


(a) 3×1 Plates-type Multi-Hotplate Stirrer "WiseTherm® SSMHS-3"

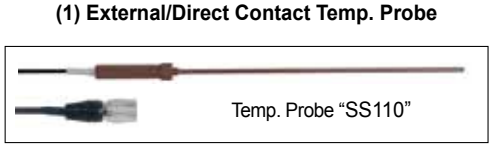


(b) 3×2 Plates-type Multi-Hotplate Stirrer "WiseTherm® SSMHS-6"

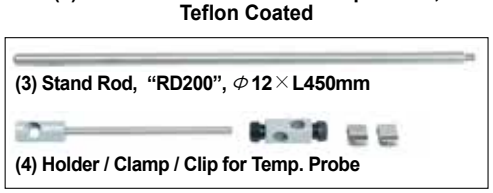
※ 3 Rear Hotplate Stirrer SSMHS-6 have 3 Ports available to connect External Temp. Probe



(1) External/Direct Contact Temp. Probe



(2) External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Excellent for Multi-use and wide range Sample Testing***
- ***Patented Jog-Shuttle Control System***
- ∗ Systemized 3- and 6-Hotplate Stirrer
- ∗ Independent Heating and Stirring Control
- ∗ Digital Feedback Control by High-Performance Microprocessor
- ∗ Ceramic Coated Plate-Chemical/Acid Resistance
- ∗ Maximum Temperature of 350℃ with ±0.3℃ Control Accuracy
- ∗ Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (Optional)
- ∗ Digital LCD with Back-Light Function
- ∗ Digital Timer Function Included : 99 hr 59 min
- ∗ Storage Function for the Set Values : Temperature, RPM and Timer
- ∗ Locking Mode for Experimental Safety Supported

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SSMHS-3"	(b) "WiseTherm® SSMHS-6"
Plate-type		3×1 Plates-type	3×2 Plates-type
Material		Plate : Ceramic Coated Aluminum, Body : Powder Coated steel	
Plate Size(mm)		140×140	
Stirring Capa. & Motor Rating		Max. 20 Lit.(H2O), 9/4W×3	Max. 20 Lit.(H2O), 9/4W×6
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 350 ℃, ±0.3℃ at Set Temp.	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		400 W ×3 Plates	400 W ×6 Plates
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Room Temp. +5 ~ 50℃, 85% RH	
Dimension & Weight		510×240×h100mm, 10kg	510×410×h180mm, 18kg
Packing Size & Gross Weight		540×330×h170mm, 10kg	570×540×h230mm, 18kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	**230V**	**SL.SMH03503**	**SL.SMH03506**
	120V	**SL.SMH02503**	**SL.SMH02506**
Price, Each. ₩		847,000	1,233,000

∗ Other Specifications are available upon Customer's Request.

※ 3 Rear Hotplate Stirrer SMHS-6 have 3 Ports available to connect External Temp. Probe.

※ 운임 약 ₩ 9.000 별도!

Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503020	(1) External / Direct Contact Temperature Sensor, **"SS100", PT100,** for **"SHP-30D", "SMSH-30D"** and **"SSMHS"** Probe Φ4×L250mm, Cable L190mm	69,000
DH.WHP503021	(2) External / Direct Contact Temperature Sensor, **"SS110", PT100, Teflon Coated**, for **"SHP-30D", "SMSH-30D", "SSMHS"** Probe Φ4×L250mm, Cable L190mm	80,000
DH.WHP503036	(3) Stand Rod, **"RD200",** Stainless-steel, Φ12×L450mm for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS",** 1.5p Screw	20,000
DH.WHP503012	(4) Holder / Clamp / Clip, **"CL220",** for Temp. Probe	25,000

SciLab Korea

Incubators

General Purpose, General-purpose, Forced-air ····· P. 104~105
, Gravity-air ····· P. 106~107
, Multi-room, Forced-air ····· P. 108~109
Heating Block/Dry Bath Incubator ····· P. 110~113
Humidity/Temp. Test Chamber ····· P. 114~117
Low Temperature(B.O.D), General-type ····· P. 118~119
Plant Growth Chamber, SMART-type ····· P. 120~121
Shaking, Bench Top-type ····· P. 124~125
, Front Door-type ····· P. 122~123
, Multi-stack, Refrigerated ····· P. 128~129
, Top Door-type ····· P. 126~127

NEW



B.O.D Incubators
"WiseCube® LT-150"

NEW



Incubators, Forced-air
"WiseCube® SIF-105"

NEW



Shaking Incubators
"WiseCube® SI-20"

NEW



Multi-room
Incubators
"WiseCube® SIM-4"

NEW

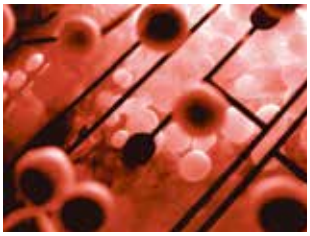


Shaking Incubators
"WiseCube® SI-30"

Maximum Convenience by Advanced Digital Technology

Features of SciLab Incubators





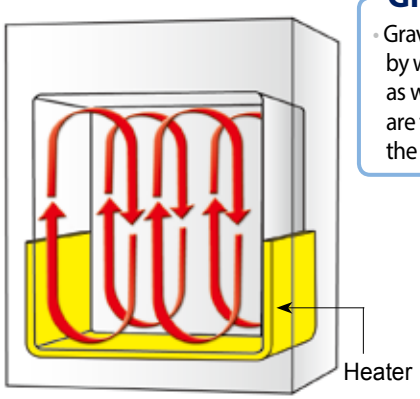
High Performance Heating Mechanism of SciLab accomplishing world's best temperature accuracy and uniformity

The new types of Incubator of SciLab are outfitted with high performance heating mechanism that is optimized respectively for capacity of chamber, power of heating element and air circulation type (Gravity Convection or Forced Convection).

The temperature displayed on the controller is accurately consistent with the actual temperature in the very center of the chamber or the average temperature in the entire area of the chamber, which maintains precisely within fluctuation specification. In addition, the temperature in the entire area of the chamber shows a very high stability keeping within a very slight variation specification in terms of temperature uniformity. Simultaneously, through the optimization of Fuzzy-PID controller, the 'heat-up time' to reach the Set Temperature after operating and the 'recovery time' to get back to the set temperature after opening and closing of the door are very short.

The newly developed high performance heating mechanism has achieved high degree of temperature accuracy and uniformity in the chamber. This is achieved by the heating elements installed on three sides - that is, the left, right and bottom parts of a chamber - which directly heat the stainless-steel chamber. This either enhances its material thermal conductivity to maximum (in case of the Incubator) or the heated air from the pre-heating zone in air-jacket type that is built in the three sides outside a chamber circulates first (in case of the Oven).

» Incubators

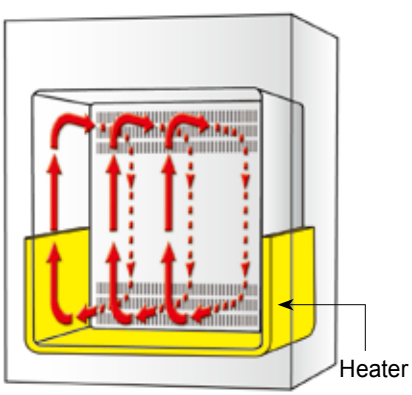


Gravity-air

- Gravity convection is to be supplemented and maximized by way of forming radiant and conductive heat on the bottom as well as both sides of the chamber, while heating elements are fitted closely to the three sides outside the chamber by the steel structure of 1.5mm in thickness.

Forced-air

- The same heating structure as Gravity Air-Flow model.
- Installs an air-flow room with a fan built in the back side of the chamber to achieve effective forced convection.
- Achieves high temperature uniformity and minimizes mutual contamination between samples by maintaining air flow in forced convection to top.



■ High Performance Heating Mechanism

The world's best performance and quality coming true via innovative heating mechanism !!

» Minimum

Fluctuation !
Minimization of Fluctuation in Temperature

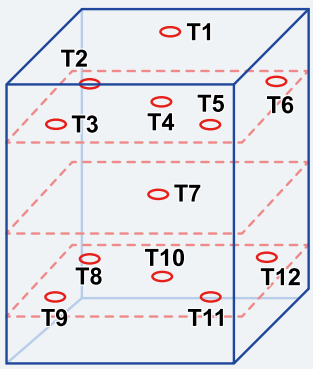
Variation !
Minimization of spatial variation in temperature inside the chamber

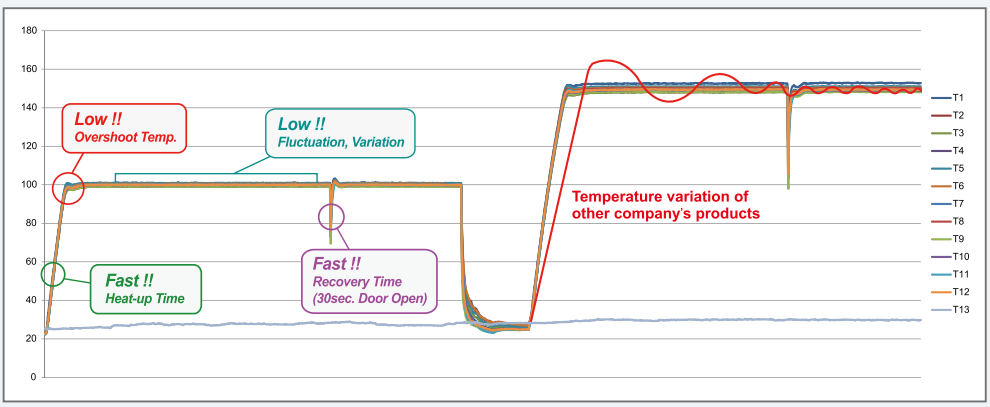
Heat-up Time !
Minimization of reaching the set temperature

Overshoot !
Minimization of overshooting at the time of reaching the set temperature

Temperature Uniformity Completely Tested by ASTM Standards

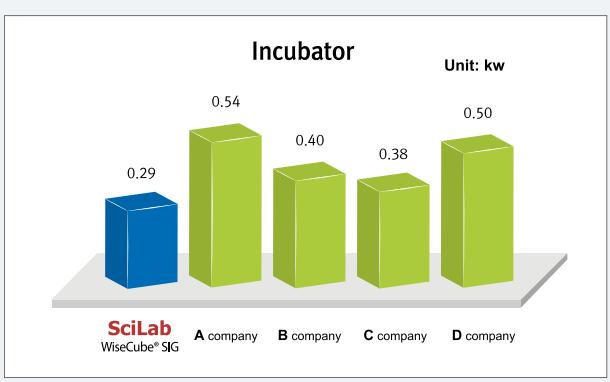
All the units supplied by SciLab Scientific are thoroughly tested, using 12 temperature sensors and the latest instruments to obtain validation, which corresponds to international standards. That is, Fluctuation and Variation (Uniformity) standards described in catalogues are actually guaranteed as the same.

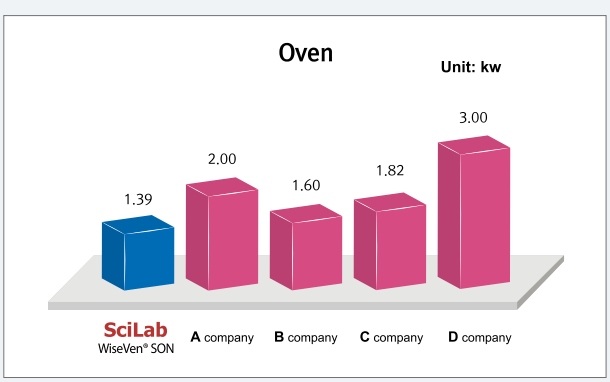




Green Product

This is an environment-friendly product that achieves minimum power consumption by using heating element consuming minimum power for the capacity and temperature of the chamber, high-quality insulator and insulation structure, and complete door structure that guarantees shielding.





New Jog-Dial Controller (SIF, SIG models)



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.

SciLab-brand® Forced-air Incubators, *"WiseCube® SIF"*, 3-Side Heating Zone, 50-/105-/155 Lit. NEW

With 2 × Wire Shelves/Digital PID Control/Jog-Dial & Push Button/Digital LCD/Backlight/Certi. & Traceability, up to 70℃, ±0.2℃

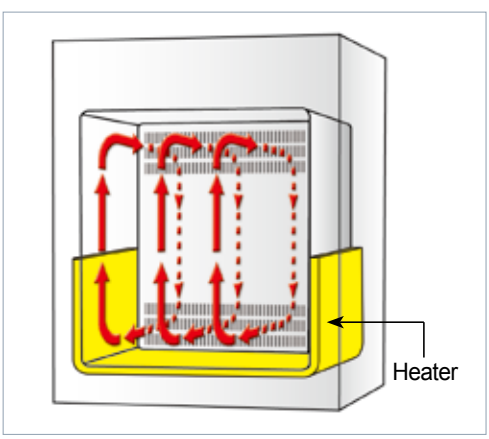
강제 순환식 배양기/인큐베이터, 디지털 퍼지 컨트롤, 우수한 온도균일성



"WiseCube® SIF-105", Forced-air Incubator

- ***Made in Korea*** ■ ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Optimized Air Flow by Forced-air Mechanism***
- ***3-Side Heating Mechanism : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism***
- ***Patented Jog-Dial Control System***
- ***GD(Good Design)-mark*** ■ ***PL (Product Liability) Insurance***

* Various Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
* Optimized Air Flow by Forced-air Mechanism
* Digital PID Control System Implementing Superior Temperature Accuracy
* New Jog-Dial with Push Button * Compact New Body Design
* 2 ea of PE-coated steel Wire Shelves Included
* Alarm Function : Error status and Timer-end
* RS232C Interface for Monitoring and Controlling with PC
* Ambient to 70℃ of Temp. Range, Fluctuation of ±0.2℃ at 37℃, ±0.3℃ at 50℃
* Storage Function of Temperature and Timer setting values
* Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
* Corrosion Resistant 304 Stainless-steel Chamber
* Incubator Temperature & Incubator Current Protection, Sensor Error Detection



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism.

Specification

Spec. \ Model		WiseCube® SIF-50	WiseCube® SIF-105	WiseCube® SIF-155
Capacity		**50 Lit.**	**105 Lit.**	**155 Lit.**
Dimension (w×d×h)	**Interior (mm)**	370×350×419	485×410×533	550×475×600
	Exterior (mm)	518×637×700	635×695×841	700×760×906
Heater Power		200W	300W	400W
Temp.	**Range**	Room Temp. +5℃ to 70℃		
	Fluctuation	± 0.2℃ at 37℃, ± 0.3℃ at 50℃		
	Variation	± 0.5℃ at 37℃, ± 0.9℃ at 50℃	± 0.4℃ at 37℃, ± 0.7℃ at 50℃	
	Sensor	PT 100		
Control Resolution		±0.1℃		
Heat-up Time		17 min. to 37 ℃, 28 min. to 50℃	17 min. to 37℃, 30 min. to 50℃	
Recovery Time (Door open 30sec)		3 min. to 37℃, 4 min. to 50℃		
Controller		Digital PID Control by Advanced Microprocessor Jog-Dial with Push Button		
RS232 Port		Available to connect with PC		
Display		Digital LCD with Back Light		
Timer		99hr 59 min (delay/continuous function)		
Material	**Internal**	Stainless-steel (#304)		
	External	Powder Coated steel		
	Inner Door	Inner Tempered Glass Door		
Shelves		2ea of PE-coated steel Wire Shelves included, Load per Shelf : 16 kg		
Ventilation		1ea of Ventilation hole with Stainless steel Cap, Hole Diameter 40mm		
Circulation		Forced-air Type		
Safety device		Over Temp. and Over Current Protector, Sensor Error Detector		
Others		CE Certified, GD-mark Storage Function(Temp. and Time) Locking Mode(Jog-Dial Input Disabled) Alarm (Error Status and Timer-end)		
Net Weight (kg)		46	66	81
Packing Size (w×d×h) (mm)		628×752×775	710×731×1,018	731×810×1,018
Shipping Weight (kg)		58	74	92
Power Consumption		216.3 W	302.9 W	438.1 W
Energy Consumption, at 37℃		28 Wh	43 Wh	58 Wh
, at 50℃		84 Wh	129 Wh	145 Wh
Electrical Reqts.		120V, 60Hz or 230V, 50/60Hz		

*** Other Specifications are available upon Customer's Request.**

<Continued On Next Page>

<*Continued From...* SciLab-brand® Forced-air Incubators, *"WiseCube® SIF"*>

※ 운임 약 ₩ 25,000 별도!

Ordering Information

		Ea. Price, ₩
SL.SIF03050	Incubator, Forced, **230V, 50 Lit, "WiseCube® SIF-50"**	1,333,000
SL.SIF03105	**, 105 Lit, "WiseCube® SIF-105"**	1,529,000
SL.SIF03155	**, 155 Lit, "WiseCube® SIF-155"**	1,664,000
SL.SIF04050	Incubator, Forced, **120V, 50 Lit, "WiseCube® SIF-50"**	1,333,000
SL.SIF04105	**, 105 Lit, "WiseCube® SIF-105"**	1,529,000
SL.SIF04155	**, 155 Lit, "WiseCube® SIF-155"**	1,664,000

Spare PE-coated Steel Wire Shelves

		Ea. Price, ₩
DH.WIG11050	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 50 Lit, "IGS050"**, w340×d310mm	16,000
DH.WIG11105	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 105 Lit, "IGS105"**, w455×d375mm	19,000
DH.WIG11155	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 155 Lit, "IGS155"**, w520×d440mm	22,000

Optional Stainless-steel Wire Shelves

		Ea. Price, ₩
DH.WON11050	Wire Shelf, Stainless-steel, with 2 Brackets, **for 50 Lit, "ONS050"**, w340×d310mm	28,000
DH.WON11105	Wire Shelf, Stainless-steel, with 2 Brackets, **for 105 Lit, "ONS105"**, w455×d375mm	32,000
DH.WON11155	Wire Shelf, Stainless-steel, with 2 Brackets, **for 155 Lit./305Lit, "ONS155"**, w520×d440mm	36,000

Forced Convection Incubator with Validation (IQ, OQ) Service

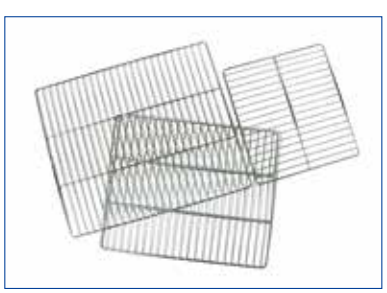
		Ea. Price, ₩
SL.SIF31050	Validation Service(IQ, OQ), with "WiseCube® SIF-50", **"IFV050"**	On Request
SL.SIF31105	, with "WiseCube® SIF-105", **"IFV105"**	On Request
SL.SIF31155	, with "WiseCube® SIF-155", **"IFV155"**	On Request



"WiseCube® SIF-105", Forced-air Incubator

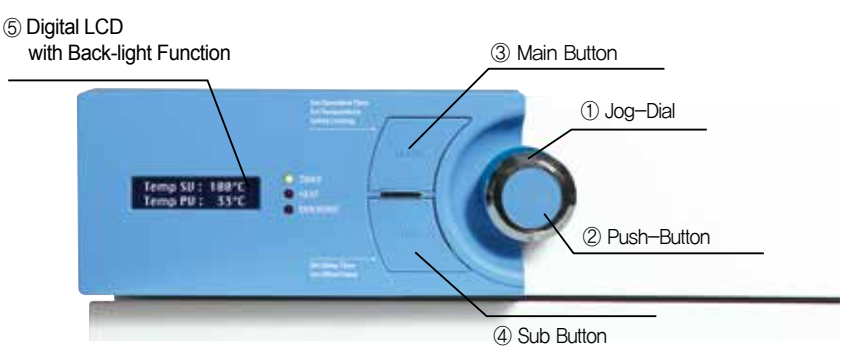


Wire Shelves, PE-coated Steel (Included)



Wire Shelves, Stainless-steel (Optional)

>> New Jog-Dial Controller



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.



WiseRemote Control Software :

Connection of Temperature Devices
with Interface RS232C to a PC
Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at
www.SciLab.kr Shopping-mall

SciLab-brand® Gravity-air Incubators, *"WiseCube® SIG"*, 3-Side Heating Zone, 32-/50-/105-/155 Lit. NEW

with 2 × Wire Shelves/Digital PID Control,/Jog-Dial & Push Button/Digital LCD & Backlight/Certi. & Traceability, up to 70℃, ±0.2℃

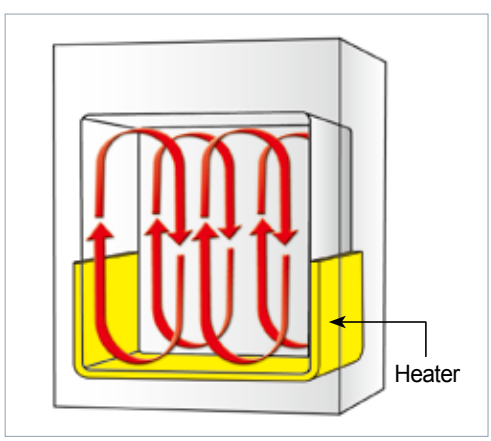
자연 대류식 배양기/인큐베이터, 디지털 퍼지 컨트롤, 우수한 온도 균일도와 정확도



"WiseCube® SIG-105", Gravity-air Incubator

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Optimized Air Circulation by Gravity-air preventing Cross Contamination of Samples***
- ***3-Side Heating Mechanism : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism***
- ***Patented Jog-Dial Control System***
- ***GD(Good Design)-mark*** ***PL (Product Liability) Insurance***

* Various Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temp., Germination, and so on
* Optimized Air Circulation by Gravity-air preventing Cross Contamination of Samples
* Digital PID Control System Implementing Superior Temperature Accuracy
* New Jog-Dial with Push Button * Compact New Body Design
* 2 ea of PE-coated Steel Wire Shelves included
* RS232C Interface for Monitoring and Controlling with PC
* Ambient to 70℃ of Temp. Range, Fluctuation of ±0.2℃ at 37℃, ±0.3℃ at 50℃
* Alarm Function : Error status and Timer-end
* Storage Function of Temperature and Timer setting values
* Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
* Corrosion Resistant 304 Stainless-steel Chamber
* Incubator Temperature & Incubator Current Protection, Sensor Error Detection



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism.

Specification

Spec. \ Model		WiseCube® SIG-32	WiseCube® SIG-50	WiseCube® SIG-105	WiseCube® SIG-155
Capacity		**32 Lit.**	**50 Lit.**	**105 Lit.**	**155 Lit.**
Dimension (w×d×h)	**Interior (mm)**	312×290×360	370×350×420	485×410×535	550×475×600
	Exterior (mm)	458×477×624	518×537×701	635×595×841	700×660×906
Heater Power		150W	200W	300W	400W
Temp.	**Range**	Range Room Temp. +5℃ to 70℃			
	Fluctuation	± 0.2℃ at 37℃, ± 0.3℃ at 50℃			
	Variation	± 0.6℃ at 37℃, ± 1.0℃ at 50℃			
	Sensor	PT 100			
Control Resolution		±0.1℃			
Heat-up Time		25 min. to 37℃, 40 min. to 50℃			30 min. to 37℃, 40 min. to 50℃
Recovery Time (Door open 30sec)		8 min. to 37 ℃ 12 min. to 50 ℃		10 min. to 37 ℃ 15 min. to 50 ℃	
Controller		Digital PID Control by Advanced Microprocessor Jog-Dial with Push Button			
RS232		Available to connect with PC			
Display		Digital LCD with Back Light			
Timer		99hr 59 min (delay/continuous function)			
Material	**Internal**	Stainless-steel (#304)			
	External	Powder Coated steel			
	Inner Door	Inner Tempered Glass Door			
Shelves		2ea of PE-coated Steel Wire Shelves included, Load per Shelf : 16 kg			
Ventilation		1ea of Ventilation hole with Stainless-steel Cap, Hole Diameter 40mm			
Circulation		Gravity-air Type			
Safety device		Over Temp. and Over Current Protector, Sensor Error Detector			
Others		CE Certified, GD-mark Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end)			
Net Weight (kg)		32	40	59	71
Packing Size (w×d×h) (mm)		568×592×698	628×652×775	731×710×1,018	796×775×1,083
Shipping Weight (kg)		39	53	67	78
Power Consumption		159 W	169.9 W	292.9 W	420.5 W
Energy Consumption, at 37℃		34 Wh	41 Wh	63 Wh	99 Wh
, at 50℃		81 Wh	103 Wh	152 Wh	212 Wh
Electrical Reqts.		120V, 60Hz or 230V, 50/60Hz			

*** Other Specifications are available upon Customer's Request.**

<Continued On Next Page>

<*Continued From...* SciLab-brand® Gravity-air Incubators, *"WiseCube® SIG"*>

※ 운임 약 ₩ 25,000 별도!

Ordering Information

		Ea. Price, ₩
SL.SIG03032	Incubator, Gravity, **230V, 32 Lit, "WiseCube® SIG-32"**	1,133,000
SL.SIG03050	**, 50 Lit, "WiseCube® SIG-50"**	1,161,000
SL.SIG03105	**, 105 Lit, "WiseCube® SIG-105"**	1,356,000
SL.SIG03155	**, 155 Lit, "WiseCube® SIG-155"**	1,488,000
SL.SIG04032	Incubator, Gravity, **120V, 32 Lit, "WiseCube® SIG-32"**	1,133,000
SL.SIG04050	**, 50 Lit, "WiseCube® SIG-50"**	1,161,000
SL.SIG04105	**, 105 Lit, "WiseCube® SIG-105"**	1,356,000
SL.SIG04155	**, 155 Lit, "WiseCube® SIG-155"**	1,488,000

Spare PE-coated Steel Wire Shelves

		Ea. Price, ₩
DH.WIG11032	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 32 Lit, "IGS032"**, w280×d260mm	16,000
DH.WIG11050	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 50 Lit, "IGS050"**, w340×d310mm	16,000
DH.WIG11105	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 105 Lit, "IGS105"**, w455×d375mm	19,000
DH.WIG11155	Wire Shelf, PE-coated Steel, with 2 Brackets, **for 155 Lit, "IGS155"**, w520×d440mm	22,000

Optional Stainless-steel Wire Shelves

		Ea. Price, ₩
DH.WIG12032	Wire Shelf, Stainless-steel, with 2 Brackets, **for 32 Lit, "IGSN032"**, w280×d260mm	26,000
DH.WON11050	Wire Shelf, Stainless-steel, with 2 Brackets, **for 50 Lit, "ONS050"**, w340×d310mm	28,000
DH.WON11105	Wire Shelf, Stainless-steel, with 2 Brackets, **for 105 Lit, "ONS105"**, w455×d375mm	32,000
DH.WON11155	Wire Shelf, Stainless-steel, with 2 Brackets, **for 155 Lit./305Lit, "ONS155"**, w520×d440mm	36,000

Gravity Convection Incubator with Validation (IQ, OQ) Service

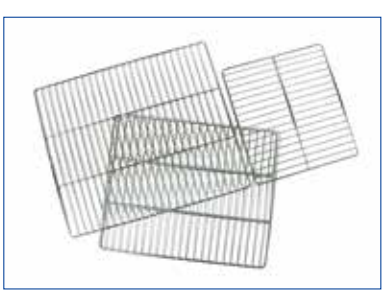
		Ea. Price, ₩
SL.SIG31032	Validation Service(IQ, OQ), with "WiseCube® SIG-32", **"IGV032"**	On Request
SL.SIG31050	, with "WiseCube® SIG-50", **"IGV050"**	On Request
SL.SIG31105	, with "WiseCube® SIG-105", **"IGV105"**	On Request
SL.SIG31155	, with "WiseCube® SIG-155", **"IGV155"**	On Request



"WiseCube® SIG-105", Gravity-air Incubator

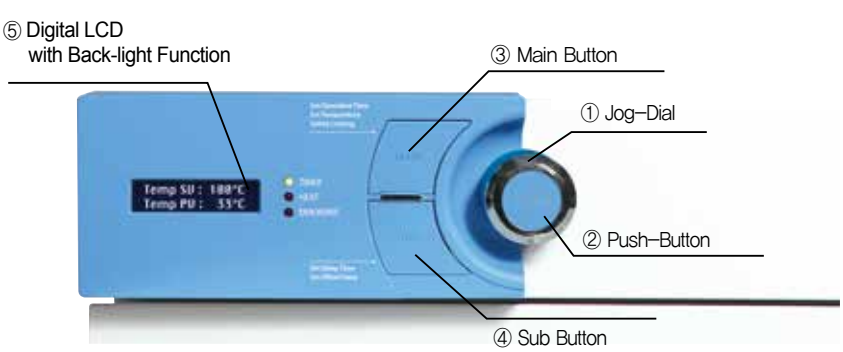


Wire Shelves, PE-coated Steel (Included)



Wire Shelves, Stainless-steel (Optional)

>> New Jog-Dial Controller



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.



WiseRemote Control Software :

Connection of Temperature Devices with Interface RS232C to a PC
Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall

SciLab-brand® Multi-Room Incubator, *"WiseCube® SIM"*, Forced-air, 125 Lit × 4 Rooms, with Certi. & Traceability NEW with 8 × Wire Shelves, Digital Fuzzy Control, Independent Chamber Control, Max. Temp. Uniformity & Accuracy, up to 70℃

4-룸 배양기/인큐베이터, 강제 순환식, 디지털 퍼지 제어, 개별 컨트롤러 장착



(1) Multi-Room Incubator, Forced-air, "WiseCube® SIM-R4"

- ***Made in Korea***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***4×125Lit Rooms : Each Chamber has an Independent Fuzzy Controller for Different Temperature and Time Control***
- ***Patented Jog-Shuttle Control System*** ■ ***PL (Product Liability) Insurance***

* Variable Application : Microorganism Culture, Animal & Plant Cell Culture, Constant Temperature and Germination
* Digital Fuzzy Control System Implementing Superior Temperature Accuracy.
* High-Quality LCD with Back-Light Function
* Forced-air Flow by Silent Fan Motor Implements the Highest Uniformity of Temperature in Each Chamber
* Stainless-steel Chamber and PE-coated Shelves (2ea for Each Chamber) - Corrosion Resistance
* Inner Tempered Glass Door Enables an User to Observe the Samples without Interruption of Incubation
* Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
* Storage Function for Set Values of Temperature and Time
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

Specification

Spec. \ Model		(1) WiseCube® SIM-4	(2) WiseCube® SIM-R4	(3) WiseCube® SIM-RL4
Temp. Range		R/T +5℃~ 70℃	0℃ to 70℃	0℃ to 70℃
Circulation		Forced-air(Blower FAN)		
Capacity		125 Lit.×4 Rooms		
Illumination		None		FRL 36W×2 (×4 Rooms)
Temp.	Range	R/T +5℃ ~ 70℃	0℃ to 70℃	
	Accuracy	±0.2℃ at 37℃		
	Uniformity	±0.3℃ at 37℃, ±0.7℃ at 50℃	±0.5℃ at 37℃	
	Sensor	PT100		
Heat-up Time		15 min. to 37℃ 30 min. to 50℃	20 min. to 37℃ 30 min. to 50℃	
Recovery Time (Door open 30sec)		8 min. to 37℃ 10 min. to 50℃	10 min. to 50℃ 12 min. to 50℃	
Heating Power/Consumption		500 W×4ea	650 W×4ea	
Compressor		None	1/4 HP (×4 Rooms)	
Timer & Alarm		99hr 59min (with delay / Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn & Push)		
Inner Door		with 4ea of Inner Tempered Glass Door		
Shelves		Included 8ea of PE-coated steel Shelves (2ea×4 Chambers)		
Permitted Total Load		Total Load 128 kg (16kg×8 Shelves)		
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector		
Material		Internal : Stainless-steel (#304), External : Powder Coated steel		
Dimension (w×d×h)	Interior (mm)	500×500×h500 mm (× 4 Rooms)		
	Exterior (mm)	1,655×845×h1,710 mm		
Net Weight		343kg	350kg	
Packing Size (w×d×h) (mm)		1,900×1,050×1,950		
Gross Weight		441 kg	450 kg	
Power Consumption		2.6 kW	4.5 kW	4.8 kW
Power Supply*		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz	1 Phase AC 120V, 60Hz or AC 230V,50/60Hz or 3 Phase	

*** Other Specifications are available upon Customer's Request.**

<Continued On Next Page>

Cat. No	Description	Articles

<*Continued From...* SciLab-brand® Multi-Room Incubator, *"WiseCube® SIM"*>

Ordering Information

※ 운임 약 ₩ 95,000 별도!

(1) "SIM-4" with 125 Lit × 4 Rooms, Ambient +5℃~70℃

		Ea. Price, ₩
SL.SIM04125	Multi-Room Incubator, **230V, "SIM-4"**	8,150,000
SL.SIM05125	, **120V, "SIM-4"**	8,185,000

(2) "SIM-R4" with 125 Lit × 4 Rooms, 0~60℃

		Ea. Price, ₩
SL.SIM14125	Multi-Room Incubator, **230V, "SIM-R4"**	11,123,000
SL.SIM15125	, **120V, "SIM-R4"**	10,866,000
SL.SIM16125	, **3Phase**, **"SIM-R4"**	10,866,000

(3) "SIM-RL4" with 125 Lit × 4 Rooms & Illumination, 0~60℃

		Ea. Price, ₩
SL.SIM24125	Multi-Room Incubator, **230V, "SIM-RL4"**	11,441,000
SL.SIM25125	, **120V, "SIM-RL4"**	11,573,000
SL.SIM26125	, **3Phase**, **"SIM-RL4"**	11,867,000

Spare PE-coated Steel Wire Shelves

		Ea. Price, ₩
DH.WIM34125	Wire Shelf, PE-coated steel, with 2 Brackets, **"IMS125"** w470 × d480mm, for **"SIM" 4-Room Incubators**	30,000

Optional Stainless-steel Wire Shelves

		Ea. Price, ₩
DH.WIM34126	Wire Shelf, Stainless steel, with 2 Brackets, **"IMS126"**, w470 × d480mm, for **"SIM" 4-Room Incubators**	45,000

Multi-Room Incubator with Validation (IQ, OQ) Service

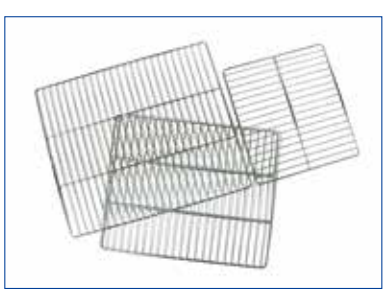
		Ea. Price, ₩
SL.SIM54125	Validation Service(IQ, OQ), with "SIM-4"	On Request
SL.SIM64125	, with "SIM-R4"	On Request
SL.SIM74125	, with "SIM-RL4"	On Request



Multi-Room Incubator, Forced Convection Type "WiseCube® SIM-R4"



Wire Shelves, PE-coated steel (Included)



Wire Shelves, Stainless steel (Optional)

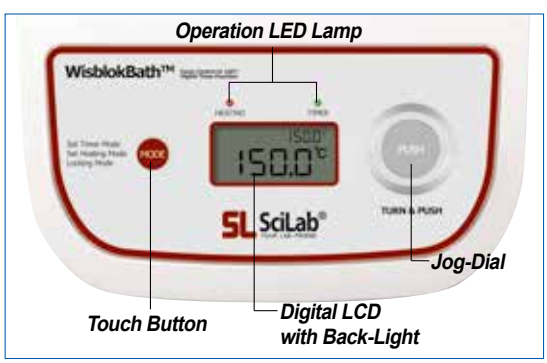
Articles	Cat. No	Description

SciLab-brand® High-performance Heating Block/Dry Bath Incubator, *"WisblokBath™ H10"*, up to 150℃, ±0.1℃ with Fuzzy Control, Molded Heater, Modular Anodized Aluminum Blocks, Acrylic Lid, Touch-button Controller, with Certi. & Traceability

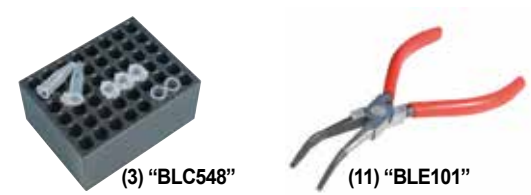
히팅 블럭, 디지털 퍼지 컨트롤 시스템, 터치버튼식 조절기, 일체형 주물 히터, 블럭 교체 가능, 아크릴 리드 / 블럭용 집게 포함 NEW



New Heating Block/Dry Bath "WisblokBath™ H10-set"



New Generation Controller of "WisblokBath™ H10"



(3) "BLC548" (11) "BLE101"

Included Anodized Aluminum Block & Tong

- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Designed for Multi-functional Dry Block Heater*** ■ ***Ergonomic Design***
- ***Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility,***
- ***Best Convenient to Operate. with Back-Light LCD***

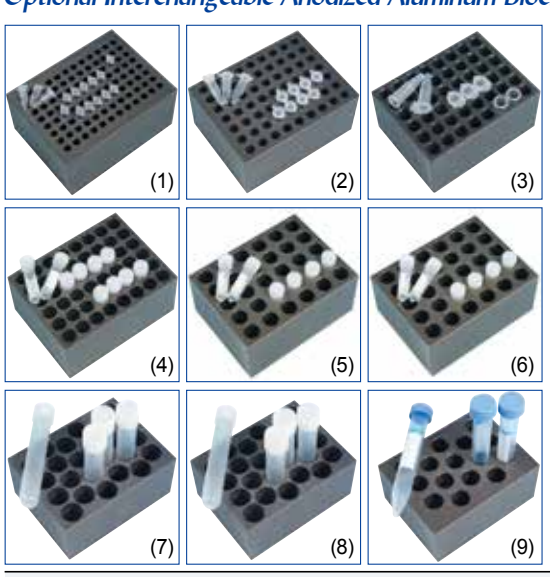
∗ High-performance Molded Heater ensures Best Temperature Accuracy.
∗ Internal Bath Material(PPS) ensures Best Heat Insulation
∗ Ideal for Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures
∗ Precise Temperature Control : ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃
∗ User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0℃)
∗ Digital Timer Included : up to 99hr 59min (Operation Time + Delay Time)
∗ Storage Function of Temperature and Timer setting values ∗ Modular Block
∗ Alarm Function : Error Status and Timer-end ∗ Various kind of Blocks are offered (Optional)
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
∗ The Block Extraction Tongs and Included for Easy Handling

Specifications & Ordering information

Spec. \ Model	"WisblokBath™ H10" (Only Unit)	"WisblokBath™ H10-set" (included Standard Block)
Controller	Single Digital Fuzzy Controller	
Useful Block	Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block	None(Only Heating Block Unit)	48 holes×for 1.5/ 2ml Centri. Tube
Heater	Molded Heater(300W)	
Dimension(mm)	Unit : 210×309×h144, Block : 90×120×h60	
Temp. Range, & Accuracy	Ambient +5℃ to 150℃, ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃	
Heat-Up Speed & Sensor	Approx. 5℃/min, PT100	
Safety Circuit	Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm	99hr 59min, Alarm (Error Status and Timer - end)	
Display	Digital LCD with Back-Light Function	
Material	Unit : PPS & BAS(HF380), Block : Anodized Aluminum	
Included Standard Acce.	Block Tongs "BLE101" and Block Cover	
Packing Size & Gross Weight	400×270×h200 mm, 4 kg	
Power Consumption	300 W	
Electric Reqts.	1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No. 230V	**SL.SHB00348**	**SL.SHB00349**
Cat. No. 120V	**SL.SHB00448**	**SL.SHB00449**
Price, Each. ₩	319,000	463,000

∗ **Other Specifications are available upon Customer's Request.**

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)



		Ea. Price, ₩
DH.WHB510596	(1) for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) for 0.5ml Centri. Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) for 1.5/2ml Centri. Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000
DH.WHB500101	(11) Spare Block Extraction Tongs, **"BLE101"**	21,000

SciLab-brand® High-performance Heating Block/Dry Bath Incubator, Heating, *"WisblokBath™ SHB-96D"*, Dual-type with Fuzzy Control, Molded Heater, Modular Anodized Aluminum Blocks, Acrylic Lid, Touch-button Controller, up to 150℃, ±0.1℃

히팅 블럭, 디지털 퍼지 컨트롤 시스템, 듀얼 조절기/블럭, 일체형 주물 히터, 블럭 교체 가능, 아크릴 리드/ 블럭용 집게 포함



Heating Block/Dry Bath, Dual Control System
"WisblokBath™ SHB-96D-set"

- ■ ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Designed for Multi-functional Dry Block Heater***
- ■ ***Dual Controller & Block***
- ■ ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***
- ∗ Ideal for Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures
- ∗ Precise Temperature Control : ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃
- ∗ User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0℃)
- ∗ Over Temperature & Over Current Protection and Sensor Error Detection
- ∗ Digital Timer Included : up to 99hr 59min (Operation Time + Delay Time)
- ∗ Storage Function of Temperature and Timer setting values ∗ Modular Block
- ∗ Alarm Function : Error Status and Timer-end ∗ Various kind of Blocks are offered (Optional)
- ∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- ∗ The Block Extraction Tongs and Included for Easy Handling



(3) "BLC548"



(11) "BLE101"

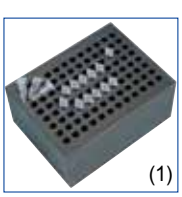
Included Anodized Aluminum Block & Tong

Specifications & Ordering information

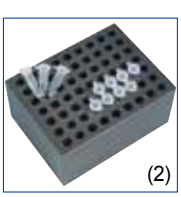
Spec. \ Model	"WisblokBath™ SHB-96D" (Only Unit)	"WisblokBath™ SHB-96D-set" (included Standard Block)
Controller	Dual Digital Fuzzy Controller	
Useful Block	Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block	None(Only Heating Block Unit)	48 holes×for 1.5/ 2ml Centri. Tube
Heater	Molded Heater(300W)×2ea	
Dimension(mm)	Unit : 285×250×h155, Block : (90×120×h60)×2ea	
Temp. Range, & Accuracy	Ambient +5℃ to 150℃, ±0.1℃ at 37℃, ±0.2℃ at 90℃, ±0.4℃ at 135℃	
Heat-Up Speed & Sensor	Approx. 5℃/min, PT100	
Safety Circuit	Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm	99hr 59min, Alarm (Error Status and Timer - end)	
Display	Digital LCD with Back-Light Function	
Material	Unit : Stainless-steel (#304) & Powder Coated steel, Block : Anodized Aluminum	
Included Standard Acce.	Block Tongs "BLE101" and Block Cover	
Packing Size & Gross Weight	400×270×h200 mm, 6 kg	
Power Consumption	600 W	
Electric Reqts.	1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No. 230V	SL.SHB00198	SL.SHB00199
Cat. No. 120V	SL.SHB02198	SL.SHB02199
Price, Each. ₩	624,000	912,000

∗ **Other Specifications are available upon Customer's Request.**

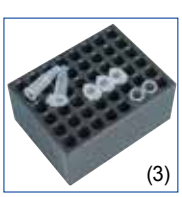
Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)



(1)



(2)



(3)



(4)



(5)



(6)



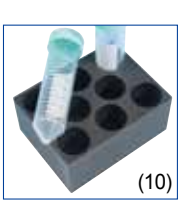
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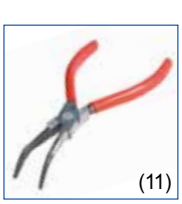
(8)



(9)



(10)



(11)

		Ea. Price, ₩
DH.WHB510596	(1) for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) for 0.5ml Centri. Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) for 1.5/2ml Centri. Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000
DH.WHB500101	(11) Spare Block Extraction Tongs, **"BLE101"**	21,000

Articles	Cat. No	Description

SciLab-brand® High-performance Heating Block/Dry Bath Incubator-Heating & Cooling, *"WisblokBath™ SHB-R48"*

with Digital PID Control, Acrylic Lid, Precise Temperature Control, Modular Anodized Aluminum Block, −5℃~95℃, ±0.1℃ Peltier Cooling System, Digital Timer & PID Control System, Interchangeable Blocks, **히팅/쿨링 블럭, 블럭 교체 가능, 아크릴 리드 포함**



"WisblokBath™ SHB-R48-Set"
with Block "BLC548" for 1.5/2ml Centrifuge Tube×48 holes



(3) "BLC548"



(11) "BLE101"

Included Anodized Aluminum Block & Tong

- ■ ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Designed for Multi-Function : Enzyme Reactions, Inactivation of Sera, Incubation and Other Laboratory Procedures.***
- ■ ***Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function***

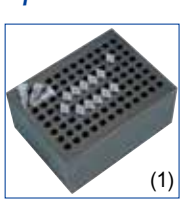
∗ User Self-Compensation Function to offset between Actual and Displayed Temperature. (±10.0℃)
∗ Storage Function of Temperature and Timer setting values
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

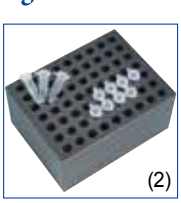
Specifications & Ordering information

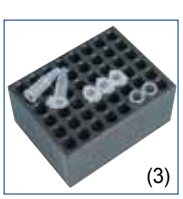
Spec. \ Model		"WisblokBath™ SHB-R48" (Only Unit)	"WisblokBath™ SHB-R48-set" (included Standard Block)
Controller		Digital Fuzzy Controller	
Useful Block		Interchangeable Block(90×120×h60mm) for Various Tubes	
included Standard Block		None(Only Heating Block Unit)	48 holes×for 1.5/ 2ml Centri. Tube
Dimension : Unit & Block		185×230×h220mm, and 90×120×h60mm	
Cooling		Two Peltier Modules	
Cool-Down Speed		2.3℃/min. between 95℃ to 25℃, 0.5℃/min. between 25℃ to -5℃	
Heater and Sensor		300W (Molded Heater), PT100	
Temp. Range, & Accuracy		−5℃ to 95℃, and ±0.1℃ at 37℃, ±0.2℃ at 90℃	
Heat-Up Speed		Approx. 5℃/min	
Safety Device		Over Temp. and Over Current Protector, Sensor Error Detector	
Timer with Alarm		99hr 59min, Alarm (Error Status and Timer - end)	
Display		Digital LCD with Back-Light Function	
Material	Internal & External	Stainless steel (#304), and Powder Coated steel	
	Block	Anodized Aluminum	
Included Standard Acce.		Block Tongs "BLE101" and Block Cover	
Packing Size, Gross Weight		350×220×h310mm, 9 kg	
Power Consumption		450 W	
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	**SL.SHB00248**	**SL.SHB00249**
	120V	**SL.SHB02248**	**SL.SHB02249**
Price, Each. ₩		720,000	864,000

∗ **Other Specifications are available upon Customer's Request.**

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)


(1)


(2)

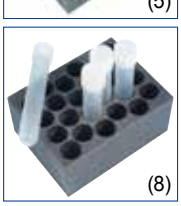

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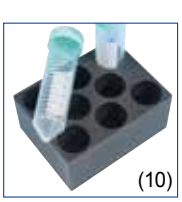

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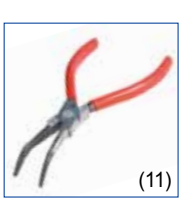

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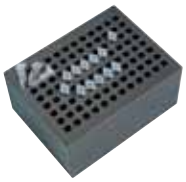

(10)


(11)

		Ea. Price, ₩
DH.WHB510596	(1) for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) for 0.5ml Centri. Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) for 1.5/2ml Centri. Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000
DH.WHB500101	(11) Spare Block Extraction Tongs, **"BLE101"**	21,000

Articles	Cat. No	Description

SciLab-brand® Interchangeable Blocks, *for Heating Block/Dry Bath, Anodized Aluminum, 90×120×h60mm*
Ideal for Various Tubes, Conical- or Round-Bottom Holes, 히팅블럭/드라이베스용 교체 블럭



(1) "BLC596"

For 0.2ml PCR Tube,
(Φ6×h16mm)×96 holes,
Conical Bottom Holes



(2) "BLC570"

For 0.5ml Centrifuge Tube.
(Φ7.7×h29.5mm)×63 holes
Conical Bottom Holes



(3) "BLC548"

For 1.5/2ml Centrifuge Tube.
(Φ11×h36mm)×48 holes,
Conical Bottom Holes
(Included in the Package-Set)



(4) "BLT248"

For Φ12mm Tube.
(Φ12×h35mm)×48 holes,
Round Bottom Holes



(5) "BLT335"

For Φ13mm Tube.
(Φ13×h47mm)×30 holes,
Round Bottom Holes



(6) "BLT535"

For Φ15mm Tube.
(Φ15×h47mm)×30 holes,.
Round Bottom Holes



(7) "BLT628"

For Φ16.5mm Tube.
(Φ16.5×h47mm)×24 holes,
Round Bottom Holes



(8) "BLT828"

For Φ18mm Tube.
(Φ18×h47mm)×24 holes,
Round Bottom Holes



(9) "BLC515"

For 15ml Conical Tube.
(Φ16×h47mm)×15 holes,
Conical Bottom Holes



(10) "BLC008"

For 50ml Conical Tube.
(Φ28.7×h47mm)×8 holes,
Conical Bottom Holes

Ordering Information

Optional Interchangeable Anodized Aluminum Blocks (90×120×h60mm)

		Ea. Price, ₩
DH.WHB510596	(1) Block, for 0.2ml PCR Tube, (Φ6×h16mm)×96 holes, **"BLC596"**	195,000
DH.WHB510570	(2) Block, for 0.5ml Centrifuge Tube, (Φ7.7×h29.5mm)×63 holes, **"BLC570"**	166,000
DH.WHB511548	(3) , for 1.5/2ml Centrifuge Tube, (Φ11×h35mm)×48 holes, **"BLC548"**	157,000
DH.WHB521248	(4) Block, for Φ12mm Test Tube, (Φ12×h35mm)×48 holes, **"BLT248"**	157,000
DH.WHB521335	(5) , for Φ13mm Test Tube, (Φ13×h47mm)×30 holes, **"BLT335"**	157,000
DH.WHB521535	(6) , for Φ15mm Test Tube, (Φ15×h47mm)×30 holes, **"BLT535"**	157,000
DH.WHB521628	(7) , for Φ16.5mm Test Tube, (Φ16.5×h47mm)×24 holes, **"BLT628"**	152,000
DH.WHB521828	(8) , for Φ18mm Test Tube, (Φ18×h47mm)×24 holes, **"BLT828"**	152,000
DH.WHB531515	(9) Block, for 15ml Conical Tube, (Φ16×h47mm)×15 holes, **"BLC515"**	147,000
DH.WHB535008	(10) , for 50ml Conical Tube, (Φ28.7×h47mm)×8 holes, **"BLC008"**	147,000

SciLab-brand® General Purpose SMART Temp./Humidity Chamber, *"WiseCube® STH-E"*, 155-/305-/420-/800-Lit NEW
with Smart-Lab™ System, Water Tank, Touch-Screen LCD, CFC-Free, −20℃~80℃ ±0.3 ℃, up to 95% RH, 스마트 항온항습기



SMART Temp./Humidity Chamber "WiseCube® STH-E"

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Economical & Practical Type*** ■ ***CFC Free Refrigerant (R-404A)***
- ***Smart-Lab™ Controller : Controlled by Smart-Phone***
  - Ergonomic 7″ Full Touch Screen TFT LCD(Smart-Lab™ Controller)
  - WiRe™ App Service.
  - Internet Connectivity with WiFi
  - Self-Diagnostic Function
  - Automatic Data Recording
  - Push Alarm Service to Smart Phone : Power-/Temperature-/Door Open-Error Status
  - Built in USB port for Data Download and Program Upgrade
  - Password Protected Setting
  - Interactive Temperature Graph
  - Digital Calibration(Offset Function)
  - Min-/Max-Temperature Memory
  - Door Ajar and Power Failure Alarm
  - Program Function

∗ Low Water Level Alarm Lamp
∗ Temperature range from −20℃ to 80℃, Relative Humidity from 30% to 95% RH
∗ Inner Tempered Glass Door with Silicon Packing
∗ RS232 Interface for Remote Monitoring and Controlling with PC (Standard)
∗ Temperature & Humidity Recorder(6 Channels & 2Pens) and RS232C Communication Interface (Optional)
∗ The Powerful and Silent Dual Fan Motor Assures Temperature Uniformity by Strong Air Circulation
∗ Over Temperature and Over Current Protection for User Safety

Specifications & Ordering information

Spec. \ Model		WiseCube® STH-E155	WiseCube® STH-E305	WiseCube® STH-E420	WiseCube® STH-E800
Capacity		155 Lit.	305 Lit.	420 Lit.	800 Lit.
Temp.	Range	−20℃ ~ +80℃			
	Accuracy	±0.3℃ (Stability ±1.0 ℃)			
Humidity	Range	30% ~ 95% RH			
	Accuracy	±2% (Stability ±3% RH)			
Dimension (w×d×h)	Interior (mm)	505×505×610	620×620×800	750×660×850	1000×800×1000
	Exterior (mm)	745×920×1645	820×1290×1720	990×1075×1885	1200×1100×1920
Heater	for Temp.	1.5 kW	2.0 kW	2.2 kW	2.5 kW
	for Humi.	2.0 kW	3.0 kW	3.0 kW	3.0 kW
Compressor		7/8HP	1.5 HP	1.5 HP	3 HP
Refrigerant		CFC-Free(R-404A) Refrigeration System			
Controller & Display		Smart-Lab Controller, 7″ Full Touch Screen TFT LCD			
Program Function		Multiple Programs(Patterns by multiple Segments) Supported			
Sensor		PT100 & Capacitive Sensor			
Material	Internal	Stainless-steel (#304)			
	External	Powder Coated steel			
Shelves		3ea of Perforated Stainless steel Shelves of Adjustable Position			
Safety Device		Hi-Low Temp. Protector, Over Current & Leakage Breaker, Water Level Sensor			
Others		PL(Product Liability) Insurance			
Net Weight		290 kg	309 kg	378 kg	558 kg
Packing Dimension (w×d×h) (cm)		99×112×185	122×122×205	128×128×216	149×132×220
Gross Weight		355 kg	369 kg	478 kg	678 kg
Power Consumption		4.4 kW	5.7 kW	6.3 kW	8.2 kW
Electric Reqts.		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase			
Cat. No.	230V	SL.STHE0155	SL.STHE0305	SL.STHE0420	SL.STHE0800
	120V	SL.STHE4155	SL.STHE4305	SL.STHE4420	SL.STHE4800
	3Phase	SL.STHE5155	SL.STHE5305	SL.STHE5420	SL.STHE5800
Price, Each. ₩		10,121,000	11,016,000	11,716,000	13,142,000

∗ Other Specifications are available upon Customer's Request.

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<*Continued From...* SciLab-brand® General Purpose SMART Temp./Humidity Chamber, *"WiseCube® STH-E"*>

Spare Perforated Stainless-steel Shelves

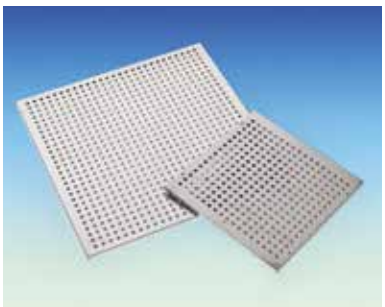
		Ea. Price, ₩
DH.WTH11155	Perforated Shelf, Stainless-steel, **"THS1155",** for 155 Lit, w470×d480mm	100,000
DH.WTH11305	, **"THS1305",** for 305 Lit, w590×d580mm	108,000
DH.WTH11420	, **"THS1420",** for 420 Lit, w720×d640mm	97,000
DH.WTH11800	, **"THS1800",** for 800 Lit, w970×d980mm	152,000

Optional Temp & Humidity Recorder and Chart Paper

		Ea. Price, ₩
DH.WTH05100	Temperature & Humidity Recorder, **"WTH5100"**	2,022,000
DH.WTH05105	Chart Paper, **"WTH5105", 33 Days**	30,000

Economic Temp./Humidity Chamber with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.STHE3155	Validation Service(IQ, OQ), with "WiseCube® STH-E155", **"STHEV155"**	On Request
SL.STHE3305	, with "WiseCube® STH-E305", **"STHEV305"**	On Request
SL.STHE3420	, with "WiseCube® STH-E420", **"STHEV420"**	On Request
SL.STHE3800	, with "WiseCube® STH-E800", **"STHEV800"**	On Request



Perforated Stainless-steel Shelves (Included)



Temp. & Humidity Recorder 6 Channel 2 Pens (WTH5100) (Optional)

>> WiRe™ App Service



7˝ Full Touch Screen TFT LCD (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone

SciLab-brand® SMART Precise Temp./Humidity Chamber, *"WiseCube® STH"*, 155-/305-/420-/800-Lit NEW

with Smart-Lab™, Auto Supplement Water Tank, Touch-Screen LCD, CFC-Free, −40℃/−20℃ to 100℃, up to 98% RH, 스마트 항온항습기



SMART Precise Temp. / Humidity Chamber "WiseCube® STH-155"

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***CFC Free Refrigerant (R-404A)***
- ***Smart-Lab™ Controller : Controlled by Smart-Phone***
  - Ergonomic 7″ Full Touch Screen TFT LCD(Smart-Lab™ Controller)
  - WiRe™ App Service. - Internet Connectivity with WiFi
  - Self-Diagnostic Function - Automatic Data Recording
  - Push Alarm Service to Smart Phone : Power-/Temperature-/Door Open-Error Status
  - Built in USB port for Data Download and Program Upgrade
  - Password Protected Setting - Interactive Temperature Graph
  - Digital Calibration(Offset Function) - Min-/Max-Temperature Memory
  - Door Ajar and Power Failure Alarm - Program Function

∗ Precise Temperature Control (-40℃/-20℃ to 100℃) and Humidity (30% to 98% Relative Humidity)
∗ Electronic Humidity Sensor has Excellent Response Time and Durability.
∗ CFC-Free Refrigerant (R-404A) ∗ Low Water Level Alarm System
∗ Easy and Safety Door Lock
∗ The Powerful and Silent Dual Fan Motor Assures Temperature Uniformity by Strong Air Circulation (2 ~ 4pcs)
∗ Large Clear Viewing Window with Membrane Heating Element (Moisture-Proof)
∗ Sliding Water Supply Tank : Auto Water Supplementing System
∗ Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking
∗ RS232C Interface for Remote Monitoring and Controlling with PC (Standard)
∗ 6 Channels & 2 Pens Temperature & Humidity Recorder(Optional)

Specification

Spec. \ Model		WiseCube® STH-155	WiseCube® STH-305	WiseCube® STH-420	WiseCube® STH-800
Temp. Range		-20℃ to 100℃			
Humidity Range		30% to 98% RH			
Compressor		7/8HP	1.5HP	1.5HP	3HP
Heater	for Temp.	1.5 kW	2.0 kW	2.2 kW	2.5 kW
	for Humi.	2.0 kW	3.0 kW	3.0 kW	3.0 kW
Spec. \ Model		**WiseCube® STH-L155**	**WiseCube® STH-L305**	**WiseCube® STH-L420**	**WiseCube® STH-L800**
Temp./Humidity Range		-40℃ to 100℃ / 30% to 98% RH			
Compressor		1.5HP	2 HP	3HP	4HP
Heater	for Temp.	1.5 kW	2.0 kW	2.2 kW	2.5 kW
	for Humi.	2.0 kW	2.0 kW	3.0 kW	3.0 kW
Dimension (w×d ×h)	Interior (mm)	505×505×610	620×620×800	700×700×820	1,000×800×1,000
	Exterior (mm)	1,100×960×1,550	1,310×1,080×1,765	1,390×1,135×1,690	1,570×1,245×2,060
Capacity		155 Lit.	305 Lit.	420 Lit.	800 Lit.
Refrigerant		CFC-Free(R-404A) Refrigeration System			
Temp.	Accuracy	±0.3℃			
	Stability	±0.3℃			
Humidity	Accuracy	±0.3% RH			
	Stability	±0.3% RH at 70%			
Heat-up Time		35 min (-20℃ to 80℃)			
Cool-down Time		45 min (+20℃ to -20℃)			
Controller & Display		Smart-Lab Controller, 7″ Full Touch Screen TFT LCD			
Program Function		Multiple Programs(Patterns by multiple Segments) Supported			
Sensor		PT100 & Capacitive Sensor			
Material	Internal	Stainless-steel (#304)			
	External	Powder Coated steel			
Shelves		3ea of Perforated Stainless steel Shelves of Adjustable Position			
Safety Device		Over Temp. and Over Current Protector, Sensor Error and Low Level Detector, Leakage Breaker			
Others		PL(Product Liability) Insurance			
Packing Dimension (w×d×h) (cm)		134×116×175	152×125×207	160×130×202	178×141×237
Gross Weight		353 kg	369 kg	478 kg	678 kg
Power Consumption		4.7 kW	5.7 kW	6.3 kW	9 kW
		6.2 kW	7.9 kW	9.9 kW	12.7 kW
Electric Reqts.		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase			

∗ **Other Specifications are available upon Customer's Request.**

<*Continued On Next Page*>

<*Continued From...* SciLab-brand® SMART Precise Temp./Humidity Chamber, *"WiseCube® STH"*>

Ordering Information

(1) Programmable Temp./Humidity Chamber, 1 Phase

		Ea. Price, ₩
SL.STH01155	Temp. / Humidity Chamber, "**STH-155**", −20℃ to 100℃, 155 Lit, **230V**	11,295,000
SL.STH01305	, "**STH-305**", −20℃ to 100℃, 305 Lit, **230V**	12,092,000
SL.STH01420	, "**STH-420**", −20℃ to 100℃, 420 Lit, **230V**	13,026,000
SL.STH01800	, "**STH-800**", −20℃ to 100℃, 800 Lit, **230V**	16,542,000
SL.STH02155	Temp. / Humidity Chamber, "**STH-L155**", −40℃ to 100℃, 155Lit, **230V**	14,036,000
SL.STH02305	, "**STH-L305**", −40℃ to 100℃, 305Lit, **230V**	14,822,000
SL.STH02420	, "**STH-L420**", −40℃ to 100℃, 420Lit, **230V**	15,457,000
SL.STH02800	, "**STH-L800**", −40℃ to 100℃, 800Lit, **230V**	19,449,000
SL.STH05155	Temp. / Humidity Chamber, "**STH-155**", Same as Above, but only **120V**	11,635,000
SL.STH05305	, "**STH-305**", Same as Above, but only **120V**	13,336,000
SL.STH05420	, "**STH-420**", Same as Above, but only **120V**	13,932,000
SL.STH05800	, "**STH-800**", Same as Above, but only **120V**	16,542,000
SL.STH06155	Temp. / Humidity Chamber, "**STH-L155**", Same as Above, but only **120V**	14,036,000
SL.STH06305	, "**STH-L305**", Same as Above, but only **120V**	14,822,000
SL.STH06420	, "**STH-L420**", Same as Above, but only **120V**	15,457,000
SL.STH06800	, "**STH-L800**", Same as Above, but only **120V**	19,449,000

(2) Programmable Temp./Humidity Chamber, 3Phase, for Customizing

		Ea. Price, ₩
SL.STH07155	Temp. / Humidity Chamber, **"STH-155",** −20℃ to 100℃, 155 Lit.	11,635,000
SL.STH07305	, **"STH-305",** −20℃ to 100℃, 305 Lit.	13,336,000
SL.STH07420	, **"STH-420",** −20℃ to 100℃, 420 Lit.	13,932,000
SL.STH07800	, **"STH-800",** −20℃ to 100℃, 800 Lit.	16,542,000
SL.STH08155	Temp. / Humidity Chamber, **"STH-L155",** −40℃ to 100℃, 155Lit.	14,036,000
SL.STH08305	, **"STH-L305",** −40℃ to 100℃, 305Lit.	14,822,000
SL.STH08420	, **"STH-L420",** −40℃ to 100℃, 420Lit.	15,457,000
SL.STH08800	, **"STH-L800",** −40℃ to 100℃, 800Lit.	19,449,000

Spare Perforated Stainless-steel Shelves

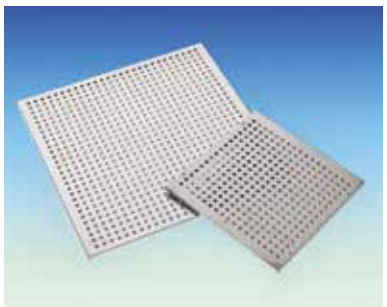
		Ea. Price, ₩
DH.WTH11155	Perforated Shelf, Stainless-steel, **"THS1155",** for 155 Lit, w470×d480mm	100,000
DH.WTH11305	, **"THS1305",** for 305 Lit, w590×d580mm	108,000
DH.WTH11420	, **"THS1420",** for 420 Lit, w720×d640mm	97,000
DH.WTH11800	, **"THS1800",** for 800 Lit, w970×d980mm	152,000

Optional Temp & Humidity Recorder and Chart Paper

		Ea. Price, ₩
DH.WTH05100	Temperature & Humidity Recorder, **"WTH5100"**	2,022,000
DH.WTH05105	Chart Paper, **"WTH5105", 33 Days**	30,000

Programmable Temp./Humidity Chamber with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.STH31155	Validation Service(IQ, OQ), with "WiseCube® STH-155", **"STHV1155"**	On Request
SL.STH31305	, with "WiseCube® STH-305", **"STHV1305"**	On Request
SL.STH31420	, with "WiseCube® STH-420", **"STHV1420"**	On Request
SL.STH31800	, with "WiseCube® STH-800", **"STHV1800"**	On Request
SL.STH32155	Validation Service(IQ, OQ), with "WiseCube® STH-L155", **"STHV2155"**	On Request
SL.STH32305	, with "WiseCube® STH-L305", **"STHV2305"**	On Request
SL.STH32420	, with "WiseCube® STH-L420", **"STHV2420"**	On Request
SL.STH32800	, with "WiseCube® STH-L800", **"STHV2800"**	On Request



Perforated Stainless-steel Shelves (Included)

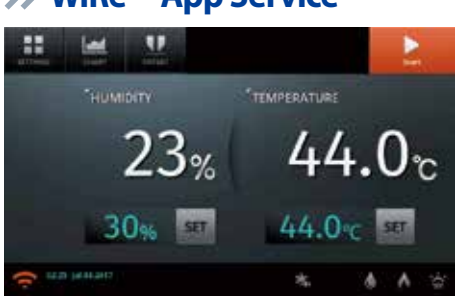


Auto Water Supplementing System



Temp. & Humidity Recorder 6 Channel 2 Pens(WTH5100) (Optional)

>> WiRe™ App Service



7″ Full Touch Screen TFT LCD (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone

Articles	Cat. No	Description

SciLab-brand® Low Temperature(B.O.D) Incubators, *"WiseCube® LT"*, 150-/250-/420-/700-Lit, 0~60℃, ±0.2℃ with 3×Wire Shelves, Digital PID Control, CFC-free Refrigeration(R-404A) System, Forced-air, 0~60℃, ±0.2℃ NEW

저온(B.O.D) 배양기/인큐베이터, 강제 순환식, 우수한 온도정확성, 친환경 냉매 채용, with Certi. & Traceability



Low Temperature(B.O.D) Incubator
"WiseCube® LT-150"



WiseRemote Control Software :

Connection of Temperature Devices with Interface RS232C to a PC
Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall

- ***Made in Korea***
- ***with Certificate & Traceability : Controlled by Serial Number,***
- ***Certificate, Delivery-information, and Traceable Data Base System***
- ***Intelligent Control of Refrigerator for Preventing Overload of Compressor***
- ***CFC-free (R-404A) Refrigeration System***
- ***Digital PID Control System Implementing Superior Temperature Accuracy***
- ***Patented Jog-Dial Control System*** ■ ***PL (Product Liability) Insurance***

∗ Variable Application : Animal & Plant Cell Culture, Constant Temperature, Germination Test, BOD Test, and so on
∗ RS232C Interface for Monitoring and Controlling with PC
∗ Superior Temperature Uniformity by Forced-air
∗ Stainless steel Chamber and PE-coated Shelves
∗ Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking.
∗ Storage Function : Alarm & Timer ∗ Back-Light LCD
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
∗ CFC-free (R-404A) Refrigeration System. ∗ Compact New Body Design

Specifications & Ordering information

Spec. \ Model		WiseCube® LT-150	WiseCube® LT-250	WiseCube® LT-420	WiseCube® LT-700
Capacity		**150 Lit.**	**250 Lit.**	**420 Lit.**	**700 Lit.**
Air Flow-type		Forced-air Type			
Temp. Range & Accuracy		0℃ ~ 60℃, ± 0.2℃ at 37℃			
Temp. Uniformity & Sensor		±0.5℃ at 37℃, ±1.4℃ at 50℃, PT100 Sensor			
Heat-up Time		20 min. to 37℃ 20 min. to 50℃		35 min. to 37℃ 35 min. to 50℃	
Recovery Time (Door open 30sec)		10 min. to 37℃ 12 min. to 50℃		12 min. to 37℃ 15 min. to 50℃	
Heating Power/Consumption		700 W	1 kW	1.2 kW	2 kW
Compressor		1/4HP	1/3HP	1/2HP	1/2HP
Compressor Control		Intelligent Control of Refrigerator for preventing Overload of Compressor			
Refrigerant		CFC-Free(R-404A) Refrigeration System			
Timer & Alarm		99hr 59min (with delay / Continuous run.), Error status & Timer-end			
Display		Digital LCD with Back Light			
Controller		Digital PID Controller with Jog-Shuttle Switch (Turn & Push)			
Inner Door		with 1ea of Inner Tempered Glass Door			
Shelves		Included 3ea of PE-coated steel Shelves			
Permitted Total Load		Total Load : 48 kg (16kg×3 Shelves)			
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector			
Material		Internal : Stainless-steel (#304), External : Powder Coated steel			
Dimension (w×d×h)	**Interior (mm)**	505×505×610	505×505×1,000	705×605×1,000	800×700×1,250
	Exterior (mm)	640×832×1,313	640×832×1,703	840×932×1,753	935×1,027×2,000
Net Weight		118 kg	157 kg	202 kg	234 kg
Packing Size (w×d×h) (mm) & Gross Weight		900×1,000×1,650 191 kg	900×1,000×2,040 217 kg	1,100×1,100×2,140 277 kg	1,220×1,220×2,260 313 kg
Power Consumption		1.6 kW	1.8 kW	2.3 kW	2.4 kW
Electric Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz			
Cat. No.	**230V**	**SL.SIR03150**	**SL.SIR03250**	**SL.SIR03420**	**SL.SIR03700**
	120V	**SL.SIR04150**	**SL.SIR04250**	**SL.SIR04420**	**SL.SIR04700**
Price, Each. ₩		3,040,000	3,373,000	4,605,000	4,909,000

*** Other Specifications are available upon Customer's Request.**

※ 운임 약 ₩ 50,000 별도!

<Continued On Next Page>

Cat. No	Description	Articles

<*Continued From...* SciLab-brand® Low Temperature(B.O.D) Incubators, *"WiseCube® LT"* >

Spare PE-coated Steel Wire Shelves

		Ea. Price, ₩
DH.WIR11150	Wire Shelf, PE Coated steel, **"IRS150"**, w470×d480mm, for **"LT-150", "LT-250"**	30,000
DH.WIR11420	Wire Shelf, PE Coated steel, **"IRS420"**, w675×d585mm, for **"LT-420"**	36,000
DH.WIR11700	, **"IRS700"**, w770×d680mm, for **"LT-700"**	42,000

Optional Stainless-steel Wire Shelves

		Ea. Price, ₩
DH.WIR21150	(1) Wire Shelf, Stainless-steel, **"IRU150"**, w470×d480mm, for **"LT-150", "LT-250"**	45,000
DH.WIR21420	(1) Wire Shelf, Stainless-steel, **"IRU420"**, w675×d585mm, for **"LT-420"**	82,000
DH.WIR21700	, **"IRU700"**, w770×d680mm, for **"LT-700"**	111,000

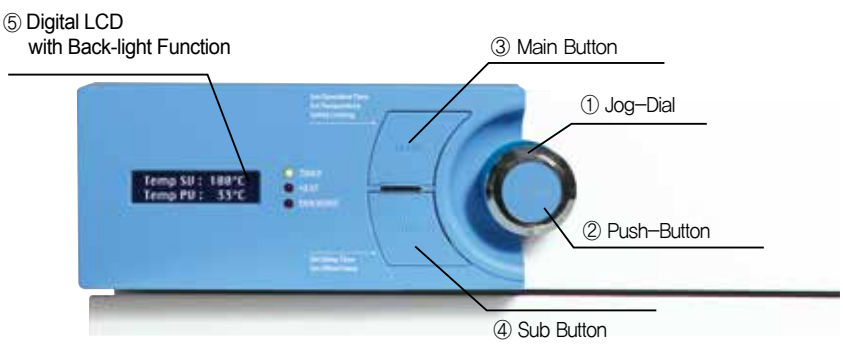
Low Temp(B.O.D) Incubator with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SIR31150	Validation Service(IQ, OQ), with "WiseCube® LT-150"	On Request
SL.SIR31250	, with "WiseCube® LT-250"	On Request
SL.SIR31420	, with "WiseCube® LT-420"	On Request
SL.SIR31700	, with "WiseCube® LT-700"	On Request



Low Temperature(B.O.D) Incubator "WiseCube® LT-150"

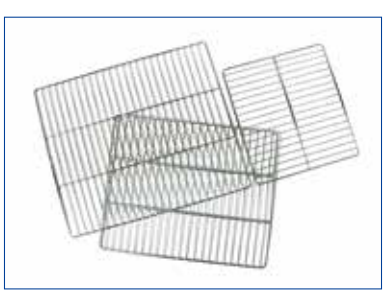
New Jog-Dial Controller



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.



Wire Shelves, PE Coated steel (Included)



(1) Wire Shelves, Stainless steel (Optional)

SciLab-brand® SMART Plant Growth Chamber, *"WiseCube® GC"*, Smart-Lab™ System, 432-/864- Lit. NEW

with Smart-Lab™ Controller, CFC-Free, 0~12,000- or 15,000-Lux, 30~95% RH, 10~60℃, with Certi. & Traceability

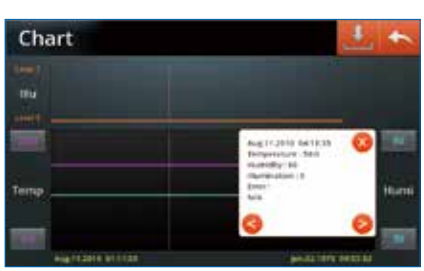
스마트 식물 생장상, 스마트랩 컨트롤러, 정밀한 온도/습도/조절, WiRe™서비스, 7인치 풀터치스크린 스마트랩 조절기



(1) SMART Plant Growth Chamber "WiseCube® GC-450"



Main Display of Smart-Lab™ Controller



Graph Display of Smart-Lab™ Controller



Program Set Display of Smart-Lab™ Controller

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Suitable for Plant Growth, Stability, Product Self-life QC Testing***
- ***Ergonomic Screen Design 7˝ Full Touch Screen TFT LCD (Smart-Lab™ Controller) : Controlled by Smart-Phone***
- ***WiRe™ App Service.*** ■ ***Automatic Data Recording***
- ***Self-Diagnostic Function***
- ***Variable Program Setting for Multiple Patterns with Multiple Segments***
- ***The Recorded Data could be transferred to PC by USB memory***
- ***Controller SW can be upgraded through USB port.***

∗ Inner Tempered Glass Door with Silicone Packing offers easy Observation without Door Opening
∗ Humidity Control by Capacitive Humidity Sensor provides Accurate Control from 30 to 95%RH
∗ Smart-Lab™ Controller Provides Precise Temperature, Relative Humidity and Illumination Control
- Maintain Uniformity and Accuracy of Growth Circumstance
∗ 3-/4- Side Light Bank System : Intensity of Light is controlled by 8-levels and Displayed on LCD
∗ Over Temperature & Over Current Protection, Sensor Error Detection, Leakage Breaking

Specification

Spec. \ Model		(1) "WiseCube® GC-450"	(2) "WiseCube® GC-1000"
Capacity		**432 Lit.**	**864 Lit.**
Temp.	**Range & Variation**	10℃ ~ 60℃, ±1℃ at 20℃	
	Fluctuation	± 0.5℃ at 10℃, ± 0.5℃ at 25℃ (0% light intensity) ± 1℃ at 10℃, ± 1℃ at 25℃ (100% light intensity)	
Humidity	**Range & Variation**	30% ~ 95% RH, ±3% at 60℃	
	Fluctuation	±1%	
	Humidifier	Evaporation by Fan with Heater	
Illumination	**Range**	0 to 12,000 Lux	0 to 15,000 Lux
	Lamp	FPL 55W×14	FPL 55W×28
	Bank	3 Side Walls	
Temp. & Humidity Sensor		Temp. : PT100, Humidity : Capacitive Sensor	
Heat-up Time (up to 37℃)		11 min. (0 % illumination) / 9 min. (100 % illumination)	
Cool-down Time (down to 10℃)		13 min. (0 % illumination) / 15 min. (100 % illumination)	
Temp. Recovery (After Door was opened for 30sec)		3 min. at 10℃, 1 min. at 37℃ (0 % illumination) 5 min. at 10℃, 1min. at 37℃ (100 % illumination)	
Heating Power /Consumption	**for Temp.**	1.5 kW	3.0 kW
	for Humi.	1.5 kW	3.0 kW
Compressor		1/2HP	1HP
Refrigerant		CFC-Free(R-404A) Refrigeration System	
Display		7"Full Touch Screen TFT LCD (Smart-Lab™ Controller)	
Controller		Smart-Lab™ Controller	
Program Function		Temperature and Humidity : 120 Patterns, 1,200 Segments Light Bank : 7 steps	
Door	**Internal**	Tempered Safety Glass with Silicon Packing	
	External	3-Side Magnetic Packing Door with Light Bank	
Shelves		4×PE-coated Steel Shelves	8×PE-coated Steel Shelves
Permitted Total Load		64 kg (16kg×4 Shelves)	128 kg (16kg×8 Shelves)
Safety Circuit		Over Temp Protector, Over Current & Leakage Breaker	
Material		Internal : Stainless-steel (#304), External : Power Coated steel	
Dimension (w×d×h)	**Interior (mm)**	650×700×1,050	1,200×790×1,050
	Exterior (mm)	850×1,090×1,965	1,400×1,150×1,965
Packing Size & Gross Weight		1,400×1,220×h2,210mm, 435 kg	1,600×1,500×h2,200mm, 585 kg
Power Consumption		4.8 kW	6.5 kW
Power Supply*		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase	

*** Other Specifications are available upon Customer's Request.**

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<*Continued From...*SciLab-brand® SMART Plant Growth Chamber, *"WiseCube® GC"*>

Ordering Information

※ 운임 약 ₩ 90,000 별도!

(1) 432 Lit Plant Growth Chamber "ThermoStable™ GC-450", 0~12,000 Lux

		Ea. Price, ₩
SL.SWGC00450*	Plant Growth Chamber, **230V, "WiseCube® GC-450"**	11,581,000
SL.SWGC50450*	, **120V, "WiseCube® GC-450"**	11,581,000
SL.SWGC60450*	, **3 Phase, "WiseCube® GC-450"**	11,583,000

(2) 864 Lit Plant Growth Chamber "ThermoStable™ GC-1000", 0~15,000 Lux

		Ea. Price, ₩
SL.SWGC01000*	Plant Growth Chamber, **230V, "WiseCube® GC-1000"**	14,741,000
SL.SWGC61000*	, **3 Phase, "WiseCube® GC-1000"**	14,740,000

*-marks : Included Water Tank(with Silicon Tube) and Lux Meter

Spare Wire Shelves, PE Coated steel

		Ea. Price, ₩
DH.WGC10450	Wire Shelf, PE Coated, w640×d620mm, **"GCS450",** for **432Lit.**	36,000
DH.WGC11000	, w580×d620mm, **"GCS1000",** for **864Lit.**	33,000

Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SWGC30450	Validation Service(IQ, OQ), with "WiseCube® GC-450", **"SGCV450"**	On Request
SL.SWGC31000	, with "WiseCube® GC-1000", **"SGCV1000"**	On Request



(1) SMART Plant Growth Chamber "WiseCube® GC-450"

WiRe™ App Service



7″ Full Touch Screen TFT LCD
(Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone



Wire Shelves, PE-coated steel (Included)



Water Tank/Silicon Tube/Lux Meter (Included)

Articles	Cat. No	Description

SciLab-brand® Precise Shaking Incubators, *"WiseCube® SI-30"*, Front Door-type, up to 60℃, ±0.2℃, 30~250 rpm with Universal Platform, Fuzzy Control, Orbital Motion, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm

진탕 배양기/인큐베이터, 전면도어 타입, 고정밀 디지털 퍼지제어, Universal Platform 포함 NEW



(a) Room Temp. +5℃~ +60℃, with Universal Platform "WiseCube® SI-30"



(b) +10℃~+60℃, with Universal Platform "WiseCube® SI-30R"

- ***Made in Korea*** ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Useful for Biological Cultures under various Temperature***
- ***Patented Jog-Shuttle Control System***

* Useful for Biological Cultures under various Temperature
* Precise Temperature Control by Digital Fuzzy Controller, up to 60℃
* Digital Timer Function : 99 hours 59 minutes
* Front Door and Sliding Platform Provides Easy Loading and Handling of Samples
* Digital LCD with Back-Light Function
* Stabilized Orbital Motion
* RS232C Interface for Monitoring and Controlling with PC.
* Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
* Minimum Noise and No Vibration.
* Accommodate Flasks up to 1,000ml
* Universal Spring Rack for Various Shapes/Size of Flasks (Optional)
* Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
* Over Temperature & Over Current Protection and Leakage Breaking.

Specifications & Ordering information

Spec. \ Model		(a) "WIseCube® SI-30"	(b) "WiseCube® SI-30R"
Temp. Range		Room Temp. +5℃ ~ 60℃	10℃ ~ 60℃
Temp. Accuracy & Uniformity		Accuracy : ±0.2℃ at 37℃, Uniformity : ±0.5℃ at 37℃	
Capacity		127Lit.	
Temp. Sensor		PT100 Sensor	
Heater		600	W 800 W
Compressor		None	1/4 HP
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor
Refrigerant		None	CFC-Free(404A) Refrigeration System
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks	
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)	
Available Max. Capacity of Flask Holder	for 50~100ml	Available 35 ea Flask Holder, for 50~100ml Flask	
	for 200~300ml	Available 16 ea Flask Holder, for 200~300ml Flask	
	for 500~1,000ml	Available 12 ea Flask Holder, for 500~1,000ml Flask	
Safety Circuit		Over Temp./ Current Protector, Leakage Breaker	
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel	
Dimension		Internal : 570×465×h470mm, External : 916×730×h683mm	
Packing Size (w×d×h) (mm) & Gross Weight		1,050×900×h900mm	
		146 kg	156 kg
Power Consumption		600 W	1.3 kW
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SIS00230**	**SL.SIS01230**
	120V	**SL.SIS00130**	**SL.SIS01130**
Price, Each. ₩		2,837,000	3,738,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 40,000 별도!

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<*Continued From...* SciLab-brand® Precise Shaking Incubators, *"WiseCube® SI-30"*>

Optional Platform/Spring Rack/Flask Holders

		Ea. Price, ₩
DH.WIS504630	(1) Universal Platform, w485×h405mm, **"SP630"**, for **"SI-30(R)"**	90,000
DH.WIS504530	(2) Universal Spring Rack w498×d408×h135mm, **"SR530"**, for **"SI-30(R)"**	423,000
DH.WIS504030	(3) ABS Flask Holder, for 50~100ml Flask, **"FH100"**, for **"SSO", "SSR"** and **"SI"**	7,000
DH.WIS504035	(4) ABS Flask Holder, for 200~300ml Flask, **"FH250"**, for **"SSO", "SSR"** and **"SI"**	7,000
DH.WIS504040	(5) ABS Flask Holder, for 500~1000ml Flask, **"FH500"**, for **"SSO", "SSR"** and **"SI"**	8,000
DH.WIS600100	(6) STS Wire Spring Flask Holder, for 100ml Flask, **"FHS100"**, for **"SSO", "SSR"** and **"SI"**	9,000
DH.WIS600250	(7) STS Wire Spring Flask Holder, for 250ml Flask, **"FHS250"**, for **"SSO", "SSR"** and **"SI"**	10,000
DH.WIS600500	(8) STS Wire Spring Flask Holder, for 500ml Flask, **"FHS500"**, for **"SSO", "SSR"** and **"SI"**	10,000
DH.WIS601000	(9) STS Wire Spring Flask Holder, for 1000ml Flask, **"FHS1000"**, for **"SSO", "SSR"** and **"SI"**	13,000

Shaking Incubator with Validation (IQ, OQ) Service

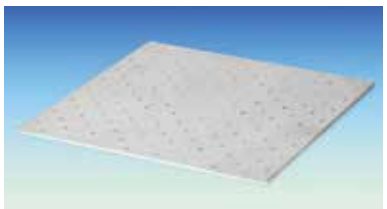
		Ea. Price, ₩
SL.SIS33010	Validation Service(IQ, OQ), with "SI-30"	On Request
SL.SIS33011	, with "SI-30R"	On Request



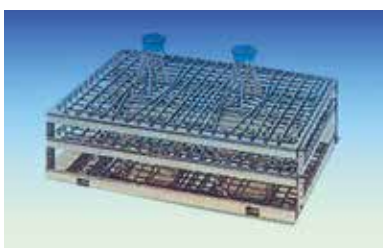
WiseRemote Control Software :

Connection of Temperature Devices with Interface RS232C to a PC
Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall



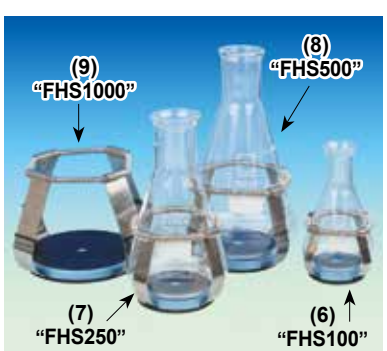
(1) Universal Platform "SP630" (Included)



(2) Universal Spring Rack "SR530" (Optional)



ABS Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)

Articles	Cat. No	Description

SciLab-brand® Precise Shaking Incubators, *"WiseCube® SI-20"*, BenchTop-type, up to 60℃, ±0.2℃, 30~250 rpm with Universal Platform, Fuzzy Control, Orbital Motion, Advanced Shaking Mechanism, Precise Speed Control, 30~250 rpm

진탕 배양기/인큐베이터, 벤치 탑 타입, 고정밀 디지털 퍼지 제어, Universal Platform 포함 NEW



(a) Room Temp. +5℃~ +60℃, with Universal Platform "WiseCube® SI-20"



(b) +10℃~+60℃, with Universal Platform "WiseCube® SI-20R"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Useful for Biological Cultures under various Temperature***
- ***Patented Jog-Shuttle Control System***

* Useful for Biological Cultures under various Temperature
* Precise Temperature Control by Digital Fuzzy Controller, up to 60℃
* Digital Timer Function : 99 hours 59 minutes
* Minimum Noise and No Vibration
* Digital LCD with Back-Light Function
* Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
* Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
* Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking
* Accommodate Flasks up to 1,000ml
* Stabilized Orbital Motion
* RS232C Interface for Monitoring and Controlling with PC
* Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)

Specifications & Ordering information

Spec. \ Model		(a) "WiseCube® SI-20"	(b) "WiseCube® SI-20R"
Temp. Range		Room Temp. +5℃~ 60℃	10℃ ~ 60℃
Temp. Accuracy & Uniformity		Accuracy : ±0.2℃ at 37℃, Uniformity : ±0.5℃ at 37℃	
Capacity		101Lit.	
Temp. Sensor		PT100 Sensor	
Heater		500 W	700 W
Compressor		None	1/4 HP
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor
Refrigerant		None	CFC-Free(404A) Refrigeration System
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Room Lamp		60W Krypton Lamp	
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks	
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)	
Available Max. Capacity of Flask Holder	for 50~100ml	Available 32 ea Flask Holder, for 50~100ml Flask	
	for 200~300ml	Available 20 ea Flask Holder, for 200~300ml Flask	
	for 500~1,000ml	Available 16 ea Flask Holder, for 500~1,000ml Flask	
Safety Circuit		Over Temp./ Current Protector, Leakage Breaker, Sensor Error Detector	
Material		Internal : Stainless-steel (#304), External : Powder Coated steel	
Dimension		Internal : 530×530×h350mm, External : 575×855×h850mm	
Packing Size (w×d×h) (mm) & Gross Weight		1,000×800×h1,100mm	
		147 kg	150 kg
Power Consumption		500 W	1.2 kW
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SIS00220**	**SL.SIS01220**
	120V	**SL.SIS00120**	**SL.SIS01120**
Price, Each. ₩		2,857,000	3,762,000

* Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 40,000별도!**

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<*Continued From...* SciLab-brand® Precise Shaking Incubators, *"WiseCube® SI-20"*>

Optional Platform/Spring Rack/Flask Holders

		Ea. Price, ₩
DH.WIS504600	(1) Universal Platform, w478×h478mm, **"SP600"**, for **"IS-20(R)"**	48,000
DH.WIS504500	(2) Universal Spring Rack w483×d483×h135mm, **"SR500"**, for **"IS-20(R)"**	287,000
DH.WIS504030	(3) ABS Flask Holder, for 50~100ml Flask, **"FH100"**, for **"SHO"**, **"SHR"** and **"IS"**	7,000
DH.WIS504035	(4) ABS Flask Holder, for 200~300ml Flask, **"FH250"**, for **"SHO"**, **"SHR"** and **"IS"**	7,000
DH.WIS504040	(5) ABS Flask Holder, for 500~1000ml Flask, **"FH500"**, for **"SHO"**, **"SHR"** and **"IS"**	8,000
DH.WIS600100	(6) STS Wire Spring Flask Holder, for 100ml Flask, **"FHS100"**, for **"SHO"**, **"SHR"** and **"IS"**	9,000
DH.WIS600250	(7) STS Wire Spring Flask Holder, for 250ml Flask, **"FHS250"**, for **"SHO"**, **"SHR"** and **"IS"**	10,000
DH.WIS600500	(8) STS Wire Spring Flask Holder, for 500ml Flask, **"FHS500"**, for **"SHO"**, **"SHR"** and **"IS"**	10,000
DH.WIS601000	(9) STS Wire Spring Flask Holder, for 1000ml Flask, **"FHS1000"**, for **"SHO"**, **"SHR"** and **"IS"**	13,000

Shaking Incubator with Validation (IQ, OQ) Service

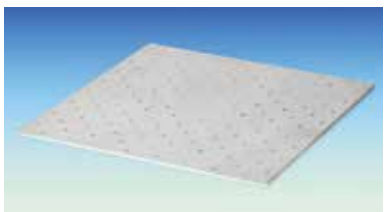
		Ea. Price, ₩
SL.SIS32010	Validation Service(IQ, OQ), with "SI-20"	On Request
SL.SIS32011	, with "SI-20R"	On Request



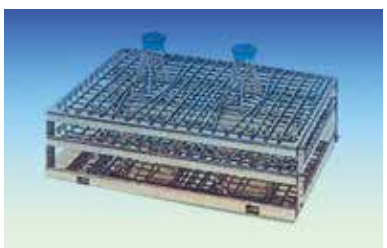
WiseRemote Control Software :

Connection of Temperature Devices with Interface RS232C to a PC
Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall



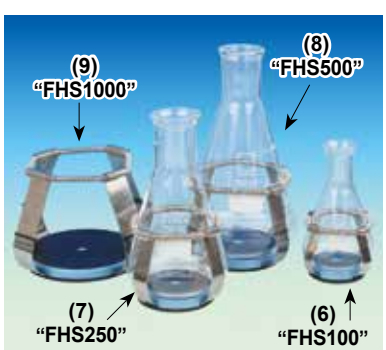
(1) Universal Platform "SP600" (Included)



(2) Universal Spring Rack "SR500" (Optional)



ABS Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)

SciLab-brand® Precise Shaking Incubators, *"WiseCube® SI-10"*, Top Door-type, Orbital Motion, up to 60℃, 30~250 rpm, ±0.2℃ with Universal Platform, Fuzzy Control, with or without illuminators & Recorder, up to 60℃, ±0.2℃, 30~250 rpm NEW
진탕 배양기/인큐베이터, 탑 도어 타입, 고정밀 디지털 퍼지 제어, Universal Platform 포함, with Certi. & Traceability



(a) Room Temp. +5℃~60℃, With Universal Platform "WiseCube® SI-10"



(b) 10℃~60℃, With Universal Platform "WiseCube® SI-10R"

- ***Made in Korea*** ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Useful for Biological Cultures under various Temperature***
- ***Patented Jog-Shuttle Control System***

* Precise Temperature Control by Digital Fuzzy Controller, up to 60℃
* Digital LCD with Back-Light Function
* Minimum Noise and No Vibration
* Advanced Shaking Mechanism Provides Quiet Shaking and Precise Speed Control
* Automatic Stop of Shaking, Heating and Refrigeration when a Door opens
* Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)
* RS232C Interface for Monitoring and Controlling with PC

Specifications & Ordering information

Spec. \ Model		(a) WiseCube® SI-10	(b) WiseCube® SI-10R	(c) WiseCube® SI-10RL
Illumination System		None		FPL 55W×4ea
Temp. Range		R/T +5℃ ~ 60℃	10℃ ~ 60℃	
Temp. Accuracy & Uniformity		Accuracy : ±0.2℃ at 37℃, Uniformity : ±0.5℃ at 37℃		
Capacity		229Lit.		
Temp. Sensor		PT100 Sensor		
Heater		800 W	1 kW	1.2 kW
Compressor		None	1/3HP	
Compressor Control		None	Intelligent Control of Refrigerator for preventing Overload of Compressor	
Refrigerant		CFC-Free (404A) Refrigeration System		
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion		
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back-Light Function		
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)		
Room Lamp		Krypton Lamp, 60W		None
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks		
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)		
Available Max. Capacity of Flask Holder	for 50~100ml	Available 68 ea Flask Holder, for 50~100ml Flask		
	for 200~300ml	Available 36 ea Flask Holder, for 200~300ml Flask		
	for 500~1,000ml	Available 21 ea Flask Holder, for 500~1,000ml Flask		
Safety Circuit		Over Temp./ Current Protector, Leakage Breaker, Sensor Error Detector		
Material		Internal : Stainless-steel (#304), External : Powder Coated steel		
Dimension		Internal : 750×720×h400mm, External : 1,065×900×h980mm		
Packing Size (w×d×h) (mm) & Gross Weight		1,220×1,060×h1,200mm		
		231 kg	238 kg	238 kg
Power Consumption		800 W	1.8 kW	2.1 kW
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Cat. No.	230V	SL.SIS00210	SL.SIS04210	SL.SIS05210
	120V	SL.SIS00110	SL.SIS04110	SL.SIS05110
Price, Each. ₩		3,889,000	4,888,000	5,168,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 40,000별도!

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<*Continued From...* SciLab-brand® Precise Shaking Incubators, *"WiseCube® SI-10"*>

Optional Platform/Spring Rack/Flask Holders/Recorders

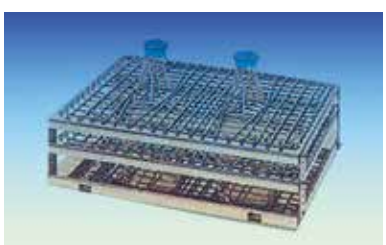
		Ea. Price, ₩
DH.WIS504510	(1) Universal Spring Rack, w693×d653×h135mm, **"SR510"**, for **"IS-10(R/RL)"**	370,000
DH.WIS504610	(2) Universal Platform, w688×h648mm, **"SP610"**, for **"IS-10(R/RL)"**	102,000
DH.WIS504030	(3) ABS Flask Holder, for 50~100ml Flask, **"FH100"**, for **"SHO"**, **"SHR"** and **"IS"**	7,000
DH.WIS504035	(4) ABS Flask Holder, for 200~300ml Flask, **"FH250"**, for **"SHO"**, **"SHR"** and **"IS"**	7,000
DH.WIS504040	(5) ABS Flask Holder, for 500~1000ml Flask, **"FH500"**, for **"SHO"**, **"SHR"** and **"IS"**	8,000
DH.WIS600100	(6) STS Wire Spring Flask Holder, for 100ml Flask, **"FHS100"**, for **"SHO"**, **"SHR"** and **"IS"**	9,000
DH.WIS600250	(7) STS Wire Spring Flask Holder, for 250ml Flask, **"FHS250"**, for **"SHO"**, **"SHR"** and **"IS"**	10,000
DH.WIS600500	(8) STS Wire Spring Flask Holder, for 500ml Flask, **"FHS500"**, for **"SHO"**, **"SHR"** and **"IS"**	10,000
DH.WIS601000	(9) STS Wire Spring Flask Holder, for 1000ml Flask, **"FHS1000"**, for **"SHO"**, **"SHR"** and **"IS"**	13,000
DH.WTH05100	(10) Temperature Recorder, with 6ea Ribbon Cassette & Chart Paper LED, 6ch/10sec, 144×144×h233mm, **"WTH5105"**	2,022,000
DH.WTH05108	Ribbon Cassette, 6 Colors, **"WTH5108"**	78,000
DH.WTH05105	Chart Paper, w100mm×L10m, 33 Days, **"WTH5105"**	30,000

Shaking Incubator with Validation (IQ, OQ) Service

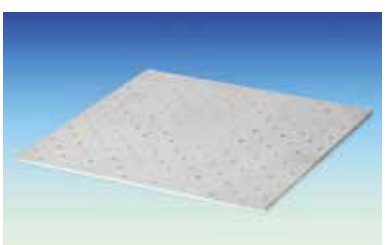
		Ea. Price, ₩
SL.SIS31010	Validation Service(IQ, OQ), with "SI-10"	On Request
SL.SIS31011	, with "SI-10R"	On Request
SL.SIS31012	, with "SI-10RL"	On Request



(c) 10℃~60℃, with Universal Platform & Illumination System "WiseCube® SI-10RL"



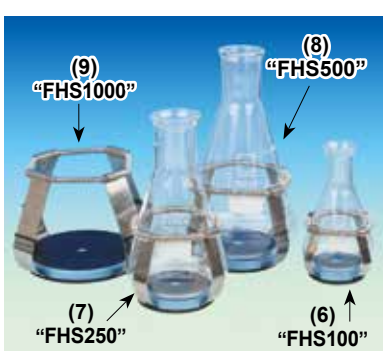
(1) Universal Spring Rack "SR510" (Optional)



(2) Universal Platform "SP610" (Included)



ABS Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)



(10) Temperature Recorder
: with 6ea Ribbon Cassette and Chart Paper



WiseRemote Control Software :

Connection of Temperature Devices with Interface RS232C to a PC
Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall

SciLab-brand® Multi-Stack Refrigerated Shaking Incubator, *"WiseCube® SI-ML"*, Orbital Motion, with 2-/4-Universal Platform with Universal Platform, Digital Fuzzy Control, 2 or 4 Independent Shaking Speed Control, 10~60℃, 30~250 rpm, 2-/4- Stacks

대형 멀티 진탕 배양기, 고정밀 디지털 퍼지 제어, 2-/4-Universal Platform 포함 NEW



Multi-Stack Refrigerated Shaking Incubator with 4×Universal Platform "WiseCube® SI-ML04"

- ***Made in Korea*** ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Excellent for Multi-use and wide range of Sample Testing under various Temperature***
- ***Patented Jog-Shuttle Control System***

* Digital Fuzzy Control System Implementing Superior Temperature Accuracy
* Intelligent Control of Refrigerator for Preventing Overload of Compressor
* High-Quality LCD with Back-Light Function Used
* 10~60℃ Range, Accuracy of ±0.1℃
* Advanced Shaking Mechanism provides Quiet Shaking and Precise Speed Control
* Space Saving Design for Large Quantity Samples with 2 or 4 Independent Shaking Speed Controller
* Automatic Stop of Shaking, Heating and Refrigeration when the Door is Opened
* RS232C Interface for Monitoring and Controlling with PC
* Over Temperature & Over Current Protection and Sensor Error Detection
* Including Universal Platform for Various Shapes and Sizes of Flasks
* Universal Spring Rack for Various Shapes/Sizes of Flasks (Optional)

Specifications & Ordering information

Spec. \ Model		(a) "WiseCube® SI-ML02"	(b) "WiseCube® SI-ML04"
Shaking Stacks		2 Stacks	4 Stacks
Temp. Range & Accuracy		10℃~60℃, ±0.2℃ at 37℃	
Temp. Uniformity & Sensor		±1.0℃ at 37, PT100 Sensor	
Heater		1.5 kW	1.8 kW
Compressor		1/2HP	3/4HP
Compressor Control		Intelligent Control of Refrigerator for Preventing Overload of Compressor	
Refrigerant		CFC-Free(404A) Refrigeration System	
Shaking Speed & Stroke		30 ~ 250 rpm, 25mm Orbital Motion	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch (Turn+Push)	
Door		Magnetic Packing Door with Pair Glass	
Plate Size		w700×d600mm	
Platform		Included Universal Platform for Various Shapes & Sizes of Flasks	
Optional Flask Holder		Durable & Flexible Plastic Flask Holder (up to 1000ml)	
Available Max. Capacity of Flask Holder	for 50~100ml	Available 68 ea Flask Holder, for 50~100ml Flask	
	for 200~300ml	Available 36 ea Flask Holder, for 200~300ml Flask	
	for 500~1000ml	Available 21 ea Flask Holder, for 500~1,000ml Flask	
Safety Circuit		Over Temp./ Current Protector, Sensor Error Detector	
Material		Internal : Stainless-steel (#304), External : Powder Coated steel	
Dimension (w×d×h)	Internal (mm)	700×700×1,100	700×700×1,790
	External (mm)	1,290×850×1,445	1,290×850×2,125
Packing Size (w×d×h) (mm) & Gross Weight		1,500×1,200×1,750	1,500×1,200×2,350
		397 kg	555 kg
Power Consumption		2.4 kW	3.2 kW
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50/60Hz	1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz or 3 Phase
Cat. No.	230V	**SL.SIS05002**	**SL.SIS05004**
	120V	**SL.SIS05102**	**SL.SIS05104**
	3Phase	-	**SL.SIS03004**
Price, Each. ₩		7,748,000	10,543,000

* Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 95,000별도!**

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<*Continued From...* SciLab-brand® Multi-Stack Refrigerated Shaking Incubator, *"WiseCube® SI-ML"*>

Optional Platform/Spring Rack/Flask Holders

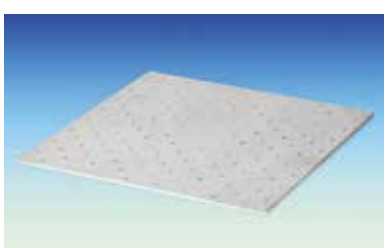
		Ea. Price, ₩
DH.WIS504620	(1) Universal Platform, w645×h645mm, **"SP620"**, for **"WIS-ML02/04"**	102,000
DH.WIS504520	(2) Universal Spring Rack, w653×d653×h135mm, **"SR520"**, for **"WIS-ML02/04"**	357,000
DH.WIS504030	(3) ABS Flask Holder, for 50~100ml Flask, **"FH100"**, for **"SHO", "SHR"** and **"IS"**	7,000
DH.WIS504035	(4) ABS Flask Holder, for 200~300ml Flask, **"FH250"**, for **"SHO", "SHR"** and **"IS"**	7,000
DH.WIS504040	(5) ABS Flask Holder, for 500~1000ml Flask, **"FH500"**, for **"SHO", "SHR"** and **"IS"**	8,000
DH.WIS600100	(6) STS Wire Spring Flask Holder, for 100ml Flask, **"FHS100"**, for **"SHO", "SHR"** and **"IS"**	9,000
DH.WIS600250	(7) STS Wire Spring Flask Holder, for 250ml Flask, **"FHS250"**, for **"SHO", "SHR"** and **"IS"**	10,000
DH.WIS600500	(8) STS Wire Spring Flask Holder, for 500ml Flask, **"FHS500"**, for **"SHO", "SHR"** and **"IS"**	10,000
DH.WIS601000	(9) STS Wire Spring Flask Holder, for 1000ml Flask, **"FHS1000"**, for **"SHO", "SHR"** and **"IS"**	13,000

Validation (IQ, OQ) Service

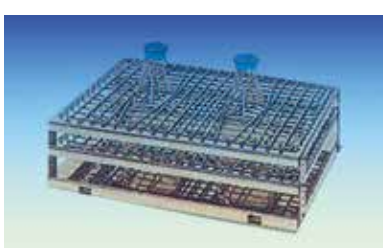
		Ea. Price, ₩
SL.SIS35002	Validation Service(IQ, OQ), with **"SI-ML02"**	On Request
SL.SIS35004	, with **"SI-ML04"**	On Request



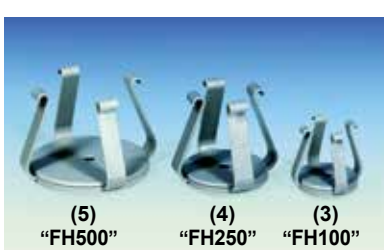
Multi-Stack Refrigerated Shaking Incubator with 4×Universal Platform "WiseCube® SI-ML04"



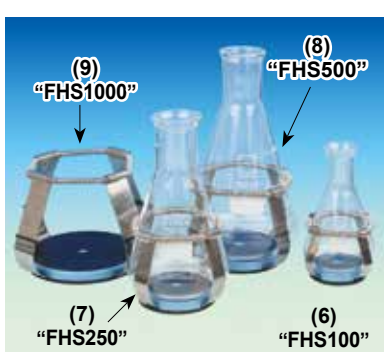
(1) Universal Platform "SP620" (Included)



(2) Universal Spring Rack "SR520" (Optional)



Flask Holders (Optional)



STS Wire Spring Flask Holder (Optional)

SciLab-brand® Programmable Ball Mill, *"WiseMix® SBML"*, 2-/6- Pots, with Certi. & Traceability with Digital Feedback Control System, Digital LCD, 50~600 rpm, ±5 rpm, 10 Steps 6 Programs

디지털/프로그램식 볼밀/자밀, 2구 & 6구용, 정밀형, 속도조절식



(1) 2-Places Programmable Ball Mill "WiseMix® SBML-2"



(2) 6-Places Programmable Ball Mill "WiseMix® SBML-6"



Optional Soundproof Cabinet "BMC-6"
for 6-Places Programmable Ball Mill "WiseMix® SBML-6"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Grinding/Mixing : Crystalline Chemicals, Inks, Paints, Pigments, Plants, Racks and Soils***
- ***Microprocessor, Programmable, Variable Speed : 50~600 rpm***
- ***Digital Feedback Control and LCD : Speed (RPM), Power Bar-Graph and Timer Status***

∗ Antistatic Rubber Roller : Keeps Jars / Pots Centered
∗ Digital LCD with Back-Light Function
∗ Over Load Protection ∗ Ergonomic and Compact Design
∗ NBR Roller with Pot Guide Ring
∗ Programmable Operation : 10 Steps 6 Programs
∗ Storage Function (RPM, Timer)
∗ Soundproof Cabinet for Safety and Minimum Noise (Optional)

Specifications & Ordering information

Spec. \ Model		(1) "WiseMix® SBML-2"	(2) "WiseMix® SBML-6"
Capacity		2-places, up to 2 pots	6-places, up to 6 pots
Motor		DC 40W Geared Motor (5 : 1 ratio)	DC 100W Geared Motor (5 : 1 ratio)
Maximum Load		30 kg	60 kg
Speed Range		50 ~ 600 rpm	
Speed Accuracy		±5 rpm	
Timer		99 hr 59 min (Programmable)	
Display		Digital LCD with Back-Light Function	
Controller		Programmable Digital Feedback Controller with Jog-Shuttle Switch (Turn+Push)	
Program Function		10 Steps, 6 Programs	
Safety Device		Over Load Protector for Motor	
Dimension (w×d×h)	**Roller (mm)**	50×300	70×800
	External (mm)	620×300×515	1,200×500×795
Packing Size (w×d×h) (mm) & Gross Weight		760×460×700	1,300×620×1,010
		52 kg	115 kg
Power Consumption		40 W	100 W
Electric Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	**230V**	**SL.SBM05002**	**SL.SBM05006**
	120V	**SL.SBM05102**	**SL.SBM05106**
Price, Each. ₩		1,324,000	2,538,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 20,000 별도!

Optional Soundproof Cabinets

∗ **Designed for Minimizing Noise, and Safety Work**

		Ea. Price, ₩
DH.WBM505102	Soundproof Cabinet, **"BMC2"**, for **2-places "SBML-2"**, w1,020×d570×h1,120mm	1,480,000
DH.WBM505106	Soundproof Cabinet, **"BMC6"**, for **6-places "SBML-6"**, w1,600×d770×h1,400mm	3,006,000

SciLab Korea

Ovens

General Purpose, General-type, Forced-air ····· P. 134~135
, Gravity-air ····· P. 136~137
High Clean Air ····· P. 138
Industrial/Large-capacity ····· P. 139
Vacuum, General-type ····· P. 140~141
, Vacuum Pumps ····· P. 142



Ovens, Forced-air
"WiseVen® SOF-105"



Vacuum Oven
"WiseVen® SOV-30"



High Clean Air Oven
"ThermoStable™ WOC-560"

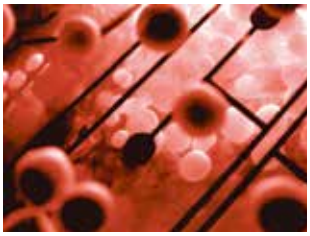


Industrial Oven
"ThermoStable™ WOF-L1000"

Innovative Technology to Improve the Quality of Human Life

Features of SciLab Ovens





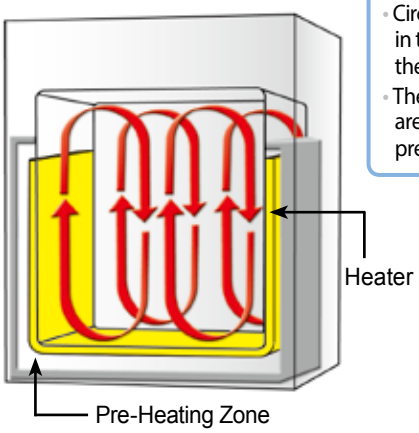
High Performance Heating Mechanism of SciLab accomplishing world's best temperature accuracy and uniformity

The new types of Oven of SciLab are outfitted with high performance heating mechanism that is optimized respectively for capacity of chamber, power of heating element and air circulation type (Gravity Convection or Forced Convection).

The temperature displayed on the controller is accurately consistent with the actual temperature in the very center of the chamber or the average temperature in the entire area of the chamber, which maintains precisely within fluctuation specification. In addition, the temperature in the entire area of the chamber shows a very high stability keeping within a very slight variation specification in terms of temperature uniformity. Simultaneously, through the optimization of Fuzzy-PID controller, the 'heat-up time' to reach the Set Temperature after operating and the 'recovery time' to get back to the set temperature after opening and closing of the door are very short.

The newly developed high performance heating mechanism has achieved high degree of temperature accuracy and uniformity in the chamber. This is achieved by the heating elements installed on three sides - that is, the left, right and bottom parts of a chamber - which directly heat the stainless-steel chamber. This either enhances its material thermal conductivity to maximum (in case of the Incubator) or the heated air from the pre-heating zone in air-jacket type that is built in the three sides outside a chamber circulates first (in case of the Oven).

» Oven

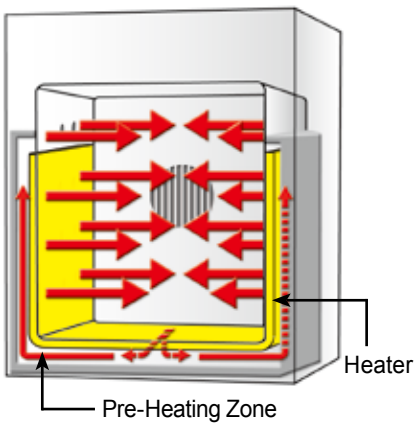


Gravity-air

- Circulation is made by heating elements that first heat the air in the pre-heating zone which surrounds the three sides of the chamber.
- The effects of both three-side heating and gravity convection are to be maximized via providing the heated air from the preheating zone restrictively into the chamber.

Forced-air

- The same three-side heating elements and pre-heating zone as Gravity Air-Flow model.
- The strong fan installed in the back of the chamber sucks the air inside the chamber, which is provided to the pre-heating zone, while the heated air is uniformly and quickly provided into the chamber through its specially designed side and bottom structure.



■ High Performance Heating Mechanism

The world's best performance and quality coming true via innovative heating mechanism !!

» Minimum

Fluctuation !
Minimization of Fluctuation in Temperature

Variation !
Minimization of spatial variation in temperature inside the chamber

Heat-up Time !
Minimization of reaching the set temperature

Overshoot !
Minimization of overshooting at the time of reaching the set temperature

» Perfect Door Lock by Double Latch

The up-and-down double latch structure pushes the door as closely to the chamber as possible, which leads to the minimization of temperature interference inside the chamber by the outside air.

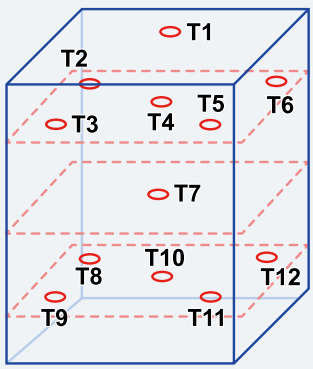


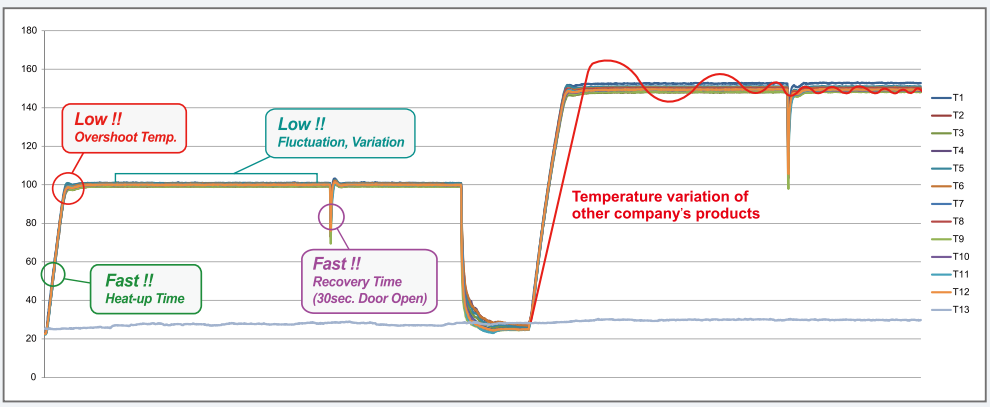
The structure allows the door to adhere firmly and closely to the chamber on both upper and lower sides in a balanced way

- High-performance thermal insulation
- Minimization of thermal losses from heat leak inside the chamber
- Enhancement of temperature accuracy and uniformity

Temperature Uniformity Completely Tested by ASTM Standards

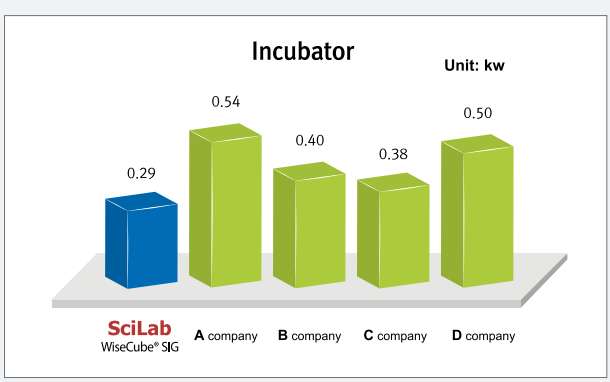
All the units supplied by SciLab Scientific are thoroughly tested, using 12 temperature sensors and the latest instruments to obtain validation, which corresponds to international standards. That is, Fluctuation and Variation (Uniformity) standards described in catalogues are actually guaranteed as the same.

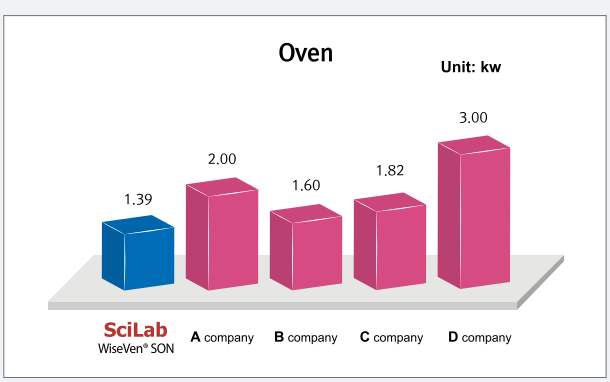




Green Product

This is an environment-friendly product that achieves minimum power consumption by using heating element consuming minimum power for the capacity and temperature of the chamber, high-quality insulator and insulation structure, and complete door structure that guarantees shielding.





New Jog-Dial Controller (SOF, SON models)



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.

SciLab-brand® Forced-air Ovens, *"WiseVen® SOF"*, 3-Side Heating Zone, 50-/105-/155-/305-Lit, up to 250℃, ±0.3℃

with Wire Shelves/Digital PID Control/Jog-Dial & Push Button/Digital LCD/Back-light LCD/Pre-Heating Zone/Certi. & Traceability NEW

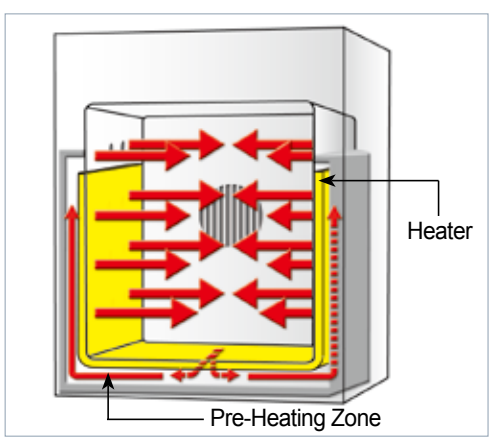
강제 순환식 정밀 건조기/오븐, 고정밀 디지털 퍼지 제어, 우수한 온도 정확성/균일성



(1) Standard Model, "WiseVen® SOF-105"

- ■ *Made in Korea* ■ *CE Certified(Exclude 305 Lit.-model)*
- ■ *with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*
- ■ *3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism*
- ■ *Digital PID Control System Implementing Superior Temperature Accuracy*
- ■ *Optimized Air Flow by Forced-air Mechanism*
- ■ *Patented Jog-Dial Control System*
- ■ *GD(Good Design)-mark* ■ *PL (Product Liability) Insurance*

∗ Suitable for Drying, Baking, Conditioning, Curing, Pre-Heating and Aging
∗ The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism: 3-Side Heating
∗ New Jog-Dial with Push Button ∗ Compact New Body Design
∗ 2~3ea of Stainless-steel Wire Shelves Included ∗ Alarm Function : Error status and Timer-end
∗ RS232C Interface for Monitoring and Controlling with PC
∗ Ambient +5℃ to 250℃ Range with Fluctuation of ±0.3℃ at 100℃
∗ Storage Function of Temperature and Timer setting values
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
∗ Corrosion Resistant 304 Stainless-steel Chamber
∗ Over Temperature & Over Current Protection, Sensor Error Detection



3-Side Heating Zone Forced-air Mechanism :
The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism
(Exclude SOF-305, SOF-W305)



Perfect Door Lock by Double Latch

Specification

Spec. \ Model		(1) Standard Model			
		WiseVen® SOF-50	WiseVen® SOF-105	WiseVen® SOF-155	WiseVen® SOF-305
			(2) Window Model		
			WiseVen® SOF-W105	WiseVen® SOF-W155	WiseVen® SOF-W305
Capacity		50Lit	105Lit	155Lit	305Lit
Dimension (w×d×h)	Interior (mm)	370×345×420	485×415×535	550×480×600	550×470×1,180
	Exterior (mm)	518×647×724	653×712×882	718×777×947	721×777×1,619
Heater Power		650 W	1.4 kW	1.6 kW	3.4 kW
Temp.	Range	Room Temp +5℃ to 250℃			
	Fluctuation	±0.3℃ at 100℃, ±0.5℃ at 150℃			
	Variation	±1℃ at 100℃, ±1.8℃ at 150℃		±1℃ at 100℃, ±2℃ at 150℃	
	Sensor	PT 100			
Control Resolution		±0.1℃			
Heat-up Time		25 min. to 100℃, 45 min. to 150℃		25 min. to 100℃, 40 min. to 150℃	
Recovery Time (Door open 30sec)		8 min. to 100℃, 8 min. to 150℃	6 min. to 100℃, 6 min. to 150℃		
Controller		Digital PID Control by Advanced Microprocessor Jog-Dial with Push Button			
RS232 Port		Available to connect with PC			
Display		Digital LCD with Back Light			
Timer		99hr 59 min (delay/continuous function)			
Material	Internal	Stainless-steel (#304)			
	External	Powder Coated steel			
	Insulation	Glass Wool			
Shelves		2ea of Stainless-steel Wire Shelves included, Load per Shelf : 16 kg			
Ventilation		Ventilation hole with Stainless-steel Cap, Hole Diameter 40mm			
		1ea	2ea		3ea
Circulation		Forced-air Type			
Safety device		Over Temp. and Over Current Protector, Sensor Error Detector			
Others		CE Certified, GD-mark, Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled), Alarm (Error Status and Timer-end)			
Net Weight (kg)		44	69	78	159
Packing Size (w×d×h)(mm)		622×754×807	743×819×1,068	808×884×1,133	1,000×1,000×1,870
Shipping Weight (kg)		59	79	92	219
Power Consumption		674 W	1390 W	1566 W	3200 W
Energy Consumption, at 100℃		117 Wh	187 Wh	204 Wh	-
, at 150℃		230 Wh	337 Wh	398 Wh	-
Electric Reqts.		120V, 60Hz or 230V, 50/60Hz			

∗ Other Specifications are available upon Customer's Request.

<Continued On Next Page>

<*Continued From...* SciLab-brand® Forced-air Ovens, *"WiseVen® SOF"*>

Ordering Information

※ 운임 약 ₩ 25,000 별도!

(1) Standard Model, Forced-air, with Wire Shelves

		Ea. Price, ₩
SL.SOF05050	Oven, Standard, **230V, 50 Lit, "WiseVen® SOF-50"**	1,523,000
SL.SOF05105	**, 105 Lit, "WiseVen® SOF-105"**	1,771,000
SL.SOF05155	**, 155 Lit, "WiseVen® SOF-155"**	1,911,000
SL.SOF05305	**, 305 Lit, "WiseVen® SOF-305"**	3,317,000
SL.SOF06050	Oven, Standard, **120V, 50 Lit, "WiseVen® SOF-50"**	1,523,000
SL.SOF06105	**, 105 Lit, "WiseVen® SOF-105"**	1,771,000
SL.SOF06155	**, 155 Lit, "WiseVen® SOF-155"**	1,911,000
SL.SOF06305	**, 305 Lit, "WiseVen® SOF-305"**	3,317,000

(2) Built in Viewing Window Model, Forced-air, with Wire Shelves

		Ea. Price, ₩
SL.SOF07105	Oven, Window, **230V, 105 Lit, "WiseVen® SOF-W105"**	1,825,000
SL.SOF07155	**, 155 Lit, "WiseVen® SOF-W155"**	1,967,000
SL.SOF07305	**, 305 Lit, "WiseVen® SOF-W305"**	3,397,000
SL.SOF08105	Oven, Window, **120V, 105 Lit, "WiseVen® SOF-W105"**	1,825,000
SL.SOF08155	**, 155 Lit, "WiseVen® SOF-W155"**	1,967,000
SL.SOF08305	**, 305 Lit, "WiseVen® SOF-W305"**	3,397,000

Spare Stainless-steel Wire Shelves

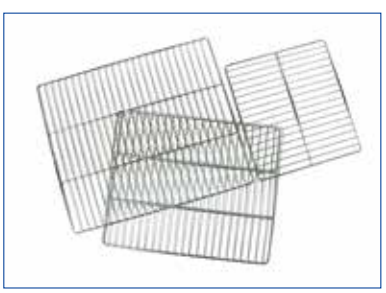
		Ea. Price, ₩
DH.WOF11050	Wire Shelf, for **50 Lit, "OFS050",** w340×d310mm	27,000
DH.WOF11105	, for **105 Lit, "OFS105",** w455×d375mm	31,000
DH.WOF11155	, for **155-/305-Lit, "OFS155",** w520×d440mm	36,000

Forced-air Oven with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SOF31050	Validation Service(IQ, OQ), with "WiseVen® SOF-50", **"OFV1050"**	On Request
SL.SOF31105	Validation Service(IQ, OQ), with "WiseVen® SOF-105", **"OFV1105"**	On Request
SL.SOF31155	Validation Service(IQ, OQ), with "WiseVen® SOF-155", **"OFV1155"**	On Request
SL.SOF31305	Validation Service(IQ, OQ), with "WiseVen® SOF-305", **"OFV1305"**	On Request
SL.SOF32105	Validation Service(IQ, OQ), with "WiseVen® SOF-W105", **"OFV2105"**	On Request
SL.SOF32155	Validation Service(IQ, OQ), with "WiseVen® SOF-W155", **"OFV2155"**	On Request
SL.SOF32305	Validation Service(IQ, OQ), with "WiseVen® SOF-W155", **"OFV2305"**	On Request



(2) Window Model, "WiseVen® SOF-W105"



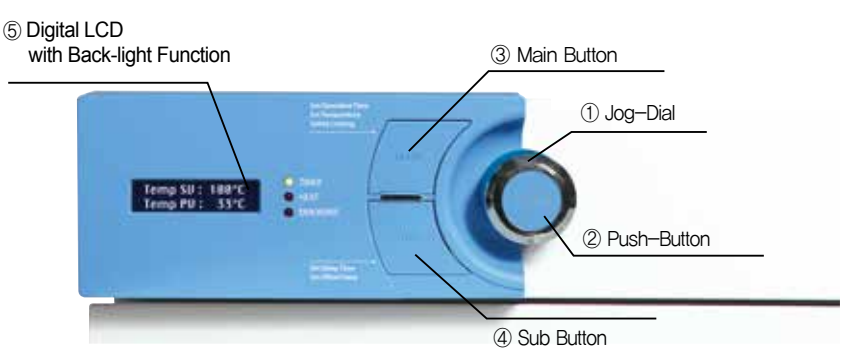
Stainless-steel Wire Shelves (Included)



WiseRemote Control Software :
Connection of Temperature Devices with Interface RS232C to a PC Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall

>> New Jog–Dial Controller



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.

SciLab-brand® Gravity-air Ovens, *"WiseVen® SON"*, 3-Side Heating Zone, 32-/50-/105-/155 Lit NEW

with 2 × Wire Shelves/Digital PID Control/Jog-Dial & Push Button, Digital LCD/Back-light, up to 230℃, ±0.5℃

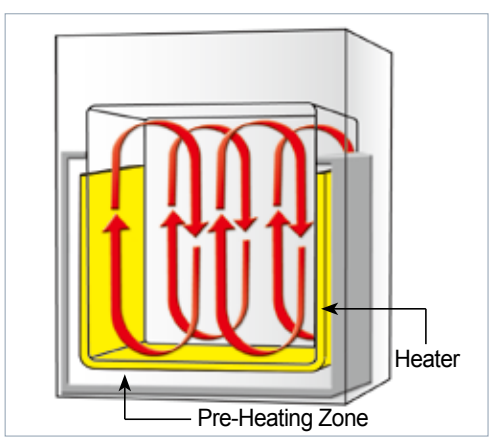
자연 대류식 정밀 건조기/오븐, 고정밀 디지털 퍼지 제어, 우수한 온도 정확성, with Certi. & Traceability



(1) Standard Model, "WiseVen® SON-105"

- ***Made in Korea*** ■ ***CE Certified*** ■ ***GD(Good Design)-mark***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism***
- ***Digital PID Control System Implementing Superior Temperature Accuracy***
- ***Optimized Air Flow by Gravity-air Mechanism***
- ***Patented Jog-Dial Control System*** ■ ***PL (Product Liability) Insurance***

* Suitable for Drying, Baking, Conditioning, Curing, Pre-Heating and Aging
* The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism : 3-Side Heating
* New Jog-Dial with Push Button
* Compact New Body Design
* 2 ea of Stainless-steel Wire Shelves Included
* Alarm Function : Error status and Timer-end
* RS232C Interface for Monitoring and Controlling with PC
* Ambient +5℃ to 230℃ Range with Fluctuation of ±0.5℃ at 100℃
* Storage Function of Temperature and Timer setting values
* Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)
* Corrosion Resistant 304 Stainless-steel Chamber
* Over Temperature & Over Current Protection, Sensor Error Detection



3-Side Heating Zone : The Best Temp. Uniformity & Accuracy by High Performance Heating Mechanism (Gravity-air Mechanism)



Perfect Door Lock by Double Latch

<*Continued On Next Page*>

Specification

Spec. \ Model		(1) Standard Model			
		WiseVen® SON-32	WiseVen® SON-50	WiseVen® SON-105	WiseVen® SON-155
				(2) Window Model	
				WiseVen® SON-W105	WiseVen® SON-W155
Capacity		32Lit	50Lit	105Lit	155Lit
Dimension (w×d×h)	Interior (mm)	310×290×360	370×350×420	485×409×535	550×474×600
	Exterior (mm)	458×557×664	518×647×724	653×712×882	718×777×947
Heater Power		500 W	650 W	1.4 kW	1.6 kW
Temp.	Range	Room Temp +5℃ to 230℃			
	Fluctuation	± 0.5℃ at 100℃, ± 0.6℃ at 150℃			± 0.5℃ at 100℃, ± 0.8℃ at 150℃
	Variation	± 1.2℃ at 100℃, ± 2.2℃ at 150℃			
	Sensor	PT 100			
Control Resolution		±0.1℃			
Heat-up Time		30 min. to 100℃, 43 min. to 150℃	30 min. to 100℃, 45 min. to 150℃		35 min. to 100℃, 50 min. to 150℃
Recovery Time (Door open 30sec)		8 min. to 100℃, 10 min. to 150℃		12 min. to 100℃, 10 min. to 150℃	
Controller		Digital PID Control by Advanced Microprocessor Jog-Dial with Push Button			
RS232 Port		Available to connect with PC			
Display		Digital LCD with Back Light			
Timer		99hr 59 min (delay/continuous function)			
Material	Internal	Stainless-steel (#304)			
	External	Powder Coated steel			
	Insulation	Glass Wool			
Shelves		2ea of Stainless-steel Wire Shelves included, Load per Shelf : 16 kg			
Ventilation		Ventilation hole with Stainless-steel Cap, Hole Diameter 40mm			
		1ea		2ea	
Circulation		Gravity-air Type			
Safety device		Over Temp. and Over Current Protector, Sensor Error Detector			
Others		CE Certified, GD-mark Storage Function (Temp. and Time) Locking Mode (Jog-Dial Input Disabled) Alarm (Error Status and Timer-end)			
Net Weight (kg)		36	44	69	78
Packing Size (w×d×h) (mm)		562×664×747	622×754×807	743×819×1,068	808×884×1,133
Shipping Weight (kg)		43	59	79	92
Power Consumption		502 W	674 W	1390 W	1566 W
Energy Consumption, at 100℃		90 Wh	117 Wh	187 Wh	204 Wh
, at 150℃		181 Wh	230 Wh	337 Wh	398 Wh
Electric Reqts.		120V, 60Hz or 230V, 50/60Hz			

* Other Specifications are available upon Customer's Request.

<*Continued From...* SciLab-brand® Gravity-air Ovens, *"WiseCube® SON"*>

Ordering Information

※ 운임 약 ₩ 25,000 별도!

(1) Standard Model, Gravity-air, with Wire Shelves

		Ea. Price, ₩
SL.SON05032	Oven, Standard, **230V, 32 Lit, "WiseVen® SON-32"**	1,254,000
SL.SON05050	, **50 Lit, "WiseVen® SON-50"**	1,324,000
SL.SON05105	, **105 Lit, "WiseVen® SON-105"**	1,610,000
SL.SON05155	, **155 Lit, "WiseVen® SON-155"**	1,739,000
SL.SON06032	Oven, Standard, **120V, 32 Lit, "WiseVen® SON-32"**	1,254,000
SL.SON06050	, **50 Lit, "WiseVen® SON-50"**	1,324,000
SL.SON06105	, **105 Lit, "WiseVen® SON-105"**	1,610,000
SL.SON06155	, **155 Lit, "WiseVen® SON-155"**	1,739,000

(2) Built in Viewing Window Model, Gravity-air, with Wire Shelves

		Ea. Price, ₩
SL.SON07105	Oven, Window, **230V, 105 Lit, "WiseVen® SON-W105"**	1,652,000
SL.SON07155	, **155 Lit, "WiseVen® SON-W155"**	1,799,000
SL.SON08105	Oven, Window, **120V, 105 Lit, "WiseVen® SON-W105"**	1,652,000
SL.SON08155	, **155 Lit, "WiseVen® SON-W155"**	1,799,000

Spare Stainless-steel Wire Shelves

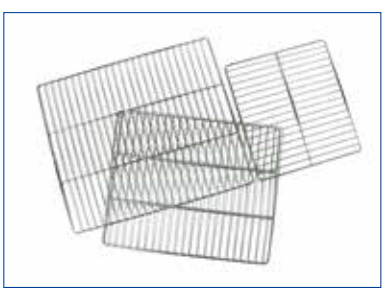
		Ea. Price, ₩
DH.WON11032	Wire Shelf, for **32 Lit., "ONS032"**, w280×d280mm	23,000
DH.WON11050	, for **50 Lit., "ONS050"**, w340×d310mm	28,000
DH.WON11105	, for **105 Lit., "ONS105"**, w455×d375mm	32,000
DH.WON11155	, for **155 Lit., "ONS155"**, w520×d440mm	36,000

Gravity-air Oven with Validation (IQ, OQ) Service

		Ea. Price, ₩
SL.SON31032	Validation Service(IQ, OQ), with "WiseVen® SN-32", **"ONV1032"**	On Request
SL.SON31050	, with "WiseVen® SN-50", **"ONV1050"**	On Request
SL.SON31105	, with "WiseVen® SN-105", **"ONV1105"**	On Request
SL.SON31155	, with "WiseVen® SN-155", **"ONV1155"**	On Request
SL.SON32105	Validation Service(IQ, OQ), with "WiseVen® SN-W105", **"ONV2105"**	On Request
SL.SON32155	, with "WiseVen® SN-W155", **"ONV2155"**	On Request

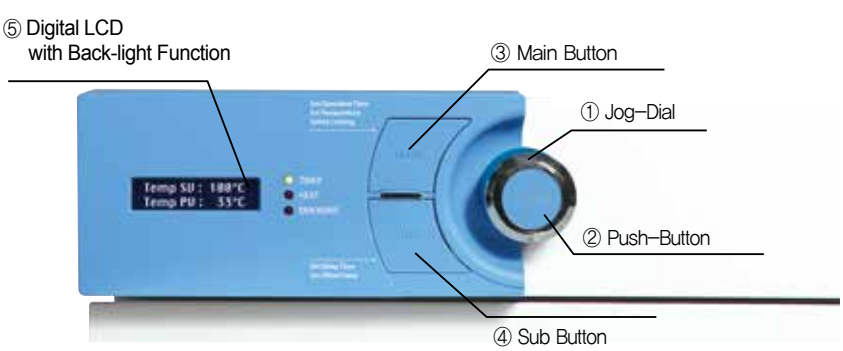


(2) Window Model, "WiseVen® SON-W105"



Stainless-steel Wire Shelves (Included)

>> New Jog-Dial Controller



- Provides the user interface with an ergonomic design for users to operate in an easy and convenient way.
- A new 2-way Jog-Dial Knob (Jog Dial + Push Button) and presents excellent durability and mobility.
- High-quality LCD with Back-light function.
- A durable Main Button and a Sub Button that features superb and user-friendly operation.



WiseRemote Control Software :
Connection of Temperature Devices with Interface RS232C to a PC Export Recorded Data(Excel Spreadsheet)

* You can Download this Software at www.SciLab.kr Shopping-mall

Articles	Cat. No	Description

"ThermoStable™ WOC" High Clean Air Oven, with Class 100 HEPA Filter, 560-/800- Lit, with Certi. & Traceability NEW

with Chrome Coated steel Wire Shelves, Digital Fuzzy Control System, Clean Air Convection Mechanism, up to 250℃, ±1.0℃

청정 고온 건조기/오븐, 고정밀 디지털 퍼지 제어, 우수한 청정도



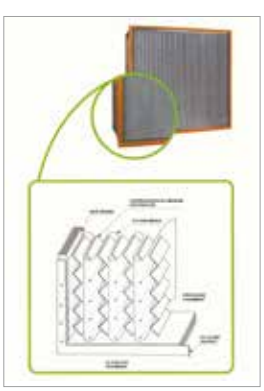
High Clean Air Oven, with HEPA Filter
"ThermoStable™ WOC-560"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Specially Designed Clean Air Convection Mechanism Provides Dynamic Air Flow for Exhaust of Contaminated Air from the Chamber and Supply of Filtered Clean Air into the Chamber***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy.***
- ***Patented Jog-Shuttle Control System***

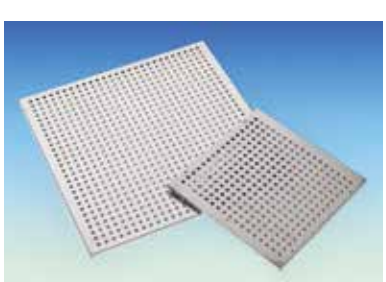
* Suitable for Critical Clean Application such as Electronics, Semiconductor, Pharmaceutical and Clinical Applications - Class 100 HEPA Filter is used.
* Specially Designed Clean Air Convection Mechanism Provides Dynamic Air Flow for Exhaust of Contaminated Air from the Chamber and Supply of Filtered Clean Air into the Chamber
* Digital Fuzzy Control System Implementing Superior Temperature Accuracy
* User's Self-Compensation Function to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
* Storage Function : Set Values of Temperature and Timer
* Locking Mode Supported for Experimental Safety(Input to Jog-Shuttle can be Disabled)
* Over Temperature & Over Current Protection, Sensor Error Detection



High Efficiency and High Clean Air Convection Mechanism



High Temp. HEPA Filter



(1) Perforated shelves, Stainless-steel (Included)

Specifications & Ordering information

Spec. \ Model		"WOC-560"	"WOC-800"
Capacity		**560 Lit.**	**800 Lit.**
Air Flow-type		High Clean Air Convection Mechanism	
Filter for Clean Air		HEPA Filter Class 100 for High Temperature	
Temp.	**Range & Sensor**	Room Temp. +5℃ to 250℃, PT100 Sensor	
	Accuracy & Uniformity	± 1.0℃, ± 2.0℃ at 200℃	
Timer & Alarm		99hr 59min (with delay / Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back Light	
Controller		Digital Fuzzy Controller with Jog-Shuttle Switch(Turn+Push)	
Verification		Timer Operated Verification System	
Resolution		Control : ±1.0℃, Display : ±1.0℃	
Shelves		3ea of Perforated Shelves of Adjustable Position	
Load per Rack		16 kg, Total : 48 kg (16kg×3 Shelves)	
Safety Circuit		Over Temp. and Over Current Protector, Sensor Error Detector	
Material		Internal : Stainless-steel (#304), External : Powder Coated steel, Insulation : Glass Wool	
Others		Storage Function, Locking Mode	
Dimension (w×d×h)	**Interior (mm)**	800×700×1,000	1,000×800×1,000
	Exterior (mm)	1,000×1,155×1,735	1,500×1,200×1,900
Packing Size (w×d×h) (mm) & Gross Weight		1,200×1,400×h2,120mm, 386 kg	1,700×1,400×h2,270mm, 446 kg
Power Consumption		6.5 kW	9.4 kW
Electric Reqts.		60Hz or AC 230V, 380V 50/60Hz or 3 Phase	
Cat. No.	**230V 3 Phase**	**DH.WOC00560**	**DH.WOC00800**
	380V 3 Phase	**DH.WOC03560**	**DH.WOC03800**
Price, Each. ₩		10,328,000	13,882,000

*** Other Specifications are available upon Customer's Request.**

※ 운임 약 ₩ 85,000 별도!

Spare Perforated Shelves, Stainless-steel

		Ea. Price, ₩
DH.WOC10560	(1) Perforated Shelf, **"OCS560",** w780×d680, for **"WOC-560"**	161,000
DH.WOC10800	, **"OCS800",** w980×d880, for **"WOC-800"**	112,000

Optional N_2 Gas Inlet Device

		Ea. Price, ₩
DH.WOCN2GIN	N_2 Gas Inlet Device, **"WOC-N2GIN"**	157,000

High Clean Air Oven with Validation (IQ, OQ) Service

		Ea. Price, ₩
DH.WOC30560	Validation Service(IQ, OQ), with "WOC-560", **"OCV560"**	On Request
DH.WOC30800	, with "WOC-800", **"OCV800"**	On Request

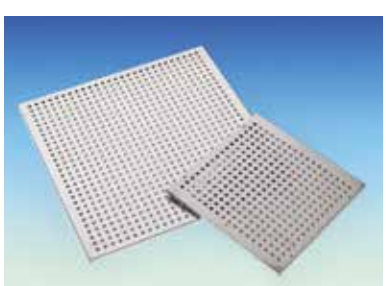
"ThermoStable™ WOF" Industrial Forced-air Oven, 486-/840-/1176-Lit, with Certi. & Traceability NEW

with Stainless steel Perforated Shelves, Digital PID Control System, Superior Temp. Accuracy, up to 250℃, ±1.0℃

대용량 산업용 열풍 순환식 건조기 / 오븐, 우수한 온도 정확성



Industrial Forced-air Oven "ThermoStable™ WOF-L1000" with Stainless-steel Perforated Shelves



(1) Perforated Shelves, Stainless-steel (Included)

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Heavy Forced Air-Circulation by Strong and Reliable Fan System : ideal for Semiconductor and Electronic Parts Baking Purpose***

* Heavy Forced Air-Circulation by Strong and Reliable Fan System : Ideal for Semiconductor and Electronic Parts Baking Purpose
* Voltage and Ampere Meter Equipped for Monitoring Safe Operation of the Machine
* Digital PID Control System Enables Superior Temperature Accuracy
* Digital Timer Function with Buzzer Alarm : up to 99 hrs 59 min
* Locker is Available for Operational Safety Control by an Administrator
* Over Temperature & Over Current Protection, Sensor Error Detection and Leakage Breaking
* Multi-Channel Temperature Sensors with Digital Display for Monitoring Temperature Uniformity in the Chamber is available(Optional)
* Default Damper to Enhance Thermal Efficiency
* Automatic Gas Exhaust Available (Optional)

Specifications & Ordering information

Spec. \ Model		"WOF-L400"	"WOF-L800"	"WOF-L1000"
Capacity		486 Lit.	840 Lit.	1,176 Lit.
Air Flow-type		Forced-air Type		
Air Circulation Fan Motor		1/3HP	1/3 HP × 2 ea	1/3HP × 3 ea
Temp.	Range	Room Temp. +5 ℃ to 250 ℃		
	Accuracy	± 1.0 ℃ at 150 ℃		
	Uniformity	± 2.0 ℃ at 150 ℃		
	Sensor	PT100		
Heating Power/Consumption		3 kW	5 kW	7 kW
Timer & Alarm		99hr 59min (with Continuous run.), Timer-end Alarm		
Display		2 lines LED for Temperature and Timer		
Controller		Digital PID Control		
Resolution		Control : ±1.0℃, Display : ±1.0℃		
Door		Powder coated Steel Door with Silicon Packing		
		1 Door	2 Doors	
Shelves		Included Stainless-steel Perforated Shelves		
		3 ea	3 ea	6 ea
Load per Rack		16 kg		
Permitted Total Load		48 kg (16kg×3 Shelves)		96 kg (16kg×6 Shelves)
Material		Internal : Stainless steel (#304), External : Powder Coated steel, Insulation : Ceramic and Glass Wool Board		
Dimension (w×d×h)	Interior (mm)	900×600×900	1,250×700×960	1,400×700×1,200
	Exterior (mm)	1,200×750×1,700	1,500×840×1,800	1,650×840×2,150
Net Weight		316 kg	408 kg	478 kg
Others		Over Temp. and Over Current Protector,Sensor Error Detector, Leakage Breaker Locking Mode by Mechanical Locker		
Packing Size (w×d×h) (mm) & Gross Weight		1,400×1,220×1,960	1,700×1,310×2,060	1,850×1,310×2,410
		376 kg	488 kg	568 kg
Power Consumption		3.6 kW	6.2 kW	8.8 kW
Electric Reqts.		1 Phase AC 120V, 60Hz or AC 230V, 50/60Hz	1Phase AC 230V, 50/60Hz	3Phase AC 380V, 50/60Hz
Cat. No.	230V	DH.WOFL0400	DH.WOFL0800	-
	120V	DH.WOFL0401	-	-
	3 Phase	-	-	DH.WOFL1002
Price, Each. ₩		7,346,000	10,899,000	13,838,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 85,000 별도!

Spare Perforated Shelves, Stainless-steel

		Ea. Price, ₩
DH.WOF10400	(1) Perforated Shelf, **"OFLS400"**, w880×d580mm, for **"WOF-400"**	157,000
DH.WOF10800	, **"OFLS800"**, w1230×d680mm, for **"WOF-800"**	290,000
DH.WOF11000	, **"OFLS1000"**, w660×d680mm, for **"WOF-1000"**	135,000

Industrial Forced Convection Oven with Validation (IQ, OQ) Service

		Ea. Price, ₩
DH.WOF30400	Validation Service(IQ, OQ), with "WOF-L400", **"OFLV400"**	On Request
DH.WOF30800	, with "WOF-L800", **"OFLV800"**	On Request

Maximum Convenience by Advanced Digital Technology

SciLab NEW Generation Digital Precise Vacuum Oven

Excellent Thermal Conductivity ! Gas Exchangeable !

WiseVen® Vacuum Oven



In vacuum condition, the heat transfer is limited because the chamber has no air inside and heat transfer by air can't be done. That means, the most significant technology for Vacuum Ovens is how to achieve the High Thermal Conductivity in vacuum.

SciLab New Vacuum Ovens have the independent Vent and Vacuum lines. This structure is ideal for maintenance of vacuum condition and the gas exchange.

Also, the newly developed High Heat Conduction Mechanism maximizes the heat conductivity in vacuum.

The ergonomic designed Jog-Dial Controller and the World-first Smart-Lab™ Controller are also equipped to the new generation Vacuum Ovens.

Experiencing this High Thermal Conductivity, **WiseVen® SOV**, nothing can be compared.

Upgrade of Performance



Available Gas Exchange

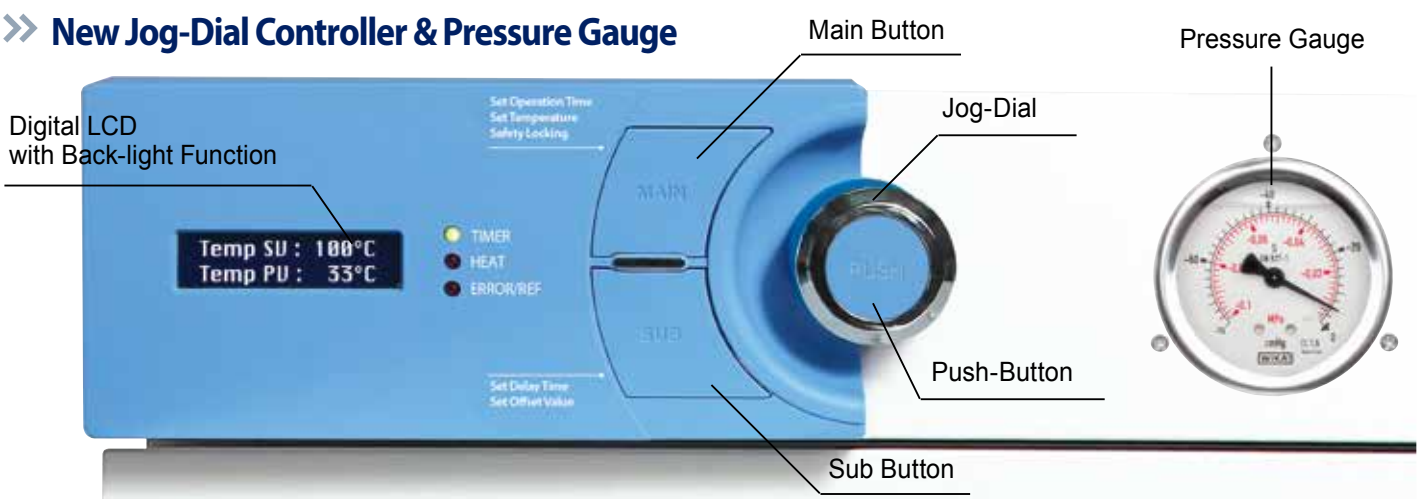
SciLab Vacuum Ovens have two independent tubing of Vent line and Vacuum line and each tubing is separately connected to the outer ports. This structure optimizes the gas exchange in the chamber.
Also, a new gas is inserted into the chamber through the Vent line located on the bottom and the inner air (gas) is simultaneously released through the Vacuum line located on the top.
By doing that, the vacuum is maintained in the chamber while the gas is exchanged.



High Heat Conduction

The unique High Heat Conduction Mechanism realizes the best performance of Heat Transfer in the vacuum environment that has no heat transfer by air.
The brackets attached on the sides of chamber, is directly assembled to the shelves. This structure enhances heat transfer to samples placed on shelves. The various sized flasks or beakers can be put in the chamber by simple disassembly of shelves.

New Jog-Dial Controller & Pressure Gauge



SciLab-brand® Precise Vacuum Ovens, *"WiseVen® SOV"*, Highly Safety Viewing Window, 18.6-/30-/70-Lit NEW

with 2 × Al-Shelves, Digital PID Control, Superior Temp. & Vacuum Accuracy, 10~750 mmHg, 200℃

정밀 진공 건조기/오븐, 고정밀 디지털 퍼지 제어, 알루미늄 선반 포함, with Certi. & Traceability



Precise Vacuum Oven "WiseVen® SOV-30"

- ■ ***Made in Korea***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Suitable for Drying, Baking, Conditioning, Curing, Out-Gassing Solids and Liquids, Vacuum Embedding, Moisture Testing, Plating and Aging Test***
- ■ ***Very Easy and Convenient for Vacuuming and Venting, Easy to read Vacuum Gauge***
- ■ ***Highly Safety Viewing Window (Tempered Safety Glass+ Polycarbonate Window)***
- ■ ***Heavy-duty Safety Front Door for User Safety***
- ■ ***Patented Jog-Dial Control System and Back-Light LCD***
- ■ ***PL (Product Liability) Insurance***

∗ Digital PID Control System Implementing Superior Temperature Accuracy
∗ RS232C Interface for Remote Monitoring and Controlling with PC
∗ Superior Uniformity and Stability ∗ Storage Function : Alarm & Timer
∗ High Quality Door Sealing : High Temperature Grade Silicone Molded Gasket
∗ Over Temperature & Over Current Protection and Sensor Error Detection
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be disabled)

Specifications & Ordering information

Spec. \ Model		WiseVen® SOV-20	WiseVen® SOV-30	WiseVen® SOV-70
Capacity		**18.6 Lit.**	**30 Lit.**	**70 Lit.**
Vacuum Range & Level & Rate		10 ~ 750 mmHg, 0.63mbar, 0.39mbar/hr		
Temp.	**Range / Sensor**	R/T +10℃ to 200 ℃, PT100		
	Accuracy	± 0.5℃ at 100℃ & 150℃		
	Uniformity	± 2.0℃ at 100℃, ±3.0℃ at 150℃		± 2.5℃ at 100℃, ± 3.5℃ at 150℃
Heating Power/Consumption		170W×2ea 130W×2ea		350W×2ea 450W×2ea
Heat-up Time		60 min. to 100℃, 90 min. to 150℃	70 min. to 100℃, 100 min. to 150℃	80 min. to 100℃, 100 min. to 150℃
Timer & Alarm		99hr 59min (with delay / Continuous run.), Error status & Timer-end		
Display		Digital LCD with Back Light		
Controller		Digital PID Controller with Jog-Dial Switch (Turn & Push)		
Resolution		Control : ±1.0℃, Display : ±1.0℃		
Shelves		Included 2ea Aluminum Shelves		
Safety Circuit		Over Temp. & Over Current Protector, Sensor Error Detector, Leakage Breaker		
Material		Internal : Stainless-steel (# 304), External : Powder Coated steel, Window : Tempered Safety Glass 12T, Poly Carbonate 5T for Safety		
Others		Storage Function (Temp and Timer), Locking Mode (Jog-Dial Input Disabled)		
Dimension (w×d×h)	**Interior (mm)**	265×290×265	300×330×300	400×435×400
	Exterior (mm)	480×475×547	515×515×582	618×620×682
Vacuum Inlet Valve Size		od. 10 mm		
Net Weight		48 kg	55 kg	85 kg
Packing Size (w×d×h) (mm) & Gross Weight		570×570×775	605×605×815	710×710×910
		59 kg	67 kg	100 kg
Power Consumption		600 W	600 W	1.6 kW
Electric Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz		
Cat. No.	**230V**	**SL.SOV05020**	**SL.SOV05030**	**SL.SOV05070**
	120V	**SL.SOV06020**	**SL.SOV06030**	**SL.SOV06070**
Price, Each. ₩		2,810,000	2,889,000	3,485,000

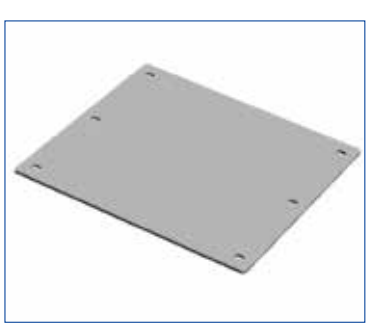
∗ **Other Specifications are available upon Customer's Request.**

※ 운임 약 ₩ 25,000 별도!



WiseRemote Coltrol Software :
Connection of Temperature Devices with Interface RS232C to a PC Export Recorded Data(Excel Spreadsheet)

∗ You can Download this Software at www.SciLab.kr Shopping-mall



(1) Standard Shelf, Aluminum (Included)

Spare Aluminum Shelves

		Ea. Price, ₩
DH.WOV12020	(1) Standard Shelf, Aluminum, **"OVSN020",** w260×d245×h3mm, for **18.6 Lit.**	43,000
DH.WOV12030	, **"OVSN030",** w290×d285×h3mm, for **30 Lit.**	46,000
DH.WOV12070	, **"OVSN070",** w390×d390×h3mm, for **70 Lit.**	55,000

※ See page 142
for the Optional Vacuum Pumps

Articles	Cat. No	Description

TJV® Anticorrosive Vacuum / Pressure Diaphragm Pump, "GM-series", Oil-Less / ≥0.08Mpa, 200mbar, 60~120Lit/min
Ideal for Use with Vacuum Oven, Diaphragm-type, Double Heads, **내부식성 더블 헤드 다이어프램 펌프**



Double Heads, "**GM-1.00**", 60Lit./Min



Double Heads, "**GM-2.00**", 120Lit./min

※ **Selection Guide**

We Recommend "GM-1.00" or "GM-2.00" Vacuum Pump for 18.6- / 30- / 70-Lit. Vacuum Oven(P.141)

■ ***Vacuum Ovens <Partial evacuation of Large units.>***

■ ***PTFE Coated as Pump's Chamber, Diaphragm & Valves, Suitable for Pumping Out Corrosive Gas or Organic Solvents***

- ∗ High Efficiency
- ∗ Longer Operating Life
- ∗ Rotary Evaporator
- ∗ Evaporating System
- ∗ Vacuum Filtration and Drying Systems
- ∗ Vacuum Desiccators and Cabinets
- ∗ Laser-gas Circulation
- ∗ Vacuum Concentrator
- ∗ Medical/Pharmaceutical Equipment
- ∗ Exhaust of Gas-transfer Tube
- ∗ Analysis/Scientific Equipment
- ∗ TLC Sprayers
- ∗ Ideal for Medicinal Products Analysis, Tenuously Chemical Engineering, Biochemical Pharmacy, Food Examination, Investigating and Solving Criminal Case, High-accuracy Chromatogram Apparatus and HPLC Solvent Filter

※ **Note! 100mmHg = 13.33 kPa, 1 Lit./min = 0.035 CFM**

Specification

Model	"GM-1.00"	"GM-2.00" *New*
Speed of Evacuation	60 Lit./min	120 Lit./min
Vacuum & Ultimate Pressure	200mbar, ≥0.08Mpa	
Motor Power & Noise Level	160W, <60dB	300W, <60dB
Inlet / Outlet(mm)	O.D Φ6 / 6	O.D Φ9 / 9
Working Temp & Temp of the body	7 ~ 40℃, <55	
Voltage Rating	230Vac, 50Hz	
Diaphragm & Valves	NBR(Nitrile Butadiene Rubber) with the PTFE Coating Outside	
Dimensions (L×B×H) & Weight	300×160×235mm, 10Kg	390×150×250mm, 20Kg

Ordering Information

		Ea. Price, ₩
TJ.Pu0111	Vacuum/Pressure Diaphragm Pump, Double Head, **"GM-1.00"**, 60Lit./min, Anticorrosive	900,110
TJ.Pu0112	, **"GM-2.00"**, 120Lit./min, Anticorrosive	1,829,090

Vacuumer® Precision Vacuum Pumps, VOP-Series, Gas Ballast Valve Installed, 50 ~ 240Lit.
with Double-Stage, Direct Drive & Oil Sealed Rotary Type, **정밀 고급형 진공펌프**



(1) VOP-60



(2) VOP-100





(4) 1Lit.



(5) 4Lit.

■ ***Made in Korea***

■ ***Gas Ballast Valve Installed***

- ∗ Double Stage Vacuum Pump
- ∗ Over Current Protection
- ∗ Physical and Chemical Apparatus Industries
- ∗ Industrial Machines
- ∗ Vacuum Pumping System

■ ***Oil Back Flow Prevention Mechanism Installed***

- ∗ Easy-to-use Large Finger Grips
- ∗ Installed Filter Prevent Sludge Contamination
- ∗ Vacuum Evaporation Equipment
- ∗ Vacuum Dryer
- ∗ Vacuum Freeze Dryer. Etc

Specification

Model	"VOP-60"	"VOP-100"
Speed of Evacuation (50/60Hz)	50 / 60 Lit./min	100 / 120 Lit./min
Ultimate Pressure (Pa)	6.7×10-2 (6.7×10^{-1})	
Motor Power	Single Phase 220V, 200W, 4poles	Single Phase 220V, 400W, 4poles
Motor Speed(50/60Hz)	1430 / 1730 RPM	
Recommended Oil	COSMA-100	
Oil Capacity(mL)	800	900
Suction Pipe(o.d×i.d)	NW25(KF25)	
Temp. Range	7~40℃	
Weight	17kg	25kg
Dimensions(w×d×h)(mm)	165×411×234	171×464×238

∗ Per Customer's request various specifications are available.

∗ Using the Macleod gauge the ultimate pressure is measured. The measurements from the pirani gauge are show In ( )

Ordering Information

		Ea. Price, ₩
V3.VOP060	(1) Vacuum Pump, **"VOP-60"**, 50 / 60 Lit./min, (50 / 60Hz), 220V	1,402,640
V3.VOP100	(2) , **"VOP-100"**, 100 / 120 Lit./min, (50 / 60Hz), 220V	1,473,780

Optional Accessories for VOP-series

		Ea. Price, ₩
V3.OMT150	(3) Oil Mist Trap for **"VOP-60" / "VOP100"**	261,360
V3.COS101	(4) Oil for Vacuum Pump VOP-series, 1Lit.	21,780
V3.COS104	(5) , 4Lit.	52,280

※ **Selection Guide**

We Recommend "VOP-60" Vacuum Pump for 18.6- / 30-Lit. Vacuum Oven(P.141)
We Recommend "VOP-100" Vacuum Pump for 18.6- / 30-/ 70-Lit. Vacuum Oven(P.141)

Improving the Productivity of Your Chemistry - - -

New Innovation LaboRactor™ 0.1 ~ 100Lit

All for Glass Reaction System for Lab & Pilot Plant

AutoLifting- / Classic- / H.Mantle-Models in Vacuum-Line, -80℃ +260℃

with Glass Vessel / Lid or PTFE Lid, 45° DN Flange, Safety Connection, and Assembly Frame

Ideal for ▶Experiment, ▶Pilot- & Mass-Production










Manual Tilt

5~100 Lit. AutoLifting-Model Ⅰ
Manual Tilt, Double-Wall Vessel
High Performance
Ideal for Cleaning

5~100 Lit. Classic-Model Ⅱ
Double-Wall Vessel
Good for Economic Operation

2~50 Lit. H.Mantle-Model Ⅲ
Single-Wall Vessel
Good for Simply Economic Operation

0.1~20 Lit. General Multi-Neck Flasks & H.Mantle
▶See the Related Sections.


High-Torque Digital Overhead Stirrer


PTFE Lids & Clamping Sys.


Flasks, Round-type


Vessel, Double Wall


PTFE Stirring Impeller

and

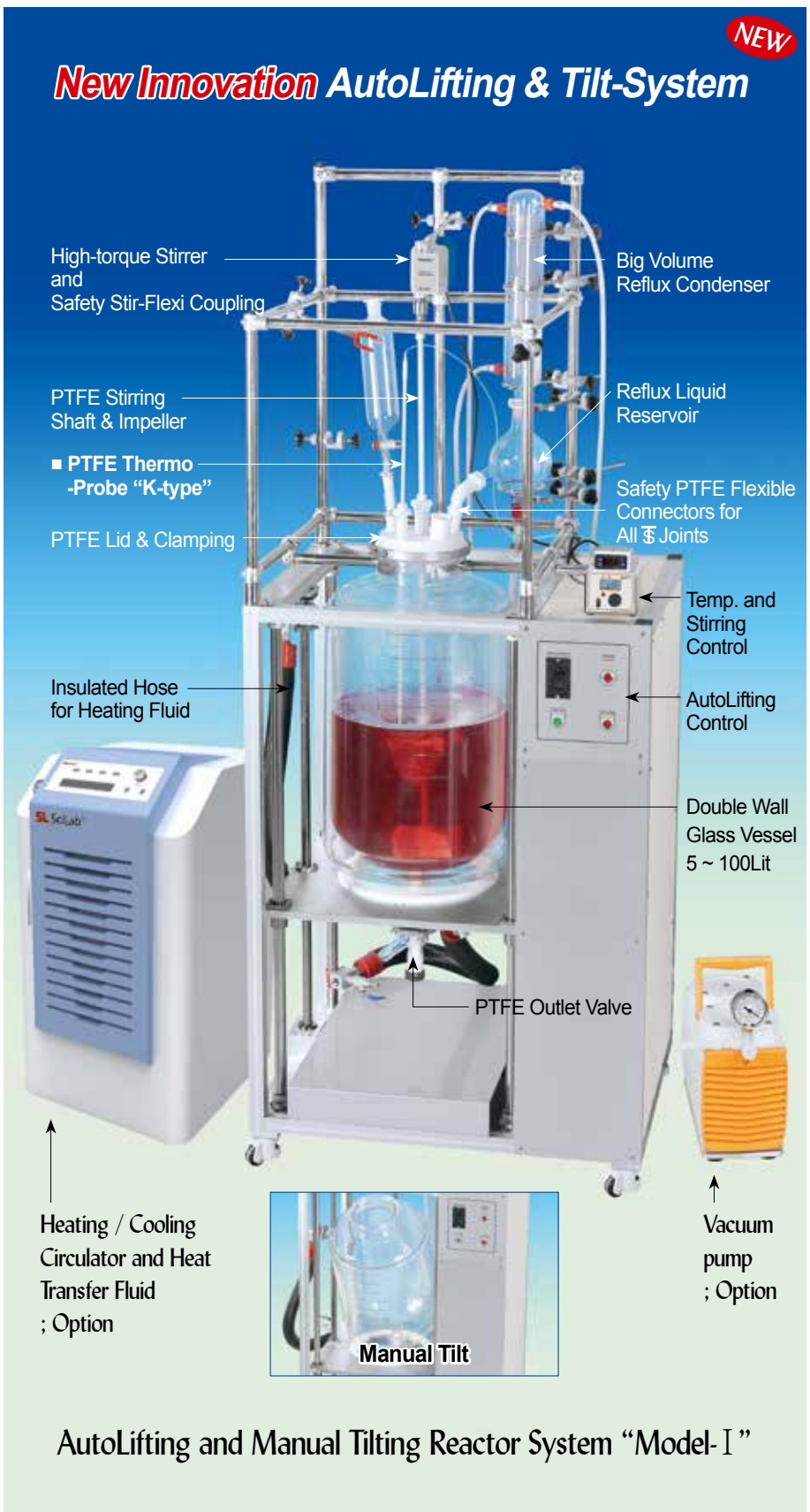

General Multi-Neck Flasks

Articles	Cat. No	Description

LaboRactor™ 0.1~100Lit All for Reaction System, for Lab & Pilot Plant, with Glass Vessel, −80℃+260℃

Ideal for Chemistry / Pharmacy / Biomedical / Synthesis in Laboratory & Production Scales in Vacuum Line NEW

For Reaction, Mixing, Dispersion & Homogenization, 0.5~1.5bar, 연구 및 제품 생산용 진공반응장치



AutoLifting and Manual Tilting Reactor System "Model-Ⅰ"

Applications

- ***Ideal for the Experiment, Pilot Production, and Production in Chemistry / Fine Chemical Engineering / Pharmacy / Synthesis, and Biomedical Engineering.***
- ***Dispersion, Distillation, Evaporation, Homogenization & Mixing Processes at Laboratory & Production-Scales.***

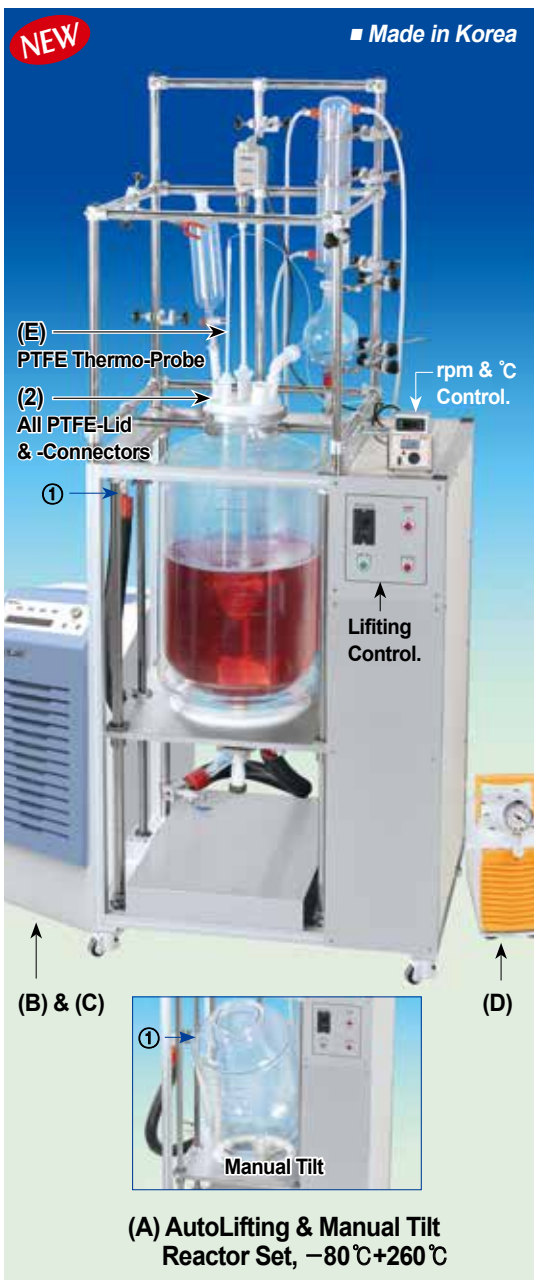
Features

- ***Can be Used Direct Contact Thermo-Probe "K-type"***
- ***Modular System:***
  You can choose Glass Vessel & Lid or PTFE-Lid, Stirrers, Vacuum Pump & Controller, Heating Mantle, Chiller / Cooler or Heating Circulator.
- ***Wide-Range Vessels and Convenience:***
  ∗ 0.1~100Lit. Vacuum-Purpose Vessels or General Multi-Neck Flasks.
  ∗ Single or Double Walled Glass Vessels.
  ∗ With or Without Out-Let Valve at Vessel Bottom.
- ***"45° DN 60~ DN 200" Standardized Flat-Flange System :*** with a Comprehensive Range of Accessories and Replacement Parts.
- ***Convenient O-Ring GROOVE in the Vessel's Flange:***
  Ideal for Vacuum or Pressure Applications, and Safe Mounting of the Vessel with the Associated Lid.
- ***All PTFE Safety Lid with Screw ⅀ Joint or Glass Lid Available : You can choose***
- ***Safety Flexible PTFE Connection for All ⅀ Joint Parts.***
- ***Fully Digital Feedback / Microprocessor Controlled Agitator(Stirrer) :***
  LCD Display, Power Bar Graph & Status, Over-Load /-Heat Protection Function.
- ***With Safety Flexible Coupling between Stirring-Motor & Shaft.***
- ***Easy Installation ; Assembly Frame & Component Parts.***
  ∗ Good for Heavier-Work.
  ∗ Modular Components-Spare or Option Parts.
  ∗ Bench- or Floor-Type Assembly Frames.
  ∗ Adjustable Height Length and Removable Frame.
  ∗ Suppling the Component Parts.

LaboRactor™ 5~100 Lit AutoLifting Vacuum Reactor Set, with Jacketed Glass Vessel / Agitator / Frame / Glass Assembly NEW with DN O-ring Flange / PTFE-Impeller & -Drainvalve, Digital Agitation & Lifting System, 자동리프팅/자켓 글라스 진공 반응조 셋트

▶ Advantage of Lifting System

- ***Safety Cleaning the Vessel***
- ***Easy Feeding of Large Volume Raw Materials***
- ***Ideal for Maintenance***



(A) AutoLifting & Manual Tilt Reactor Set, −80℃+260℃



(1) Glass Lid
w / 5×Joints



(2) All PTFE Lid
w / 6×Screwjoints
◎ Top Safety : Non-Breakage, Anti-Chemical, & +280℃

▶ AutoLifting "Up-Down" and Manual Tilt System

- ***With Induction Gear Motor, TM-Screw, Timing Belt & Pulley, and Limit Switch***

∗ Adjustable Lifting Speed 1~53rpm & Height Length 200~500mm ∗ Tilt Angle 30 Degree

▶ Graduated Double-wall Vacuum Glass Vessel, 5~100Lit

- ***45° DN Flange & 5mm Thick High Boro-glass 3.3 with Good Physical, Chemical Properties.***
- ***PTFE Lid ; -80℃ ~ +260℃***
- ***PTFE Drain Valve ; Aperture Φ25mm, No-Dead Space***

∗ Work in Constant Pressure and Vacuum Degree below 0.095MPa in stationary.
∗ Cooling and Heating Solution in the Interlayer can be Completely Removed after Reaction.

▶ High-Torque Digital Agitator System, 50~1000rpm(800rpm/100Lit)

- ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number***
- ***Patented Jog-Shuttle Control System***
- ***PL (Product Liability) Insurance***
- ***With Safety Flex-Coupling between Stir-Motor and PTFE Shaft, PTFE Impeller.***

∗ Storage Function for the set values : RPM, Timer, and Locking ∗ Chuck - Corrosion Free.

▶ Heavier-work Assembly Frame System

- ***Material : OD Φ27.2×thick 1.5/2.0mm Stainless-steel Pipe and AL-Profile 4040***

∗ Assembly Construction System : Fully Adjustable ∗ Frames according to the Vessel Volumes.
∗ with 4 Castors including 2 Lockable Castors. ∗ 80 / 100Lit : OD Φ27.2×thick 2.0mm STS Pipe

Specification of (A) Reactor Set

Models		"REA-5A"	"REA-10A"	"REA-20A"	"REA-30A"	"REA-50A"	"REA-80A"	"REA-100A"
Jacket Vessel Volume		5 Lit.	10 Lit.	20 Lit.	30 Lit.	50 Lit.	80 Lit.	100 Lit.
Jacket Volume Approx.		1.2 Lit.	2.6 Lit.	5 Lit.	8 Lit.	12 Lit.	20 Lit.	25 Lit.
Vessel OD×h mm		230×455	270×550	365×580	365×710	410×800	460×970	500×970
Inner Vessel OD mm		200	230	330	330	365	410	460
Heat Hose Connector		GL25	GL32	GL32	① od 35×id 18mm Flat Flange & Metal Clamp			
Drain Tube Size		Glass Tube : od 34×id 20mm						
Digital Stirrer (Agitator)	Model, Control	Direct Controlled "SHT-50DX"				Remote Controlled "SHT-120T"		"SHT-140T"
	Viscosity & Torque	100,000 mPas / 300 Ncm				150,000 mPas / 500 Ncm		160,000mPas / 550 Ncm
	Speed	50~1,000 rpm, Resolution : 1 rpm-Display / 1 rpm-Control						50~800 rpm
	Motor & Rating	Worm-Geared DC Motor (3.5:1 Ratio)						
		In·Output 83 / 75 W, 1 / 10 HP				In·Output 130 / 120 W, 1 / 6 HP		
Lifting	Speed	1~53 rpm, 15 Step Control						
	Height	200~500mm Distance Control						
Tilt Angle		Manual 30 Degree						
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end						
Display		Digital LCD with Back-Light Function						
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)						
Shaft / Impeller		Φ14mm PTFE Encapsulated Stainless-steel, Exposed End Φ12mm, up to 50 Lit.						
Safety Device		Overload & Heat Protector for Motor						
Power Consumption		175 W				300 W		
Dimension Overall		800×620×h1900		915×670×h2100		1000×720×h2400		1200×790×h2445
Power Supply		1 Phase, AC 230 V, 50 / 60 Hz						

Ordering for (A) Reactor Set, without Circulator & Vacu-Pump

Lifting Reactor Model & Volume	Stirrer Torque and DN-Flange	(1) with Glass Lid, 5 Necks		(2) with PTFE Lid, 6 Necks	
		Cat. No.	Price, ₩	Cat. No.	Price, ₩
"REA-5A", 5 / 0.1Lit	300Ncm, DN 150	SL.Rea2531	13,253,900	SL.Rea2541	13,643,300
"REA-10A", 10 / 0.2Lit	〃 , 〃	SL.Rea2532	13,993,300	SL.Rea2542	14,225,300
"REA-20A", 20 / 0.4Lit	〃 , 〃	SL.Rea2533	16,816,400	SL.Rea2543	17,306,700
"REA-30A", 30 / 0.5Lit	〃 , 〃	SL.Rea2534	19,733,700	SL.Rea2544	20,340,500
"REA-50A", 50 / 1Lit	500Ncm, DN 200	SL.Rea2535	24,342,000	SL.Rea2545	24,948,800
"REA-80A", 80 / 1Lit	〃 , 〃	SL.Rea2536	33,849,400	SL.Rea2546	34,456,400
"REA-100A", 100 / 1Lit	〃 , 〃	SL.Rea2537	37,120,800	SL.Rea2547	37,727,700

※ **Note/ DN 150 Flanged PTFE Lid ; 5 Necks for 5Lit Vessels.**

Ordering for Optional Necessaries

(B) & (C) Heat/Cool Circulators and Heat Transfer Fluid. ⇒ See the Following 6-th. Page!
The Circulator (B) Can be Used External Direct Contact Thermo-Probe "K-type"

(D) Vacuum Pumps ⇒ See the Pump-Section!

(E) PTFE Thermo-Probe "K-type" ⇒ See the Last Page.

LaboRactor™ 5~100 Lit Classic Vacuum Reactor Set, with Jacketed Glass Vessel/Agitator/Frame/Glass Assembly NEW
with DN O-ring Flange / PTFE-Impeller & -Drainvalve, Digital 50~1000rpm, 5~100 Lit 자켓 글라스 진공 반응조 셋트



▶ Graduated Double-wall Vacuum Glass Vessel, 5~100Lit

■ 45° DN Flange & 5mm Thick High Boro-glass 3.3 with Good Physical, Chemical Properties.
■ PTFE Lid ; -80℃ ~ +260℃ ***■ PTFE Drain Valve ; Aperture Φ25mm, No-Dead Space***
■ Can be Used Direct Contact Thermo-Probe "K-type"
∗ Work in Constant Pressure and Vacuum Degree below 0.095MPa in stationary.
∗ Cooling and Heating Solution in the Interlayer can be Completely Removed after Reaction.

▶ High-Torque Digital Agitator System, 50~1000rpm(800rpm/100Lit)

■ CE Certified ***■ with Certificate & Traceability : Controlled by Serial Number***
■ Patented Jog-Shuttle Control System ***■ PL (Product Liability) Insurance***
■ With Safety Flex-Coupling between Stir-Motor and PTFE Shaft, PTFE Impeller.
∗ Digital LCD with Back-Light Function. ∗ Smooth Start and Change of the Stirring Speed.
∗ Storage Function for the set values : RPM and Timer ∗ Chuck - Corrosion Free.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

▶ Heavier-work Assembly Frame System ; Fully Adjustable

■ Material : OD Φ27.2×thick 1.5/2.0mm Stainless-steel Pipe
∗ with 4 Castors including 2 Lockable Castors. ∗ 80 / 100Lit : OD Φ27.2×thick 2.0mm STS Pipe

Specification of (A) Reactor Set

Models		"REA-5C"	"REA-10C"	"REA-20C"	"REA-30C"	"REA-50C"	"REA-80C"	"REA-100C"
Jacket Vessel Volume		5 Lit.	10 Lit.	20 Lit.	30 Lit.	50 Lit.	80 Lit.	100 Lit.
Jacket Volume Approx.		1.2 Lit.	2.6 Lit.	5 Lit.	8 Lit.	12 Lit.	20 Lit.	25 Lit.
Vessel OD×h mm		230×455	270×550	365×580	365×710	410×800	460×970	500×970
Inner Vessel OD mm		200	230	330	330	365	410	460
Heat Hose Connector		GL25	GL32	GL32	① od 35×id 18mm Flat Flange & Metal Clamp			
Drain Tube Size		Glass Tube : od 34×id 20mm						
Digital Stirrer (Agitator)	Model, Control	Direct Controlled "SHT-50DX"				Remote Controlled "SHT-120T"		"SHT-140T"
	Viscosity & Torque	100,000 mPas				150,000 mPas		160,000mPas
		300 Ncm				500 Ncm		550 Ncm
	Speed	50~1,000 rpm, Resolution : 1 rpm-Display / 1 rpm-Control						50~800 rpm
	Motor & Rating	Worm-Geared DC Motor (3.5:1 Ratio)						
		In·Output 83 / 75 W, 1 / 10 HP				In·Output 130 / 120 W, 1 / 6 HP		
	Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end						
	Display	Digital LCD with Back-Light Function						
	Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)						
Shaft / Impeller		Φ10/8 PTFE Encapsulated Stainless-steel Shaft				Φ12/10 PTFE Encapsulated Stainless-steel Shaft		
Safety Device		Overload & Heat Protector for Motor						
Power Consumption		85 W				120 W		
Dimension Overall		45×45×h130cm		55×55×h170cm		60×60×h180cm		67×67×h200
Power Supply		1 Phase, AC 230 V, 50 / 60 Hz						



(1) Glass Lid
w / 5×Joints



(2) All PTFE Lid
w / 6×Screwjoints
◎ Top Safety : Non-Breakage, Anti-Chemical, & +280℃

Heavy-work Support Frame dimension
Φ27.2×thick 1.5mm STS Pipe

5 & 10 Lit : 45×45×h130cm | 50 & 80 Lit : 60×60×h180cm
20 & 30 Lit : 55×55×h170cm | 100 Lit : 67×67×h200cm

Ordering for (A) Reactor Set, without Circulator & Vacu-Pump

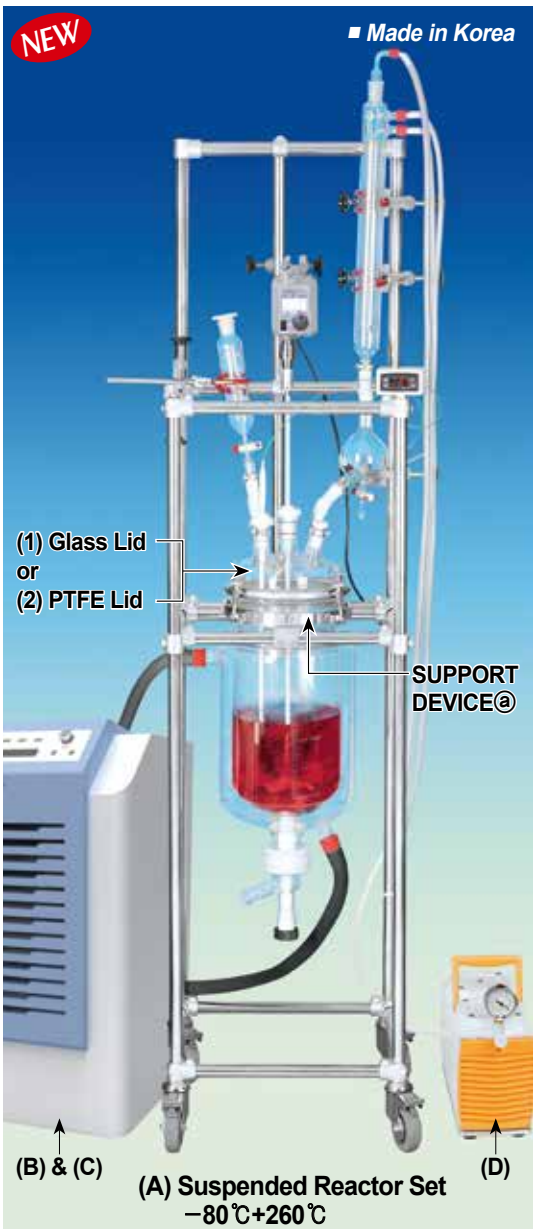
Classic Reactor Model & Volume	Stirrer Torque and DN-Flange	(1) with Glass Lid, 5 Necks		(2) with PTFE Lid, 6 Necks	
		Cat. No.	Price, ₩	Cat. No.	Price, ₩
"REA-5C", 5 / 0.1Lit	300Ncm, DN 150	SL.Rea2511	5,388,900	SL.Rea2521	5,778,300
"REA-10C", 10 / 0.2Lit	〃 , DN 200	SL.Rea2512	6,128,300	SL.Rea2522	6,360,300
"REA-20C", 20 / 0.4Lit	〃 , 〃	SL.Rea2513	8,951,400	SL.Rea2523	9,441,700
"REA-30C", 30 / 0.5Lit	〃 , 〃	SL.Rea2514	11,868,700	SL.Rea2524	12,475,500
"REA-50C", 50 / 1Lit	500Ncm, DN 200	SL.Rea2515	15,267,000	SL.Rea2525	15,873,800
"REA-80C", 80 / 1Lit	〃 , 〃	SL.Rea2516	24,774,400	SL.Rea2526	25,381,400
"REA-100C", 100 / 1Lit	〃 , 〃	SL.Rea2517	28,045,800	SL.Rea2527	28,652,700

※ Note/ DN 150 Flanged PTFE Lid ; 5 Necks for 5Lit Vessels.

Ordering for Optional Necessaries

(B) & (C) Heat/Cool Circulators and Heat Transfer Fluid. ⇒ See the Following 5-th. Page!
The Circulator (B) Can be Used External Direct Contact Thermo-Probe "K-type"
(D) Vacuum Pumps ⇒ See the Pump-Section!
(E) PTFE Thermo-Probe "K-type" ⇒ See the Last Page.

LaboRactor™ 0.5~20 Lit Suspended Vacuum Reactor Set, with Jacketed Glass Vessel/Agitator/Frame/Glass Assembly NEW
with DN O-ring Flange / PTFE-Impeller & -Drainvalve, Digital 50~1000rpm, 행깅 타입 자켓 글라스 진공 반응조 셋트 0.5~20 Lit



(A) Suspended Reactor Set
−80℃+260℃

▶ Easy Installation & Remove, and Safety

▶ 0.5~20Lit Graduated Double-wall Vacuum Glass Vessel

- ■ *45° DN Flange & 5mm Thick High Boro-glass 3.3 with Good Physical, Chemical Properties.*
- ■ *PTFE Lid ; -80℃ ~ +260℃.* ■ *PTFE Drain Valve ; No-Dead Space.*
- ■ *Can be Used Direct Contact Thermo-Probe "K-type"*
- ∗ Work in Constant Pressure and Vacuum Degree below 0.095MPa in stationary.
- ∗ Cooling and Heating Solution in the Interlayer can be Completely Removed after Reaction.

▶ High-Torque Digital Agitator System, 50~1000rpm

- ■ *CE Certified.* ■ *with Certificate & Traceability : Controlled by Serial Number.*
- ■ *Patented Jog-Shuttle Control System.* ■ *PL (Product Liability) Insurance*
- ■ *With Safety Flex-Coupling between Stir-Motor and PTFE Shaft, PTFE Impeller.*
- ∗ Digital LCD with Back-Light Function. ∗ Smooth Start and Change of the Stirring Speed.
- ∗ Storage Function for the set values : RPM and Timer. ∗ Chuck - Corrosion Free.
- ∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled).

▶ Heavier-work Assembly Frame System ; Fully Adjustable

- ■ *Material : OD Φ27.2×thick 1.5mm Stainless-steel Pipe.*
- ■ *With Heavy-duty Aluminium VESSEL SUSPENSION SUPPORT DEVICEⓐ ; Very Easy Vessel Exchange!*
- ■ *With Heavy-duty Stainless-steel SUPPORT Guideⓑ for the Bottom of 10 & 20Lit Vessels.*
- ∗ with 4 Castors including 2 Lockable Castors. ∗ Benchtop Frame(With Feet) Available.

Specification of (A) Reactor Set

Models		"REA-S0.5"	"REA-S1"	"REA-S2"	"REA-S3"	"REA-S5"	"REA-S10"	"REA-S20"
Jacket Vessel Volume		0.5Lit.	1Lit.	2Lit.	3Lit.	5Lit.	10Lit.	20Lit.
Jacket Volume Approx.		0.2Lit.	0.4Lit.	0.8Lit.	1.1Lit.	1.2Lit.	2.6Lit.	5Lit.
Vessel OD×h mm		130×140	130×210	160×250	160×340	230×455	270×550	365×580
Inner Vessel OD mm		105	105	130	130	200	230	330
Heat Hose Connector		GL18			GL25		GL32	
Drain Tube Size		od 15×id 10mm		od 18×id 13mm		od 34×id 20mm		
Digital Stirrer (Agitator)	Model, Control	Direct Controlled "SHT-50DX"						
	Viscosity & Torque	100,000 mPas / 300 Ncm						
	Speed	50~1,000 rpm, Resolution : 1 rpm-Display / 1 rpm-Control						
	Motor & Rating	Worm-Geared DC Motor (3.5:1 Ratio)						
		In·Output 83 / 75 W, 1 / 10 HP						
	Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end						
	Display	Digital LCD with Back-Light Function						
	Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)						
Shaft / Impeller		Φ8/6 PTFE Encapsulated Stainless-steel Shaft			Φ10/8 PTFE Encapsulated Stainless-steel Shaft			
Safety Device		Overload & Heat Protector for Motor						
Power Consumption		85 W						
Dimension Overall		45×45×h75cm		45×45×h130cm		50×50×h150cm		55×55×h170
Power Supply		1 Phase, AC 230 V, 50 / 60 Hz						

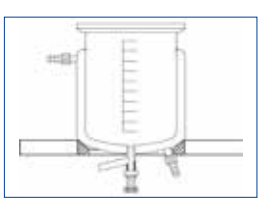


(1) Glass Lid
w / 5×Joints



(2) All PTFE Lid
w / 6×Screwjoints
◎ Top Safety : Non-Breakage, Anti-Chemical, & +280℃





Support Guideⓑ for 10 & 20 Lit

Ordering for Suspended Reactor Set, without Circulator & Vacu-Pump

Suspen-Reactor Model & Volume	Stirrer Torque and DN-Flange	(1) with Glass Lid, 5-Necks		(2) with PTFE Lid, 5-Necks	
		Cat. No.	Price, ₩	Cat. No.	Price, ₩
"REA-S0.5", 0.5 / 0.1Lit	300Ncm, DN 100	SL.Rea2481	4,559,600	SL.Rea2491	4,937,300
"REA-S1", 1 / 0.1Lit	〃 , 〃	SL.Rea2482	4,656,500	SL.Rea2492	5,034,100
"REA-S2", 2 / 0.2Lit	〃 , DN 120	SL.Rea2483	5,016,300	SL.Rea2493	5,351,200
"REA-S3", 3 / 0.5Lit	〃 , 〃	SL.Rea2484	5,024,200	SL.Rea2494	5,359,000
"REA-S5", 5 / 0.5Lit	〃 , DN 150	SL.Rea2485	5,963,200	SL.Rea2495	6,383,600
"REA-S10", 10 / 1Lit	〃 , DN 200	SL.Rea2486	7,048,300	SL.Rea2496	7,314,500
"REA-S20", 20 / 1Lit	〃 , 〃	SL.Rea2487	9,847,400	SL.Rea2497	10,275,700

※ **Note! DN 200 Flanged PTFE Lid ; 6-Necks for 10 & 20 Lit Vessels.**

Ordering for Optional Necessaries

(B) & (C) Heat/Cool Circulators and Heat Transfer Fluid. ⇒ See the Following 4-th. Page!
The Circulator (B) Can be Used External Direct Contact Thermo-Probe "K-type"
(D) Vacuum Pumps ⇒ See the Pump-Section!
(E) PTFE Thermo-Probe "K-type" ⇒ See the Last Page.

Articles	Cat. No	Description

LaboRactor™ 2~50 Lit Mantle-Heated Reactor Set, with (1) Single-wall Glass Vessel "Kettle" or (2) Round Flask NEW
with DN Series O-ring Flange / PTFE-Impeller & -Drainvalve, Digital 50~1000rpm, 맨틀가열형 진공반응조 셋트, 케틀 & 환형



Ⅰ. M-Model Kettle-type



Ⅱ. MR-Model R.Flask-type

NEW ■ *Made in Korea*



With Mantle
Remote Controller

Mantle Heated Reactor Set,
with (Ⅰ) "Kettle" Vessel or (Ⅱ) Round Flask



(1) Glass Lid
W / 5×Joints



(2) All PTFE Lid
W / 6×Screwjoints
◎ Top Safety : Non-Breakage, Anti-Chemical, & 280℃



(E) Option ; PTFE Thermo-Probe "K-type"
⇒ See the Last Page of Reactors

▶ DURAN-glass Single-wall Vacuum Glass Vessel

- ■ *Ideal for Lab, Pilot- & Mass-Production* ■ *-80℃ ~ +260℃ Withstand.*
- ■ *Can be Used Direct Contact Thermo-Probe "K-type"*
- ■ *Single-wall Vacuum Glass Reaction Vessel System with DN Grooved Flange.*
- ■ *5mm Thick High Borosilicate Glass 3.3 with Good Physical, Chemical Properties.*

∗ Work in Constant Pressure and Vacuum Degree below 0.095MPa in stationary.

▶ Remote-controlled Heating Mantle & Upper Cover, 450℃

- ■ *With Digital Feedback Controller "WGD-30S" : Can be used PTFE External Direct Contact Thermo-Probe "K-type" (E) - Option.*
- ■ *(B) Fabric-housed Mantle Cover Available - Option* ※ Details ⇒ See the Mantle-Section!

▶ High-Torque Digital Agitator System, 50~1000rpm

- ■ *CE Certified* ■ *with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*
- ■ *Patented Jog-Shuttle Control System* ■ *PL (Product Liability) Insurance*
- ■ *With Safety Flex-Coupling between Stir-Motor and PTFE Shaft, PTFE Impeller.*

Models	Ⅰ. Kettle-type	"REA-2M"	"REA-4M"	"REA-6M"	"REA-10M"	"REA-20M"	–
	Ⅱ. R.Flask-type	"REA-2MR"	"REA-3MR"	"REA-5MR"	"REA-10MR"	"REA-20MR"	"REA-50MR"
Vessel Work Volume	M-Model	2Lit	4/5Lit	6/7Lit	10/12Lit	20/21Lit	-
	MR-Model	2Lit	3Lit	5Lit	10Lit	20Lit	50Lit
Vessel od×h mm	M-Model	130×240	200×165	215×165	240×165	250×215	-
	MR-Model	165×215	185×240	225×280	280×350	350×430	480×650
Drain Tube Size		od 13×id 9mm	od 15×id 10mm	od18×id13mm			
Digital Stirrer (Agitator)	Model, Control	Direct Controlled "SHT-50DX"					Remote Cont. SHT-120T
	Viscosity & Torque	100,000 mPas					150,000 mPas
		300 Ncm					500 Ncm
	Speed	50~1,000 rpm, Resolution : 1 rpm-Display / 1 rpm-Control					
	Motor & Rating	Worm-Geared DC Motor (3.5:1 Ratio)					
		In·Output 83 / 75 W, 1 / 10 HP					130/120 W, 1 / 6 HP
	Timer & Alarm	99hr 59min (with Continuous run.), Error status & Timer-end					
	Display	Digital LCD with Back-Light Function					
	Controller	Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)					
Heating Mantle		▶ See the Mantle-Section					
Shaft / Impeller		Φ8/6 PTFE Encapsulated Stainless-steel Shaft		Φ10/8 PTFE Encapsulated Stainless-steel Shaft			Φ12/10 PTFE Shaft
Safety Device		Overload & Heat Protector for Motor					
Power Consumption		635W	885W	935W	1485W	2085W	4120W
Power Supply		1 Phase, AC 230 V, 50 / 60 Hz					

Ⅰ. M-models With 2~20Lit Single-Wall Vessel "Kettle-type", with PTFE Drain Valve

Mantle-heated Reactor Model & Volume	Mantle watts(W) and DN Flange	(1) with Glass Lid, 5 Necks		(2) with PTFE Lid, 5 Necks	
		Cat. No.	Price, ₩	Cat. No.	Price, ₩
"REA-2M", 2Lit.	550W, DN100	SL.Rea2553	3,785,200	SL.Rea2563	4,099,900
"REA-4M", 4 / 5Lit.	800W, DN150	SL.Rea2554	4,323,600	SL.Rea2564	4,674,000
"REA-6M", 6 / 7Lit.	〃 , 〃	SL.Rea2555	4,511,300	SL.Rea2565	4,860,600
"REA-10M", 10 / 12Lit.	1400W, 〃	SL.Rea2556	4,907,100	SL.Rea2566	5,256,400
"REA-20M", 20 / 22Lit.	2000W, DN200	SL.Rea2557	6,433,500	SL.Rea2567	6,867,000

∗ PTFE DN 200 Flanged Lid : 6-necks for 20Lit vessels.

Ⅱ. MR-models With 2~50Lit Round Bottom Flask, with PTFE Drain Valve

Mantle-heated Reactor Model & Volume	Mantle watts(W) and DN Flange	(1) with Glass Lid, 5 Necks		(2) with PTFE Lid, 5 Necks	
		Cat. No.	Price, ₩	Cat. No.	Price, ₩
"REA-2MR", 2Lit.	450W, DN100	SL.Rea2573	3,823,800	SL.Rea2583	4,102,800
"REA-3MR", 3Lit.	750W, DN120	SL.Rea2574	4,405,500	SL.Rea2584	4,756,000
"REA-5MR", 5Lit.	850W, 〃	SL.Rea2575	4,521,300	SL.Rea2585	4,870,700
"REA-10MR", 10Lit.	1500W, DN150	SL.Rea2576	4,883,500	SL.Rea2586	5,232,900
"REA-20MR", 20Lit.	2000W, 〃	SL.Rea2577	6,453,600	SL.Rea2587	6,887,000
"REA-50MR", 50Lit.	4000W, DN200	SL.Rea2578	9,565,100	SL.Rea2588	9,998,600

∗ PTFE DN 200 Flanged Lid : 6-necks for 20Lit vessels.

DURAN® Stirred Bottle Reactor-set, GL45/GLS 80, with Mag-Stir Shaft/Impeller and 2 & 4-Ports, 500~2000㎖
Ideal for Small Volume Mixing/Reaction, Up to 140℃, 500 rpm Autoclavable, FDA, **자석교반기용 바틀형 반응조**



(1) GL45 Stirred Reactor-set, w/2-port



(2) GLS 80 Stirred Reactor-set, w/4-port



EX. Figure
: DURAN® Stirred Reactor-set and SciLab® Hotplate Stirrer



DU.21286545
Bottle, Baffled, GLS80

- ***Supplied by DURAN® in Germany***
- ***Completely Autoclavable***
- ***Temperature Resistant up to 140℃***
- ***Can be used up to 500 rpm***
- ***Variable Stirrer Shaft can be used***
- ***Compatible with the proven DURAN® Connection Systems ;***
  Hoses with Bores from 1.6 mm to 6.0 mm can be Fitted (GL45)
  Hoses with Bores from 1.6 mm to 12.0 mm can be Fitted (GLS 80)
- ***Materials used PP / PTFE / PEEK / Stainless Steel***
- ***Parts in contact with Media conform fully to FDA Requirements***
- ***Complete Set :***

(1) 2 Ports/GL45 Stirred Reactor - ① DURAN® GL45 Bottle (500 or 1,000ml),
② Folding Magnetic Stirrer & Shaft,
③ GL45 PP Screwcap with 2×GL14 Ports & PBT Screwcap (Red),
④ GL14 PP Screwcap (Blue)

(2) 4 Ports/GLS 80 Stirred Reactor - ① DURAN® GLS 80 Bottle (1Lit. or 2Lit.),
② Anchor-type Magnetic Stirrer & Shaft,
③ GLS 80 PP Screwcap with 2×GL14 PBT Screw cap (Red) & 2×GL18 PBT Screwcap (Red),
④ 1 GL 14 PP Screwcap(blue) (Impeller-type Stirrer can be Supplied Optionally)

∗ Significantly Improved thorough Mixing Compared to Standard Magnetic Stirring Bar
∗ Ideal for the Mixing Process : Mixing Liquids, Dissolving Solids
∗ The Whole assembly is Autoclavable, so that it Can be Used in Biological Applications (Fermentation)
∗ The Connections Permit you to Introduce other Media into the Bottle or Remove Media During Mixing
∗ Can be Connected Extra Media Bottles or Fitted a Sterile Pressure Release

※**Note :**
- Instead of direct Heating, a Water or Oil Bath should be used to Ensure an even Heat transmission and to avoid tension in the Glass.
- The Stirred Reactor can be Heated in a Temperature Cabinet
- Optimum Mixing is Obtained with a Filling Volume of 300㎖ (GL45)
- Due to Lid Design, No Probes (for Temperature Measurement) can be Used (GL45)

(1) 2 Ports /GL45 Stirred Reactor-set, with Fitting Mag-Stir Shaft/Impeller

		Ea.	Price, ₩
DU.1200395	Stirred Reactor-set, 2 Ports, GL45, 500 / 100㎖		338,450
DU.1200396	, 1,000 / 100㎖		349,770

Spare Accessories for GL45 Stirred Reactor

		Ea.	Price, ₩
DU.1200391	Folding Magnetic Stirrer for GL45 Stirred Reactor, incl. Shaft PP/Stainless steel, including PEEK Connection		308,330
DU.1200390	Spare Screwcap 2-ports for GL45 Stirred Reactor, with GL14 Screwcap, PP, Blue		98,690

(2) 4 Ports /GLS 80 Stirred Reactor-set with Anchor Mag-Stir Shaft/Impeller

		Ea.	Price, ₩
DU.1200380	Stirred Reactor-set, 4 Ports, GL80, 1,000 / 100㎖		437,830
DU.1200381	, 2,000 / 200㎖		449,390

Spare Accessories for GLS 80 Stirred Reactor

		Ea.	Price, ₩
DU.21286545	Bottle, Baffled, GLS80, with PP GLS80 Screwcap & Pouring Ring, 1Lit., Φ101mm×h222mm *New*		25,410
DU.1200379	Reactor Screwcap, GLS 80, incl. Anchor Stirrer, Shaft, Connection, GL14 & GL18 Screwcap		404,190
DU.1200382	Impeller Stirrer, Magnetic (Option)		246,140
DU.1200383	Anchor Stirrer, Magnetic		246,140
DU.1200385	Screwcap, PP, Blue / Grey		124,250
DU.1200386	Shaft, Stainless Steel, incl. PEEK Connection		75,440

Articles	Cat. No	Description

SciLab-brand® Precise High-temp Bath Circulator, *"WiseCircu® SCH"*, to 250℃, ±0.1℃, 8-/12-/22-/30- Lit NEW

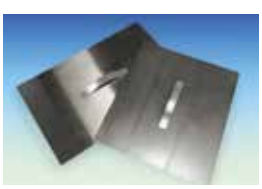
with 1×Stainless-steel Flat Lid/Digital Fuzzy Control System/Certi. & Traceability, Flow 16 Lit/min, Lift 2.8m
Ideal for Reactors, etc., External Circulating Connect - od.12.5/id.10.5mm, **정밀 고온 베스겸용 고온 써큐래타**



High Temp. Bath Circulators
"WiseCircu® SCH-8" & "WiseCircu® SCH-12"



External Circulating Nozzle



Flat Lid, Included



Ex. Multi-use High Temp. Bath Circulator with Modular Reactor System

- ***Made in Korea.*** ■ ***PL (Product Liability) Insurance.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System.***
- ***Advanced Heating System Ensures Temperature Performance.***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy.***
- ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 16 Lit./min.).***
- ***Controlled 5 Steps Circulation speed(Flow Rate).***
- ***Patented Jog-Dial Control System and Capacitive Touch Button.***

∗ 304 Stainless-steel Bath and Lid for Superior Durability and High Thermal Efficiency.
∗ Compensation Function to Control Difference between Real Temp. and Indicated Temp.
∗ Digital Timer Function : 'Delay Time' and 'Operation Time' can be Controlled.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled).

Specifications & Ordering information

Spec. \ Model		WiseCircu® SCH-8	WiseCircu® SCH-12	WiseCircu® SCH-22	WiseCircu® SCH-30
Bath Volume		8 Lit.	12 Lit.	22 Lit.	30 Lit.
Pump		Max Flow Rate : 16 Lit./min, (Controlled 5 Steps Flow Rate Speed), Max Pressure : 5 psi, Max Lift : 2.8m			
Temp. Range & Accuracy		Room Temp+5℃~250℃, ±0.1℃			
Temp. Resolution		0.1℃-Display, 0.5℃-Control			
Temp. Uniformity & Probe		±0.2℃, PT100			
Heating Power		1.0 kW	1.5 kW	2.2 kW	2.5 kW
Heat-up Time		50 min. to 100℃			
External Circulation Nozzle		id.10.5 / od.12.5 mm			
Timer & Alarm		99hr 59min (Delay & Continuous run), Error status & Timer-end			
Display		Digital LCD with Back-Light Function			
Controller		Digital Fuzzy Controller with Jog - Dial Knob (Turn+Push)			
Safety Circuit		Over-Temp./-Current protection, Sensor Error & Low Level Detection			
Material		Stainless steel (#304)-Internal, Powder Coated steel-External, 50mm Thickness Ceramic Fiber-Insulation			
Lid & Drain Valve		included Stainless-steel Flat Lid, Ball Valve, Optional Dome Lid,			
Dimension (w×d×h)	Effective Space	180×130×h155	250×130×h155	340×250×h155	340×250×h200
	Mounted	180×320×h155	250×320×h155	340×440×h155	340×440×h200
	External	303×443×h569	373×443×h569	463×563×h569	463×563×h614
Packing Size (mm) & Gross Weight(kg)		470×400×h500 19 kg	470×400×h500 21 kg	600×490×h500 23 kg	600×490×h500 37 kg
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	SL.SCH00408	SL.SCH00412	SL.SCH00422	SL.SCH00430
	120V	SL.SCH00508	SL.SCH00512	SL.SCH00522	SL.SCH00530
Price, Each. ₩		1,248,000	1,287,000	1,382,000	1,421,000

∗ Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 9,000 별도!**





Insulated Silicone & Teflon PFA Circulation Hose, Id Φ10 ~ 19mm, L1/1.5m NEW

■ ***Supplied by SciLab Korea*** ∗ Φ37mm Black NBR Foam Insulated Silicone or PFA-Hose
∗ Silicone Vacu-Hose : id 10×od 18mm, id 15×od 20mm, id 18×od 25mm, 220℃
∗ PTFE Hose : id 10×od 12mm, id 15×od 16mm, id 19×od 20mm, -100 + 260℃ ∗ SL.Tub4031 & SL.Tub4032 : PFA Hose

(1) Insulated Silicone Hose, 220℃

		dh	Pk.	Price,₩
SL.Tub4021	Sili-hose, id 10mm, L1m	1m		21,700
SL.Tub4022	, L1.5m	1.5m		24,200
SL.Tub4023	, id 15mm, L1m	1m		27,000
SL.Tub4024	, L1.5m	1.5m		32,200
SL.Tub4025	, id 18mm, L1m	1m		34,700
SL.Tub4026	, L1.5m	1.5m		43,500

(2) Insulated PFA Hose, 260℃

		dh	Pk.	Price,₩
SL.Tub4031	PFA-hose, id 10mm, L1m	1m		32,800
SL.Tub4032	, L1.5m	1.5m		40,900
SL.Tub4033	PTFE-hose, id 15mm, L1m	1m		35,500
SL.Tub4034	, L1.5m	1.5m		45,100
SL.Tub4035	, id 19mm, L1m	1m		44,900
SL.Tub4036	, L1.5m	1.5m		46,500

(3) Best Insulatedly & Flexible Stainless-steel Circulation Hose, Id Φ17mm, L1m, 360℃

		Ea.	Price,₩
SL.Tub7021	Flexible Stainless-steel Circulation Hose, id 17×od 60mm, L1m		849,420

SciLab-brand® −30℃+200℃ Precise Refrigerated Heating External Circulators, *"WiseCircu® SHR"*, Lift 38m, ±0.2℃

Ideal for 5~100 Lit Reactors, Heating Line, etc., with Pre-Cooling Sys, Can be used with External Direct Contact K-type Temp. Probe(Optional) with High Quality Magnetic Pump, Flow 20-/40-/60-Lit/min, **정밀 고온/냉동 겸용 외부 써큐레타** NEW



−30℃~ +200Refrigerated/Heating External Circulator, "WiseCircu® SHR-50"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance*** ■ ***Max. Lift : 38m***
- ***Ideal for Various Size Reactor-system.*** ■ ***Built in Magnetic Pump ensures Long-life Time.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Can be used with External Direct Contact K-type Temp. Probe(Optional)***
- ***Innovated Powerful Circulation Pump ensures Temp. Uniformity : Internal and External Circulation (Max Flow Rate : 20-/40-/60-Lit./min.)***
- ***Assembly-type Safety Connection Ports/Pipe (for Fluid In/Out-let : ISO RC 1" Screw Stainless-steel.)***
- ***Patented Jog-Dial Control System and Digital LCD with Back-Light Function.***
- ***With High Quality Shock-proof Caster for Convenient and Safe Moving.***
- ***Independently 3-systems : Refrigerating System, Heating System, Pre-Cooling System.***
- ***Embedded External Nozzle Part for the Prevention of Nozzle Damaged.***
- ***Stainless-steel Internal Bath for Prevention of Corrosion.***

∗ Urethane Foam Insulation ∗ Warning and Auto-Stop Function in case of Liquid Shortage.
∗ More Faster Cool-down and Heat-up Time ∗ Connection with Evaporator or Viscometer is applicable.
∗ Wide-range Filling Volume 10Lit./18Lit./25Lit. ∗ Useful for 5~100Lit. Various Reactors and Evaporators.
∗ High Quality Magnetic Pump : Max Flow Rate 20-/40-/60-Lit/min and Max. Pressure 4 bar



Assembly-type Safety Connection Ports/Pipe, for Fluid In/Out-let ; ISO RC 1" Thread, Located On Rear-Upper Pannel



▶ Figure ; One of the Applications in the Reactor System.

Specifications & Ordering information

Spec. \ Model		WiseCircu® SHR-20	WiseCircu® SHR-50	WiseCircu® SHR-100
Temp. Range & Stability		−30℃~ +200℃-Range, ±0.2℃(at 15℃)-Stability		
Heat-Fluid Filling Volume		10 Lit. max	18 Lit. max	25 Lit. max
Useful for 5~100Lit Reactors, etc.		for 5~20Lit Reactor, etc.	for 20~50Lit Reactor, etc.	for 50~100Lit Reactor, etc.
Refrigerator Capacity		4.5 kW	7.5 kW	18 kW
Heater		2.5 kW	6.0 kW	12 kW
Lid & Top Opening Dia.		Φ80 mm		
Fluid In/Out-let Connector		ISO RC 1" (English System AG 1") Thread, Stainless-steel		
Pump Power, Lift Height, m	Max. Flow Rate	20 Lit/min	40 Lit/min	60 Lit/min
	Max. Pressure & Lift	Max Pressure : 4 bar, Max. Lift : 38m		
Cooling Capacity	at +15℃	8.1 kW	13.1 kW	22.7 kW
	at 0℃	4.3 kW	7.3 kW	12.6 kW
	at −25℃	1.4 kW	3.1 kW	5.45 kW
External Dimension		550×630×h1060 mm	700×790×h1270 mm	770×1100×h1500 mm
Optional External Temp. Sensor K-type Probe		Can be used with External Direct Contact K-type Temp. Probe. (Optional)		
Material		Stainless steel-Internal, Powder Coated steel-External		
Electrical Reqts.		1 Phase 230 V, 50 / 60 Hz or 3Phase 380V		
Cat. No.	230V	SL.SHR0020	-	-
	3 Phase	-	SL.SHR0050	SL.SHR0100
Price, Each. ₩		9,019,000	11,992,000	17,740,000

∗ Other Specifications are available upon Customer's Request. ※ 운임 약 ₩ 20,000 별도!

Therminol D12® −85+230℃ Best COOL-/HEAT-ing Transfer Fluid, Synthetic Hydrocarbon Mixture NEW

for Low/High-Temp Baths, Clearly Harmless Liquid, Low Odor FDA Grade, 4/18/200Lit, **냉매/열매 겸용 합성 탄화수소물액체**



(1) 4Lit



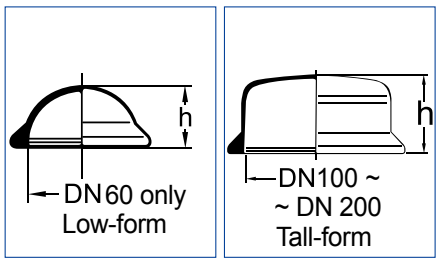
(2) 18Lit

- ***Supplied by "Eastman" USA*** ■ ***Clear, Water white Liquid / Non-Toxic / Low-Smell, FDA-Grade.***
- ***The Best Circulation Properties / Thermal Stability.***
- ***The Lowest Viscosity, cP ▶ (1) -50℃ : 12cP, (2) 100℃ : 0.46cP, (3) 200℃ : 0.19cP, (4) 230℃ : 0.16cP***

∗ Specific Gravity : 0.759 at 25℃ ∗ Autoignition Temp : 247℃ ∗ Flash Point : 62℃
∗ Freezing Point : -94℃ ∗ Boiling Point(90%) : 204℃
∗ Package : (1) 4Lit. and (2) 18Lit. PE Square Bottle / Subdivision, Original-200Lit. Steel Drum / 155kg

		4ℓ.dh pk ₩
SL.CirD12.1	(1) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 4 Lit.	4Lit 230,870
		18ℓ.dh pk ₩
SL.CirD12.2	(2) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 18Lit.	18Lit 789,170
	※ 운임 약 ₩ 25,000 별도!	Drum Price,₩
SL.CirD12	"Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 200Lit./Drum	200Lit 6,171,000

1~5 Necks DURAN-glass 45° DN-Standard Flange Lids, for Reaction Vessels, ⏚ 14/23, 24/40, and 34/45 with Perfect Compatibility, Chemical & Heat-Resistant, 45° DN-표준 플랜지 반응조 뚜껑, 완벽한 호환성



A. DN 60 Flange Blank Lid Low-form

B.~ E. DN 100~DN 200 Flange Blank Lid Tall-form

- ***Made of DURAN Borosilicate Glass 3.3 : by SciLab Korea.***
- ***Chemical Resistance : Class-A2 & S1 to Alkali & Acid, and HGB-1 Hydrolytic Class.***
- ***Heat Resistance : (1) 1260℃/Working Point, (2) 825℃/Softening Point, (3) 560℃/Annealing Point***

▶ The Specification of 45° DN-Standardized / Strong Flanges : 5-Ranges

A. DN 60 Flange : id Φ60 × od Φ100mm
B. DN 100 Flange : id Φ100 × od Φ138mm
C. DN 120 Flange : id Φ120 × od Φ158mm
D. DN 150 Flange : id Φ150 × od Φ184mm
E. DN 200 Flange : id Φ200 × od Φ242mm



SciLab® 1 & 2-neck Lids

(1) 1-socket Neck Lids, 45° DN-Flanged

Cat. No	DN flange	Center neck ⏚	Price Ea.₩
SL.Re2001	DN 60	⏚ 14/23	81,680
SL.Re2002		24/40	81,680
SL.Re2003	DN 100	⏚ 24/40	99,830
SL.Re2004		34/45	103,460
SL.Re2005	DN 120	⏚ 24/40	119,790
SL.Re2006		34/45	123,420
SL.Re2007	DN 150	⏚ 24/40	152,460
SL.Re2008		34/45	156,090
SL.Re2009	DN 200	⏚ 24/40	459,800
SL.Re2010		34/45	464,640

(2) 2-socket Necks Lids, 45° DN-Flanged

Cat. No	DN flange	Center neck ⏚	Side neck 15° angle ⏚	Price Ea.₩
SL.Re2011	DN 60	⏚ 14/23	⏚ 14/23	90,750
SL.Re2012		24/40	24/40	92,570
SL.Re2013	DN 100	⏚ 24/40	⏚ 24/40	110,720
SL.Re2014		34/45	24/40	114,350
SL.Re2015	DN 120	⏚ 24/40	⏚ 24/40	130,680
SL.Re2016		34/45	24/40	134,310
SL.Re2017	DN 150	⏚ 24/40	⏚ 24/40	165,170
SL.Re2018		34/45	24/40	168,800
SL.Re2019	DN 200	⏚ 24/40	⏚ 24/40	484,000
SL.Re2020		34/45	24/40	488,840



(3) SciLab® 3-neck Lid Tall-form 45° DN-flange Lids. 15° angle or Vertical Side-neck

(3) 3-socket Necks 45° DN-flange Lids, with DN60 ~ DN200-flanges, 15° Angle or Vertical Side-necks

		Ea.	Price, ₩
SL.Re2021	**DN 60**-flange Lid, 3-neck, Center-⏚ 24/40, 2×15° Side ⏚ 14/23		101,640
SL.Re2022	, 2×15° Side ⏚ 24/40		103,460
SL.Re2023	**DN 100**-flange Lid, 3-neck, Center-⏚ 24/40, 2×15° Side ⏚ 14/23		125,240
SL.Re2024	, 2×15° Side ⏚ 24/40		127,050
SL.Re2025	-⏚ 34/45, 2×15° Side ⏚ 24/40		130,680
SL.Re2026	**DN 120**-flange Lid, 3-neck, Center-⏚ 24/40, 1×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		145,200
SL.Re2027	, 2×15° Side ⏚ 24/40		145,200
SL.Re2028	-⏚ 34/45, 1×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		148,830
SL.Re2029	, 2×15° Side ⏚ 24/40		148,830
SL.Re2031	**DN 150**-flange Lid, 3-neck, Center-⏚ 24/40, 1×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		177,870
SL.Re2032	, 2×15° Side ⏚ 24/40		177,870
SL.Re2033	-⏚ 34/45, 1×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		181,500
SL.Re2034	, 2×15° Side ⏚ 24/40		181,500
SL.Re2035	**DN 200**-flange Lid, 3-neck, Center-⏚ 24/40, 1×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		508,200
SL.Re2036	, 2×15° Side ⏚ 24/40		508,200
SL.Re2037	-⏚ 34/45, 1×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		513,040
SL.Re2038	, 2×15° Side ⏚ 24/40		513,040



(4) DURAN® Original

(4) DURAN Original 4-neck Lids, with 45° DN-flange, with DN100/120/150-flanges & DIN 29/32 & 14/23 Joints NEW

		Ea.	Price, ₩
SM.2439247	**DN 100**-flange Lid, Center-⏚ 29/32, 2×15° Side ⏚ 29/32, 1×Vertical ⏚ 14/23		285,270
SM.2439251	**DN 120**-flange Lid, -⏚ 29/32, 2×15° Side ⏚ 29/32, 1×Vertical ⏚ 14/23		304,430
SM.2439259	**DN 150**-flange Lid, -⏚ 29/32, 2×15° Side ⏚ 29/32, 1×Vertical ⏚ 14/23		320,400

<Continued On Next Page>

Articles	Cat. No	Description

<*Continued From...* 1~5 Necks DURAN-glass 45° DN-Standard Lids>

4 &5 Necks DURAN-glass 45° DN-Standard Flange Lids for Reaction Vessels, ⏚ 14/23, 24/40, and 34/45
with Perfect Compatibility, Chemical & Heat-Resistant, 45° DN-표준 플랜지 반응조 뚜껑, 완벽한 호환성

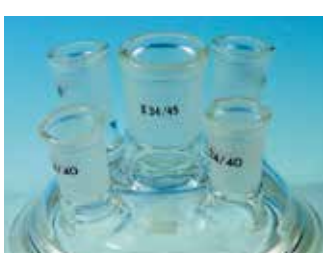


(5) 4-Neck, Tall-form
45° DN-flange Lids
Center : ⏚ 24/40 or ⏚ 34/45,
2×15° angled &
1×Vertical Side-neck

- ***Made of DURAN Borosilicate Glass 3.3 : by SciLab Korea.***
- ***Chemical Resistance : Class-A2 & S1 to Alkali & Acid, and HGB-1 Hydrolytic Class.***
- ***Heat Resistance : (1) 1260℃/Working Point, (2) 825℃/Softening Point, (3) 560℃/Annealing Point***

(5) 4-socket Necks 45° DN-flange Lids, with DN60 ~ DN200-flanges, 15° Angle or Vertical Side-necks

		Ea.	Price, ₩
SL.Re2041	**DN 60**-flange Lid, 4-neck, Center-⏚ 24/40, 2×15° Side ⏚ 14/23, 1×Vertical ⏚ 14/23		114,350
SL.Re2042	, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 14/23		114,350
SL.Re2043	**DN 100**-flange Lid, 4-neck, Center-⏚ 24/40, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 14/23		134,310
SL.Re2044	, 1×Vertical ⏚ 24/40		136,130
SL.Re2045	, 3×15° Side ⏚ 24/40		136,130
SL.Re2047	-⏚ 34/45, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 14/23		139,760
SL.Re2048	, 1×Vertical ⏚ 24/40		139,760
SL.Re2049	, 3×15° Side ⏚ 24/40		139,760
SL.Re2051	**DN 120**-flange Lid, 4-neck, Center-⏚ 24/40, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		156,090
SL.Re2052	, 3×15° Side ⏚ 24/40		156,090
SL.Re2053	, 3×Vertical-side ⏚ 24/40		156,090
SL.Re2055	-⏚ 34/45, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		159,720
SL.Re2056	, 3×15° Side ⏚ 24/40		159,720
SL.Re2057	, 3×Vertical-side ⏚ 24/40		159,720
SL.Re2061	**DN 150**-flange Lid, 4-neck, Center-⏚ 24/40, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		199,650
SL.Re2062	, 3×15° Side ⏚ 24/40		199,650
SL.Re2063	, 3×Vertical-side ⏚ 24/40		199,650
SL.Re2065	-⏚ 34/45, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		203,280
SL.Re2066	, 3×15° Side ⏚ 24/40		203,280
SL.Re2067	, 3×Vertical-side ⏚ 24/40		203,280
SL.Re2071	**DN 200**-flange Lid, 4-neck, Center-⏚ 24/40, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		520,300
SL.Re2072	, 3×15° Side ⏚ 24/40		520,300
SL.Re2073	, 3×Vertical-side ⏚ 24/40		520,300
SL.Re2075	-⏚ 34/45, 2×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		525,140
SL.Re2076	, 3×15° Side ⏚ 24/40		525,140
SL.Re2077	, 3×Vertical-side ⏚ 24/40		525,140



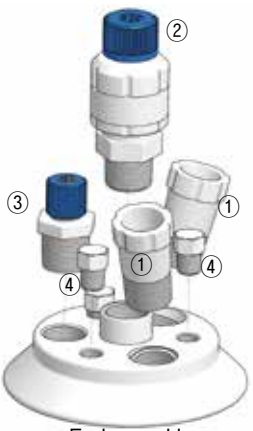
(6) 5-Neck, Tall-form
45° DN flange Lids
Center : ⏚ 14/23, 24/40, or 34/45
3×15° angled &
1×Vertical Side-neck

(6) 5-socket Necks 45° DN-flange Lids, with DN100 ~ DN200-flanges, 15° Angle or Vertical Side-necks

		Ea.	Price, ₩
SL.Re2084	**DN 100**-flange Lid, 5-neck, Center-⏚ 24/40, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 14/23		143,390
SL.Re2085	, 1×Vertical ⏚ 24/40		145,200
SL.Re2086	, 4×15° Side ⏚ 24/40		145,200
SL.Re2087	-⏚ 34/45, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 14/23		147,020
SL.Re2088	, 1×Vertical ⏚ 24/40		148,830
SL.Re2089	, 4×15° Side ⏚ 24/40		148,830
SL.Re2091	**DN 120**-flange Lid, 5-neck, Center-⏚ 24/40, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		166,980
SL.Re2092	, 4×15° Side ⏚ 24/40		166,980
SL.Re2093	, 4×Vertical-side ⏚ 24/40		166,980
SL.Re2095	-⏚ 34/45, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		170,610
SL.Re2096	, 4×15° Side ⏚ 24/40		170,610
SL.Re2097	, 4×Vertical-side ⏚ 24/40		170,610
SL.Re2101	**DN 150**-flange Lid, 5-neck, Center-⏚ 24/40, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		217,800
SL.Re2102	, 4×15° Side ⏚ 24/40		217,800
SL.Re2103	, 4×Vertical-side ⏚ 24/40		217,800
SL.Re2105	-⏚ 34/45, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		221,430
SL.Re2106	, 4×15° Side ⏚ 24/40		221,430
SL.Re2107	, 4×Vertical-side ⏚ 24/40		221,430
SL.Re2111	**DN 200**-flange Lid, 5-neck, Center-⏚ 24/40, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		544,500
SL.Re2112	, 4×15° Side ⏚ 24/40		544,500
SL.Re2113	, 4×Vertical-side ⏚ 24/40		544,500
SL.Re2115	-⏚ 34/45, 3×15° Side ⏚ 24/40, 1×Vertical ⏚ 24/40		549,340
SL.Re2116	, 4×15° Side ⏚ 24/40		549,340
SL.Re2117	, 4×Vertical-side ⏚ 24/40		549,340

4~6 Necks All PTFE 45° DN-Standard Flanged Reactor Lids, with Assembly Screw ⅀ Taper Socket Joint, DN60~DN200 Flanged Common Use "ASTM & DIN" ⅀ Cone Jointware, PTFE 45° DN, 표준 플랜지 반응조 안전 뚜껑 NEW





Exchangeable

▶ Top-Safety : Non-Breakage / Non-Scratch / Chemically Inert / 280℃ stable
▶ Exchangeable Screw NPT : ① ⅀ Joints / ② Stirrer Guides / ③ Fittings (ex.Temp-Adapters) / ④ Blanking Nut Stoppers, etc
▶ It could change with ⅀ Socket Joint or any Fittings which have Same Size Screw NPT.
▶ These Safety PTFE Lids are compatible with DURAN® 45° Flange-type DN-60/-100/-120/-150 & DN200 Flanged Glass Vessels and DN Quick Release Clamps perfectly.

- ***Made in U.K.***
- ***PTFE is Pure, Virgin Material, which conforms to FDA and USP Class VI Requirements.***
- ***Common Use with ASTM & DIN ⅀ Cone Jointware of ⅀14/-, 19/-, 24/-, 29/-, 34/-, and 45/-***
- ***Screw-in Assembly of Fittings to give Flexibility, Versatility and Significant Cost Saving***
- ***All Fittings are Interchangeable for the same Thread Sizes. : ⅀ Joints, Compression Screw Fittings, Blanking Nut Stoppers, Stirrer Guide, etc.***
- ***The PTFE Lid fit Vessels with DURAN® type DN 60, 100, 120, 150 and DN 200 Flange Vessels & Quick Release Clamps.***

∗ Can accommodate all usual Ancillary Equipment, Condensers, Probes, etc.
∗ Improved Durability and Safety compared to Conventional Glass Lids
∗ Improved Thermal Insulation and Reduced Condensation
∗ Standard Reactor Lids fit Vessels with 60, 100, 150 and 200mm DURAN® type Flanges.

▶ The Specification of 45° DN-Standardized / Strong Flanges : 5-Ranges, DIN/ISO

A. DN 60 Flange : id Φ60 ×od Φ100mm
B. DN 100 Flange : id Φ100×od Φ138mm
C. DN 120 Flange : id Φ120×od Φ158mm
D. DN 150 Flange : id Φ150×od Φ184mm
E. DN 200 Flange : id Φ200×od Φ242mm



(1) DN 60/45° Flanged PTFE 4-neck Reactor Lid, with 3×⅀ 24/- & 1×⅀ 14/- Screw Sockets (0.5″ NPT)

∗ Pre-assembled Reactor Lid to Fit **DURAN® DN60/45° Flange "id 60×od 100mm" type.**
∗ The Screw ⅀Socket Joints are Removable & Exchangeable ⇒ All Fittings for Same Screw NPT size.
∗ Suitable for ASTM & DIN Joint Cones = Common Use : ⅀24/40 & 24/29 and ⅀14/35 &14/23 Cone Jointware

SL.Rea4011 **PTFE Reactor Lid, DN60**, 4-Screw ⅀Sockets : 3×24/- & 1×14/- **Price/Ea.** ₩ 171,730

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ⅀Joints & Fittings in Same Screw NPT Size
Centre Neck	0.5″ NPT	Vertical	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	① ⅀ Socket Joint : (14/-), 19/-, (24/-), & 29/- ③ Screw Clamping Holders, Bore Φ6~14mm and Stopper Plugs ④ Blanking Nut Stoppers ⑤ Screw-Extension Adapter NPT-Male 0.5″& Female 0.75″and then ② Stirrer Guides for Φ8~10mm Shafts
Side Neck-1	0.5″ NPT	10°&10° Compound Angle	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	0.5″ NPT	10°&10° Compound Angle	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	0.5″ NPT	10°&10° Compound Angle	⅀14/- Screw Taper Socket : Common Use-14/35 & 14/23 Cones	



(2) DN 100/45° Flanged PTFE 5-neck Reactor Lid, with 5×⅀ 24/- Screw Sockets (0.75″ NPT)

∗ Pre-assembled Reactor Lid to Fit **DURAN® DN100/45° Flange "id 100×od 138mm" type.**
∗ The Screw ⅀Socket Joints are Removable & Exchangeable ⇒ All Fittings for Same Screw NPT size.
∗ Suitable for ASTM & DIN Joint Cones = Common Use : ⅀24/40 & 24/29 Cone Jointware

SL.Rea4013 **PTFE Reactor Lid, DN100**, 5-Screw ⅀Sockets : 5×24/- **Price/Ea.** ₩ 320,500

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ⅀Joints & Fittings in Same Screw NPT Size
Centre Port	0.75″ NPT	Vertical	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	① ⅀Socket Joint : (24/-), 29/-, (34/-), & 45/- ② Stirrer Guides for Φ8~10mm Shafts ③ Screw Clamping Holders, Bore Φ6~14mm and Stopper Plugs ④ Blanking Nut Stoppers ⑤ Screw-Extension Adapter NPT-Male 0.75″ & Female 1″
Side Neck-1	0.75″ NPT	Vertical	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	0.75″ NPT	10° Angle	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	0.75″ NPT	10° Angle	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-4	0.75″ NPT	10°&10° Compound Angle	⅀24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	

<Continued On Next Page>

<*Continued From...* 4~6 Necks All PTFE 45° DN-Standard Flange Reactor Lids>



(3) DN 120/45° Flanged PTFE 5-neck Reactor Lid, with 1× ⧩ 34/- & 4× ⧩ 24/- Screw Sockets (0.75″ NPT)

∗ Pre-assembled Reactor Lid to Fit **DURAN® DN120/45° Flange "id 120×od 158mm" type.**
∗ The Screw ⧩ Socket Joints are Removable & Exchangeable ⇒ All Fittings for Same Screw NPT size.
∗ Suitable for ASTM & DIN Joint Cones = Common Use : ⧩ 34/45 & 34/35 and ⧩ 24/40 & 24/29 Cones

SL.Rea4015 **PTFE Reactor Lid, DN120**, 5-Screw ⧩ Sockets : 1×34/- & 4×24/- **Price/Ea.** ₩ 366,280

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ⧩ Joints & Fittings in Same Screw NPT Size
Centre Port	1″ NPT	Vertical	⧩ 34/- Screw Taper Socket : Common Use-34/45 & 34/35 Cones	① ⧩ Socket Joint : (24/-), 29/-, (34/-), & 45/- ② Stirrer Guides for Φ8~10mm Shafts ③ Screw Clamping Holders, Bore Φ6~14mm and Stopper Plugs ④ Blanking Nut Stoppers ⑤ Screw-Extension Adapter NPT-Male 0.75″ & Female 1″
Side Neck-1	0.75″ NPT	Vertical	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	0.75″ NPT	10° Angle	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	0.75″ NPT	10° Angle	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-4	0.75″ NPT	10°&10° Compound Angle	⧩ 24/- Screw Taper Socket : Common Use-34/45 & 34/35 Cones	



(4) DN 150/45° Flanged PTFE 5-neck Reactor Lid, with 3× ⧩ 24/-, 1× ⧩ 34/- & 1× ⧩ 45/- Screw Sockets (1″ NPT)

∗ Pre-assembled Reactor Lid to Fit **DURAN® DN150/45° Flange "id 150×od 184mm" type.**
∗ The Screw ⧩ Socket Joints are Removable & Exchangeable ⇒ All Fittings for Same Screw NPT size.
∗ Suitable for ASTM & DIN Joint Cones = Common Use : ⧩ 34/45 & 34/35, ⧩ 24/40 & 24/29 and ⧩ 45/50 & 45/40 Cones

SL.Rea4017 **PTFE Reactor Lid, DN150**, 5-Screw ⧩ Sockets : 3×24/-, 1×34/- & 1×45/- **Price/Ea.** ₩ 446,690

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ⧩ Joints & Fittings in Same Screw NPT Size
Centre Port	1″ NPT	Vertical	⧩ 34/- Screw Taper Socket : Common Use-34/45 & 34/35 Cones	① ⧩ Socket Joint : (24/-), 29/-, (34/-), & 45/- ② Stirrer Guides for Φ8~10mm Shafts ③ Screw Clamping Holders, Bore Φ6~14mm and Stopper Plugs ④ Blanking Nut Stoppers ⑤ Screw-Extension Adapter NPT-Male 1″ & Female 1.5″
Side Neck-1	1″ NPT	Vertical	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	1″ NPT	Vertical	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	1″ NPT	10° Angle	⧩ 45/- Screw Taper Socket : Common Use-45/50 & 45/40Cones	
Side Neck-4	1″ NPT	10°&10° Compound Angle	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cone	



2-Kinds of 6-Necks

ⓐ Basic-type
⧩ 24/-, 1″ NPT-Aperture ; Condenser Connection

ⓑ Wide Condensing-type
⧩ 34/-, 1.5″ NPT-Aperture ; Condenser Connection

(5) DN 200/45° Flanged PTFE 6-neck Reactor Lid, with 3 or 4× ⧩ 24/-, 1 or 2× ⧩ 34/- & 1× ⧩ 45/- Screw Sockets

∗ Pre-assembled Reactor Lid to Fit **DURAN® DN200/45° Flange "id 200×od 242mm" type.**
∗ The Screw ⧩ Socket Joints are Removable & Exchangeable ⇒ All Fittings for Same Screw NPT size.
∗ Suitable for ASTM & DIN Joint Cones = Common Use : ⧩ 34/45 & 34/35, ⧩ 24/40 & 24/29 and ⧩ 45/50 & 45/40 Cones

ⓐ SL.Rea4019 **PTFE Reactor Lid, DN200**, 6-Screw ⧩ Sockets : 4×24/-, 1×34/- & 1×45/- **Price/Ea.** ₩ 638,750
ⓑ SL.Rea4020 : 3×24/-, 2×34/- & 1×45/- **Price/Ea.** ₩ 655,630

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ⧩ Joints & Fittings in Same Screw NPT Size
Centre Port	1″ NPT	Vertical	⧩ 34/- Screw Taper Socket : Common Use-34/45 & 34/35 Cones	① ⧩ Socket Joint : (24/-), 29/-, (34/-), & 45/- ② Stirrer Guides for Φ8~10mm Shafts ③ Screw Clamping Holders, Bore Φ6~14mm and Stopper Plugs ④ Blanking Nut Stoppers ⑤ Screw-Extension Adapter NPT-Male 1″ & Female 1.5″
Side Neck-1	1″ NPT	Vertical	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	1″ NPT	Vertical	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	1″ NPT	10° Angle	ⓐ ⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
	1.5″ NPT		ⓑ ⧩ 34/- Screw Taper Socket : Common Use-34/45 & 34/35 Cones	
Side Neck-4	1″ NPT	10°&10° Compound Angle	⧩ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cone	
Side Neck-5	1.5″ NPT	10°Angle	⧩ 45/- Screw Taper Socket : Common Use-45/50 & 45/40 Cone	

Articles	Cat. No	Description



Exchangeable NPT-PTFE Screw Taper Socket Joints

Accessory NPT-PTFE Screw ⧩ Standard Taper Socket Joints for PTFE Reactor Lids NEW

Suitable for "ASTM & DIN" ⧩ Cone Jointware, PTFE 반응조 뚜껑용 NPT스크류 표준 소켓 조인트

■ ***Made of UK.*** ■ ***Fit to the Same Screw NPT Necks of PTFE Reactor Lids: Easy Exchangeable***
■ ***Pure / Chemically Resistant / Cleanable / Durable / Non-Breakage / Non-scratch / 280℃ stable***

(1) For DN60-flanged Lid, with 0.5″ NPT Screw Necks, ⧩ 14/- ~⧩ 29/-

		Ea. Price,₩
CW.PC711.1413	PTFE Screw Socket, 0.5″ NPT, ⧩14/-, for ⧩14/35 & 14/23 Cones, Φ22×h45mm	16,260
CW.PC711.1913	, ⧩19/-, for ⧩19/38 & 19/26 Cones, Φ27×h50mm	19,030
CW.PC711.2413	, ⧩24/-, for ⧩24/40 & 24/29 Cones, Φ34×h67mm	22,980
CW.PC711.2913	, ⧩29/-, for ⧩29/42 & 29/32 Cones, Φ40×h68mm	33,200

(2) For DN100 & 120-flanged Lid, with 0.75″ NPT Screw Necks, ⧩ 19/- ~ ⧩ 34/-

		Ea. Price,₩
CW.PC711.1919	PTFE Screw Socket, 0.75″ NPT, ⧩19/-, for ⧩19/38 & 19/26 Cones, Φ27×h55mm	20,240
CW.PC711.2419	, ⧩24/-, for ⧩24/40 & 24/29 Cones, Φ34×h55mm	23,650
CW.PC711.2919	, ⧩29/-, for ⧩29/42 & 29/32 Cones, Φ40×h68mm	34,970
CW.PC711.3419	, ⧩34/-, for ⧩34/45 & 34/35 Cones, Φ47×h75mm	43,820

(3) For DN150 & 200-flanged Lid, with 1″ NPT Screw Necks, ⧩ 24/- ~ ⧩ 45/-

		Ea. Price,₩
CW.PC711.2425	PTFE Screw Socket, 1″ NPT, ⧩24/-, for ⧩24/40 & 24/29 Cones, Φ34×h60mm	26,940
CW.PC711.2925	, ⧩29/-, for ⧩29/42 & 29/32 Cones, Φ40×h60mm	30,640
CW.PC711.3425	, ⧩34/-, for ⧩34/45 & 34/35 Cones, Φ47×h75mm	46,750
CW.PC711.4525	, ⧩45/-, for ⧩45/50 & 45/40 Cones, Φ58×h90mm	65,380

(4) For DN200-flanged Lid, with 1.5″ NPT Screw Necks, ⧩ 24/- ~ ⧩ 45/-

		Ea. Price,₩
CW.PC711.2438	PTFE Screw Socket, 1.5″ NPT, ⧩24/-, for ⧩24/40 & 24/29 Cones, Φ48×h55mm	40,120
CW.PC711.2938	, ⧩29/-, for ⧩29/42 & 29/32 Cones, Φ48×h55mm	40,950
CW.PC711.3438	, ⧩34/-, for ⧩34/45 & 34/35 Cones, Φ48×h55mm	39,730
CW.PC711.4538	, ⧩45/-, for ⧩45/50 & 45/40 Cones, Φ61×h80mm	56,160



(1), (2), (3) NPT Holder Set



(4) Replacement Seal Pack

Accessory NPT-PTFE Screw Clamping Holder, Grip Bore Φ7~19mm for Rod & Tubing NEW

Ideal for Thermometer/Probes, Sampling tubes, Inert Gas Tube, etc., 스크류 그립 홀더, 온도계/샘플튜브등 다용도

∗ Made in UK.
∗ Consist of PTFE Bored Body and Replacement Seal Pack of Screw Clamp Nut / PEEK "Olive" Grip Ring / Bored Cone Nut

(1) 0.5″ NPT Holder Set, Bore Φ7~12mm

		Set. Price,₩
CW.701.050.07	0.5″ NPT Holder Set, Φ7mm Bore	23,370
CW.701.050.08	, Φ8mm Bore	23,370
CW.701.050.09	, Φ9mm Bore	23,900
CW.701.050.12	, Φ12mm Bore	25,500

(2) 0.75″ NPT Holder Set, Bore Φ8~16mm

		Set. Price,₩
CW.701.075.08	0.75″ NPT Holder Set, Φ8mm Bore	29,530
CW.701.075.12	, Φ12mm Bore	29,840
CW.701.075.14	, Φ14mm Bore	24,770
CW.701.075.16	, Φ16mm Bore	39,860

(3) 1″ NPT Holder Set, Bore Φ8~19mm

		Set. Price,₩
CW.701.100.08	1″ NPT Holder Set, Φ8mm Bore	34,190
CW.701.100.12	, Φ12mm Bore	40,410
CW.701.100.14	, Φ14mm Bore	41,740
CW.701.100.16	, Φ16mm Bore	45,190
CW.701.100.19	, Φ19mm Bore	51,640

(4) Replacement Seal Pack of 3 Parts, Bore Φ7~19mm

∗ Consist : ① Screw Clamp Nut, ② "Olive" Grip Ring, and ③ Bored Cone Nut

		Pk.	Price,₩
CW.701.007	Seal Pack, 3parts, Φ7mm Bore	3parts	8,910
CW.701.008	, Φ8mm Bore	3parts	7,890
CW.701.009	, Φ9mm Bore	3parts	9,040
CW.701.012	, Φ12mm Bore	3parts	10,160
CW.701.014	, Φ14mm Bore	3parts	10,600
CW.701.016	, Φ16mm Bore	3parts	14,600
CW.701.019	, Φ19mm Bore	3parts	16,410

② Replacement "Olive" Grip Ring, Bore Φ7~19mm

		Pk.	Price,₩
CW.701.07	"Olive" Grip Ring, Φ7mm Bore	5ea	9,070
CW.701.08	, Φ8mm Bore	5ea	9,420
CW.701.09	, Φ9mm Bore	5ea	11,110
CW.701.12	, Φ12mm Bore	5ea	12,830
CW.701.14	, Φ14mm Bore	5ea	12,260
CW.701.16	, Φ16mm Bore	5ea	15,170
CW.701.19	, Φ19mm Bore	5ea	16,220



(5) Optional Plug to Seal the "Screw Clamping Holder"

(5) Optional PTFE Plugs to Seal the "Screw Clamping Holder", Φ7~19mm, 스크류 그립 홀더용 마개

∗ The Plugs are Used to Seal the "NPT-PTFE Screw Clamping Holder" without the Need to Remove the "Clamping holder" from the PTFE Lid of Reactor

		Ea. Price,₩
CW.703.07	PTFE Plug, for Bore-Φ7mm	2,090
CW.703.08	-Φ8mm	2,210
CW.703.09	-Φ9mm	3,040
CW.703.12	PTFE Plug, for Bore-Φ12mm	4,600
CW.703.14	-Φ14mm	4,600
CW.703.16	-Φ16mm	6,960
CW.703.19	-Φ19mm	6,360

Articles	Cat. No	Description

NPT-PTFE Blanking Nut Stoppers, to Seal Unused Blank Neck Ports of PTFE Lids, 0.5″~1.5″ NPT NEW
for Used to Seal Unused / Blank Neck Ports of PTFE Reactor Lids, PTFE 반응조 카바의 Blank Neck용 마개



∗ Made in UK. ∗ Used to Seal Unused / Blank Neck Ports of PTFE Reactor Lids

		Ea. Price,₩
CW.702.050	PTFE Blanking Nut Stopper, 0.5″ NPT	7,130
CW.702.075	, 0.75″ NPT	10,800
CW.702.100	, 1″ NPT	14,970
CW.702.150	, 1.5″ NPT	29,140



PTFE-NPT-Extension Adapters NEW
스크류 확장 어댑터, 특히 DN 60 뚜껑의 중앙에 Stirrer Guide 0.75″ NPT를 사용시에 ①번 어댑터가 필요함

∗ Especially, Good for the Center Neck of DN 60 Flanged Lid : for the Use of Stirrer Guide 0.75" NPT

		Ea. Price,₩
CW.713.050075	① PTFE NPT-Extension Adapter, 0.5″ NPT Male, 0.75″ NPT Female, h46mm	38,420
CW.713.075100	② , 0.75″ NPT Male, 1″ NPT Female, h46mm	45,380
CW.713.100150	③ , 1″ NPT Male, 1.5″ NPT Female, h43mm	76,390

Screw-NPT-PTFE/PEEK High-class Vacuum Stirrer Guide, with 0.75″ & 1″ NPT for Φ8~16mm Shafts NEW
for Direct Assembly into PTFE Reactor Lids, 500rpm Stable/max 800rpm, Chemically Inert, −200℃~+280℃ stable, 고품질 진공 교반씰



(1)



(2)

■ ***Made of UK.*** ■ ***Useful for a Wide-Range Vacuum Condition***

∗ Acceptable a Wide Temperature Range without Shedding Particles from the Guide Seal Whilst Maintaining Vacuum Operation
∗ Screw-NPT : for Direct Assembly into PTFE Reactor Lids ∗ Ant-Whip and Reduced Vibration

(1) for Middle/Low Vacuum, for Shaft Φ8~Φ16mm

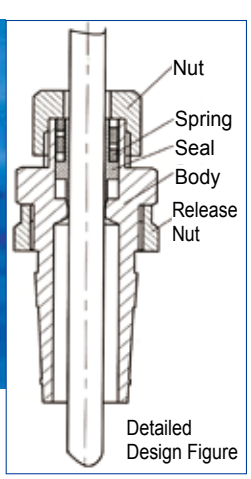
		Ea. Price,₩
CW.710.0819	**PTFE Stirrer Guide, Vacuum, 0.75″ NPT**, for-8mm shaft, h63mm	126,780
CW.710.1019	-10mm shaft, h63mm	126,780
CW.710.0825	**PTFE Stirrer Guide, Vacuum, 1″ NPT**, for-8mm shaft, h67mm	139,510
CW.710.1025	-10mm shaft, h67mm	132,060
CW.710.1225	-12mm shaft, h67mm	126,780
CW.710.1425	-14mm shaft, h80mm	542,400
CW.710.1625	-16mm shaft, h80mm	179,610

(2) for High Vacuum, 5mmHg/5psi, for Shaft Φ8~Φ16mm

		Ea. Price,₩
CW.709.0819	**PTFE Stirrer Guide, Hi-Vacuum, 0.75″ NPT**, for-8mm shaft, h106mm	308,820
CW.709.1019	-10mm shaft, h106mm	308,820
CW.709.1219	-12mm shaft, h106mm	361,340
CW.709.0825	**PTFE Stirrer Guide, Hi-Vacuum, 1″ NPT**, for-8mm shaft, h110mm	308,820
CW.709.1025	-10mm shaft, h110mm	308,820
CW.709.1225	-12mm shaft, h112mm	361,340
CW.709.1425	-14mm shaft, h112mm	813,600
CW.709.1625	-16mm shaft, h112mm	361,340

⅀Joint-Screw-NPT-PTFE/PEEK High-class Vacuum Stirrer Guide, with ASTM/DIN ⅀Glass Cone Joint, for Φ8~16mm Shafts
Ideal for Middle/Low-Vacuum, 500/800rpm, Chemically Inert, −200℃~+280℃ stable, 고품질 진공 ⅀교반씰





High Performance Shaft Guides

■ ***Made of UK.*** ■ ***Suitable for Glass Same Size Socket of ASTM or DIN***

∗ with an Adjustable / Replaceable Compression Seal Sizes ; for Φ8~Φ16mm Shafts
∗ PTFE in the only Media Contact Material

(1) for ASTM Socket Joint Sizes, for Φ8~Φ16mm Shaft

		Ea. Price,₩
CW.005.0.0824	Stirrer Seal, USA-type, for-Φ 8mm Shafts, ⅀24/40 Joint	134,150
CW.005.0.1024	-Φ10mm Shafts, ⅀24/40 Joint	134,150
CW.005.0.1034	-Φ10mm Shafts, ⅀34/45 Joint	145,300
CW.005.0.1434	-Φ14mm Shafts, ⅀34/45 Joint *New*	513,690
CW.005.0.1634	-Φ16mm Shafts, ⅀34/45 Joint	190,070

(2) for DIN/ISO Socket Joint Sizes, for Φ8~Φ16mm Shaft

		Ea. Price,₩
CW.005.00.0824	Stirrer Seal, EUROPE-type, for-Φ 8mm Shafts, ⅀24/29 Joint	106,410
CW.005.00.1029	-Φ10mm Shafts, ⅀29/32 Joint	112,700
CW.005.00.1045	-Φ10mm Shafts, ⅀45/40 Joint	147,150
CW.005.00.1434	-Φ14mm Shafts, ⅀34/35 Joint *New*	510,490
CW.005.00.1645	-Φ16mm Shafts, ⅀45/40 Joint	187,810

Articles	Cat. No	Description

250 ~ 50,000㎖ DURAN® Original Vacuum/Pressure Round Reaction Flasks, with 45° DN-Flange/O-ring Groove

up to 1.0 bar at 250℃, Perfect Compatibility, DURAN® 정품 환형 진공 / 압력 반응 플라스크, O-링 홈부, 완벽한 호환성 표준화 규격 NEW



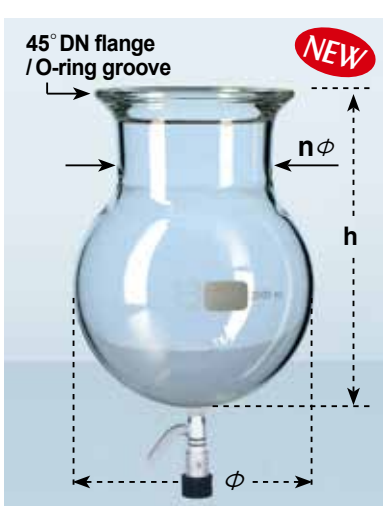
■ ***DURAN® Original Reaction Flasks, Borosilicate Glass 3.3 : Made in Germany.***
※ ***But, The "SL.Re~" Items of 250, 500, 1000, 3000, and 50,000㎖ : Finished by SciLab Korea.***
"Joining Original DURAN® Blank-DN flange 45° / O-ring groove & -Flask".
■ ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance.***
Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class.
Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point,
(3) 1260℃ -Melt Working point, and (4) 525℃-Transformation Temp.
■ ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless-steel Quick-Release-Clamp.***
Also Suitable for General Purpose.
■ ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
① ***DN 60*** *Flange : id Φ60 × od Φ 100mm*
② ***DN 100*** *Flange : id Φ100 × od Φ 138mm*
③ ***DN 120*** *Flange : id Φ120 × od Φ 158mm*
④ ***DN 150*** *Flange : id Φ150 × od Φ 184mm*
⑤ ***DN 200*** *Flange : id Φ200 × od Φ 242mm*



Ordering : Vessels and Heating Mantles

		Vessel		SciLab® Heat-Mantle, 230V	
		Ea.	Price, ₩	Cat. No	Ea. Price, ₩
(1) 250 & 500㎖ - 45° DN 60 flange/O-ring groove					
SL.Re2161	React-Flask, **DN 60**, **250**㎖, Φ 85 / thick 2±1×nΦ70×h145mm, 1.0 bar.		88,000	**SL.Man8032**	97,000
SL.Re2162	, **500**㎖, Φ105 / thick 2±1×nΦ70×h165mm, 1.0 bar.		89,500	**SL.Man8033**	117,000
(2) 1,2,4, and 6 Lit. - 45° DN 100 flange/O-ring groove					
SL.Re2164	React-Flask, **DN 100**, **1,000~1,300(full)**㎖, 1.0 bar, Φ131/ thick 2.3±0.8×nΦ106×h185mm.		118,600	**SL.Man8034**	121,000
SM.2439563	, **2,000~2,600(full)**㎖, 1.0 bar, Φ165 / thick 4.0±1×nΦ106×h215mm.		138,500	**SL.Man8035**	146,000
SM.2439571	, **4,000~4,700(full)**㎖, 1.0 bar, Φ206 / thick 4.0±1×nΦ106×h265mm.		216,200	**SL.Man8037**	215,000
SM.2439576	, **6,000~6,700(full)**㎖, 1.0 bar, Φ236 / thick 4.5±1×nΦ106×h295mm.		261,800	**SL.Man8039**	221,000
(3) 3 & 5 Lit. - 45° DN 120 flange/O-ring groove, Thick. 3.5±0.5mm					
SL.Re2166	React-Flask, **DN 120**, **3,000~3,500(full)**㎖, 1.0 bar, Φ185 / thick 3.5±1×nΦ130×h240mm.		200,800	**SL.Man8036**	159,000
SM.2439773	, **5,000~6,000(full)**㎖, 1.0 bar, Φ225 / thick 3.3±1×nΦ130×h280mm.		252,200	**SL.Man8038**	215,000
(4) 10 & 20 Lit. - 45° DN 150 flange/O-ring groove, Thick. 4.5±1mm					
SM.2439986	React-Flask, **DN 150**, **10,000~12,000(full)**㎖, 0.5 bar, Φ280 / thick 4.5±1×nΦ160×h350mm.		413,100	**SL.Man8040**	388,000
SM.2439991	, **20,000~22,000(full)**㎖, 0.5 bar, Φ350 / thick 4.5±1×nΦ156×h420mm.		569,800	**SL.Man8041**	653,000
(5) 50 Lit. - 45° DN 200 flange/O-ring groove, Thick. 5±1mm					
SL.Re2171	React-Flask, **DN 200**, **50,000~56,000(full)**㎖, 0.5 bar, Φ480 / thick 5.5±1×nΦ215×h650mm.		2,425,300	**SL.Man8083**	1,005,000

※ SL.Man8083 : without Temp. Controller



2~50Lit. PTFE Drain-valved Reaction Flasks Mantles, with 45°DN-flange/O-ring Groove

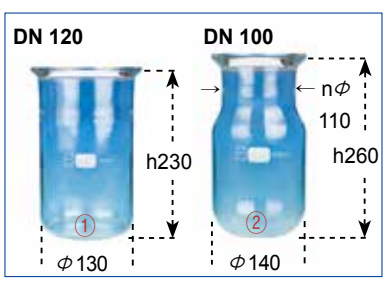
배출 밸브형 진공 / 압력 반응 플라스크, O-링 홈부, 완벽한 호환성 표준화 규격

		Vessel		SciLab® Heat-Mantle, 230V	
		Ea.	Price, ₩	Cat. No	Ea. Price, ₩
SL.Re2292	React-Flask, **DN 100, 2,000~2,600(full)**㎖, 1.0 bar. Φ165 / thick 4.0±1×nΦ106×h215mm		247,400	**SL.Man8222**	174,000
SL.Re2293	React-Flask, **DN 120, 3,000~3,500(full)**㎖, 1.0 bar. Φ185 / thick 3.5±1×nΦ130×h240mm		388,600	**SL.Man8232**	215,000
SL.Re2294	React-Flask, **DN 120, 5,000~6,700(full)**㎖, 1.0 bar. Φ225 / thick 3.3±1×nΦ130×h280mm		426,900	**SL.Man8234**	245,000
SL.Re2295	React-Flask, **DN 150, 10,000~12,000(full)**㎖, 0.5 bar. Φ280 / thick 4.5±1×nΦ160×h350mm		587,000	**SL.Man8226**	407,000
SL.Re2296	React-Flask, **DN 150, 20,000~22,000(full)**㎖, 0.5 bar. Φ350 / thick 4.5±1×nΦ156×h420mm		842,800	**SL.Man8227**	671,000
SL.Re2298	React-Flask, **DN 200, 50,000~56,000(full)**㎖, 0.5 bar. Φ480 / thick 5.5±1×nΦ215×h650mm		2,754,900	**SL.Man8228**	1,117,000

100 ~ 22,000㎖ DURAN® Original Vacuum/Pressure Reaction Vessel, with 45° DN-flange/O-ring Groove NEW
with Perfect Compatibility, 0.5 ~ 2.5 bar, 정품 DURAN® 환저 진공 / 압력 반응 베셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) **Cylindrical-form,** 100 ~ 3,600㎖
R / B Vacuum / Pressure Vessels



※ **Comparison! 2,600㎖ :**
① "Re2212" **Cylindrical-form** and
② "DU.2439063" **Kettle-form**



(2) **Kettle-form,** 2,000 ~ 21,000㎖
R / B Vacuum / Pressure Vessels



Basic-type Reaction Vessel Mantle with Controller

- ***Original DURAN® Vacuum / Pressure Reaction Vessels : Made in Germany. But, The "SL.Re ~ items" : Joining Original DURAN® Blank DN flange 45° / O-ring and Blank Round-Bottom Vessel : by SciLab Korea.***
- ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance. Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class. Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point, (3) 1260℃ -Melt Working point, and (4) 525 -Transformation Temp.***
- ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless steel Quick-Release-Clamp. Also Suitable for General Purpose***
- ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
  - ① ***DN 60*** *Flange : id Φ 60 × od Φ 100mm*
  - ② ***DN 100*** *Flange : id Φ 100 × od Φ 138mm*
  - ③ ***DN 120*** *Flange : id Φ 120 × od Φ 158mm*
  - ④ ***DN 150*** *Flange : id Φ 150 × od Φ 184mm*
  - ⑤ ***DN 200*** *Flange : id Φ 200 × od Φ 242mm*

※ **The following "DU.~" items : Original DURAN® Products !** ∗ The "h" Vessel Height Approximately.

Ordering : Vessels and Heating Mantles

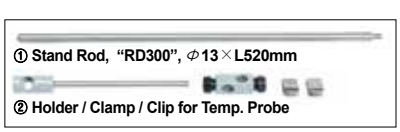
(1) 0.1~3.6 Lit. Cylindrical-form, with Vacuum DN flange 45° /O-ring Groove

(2) 2~21 Lit. Kettle-form, with Vacuum DN flange 45° /O-ring Groove

Vessel			SciLab® Heat-Mantle, 230V	
		Ea. Price, ₩	Cat. No	Ea. Price, ₩
SM.2439024	**DN 60** Vessel, - **100~200(full)**㎖, 2.5 bar, Φ70 / thick 3.5±1×h85mm.	41,400	**SL.Man8130**	96,000
SM.2439036	- **250~310(full)**㎖, 2.5 bar, Φ70 / thick 3.5±1×h125mm.	80,000	**SL.Man8131**	119,000
SM.2439044	**DN 100** Vessel, - **500~750(full)**㎖, 1.5 bar, Φ106 / thick 3.5±1×h120mm.	83,700	**SL.Man8015**	121,000
SM.2439054	- **1,000~1,400(full)**㎖, 1.5 bar, Φ106 / thick 3.5±1×h205mm.	112,600	**SL.Man8133**	123,000
SL.Re2212	①**DN 120** Vessel, - **2,000~2,600(full)**㎖, 1.5 bar, Φ130 / thick 4.5±1×h240mm.	180,100	**SL.Man8134**	137,000
SL.Re2213	- **3,000~3,600(full)**㎖, 1.5 bar, Φ130 / thick 4.5±1×h320mm.	189,800	**SL.Man8136**	174,000
SM.2439063	②**DN 100** Vessel, - **2,000~2,600(full)**㎖, 1.5 bar, Φ140 / thick 4.5±1×nΦ110 ×bh210×h270mm.	153,100	**SL.Man8135**	153,000
SM.2439071	**DN 150** Vessel, - **4,000~5,800(full)**㎖, 1.0 bar, Φ200 / thick 5±1×nΦ165 ×bh215×h290mm.	247,600	**SL.Man8138**	204,000
SM.2439076	- **6,000~7,400(full)**㎖, 1.0 bar, Φ215 / thick 5±1×nΦ165 ×bh245×h320mm.	284,900	**SL.Man8139**	224,000
SM.2439086	- **10,000~12,000(full)**㎖, 0.5 bar, Φ240 / thick 5.5±1×nΦ165 ×bh335×h410mm .	317,800	**SL.Man8141**	407,000
SL.Re2217	**DN 200**, Vessel,- **20,000~21,000(full)**㎖, Φ250 / thick 5.5±1×nΦ215 ×bh500×h575mm.	875,800	**SL.Man8142**	712,000

SciLab-brand® Reaction Vessel Heating Mantles, Basic-type, 450℃, 0.1~100Lit.
with Built-in Temperature Controller, with Nickel Chrome Heating Element, with Certi. & Traceability
반응조용 히팅맨틀, 온도 조절기 내장, 기본형, Ni-Cr 열선내장

※ **Note !**
- ▶**Details : Please See the Heating Mantle-Section !**
- ▶**Heating Mantle with Temp. Controller**



Optional : Stainless-steel Rod, Holder & Clamp

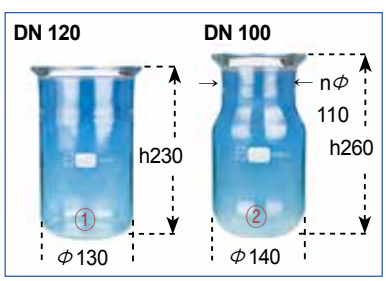
		Ea. Price, ₩
DH.WHP503037	① **Stand Rod, "RD300",** Φ13×L520mm, for Heating Mantles	16,000
DH.WHP503012	② **Holder & Clamp, "CL220",** for Temp. Sensor	25,000

Articles	Cat. No	Description

Graduated 100 ~ 12,000㎖ DURAN-glass Vacuum / Pressure Vessel, with 45° DN-flange/O-ring Groove NEW
with Perfect Compatibility, 0.5 ~ 2.5 bar, 눈금부 환저 진공 / 압력 반응 베셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) Graduated **Cylindrical-form**
100 ~ 3,600㎖ : Vacu- / General-



※ **Comparison! 2,600㎖ :**
① "Re2224" **Cylindrical-form** and
② "Re2226" **Kettle-form**



(2) Graduated R/B **Kettle-form**
2,000 ~ 21,000㎖ : Vacu- / General-

- ***Graduated Original DURAN® Vacuum / Pressure Vessels : by SciLab Korea.***
- ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance.***
  Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class.
  Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point,
  (3) 1260℃ -Melt Working point, and (4) 525℃-Transformation Temp.
- ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless steel Quick-Release-Clamp.***
  Also Suitable for General Purpose
- ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
  ① ***DN 60*** *Flange : id Φ 60 × od Φ 100mm*
  ② ***DN 100*** *Flange : id Φ 100 × od Φ 138mm*
  ③ ***DN 120*** *Flange : id Φ 120 × od Φ 158mm*
  ④ ***DN 150*** *Flange : id Φ 150 × od Φ 184mm*
  ⑤ ***DN 200*** *Flange : id Φ 200 × od Φ 242mm*

∗ The "h" Vessel Height Approximately.

Ordering : Vessels and Heating Mantles

(1) 0.1~3.6 Lit. Cylindrical-form, with Vacuum DN flange 45° /O-ring Groove

		Vessel Ea. Price, ₩	SciLab® Heat-Mantle, 230V Cat. No	Ea. Price, ₩
SL.Re2220	DN 60 Vessel, - **100~200(full)**㎖, 2.5 bar, Φ70 / thick 3.5±1×h85mm.	70,600	SL.Man8130	96,000
SL.Re2221	- **250~310(full)**㎖, 2.5 bar, Φ70 / thick 3.5±1×h125mm.	120,400	SL.Man8131	119,000
SL.Re2222	DN 100 Vessel, - **500~750(full)**㎖, 1.5 bar, Φ106 / thick 3.5±1×h120mm.	121,000	SL.Man8015	121,000
SL.Re2223	- **1,000~1,400(full)**㎖, 1.5 bar, Φ106 / thick 3.5±1×h205mm.	167,400	SL.Man8133	123,000
SL.Re2224	①DN 120 Vessel, - **2,000~2,600(full)**㎖, 1.5 bar, Φ130 / thick 4.5±1×h240mm.	189,800	SL.Man8134	137,000
SL.Re2225	- **3,000~3,600(full)**㎖, 1.5 bar, Φ130 / thick 4.5±1×h320mm.	199,500	SL.Man8136	174,000

(2) 2~12 Lit. Kettle-form, with Vacuum DN flange 45° /O-ring Groove

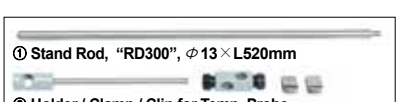
SL.Re2226	②DN 100 Vessel, - **2,000~2,600(full)**㎖, 1.5 bar, Φ140 / thick 4.5±1×nΦ110 ×bh215×h270mm.	191,800	SL.Man8135	153,000
SL.Re2227	DN 150 Vessel, - **4,000~5,800(full)**㎖, 1.0 bar, Φ200 / thick 5±1×nΦ165 ×bh220×h290mm.	291,100	SL.Man8138	204,000
SL.Re2228	- **6,000~7,400(full)**㎖, 1.0 bar, Φ215 / thick 5±1×nΦ165 ×bh250×h320mm.	345,500	SL.Man8139	224,000
SL.Re2229	- **10,000~12,000(full)**㎖, 0.5 bar, Φ240 / thick 5.5±1×nΦ165 ×bh340×h410mm.	420,600	SL.Man8141	407,000



Basic-type Reaction Vessel Mantle with Controller

SciLab-brand® Reaction Vessel Heating Mantles, Basic-type, 450℃, 0.1~100Lit.
with Built-in Temperature Controller, with Nickel Chrome Heating Element, with Certi. & Traceability
반응조용 히팅맨틀, 온도 조절기 내장, 기본형, Ni-Cr 열선내장

※ Note !
- ▶ **Details : Please See the Heating Mantle-Section !**
- ▶ **Heating Mantle with Temp. Controller**



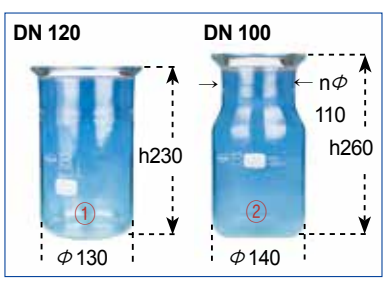
Optional : Stainless-steel Rod, Holder & Clamp

		Ea. Price, ₩
DH.WHP503037	① **Stand Rod,** Φ13×L520mm, **"RD300",** for Heating Mantles	16,000
DH.WHP503012	② **Holder & Clamp, "CL220",** for Temp. Sensor	25,000

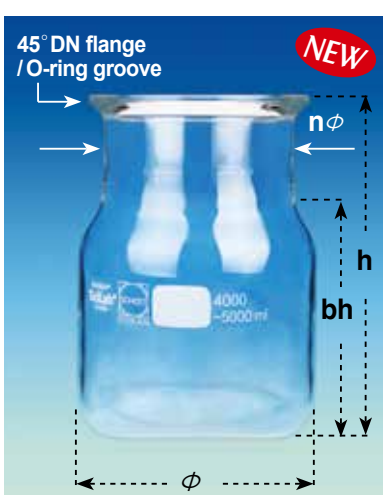
100 ~ 20,000㎖ DURAN-glass Flat-bottom Vacuum/Pressure Reaction Vessels, with 45° DN-flange/O-ring Groove NEW
with Perfect Compatibility, 0.5 ~ 2.5 bar, **평저 진공 / 압력 반응 베셀**, O-링 홈부, 완벽한 호환성 표준화 규격



(1) F/B **Cylindrical-form**
100 ~ 3,600㎖ : Vacu- / General-



※ **Comparison! 2,500㎖ :**
① "Re2186" **Cylindrical-form** and
② "Re2191" **Kettle-form**



(2) **Kettle-form,**
2,000 ~ 21,000㎖ : Vacu- / General-



Basic-type Reaction Vessel Mantle with Controller

- ***Flattened Original DURAN® Reaction Vessels : by SciLab Korea. But, the DN 120 & DN 200-Vessels : Joining Original DURAN® Blank-DN flange 45° / O-ring and Vessel : by SciLab Korea***
- ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance. Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class. Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point, (3) 1260℃ -Melt Working point, and (4) 525℃-Transformation Temp.***
- ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless steel Quick-Release-Clamp. Also Suitable for General Purpose***
- ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
  - ① ***DN 60*** *Flange : id Φ60 × od Φ100mm*
  - ② ***DN 100*** *Flange : id Φ100 × od Φ138mm*
  - ③ ***DN 120*** *Flange : id Φ120 × od Φ158mm*
  - ④ ***DN 150*** *Flange : id Φ150 × od Φ184mm*
  - ⑤ ***DN 200*** *Flange : id Φ200 × od Φ242mm*

∗ The "h" Vessel Height Approximately.

Ordering : Vessels and Heating Mantles

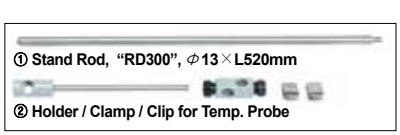
(1) 0.1~3.6 Lit. Flat Bottom-form, with Vacuum DN flange 45°/O-ring Groove, Flat-bottom

(2) 2~21 Lit. Kettle-form, ∗ 15 Lit only : Cylindrical-form with Vacuum DN flange 45° /O-ring Groove, Flat-bottom

Vessel		Ea. Price, ₩	SciLab® Heat-Mantle, 230V Cat. No	Ea. Price, ₩
SL.Re2181	**DN 60** Vessel, - **100~190**㎖, 2.5 bar, Φ70 / thick 3.5±1 × h75mm.	70,600	**SL.Man8130**	96,000
SL.Re2182	- **250~310**㎖, 2.5 bar, Φ70 / thick 3.5±1 × h120mm.	120,400	**SL.Man8131**	119,000
SL.Re2184	**DN 100** Vessel, - **500~700**㎖, 1.5 bar, Φ106 / thick 3.5±1 × h115mm.	121,000	**SL.Man8015**	121,000
SL.Re2185	- **1,000~1,300**㎖, 1.5 bar, Φ106 / thick 3.5±1 × h190mm.	167,400	**SL.Man8133**	123,000
SL.Re2186	①**DN 120** Vessel, - **2,000~2,500**㎖, 1.5 bar, Φ130 / thick 4.5±1 × h230mm.	189,800	**SL.Man8134**	137,000
SL.Re2187	- **3,000~3,600**㎖, 1.5 bar, Φ130 / thick 4.5±1 × h310mm.	199,500	**SL.Man8136**	174,000
SL.Re2191	②**DN 100** Vessel, - **2,000~2,500**㎖, 1.5 bar, Φ140 / thick 4.5±1 × nΦ110 × bh210 × h260mm.	191,800	**SL.Man8135**	153,000
SL.Re2192	**DN 150** Vessel, - **4,000~5,700**㎖, 1.0 bar, Φ200 / thick 5±1 × nΦ160 × bh215 × h280mm.	291,100	**SL.Man8138**	204,000
SL.Re2193	- **6,000~7,200**㎖, 1.0 bar, Φ215 / thick 5±1 × nΦ165 × bh245 × h300mm.	345,500	**SL.Man8139**	224,000
SL.Re2194	- **10,000~12,000**㎖, 0.5 bar, Φ240 / thick 5.5±1 × nΦ165 × bh335 × h400mm.	420,600	**SL.Man8141**	407,000
SL.Re2198	**DN 200** Vessel, - **20,000~21,000**㎖, 0.5 bar, Φ250 / thick 5.5±1 × nΦ215 × bh500 × h575mm .	937,600	**SL.Man8142**	712,000

SciLab-brand® Reaction Vessel Heating Mantles, Basic-type, 450℃, 0.1~100Lit.
with Built-in Temperature Controller, with Nickel Chrome Heating Element, with Certi. & Traceability
반응조용 히팅맨틀, 온도 조절기 내장, 기본형, Ni-Cr 열선내장

※ Note !
- ▶**Details : Please See the Heating Mantle-Section !**
- ▶**Heating Mantle with Temp. Controller**



Optional : Stainless-steel Rod, Holder & Clamp

		Ea. Price, ₩
DH.WHP503037	① **Stand Rod, Φ13 × L520mm, "RD300",** for Heating Mantles	16,000
DH.WHP503012	② **Holder & Clamp, "CL220",** for Temp. Sensor	25,000

PTFE Drain-valved 250 ~ 22,000㎖ DURAN-glass Vacuum/Pressure Reaction Vessel, with 45° DN-flange/O-ring Groove with Perfect Compatibility, 0.5 ~ 2.5 bar, 배출 밸브형 진공 / 압력 반응 베셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) **Cylindrical-form,** 250 ~ 3,600㎖,
PTFE Drain-valved

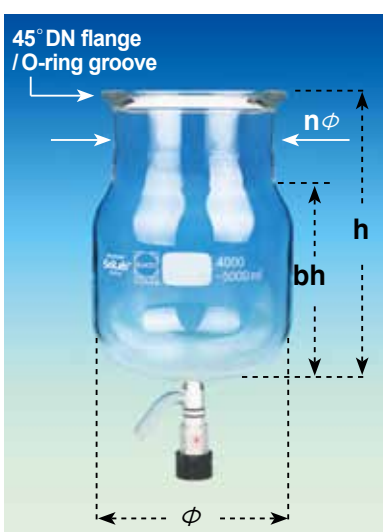
- ***Joining DURAN Original Vacuum / Pressure Reaction Vessels(SM.24390-series) and Domestic PTFE Drain Valves : by SciLab Korea.***
- ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance. Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class. Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point, (3) 1260℃ -Melt Working point, and (4) 525℃-Transformation Temp.***
- ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless steel Quick-Release-Clamp. Also Suitable for General Purpose***
- ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
  - ① ***DN 60*** *Flange : id Φ 60 × od Φ 100mm*
  - ② ***DN 100*** *Flange : id Φ 100 × od Φ 138mm*
  - ③ ***DN 120*** *Flange : id Φ 120 × od Φ 158mm*
  - ④ ***DN 150*** *Flange : id Φ 150 × od Φ 184mm*
  - ⑤ ***DN 200*** *Flange : id Φ 200 × od Φ 242mm*

∗ The "h" Vessel Height Approximately.

Ordering : Vessels and Heating Mantles

(1) 0.25~3.6 Lit. Cylindrical-form, with PTFE Drain-valve, with Vacuum DN Flange 45° /O-ring groove.

		Vessel	SciLab® Heat-Mantle, 230V	
		Ea. Price, ₩	Cat. No	Ea. Price, ₩
SL.Re2231	DN 60 Vessel, - **250~310(full)**㎖, 2.5 bar, Φ70 / thick 3.5±1×h125mm.	207,600		
SL.Re2232	DN 100 Vessel, - **500~750(full)**㎖, 1.5 bar, Φ106 / thick 3.5±1×h120mm.	211,800	SL.Man8190	113,000
SL.Re2233	- **1,000~1,400(full)**㎖, 1.5 bar, Φ106 / thick 3.5±1×h205mm.	254,500	SL.Man8191	134,000
SL.Re2234	DN 120 Vessel, - **2,000~2,600(full)**㎖, 1.5 bar, Φ130 / thick 4.5±1×h240mm.	267,200	SL.Man8192	146,000
SL.Re2235	- **3,000~3,600(full)**㎖, 1.5 bar, Φ130 / thick 4.5±1×h320mm.	296,300	SL.Man8194	178,000



(2) **Kettle-form,** 2,000 ~ 21,000㎖
PTFE Drain-valved

(2) 2~21 Lit. Kettle-form, with PTFE Drain-valve, with Vacuum DN Flange 45° /O-ring groove. ∗ 15 Lit only : Cylindrical-form

SL.Re2240	DN 100 Vessel, - **2,000~2,600(full)**㎖, 1.5 bar, Φ140 / thick 4.5±1×nΦ110 ×bh210×h270mm.	279,000	SL.Man8193	164,000
SL.Re2241	DN 150 Vessel, - **4,000~5,800(full)**㎖, 1.0 bar, Φ200 / thick 5±1×nΦ165 ×bh215×h290mm.	445,900	SL.Man8196	204,000
SL.Re2242	- **6,000~7,400(full)**㎖, 1.0 bar, Φ215 / thick 5±1×nΦ165 ×bh245×h320mm.	490,700	SL.Man8197	224,000
SL.Re2243	- **10,000~12,000(full)**㎖, 0.5 bar, Φ240 / thick 5.5±1×nΦ165 ×bh335×h410mm.	595,500	SL.Man8199	407,000
SL.Re2246	DN 200 Vessel, - **20,000~21,000(full)**㎖, Φ250 / thick 5.5±1×nΦ215 ×bh500×h575mm.	1,105,100	SL.Man8200	710,000

※ Temp. Controller : Option



(2) Bottom Outlet-type Heating Mantle Remotecontrolled

SciLab® Remotecontrolled Reaction Vessel Heating Mantles, Bottom Outlet-type, 450℃, 0.1~100Lit. for Reaction Vessel, with Nickel Chrome Heating Element, K-type Thermo-sensor Integrated, Option-Controller
반응조용 히팅맨틀, 조절기별도, K-type 온도센서 내장, Ni-Cr 열선내장, 자력교반기와 사용가능

▶**Details : Please See the Heating Mantle-Section !**

Optional Analog & Digital Controller


(1) WHM - C10A


(2) WHM-C10D

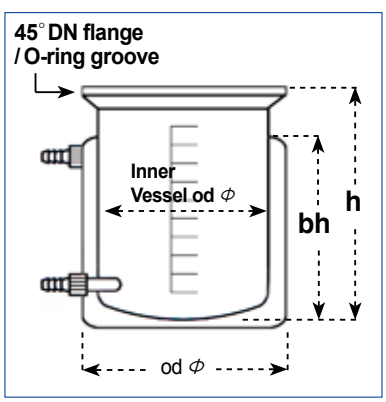
		Ea. Price,₩
DH.WHM13500	(1) Analog Controller, "C10A", 230V	112,000
DH.WHM12500	(2) Full Digital Controller, "C10D", 230V	232,000

Graduated 250 ~ 22,000㎖ Jacketed Vacuum / Pressure Vessel, with 45° DN-flange/O-ring Groove

with Perfect Compatibility, DURAN-glass/GL18-PTFE Connected, 0.5 ~ 2.5 bar, **눈금부 자켓 베셀**



Graduated Jacket Vessel : with 18 ~ 32 PTFE Hose Connection, & DN flange 45° / O-ring for Vacuum / Pressure Use.



⊙ **The Figure of Graduated Jacket Vessel**

- ***Made of DURAN® Blank Vessels(Vacuum / Pressure) / DN-flange or Heavy-wall Tubing : by SciLab Korea.***
- ***Flat-Bottom Outer Jacket, and Semi-Round Bottom Inner Vessel.***
- ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance. Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class. Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point, (3) 1260℃ -Melt Working point, and (4) 525℃-Transformation Temp.***
- ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless steel Quick-Release-Clamp. Also Suitable for General Purpose***
- ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
  - ① ***DN 60*** *Flange : id Φ60 × od Φ100mm*
  - ② ***DN 100*** *Flange : id Φ100 × od Φ138mm*
  - ③ ***DN 120*** *Flange : id Φ120 × od Φ158mm*
  - ④ ***DN 150*** *Flange : id Φ150 × od Φ184mm*
  - ⑤ ***DN 200*** *Flange : id Φ200 × od Φ242mm*

∗ The "h" Vessel Height Approximately, and Cylindrical-form Vessels.

∗ **with The Safety GL-18 or 25 or 32 PTFE Hose Connector Set : NO-Broken, Exchangeable, up to-250℃, Anti-Chemicals.**

		Ea.	Price, ₩
SL.Re2251	**DN 60** Vessel, - **250~310 / 50**㎖, Φ105 × bh100, h150mm, GL 14 inner vessel : od Φ65 / thick 3.5 × h150mm, outer jacket : od Φ105 / thick 4mm.		226,600
SL.Re2252	- **500~620 / 100**㎖, Φ105 × bh190, h240mm, GL 18 inner vessel : od Φ65 / thick 3.5 × h240mm, outer jacket : od Φ105 / thick 4mm.		249,100
SL.Re2253	**DN 100** Vessel, - **500~750 / 100**㎖, Φ130 × bh80, h140mm, GL 18 inner vessel : od Φ105 / thick 3 × h140mm, outer jacket : od Φ130 / thick 3mm.		280,900
SL.Re2254	- **1,000~1,400 / 100**㎖, Φ130 × bh150, h210mm, GL 18 inner vessel : od Φ105 / thick 3 × h210mm, outer jacket : od Φ130 / thick 3mm.		299,000
SL.Re2255	**DN 120** Vessel, - **2,000~2,600 / 200**㎖, Φ160 × bh190, h250mm, GL 18 inner vessel : od Φ130 / thick 4 × h250mm, outer jacket : od Φ160 / thick 4.5mm.		396,200
SL.Re2256	- **3,000~3,600 / 500**㎖, Φ160 × bh280, h340mm, GL 25 inner vessel : od Φ130 / thick 4 × h250mm, outer jacket : od Φ160 / thick 4.5mm.		528,600
SL.Re2257	**DN 150** Vessel, - **5,000~6,100 / 500**㎖, Φ215 × bh360, h430mm, GL 25 inner vessel : od Φ160/ thick 4.5 × h430mm, outer jacket : od Φ215 / thick 5.5mm.		755,800
SL.Re2259	**DN 200** Vessel, - **10,000~11,800 / 1,000**㎖, Φ270 × bh290, h360mm, GL 32 inner vessel : od Φ215/ thick 5.5 × h360mm, outer jacket : od Φ270 / thick 5mm.		1,355,500
SL.Re2262	- **20,000~22,000 / 2,000**㎖, Φ270 × bh590, h670mm, GL 32 inner vessel : od Φ215 / thick 5 × h670mm, outer jacket : od Φ270 / thick 5mm.		2,809,700



(1) Straight-type



(2) Bent-type

⊙ **GL 14~32 : PTFE Connect-Set**

Spare DURAN® GL-14/18/25/32 PTFE Screw Hose Connector Set. −50 +250℃

∗ Advantage of the Safety PTFE Connect Set

① NO-Broken, ② Easy Exchangeable, ③ Anti-Chemicals & Temp. -50 +250℃.

∗ Complete Set with PBT Screw cap, PTFE / Silicone Sealing Ring, and PTFE Connecter.

(1) Straight-type

		Ea.	Price, ₩	Pk.	Price, ₩
SM.28623000	Connect, PTFE, Strai, GL 14, Tube od 8 × id 5.0 mm	7,590		10ea	75,870
SM.28623020	, GL 18, Tube od 11 × id 7.5 mm	8,810		10ea	88,090
SL.Con4011	, GL 25, Tube od 15 × id 11 mm ***New***	22,200			
SL.Con4012	, GL 32, Tube od 19 × id 15 mm ***New***	26,300			

(2) Bent-type

		Ea.	Price, ₩	Pk.	Price, ₩
SM.28623060	Connect, PTFE, Bent, GL 14, Tube od 8 × id 5.0 mm	10,440		10ea	104,310
SM.28623080	, GL 18, Tube od 11 × id 7.5 mm	12,420		10ea	124,150

Articles	Cat. No	Description

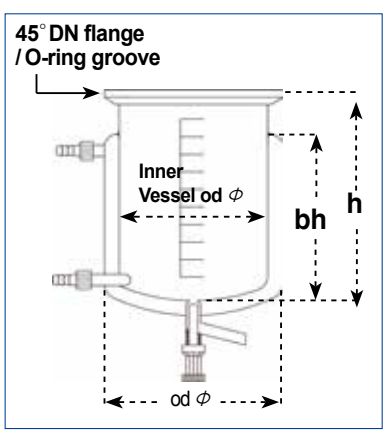
0.25 ~ 100 Lit Drain valved·Jacketed·Graduated Vacuum / Pressure Vessel, with 45° DN-flange/O-ring Groove

with Perfect Compatibility, DURAN-glass, PTFE-valved/-GL connect, 0.5 ~ 2.5 bar, **자켓 밸브형 눈금부 진공 / 압력 베셀**



※ The Figure : up to 20Lit

PTFE Valved / Graduated Jacket Vessel
with GL 14 ~ 32 PTFE Hose Connection &





※ The Figure : 30~100Lit Vessel Only



① Heated Fluide In-Out Flat Flange
(od Φ35×id Φ18mm) & Metal Clamp

- ***Made of DURAN® Blank Vessels(Vacuum / Pressure) / DN-flange or Heavy-wall Tubing : by SciLab Korea.***
- ***DURAN® Borosilicate Glass α 3.3(Boro 3.3) : Chemical & Heat-Stability / Resistance. Chemical-Resistant : (1) Class-A2 & S1 to Alkali & Acid and, (2) HGB-1 Hydrolytic Class. Heat-Stability : (1) 560℃ -Annealing point, (2) 825℃ -Softening point, (3) 1260℃ -Melt Working point, and (4) 525℃-Transformation Temp.***
- ***Ideal for Pressure & Vacuum-use : due to the Wall-Thickness and Geometry 45° DN Flange / O-Ring Sealing with DURAN® 3-segment Stainless steel Quick-Release-Clamp. Also Suitable for General Purpose***
- ***45° DN-Standard Flanges : Perfect Compatibility with Lids & Flasks***
  - ① ***DN 60*** *Flange : id Φ60 × od Φ100mm*
  - ② ***DN 100*** *Flange : id Φ100 × od Φ138mm*
  - ③ ***DN 120*** *Flange : id Φ120 × od Φ158mm*
  - ④ ***DN 150*** *Flange : id Φ150 × od Φ184mm*
  - ⑤ ***DN 200*** *Flange : id Φ200 × od Φ242mm*

* The PTFE Drain Valve : Resist up to 280℃, Anti-Chemical, and Dead Space-Free !
* The "h" Vessel Height Approximately, and Cylindrical-form Vessels.
* **with The Safety GL-18 or 25 or 32 PTFE Hose Connector Set : NO-Broken, Exchangeable, up to-250℃, Anti-Chemicals.**

		Ea.	Price, ₩
SL.Re2271	**DN 60** Vessel, - **250~310 / 50**㎖, Φ105×bh100, h150mm, GL 14 inner vessel : od Φ65 / thick 3.5×h150mm, outer jacket : od Φ105 / thick 4mm.		353,600
SL.Re2272	- **500~620 / 100**㎖, Φ105×bh190, h240mm, GL 18 inner vessel : od Φ65 / thick 3.5×h240mm, outer jacket : od Φ105 / thick 4mm.		374,800
SL.Re2273	**DN 100** Vessel, - **500~750 / 100**㎖, outer Φ130×bh80, h140mm, GL 18 inner vessel : od Φ105 / thick 3×h140mm, outer jacket : od Φ130 / thick 3mm.		406,700
SL.Re2274	- **1,000~1,400 / 100**㎖, Φ130×bh150, h210mm, GL 18 inner vessel : od Φ105 / thick 3×h210mm, outer jacket : od Φ130 / thick 3mm.		424,900
SL.Re2275	**DN 120** Vessel, - **2,000~2,600 / 200**㎖, Φ160×bh190, h250mm, GL 18 inner vessel : od Φ130 / thick 4×h250mm, outer jacket : od Φ160 / thick 4.5mm.		531,000
SL.Re2276	- **3,000~3,600 / 500**㎖, Φ160×bh280, h340mm, GL 25 inner vessel : od Φ130 / thick 4×h250mm, outer jacket : od Φ160 / thick 4.5mm.		682,900
SL.Re2277	**DN 150** Vessel, - **5,000~6,100 / 500**㎖, Φ215×bh360, h430mm, GL 25 inner vessel : od Φ160 / thick 4.5×h340mm, outer jacket : od Φ215 / thick 5.5mm.		888,200
SL.Re2279	**DN 200** Vessel, - **10,000 / 1,000**㎖, Φ270×bh315, h435mm, GL 32 inner vessel : od Φ230/ thick 6.0×h435mm, outer jacket : od Φ270 / thick 6.0mm.		1,747,300
SL.Re2282	- **20,000 / 1,000**㎖, Φ365×bh380, h515mm, GL 32 inner vessel : od Φ330/ thick 6.0×h515mm, outer jacket : od Φ365 / thick 6.0mm.		3,878,500
SL.Re2283	- **30,000 / 1,000**㎖, Φ365×bh510, h645mm, Flat Flange w/Clamp inner vessel : od Φ330 / thick 6.0×h645mm, outer jacket : od Φ365 / thick 6.0mm.		5,345,600
SL.Re2284	- **50,000 / 2,000**㎖, Φ415×bh550, h745mm, Flat Flange w/Clamp inner vessel : od Φ365 / thick 6.0×h745mm, outer jacket : od Φ415 / thick 6.0mm.		8,352,100
SL.Re2285	- **80,000 / 2,000**㎖, Φ460×bh615, h800mm, Flat Flange w/Clamp inner vessel : od Φ415 / thick 6.0×h800mm, outer jacket : od Φ460 / thick 6.0mm.		14,397,200
SL.Re2286	- **100,000 / 2,000**㎖, Φ500×bh735, h900mm, Flat Flange w/Clamp inner vessel : od Φ460 / thick 6.0×h900mm, outer jacket : od Φ500 / thick 6.0mm.		17,626,500

※ 30~100Lit : Flat Flange Connection System for Heating Transfer Fluid and Drain Valve.

SciLab-brand® Assembly Reactor Frame of Φ27.2mm Stainless-steel pipe, for Heavier-Work, 0.25~100Lit. NEW

with or without Caster, Bench-top and Floor-top Models, **조립식 중량 / 반응조 설치용 만능프레임, 높이 / 간격 조절식**



↑ Frame Installation Figure with Reactor System

- ***Supplied by SciLab Korea***
- ***Consist of Φ27.2mm Stainless-steel Pipe, Aluminum-Connector & - Setting Board with Cushion Insert, and with or without Caster.***
- ***80 / 100Lit : od Φ27.2×thick 2.0mm STS***
- ***Optional Accessories : Holders for DN flange of Vessels***

(1) Bench-top Frame with Foot, Stainless pipe Φ27.2×thick 1.5mm

※ 운임 약 ₩ 50,000 별도!

		Ea. Price, ₩
SL.ReF7011	Reactor Frame Φ27.2 STS Pipe, for 0.5~5Lit., DN 60~120-flange Size : 400×400×Height 750mm	1,103,600
SL.ReF7012	Reactor Frame Φ27.2 STS Pipe, for 2~10Lit., DN 120~200-flange Size : 450×450×Height 800mm	1,118,100

(2) Floor-top Frame with Casters, Stainless pipe Φ27.2×thick 1.5/2.0mm

※ 운임 약 ₩ 100,000 별도!

		Ea. Price, ₩
SL.ReF7015	Reactor Frame Φ27.2 STS Pipe, for 5~10Lit., DN 120~200-flange Size : 450×450×Height 1300mm	1,203,800
SL.ReF7016	Reactor Frame Φ27.2 STS Pipe, for 10~20Lit., DN 150&200-flange Size : 500×500×Height 1500mm	1,281,700
SL.ReF7017	Reactor Frame Φ27.2 STS Pipe, for 30Lit., DN 200-flange Size : 550×550×Height 1700mm	1,525,600
SL.ReF7018	Reactor Frame Φ27.2 STS Pipe, for 50Lit., DN 200-flange Size : 600×600×Height 1800mm	1,700,800
SL.ReF7019	Reactor Frame Φ27.2 STS Pipe, for 80&100Lit., DN 200-flange Size : 670×670×Height 2000mm	2,049,500

(3) Optional DN-flange Holders, Adjustable.

		Ea. Price, ₩
SL.ReF7021	DN-flange Holder, for -DN 60 Vessels	52,130
SL.ReF7022	, for -DN 100 Vessels	54,070
SL.ReF7023	, for -DN 120 Vessels	56,950
SL.ReF7024	, for -DN 150 Vessels	67,310
SL.ReF7025	, for -DN 200 Vessels	79,260



(4) Spare PTFE Cushion Ring

		Ea. Price, ₩
SL.ReF7035	PTFE Cushion Ring, od Φ170×id Φ120×Thick 15mm, for Set-board 450×450mm	50,820
SL.ReF7036	, od Φ230×id Φ180×Thick 15mm, 500×500mm	91,960
SL.ReF7037	, od Φ340×id Φ275×Thick 15mm, 550×550mm	183,920
SL.ReF7038	, od Φ360×id Φ290×Thick 15mm, 600×600mm	203,040
SL.ReF7039	, od Φ420×id Φ340×Thick 15mm, 670×670mm	290,400



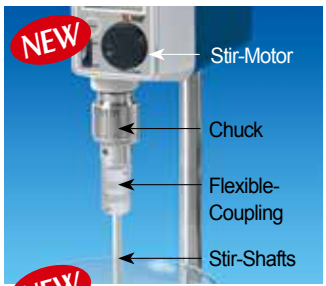
(5) Spare Setting Boards, Aluminium

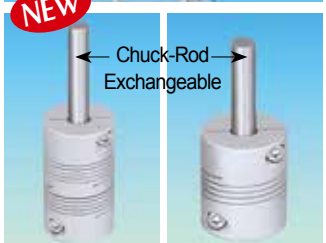
		Ea. Price, ₩
SL.ReF7040	Setting Board, Center Hole - Φ125, 450×450×Thick 10mm, for 2~10 Lit.	314,600
SL.ReF7041	- Φ185, 500×500×Thick 10mm, 10~20 Lit.	338,800
SL.ReF7042	- Φ280, 550×550×Thick 15mm, 30 Lit.	474,320
SL.ReF7043	- Φ295, 600×600×Thick 20mm, 50 Lit.	624,360
SL.ReF7044	- Φ345, 670×670×Thick 30mm, 80~100 Lit.	871,200

(6) Spare Φ27.2mm Tube Connectors for the Reactor Frames



Articles	Cat. No	Description





(1) Hi-flex Metal for Φ6~16 Shafts | (2) Heavy-duty Metal for Φ10~16 Shafts

Flexible Couplings, for Safety Stirring of Φ6~16mm Shafts of Overhead Stirrers NEW

for Stirrers between Stirring Motor and Shaft, **안전교반용 유연성 카푸링, 교반축의 불균형등을 완전 보정**

■ ***Used to Compensate Any Vibrations Between The Motor and Stirring Shafts*** ∗ Made of DURALUMIN
∗ Made in Korea ∗ Shaft Fastening by Screw Clamp Band ∗ with Exchangeable STS Chucking Rod Φ8 / 10 / 12mm, L40mm

(1) UTILITY High-Flex. Metal Coupling, with 2 × Flex-band, for Φ6~16mm Stir-Shafts
Ideal for Low/High Viscosity and High/Low Speed

		Ea. Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g , Φ25×h44mm	60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g , Φ25×h44mm	60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g , Φ25×h44mm	60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g , Φ25×h44mm	60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g , Φ25×h44mm	60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g , Φ25×h44mm	60,500
SL.StiC017	Stir-Coupling, Hi-flex, Φ12mm Chuck-rod, for-Φ10mm Stir-Shaft, 33g , Φ25×h44mm	60,500
SL.StiC018	-Φ12mm Stir-Shaft, 123g, Φ32×h60mm	72,600
SL.StiC019	-Φ14mm Stir-Shaft, 120g, Φ32×h60mm	72,600
SL.StiC020	-Φ16mm Stir-Shaft, 118g, Φ32×h60mm	72,600

(2) Heavy-duty Metal Coupling, with Short Flex-band, for Φ10~16mm Stir-Shafts
Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

		Ea. Price, ₩
SL.StiC023	Stir-Coupling, Low-flex, Φ10mm Chuck rod, for-Φ10mm Stir-Shafts., 45g , Φ25×h30	30,500
SL.StiC024	-Φ12mm Stir-Shafts., , Φ25×h30	30,500
SL.StiC025	Stir-Coupling, Low-flex, Φ12mm Chuck rod, for-Φ12mm Stir-Shafts., 105g, Φ32×h38	40,660
SL.StiC026	-Φ14mm Stir-Shafts., , Φ32×h38	40,660
SL.StiC027	-Φ16mm Stir-Shafts., , Φ32×h38	40,660

SciLab-brand® PTFE Stirrer-Guide/Seals, for Φ8~Φ14mm Shafts, with ⅋24/-, ⅋29/-, and ⅋34/-Joints NEW

with 2 Bearings / Screw-Retainer / Viton O-ring, All PTFE, −180~+260℃ Stable, PTFE **스타라 씰**



■ ***Made in Korea*** ■ ***Common-use : to ASTM & DIN-type Socket Joints***

(1) for Φ8mm Stir-Shafts

		Ea. Price,₩
SL.Ada405	for Φ8mm Rod, ⅋24/40	41,140
SL.Ada406	, ⅋29/42	45,260
SL.Ada407	, ⅋34/45	51,430

(2) for Φ10mm Stir-Shafts

		Ea. Price,₩
SL.Ada409	for Φ10mm Rod, ⅋24/40	41,140
SL.Ada410	, ⅋29/42	45,260
SL.Ada411	, ⅋34/45	51,430

(3) for Φ12 & 14mm Stir-Shafts

		Ea. Price, ₩
SL.Ada413	PTFE Stir-Guide, for Φ12mm Rod, ⅋34/45	56,630
SL.Ada415	, for Φ14mm Rod, ⅋34/45	58,810

Multiuse Glass Screw-adapter Set, for Vacu-Stirrer Guide or Thermometer/Tubing Holder, for Φ6~14mm-Grip NEW

with DURAN® PBT GL-Opentop Screwcap/PTFE-Silicone O-Ring Seal/⅋Joint, Anti-Chemical, 200℃-stable, **다용도 스크류 어댑터 셋트**



(1) Vacuum Stirrer Guide
(2) Thermometer/Tubing Holder

■ ***Made of DURAN® Borosilicate Glass 3.3 & Seal Kit (GL-Opentop cap / O-Ring Seal : by SciLab Korea).***

(1) For Vacuum Stirrer Guide, for Φ8~14mm Stir-Shafts, with DURAN® GL 25 & 32 Seal Kit & ⅋Joint

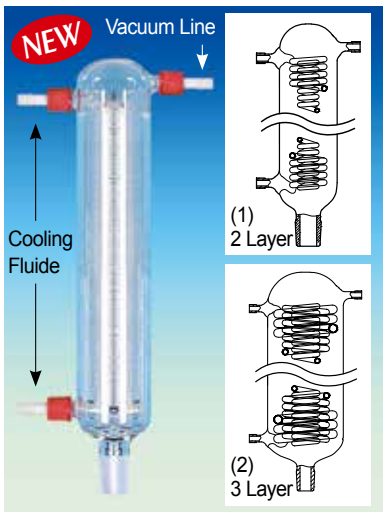
① with ASTM ⅋ 24/40 ~ 45/50 Joints		Ea. Price,₩
SL.StiS241	for Φ8 mm Rod , GL25, 24/40	21,600
SL.StiS242	, 29/42	26,140
SL.StiS243	, 34/45	29,400
SL.StiS245	for Φ10mm Rod, GL25, 24/40	30,690
SL.StiS246	, 29/42	30,710
SL.StiS247	, GL32, 34/45	40,060
SL.StiS251	for Φ12mm Rod, GL32, 34/45	41,140
SL.StiS252	, 45/50	50,460
SL.StiS253	for Φ14mm Rod, GL32, 34/45	41,870
SL.StiS254	, 45/50	51,310

② with DIN ⅋ 24/29 ~ 45/40 Joints		Ea. Price,₩
SL.StiS241D	for Φ8 mm Rod , GL25, 24/29	21,600
SL.StiS242D	, 29/32	26,140
SL.StiS243D	, 34/35	29,400
SL.StiS245D	for Φ10mm Rod, GL25, 24/29	30,690
SL.StiS246D	, 29/32	30,710
SL.StiS247D	, GL32, 34/35	40,060
SL.StiS251D	for Φ12mm Rod, GL32, 34/35	41,140
SL.StiS252D	, 45/40	50,460
SL.StiS253D	for Φ14mm Rod, GL32, 34/35	41,870
SL.StiS254D	, 45/40	51,310

(2) For Thermometer/Tube/Rod Holder, for Φ6~8mm Grip, with DURAN® GL14 & 18 Seal Kit & ⅋Joint

① with ASTM & 14/23 Joints		Ea. Price,₩
SL.Ada2011	for Φ6mm grip, GL14, 14/23	18,150
SL.Ada2012	, 19/38	18,150
SL.Ada2013	, 24/40	19,360
SL.Ada2014	for Φ8mm grip, GL18, 24/40	20,570

② with DIN ⅋ Joints		Ea. Price,₩
SL.Ada2011	for Φ6mm grip, GL14, 14/23	18,150
SL.Ada2016	, 19/26	18,150
SL.Ada2017	, 29/32	20,700
SL.Ada2018	for Φ8mm grip, GL18, 29/32	21,780



Big Volume Reflux Condensers, Boro-glass 3.3, Ideal for Reactors 5~100 Lit. NEW with Safety "Screw-On" PP Connection, 대용량 반응조용 냉각기

■ ***Made of Borosilicate Glass 3.3 : Supplied by SciLab Korea***
■ ***GL Screw Connection for Safety Working.***
; Safety Hose Connections-Type, with 3×"Screw-On" Plastic Hose Connections GL18 / 25 PP-Kit Supplied with Detachable "Screw-On" Plastic Hose Connections GL18 / 25 PP-Kit for Easy and Safe Attachment of Rubber Hose for Cooling Fluide & Vacuum Line.

(1) 2-Layer Coil Condenser for 5~50 Lit.

		Ea.	Price,₩
SL.Con2111	Reactor Condenser, GL18, for 5~10Lit. od 50mm×h435mm, ⅀24/29		308,630
SL.Con2112	, for 10~20Lit. od 100mm×h455mm, ⅀24/29		467,750
SL.Con2113	, GL25, for 20~50Lit. od 100mm×h595mm, ⅀34/35		637,070

(2) 3-Layer Coil Condenser for 80~100 Lit.

		Ea.	Price,₩
SL.Con2115	Reactor Condenser, GL25, for 80~100Lit. od 165mm×h645mm, ⅀34/35		1,450,810



SciLab® Stainless-steel Condenser / Column Holding Clamp, 냉각기용 클램프 NEW

■ ***Made in Korea***
∗ Ideal for Various Big Volumed Condenser / Column
∗ Easy Adjust with Adjusting Screw Nut ∗ Stem od13mm

		Ea.	Price,₩
SL.Cla7201	Clamp, STS, Band-type, Grip Capa. Φ50~75mm, Overall 350mm		7,260
SL.Cla7202	Φ85~115mm, Overall 400mm		7,810
SL.Cla7203	Φ150~178mm, Overall 450mm		8,350

Cowie® K-type PTFE Encapsulated Stainless-steel Thermocouple Probes, Can be Bent, −180℃+280℃ NEW with Miniplug & PFA Insulated 1&2m Cable, Probe Body L100~900mm, PTFE 내약품/내부식/청결형 온도 프로브



■ ***Made in UK.*** ■ ***Ideal for Reactor : Especially Long Body Probes***
∗ Outstanding Chemical Resistance, No-Contamination of Working Media, and Pressure Resistant
∗ Fully Pure PTFE Encapsulated Stainless-steel Core Probe for Rigidity, But can be Bent
∗ with Push-On Ferrule ∗ Response : 50% in 6~14 seconds, -180℃+280℃

(1) With L100~L700mm Probe-body and 1m Cable

		Ea.	Price,₩
CW.600.101.1	PTFE Capsulated K-probe, Body-Φ6×ℓ100, Ferrule-ℓ35mm, Total -L135mm		66,340
CW.600.201.1	-Φ7×ℓ200, -ℓ40mm, -L240mm		71,990
CW.600.301.1	-Φ8×ℓ300, -ℓ40mm, -L340mm		77,990
CW.600.401.1	-Φ8×ℓ400, -ℓ50mm, -L450mm		83,160
CW.600.501.1	-Φ9×ℓ500, -ℓ60mm, -L560mm		95,060
CW.600.601.1	-Φ9×ℓ600, -ℓ60mm, -L660mm		104,370
CW.600.701.1	-Φ9×ℓ700, -ℓ45mm, -L745mm		120,840

(2) With L500~L900mm Probe-body and 2m Cable

		Ea.	Price,₩
CW.600.501.1.2	PTFE Capsulated K-probe, body-Φ9×ℓ500, Ferrule-ℓ60, Total-L560mm		105,400
CW.600.601.1.2	-Φ9×ℓ600, -ℓ60, -L660mm		114,710
CW.600.701.1.2	-Φ9×ℓ700, -ℓ45, -L745mm		131,170
CW.600.901.1.2	-Φ9×ℓ900, -ℓ45, -L945mm		140,490

Necessary Products & Accessories for Reactor System

■ Heating Mantles, for Single-Wall Flasks/Vessels ; ▶ See the "HEATING MANTLE"-Section!
■ High Temp External Circulators, for Double-Wall Vessels ; ▶ See the "HEATING CIRCULATOR"-Section!
■ Stirring Motors and - Shafts/Impellers, for Agitation ; ▶ See the "STIRRERS & the Access"-Section!

SciLab Korea

Refrigerators & ULT Freezers

0~10℃ Refrigerators, Blood Bank and Pharmaceutical ····· P. 169
, Laboratory / Cold Lab Chamber ····· P. 170
−35℃ Lab Freezers, Laboratory ····· P. 171
−86℃ ULT Freezer, Upright-type (SMART-type) ····· P. 174~175
, Personal-type (General & SMART-type) P. 178~179
−95℃ ULT Freezer, Upright-type (SMART-type) ····· P. 176~177

NEW



Lab Refrigerators
"ThermoStable™ LR-1000"



ULT Freezer
"DuoFreez™ U300"



Lab Freezer
"ThermoStable™ WLF-420"



ULT Freezer
"UniFreez™ U80"



Controlled by Smart-Phone

"ThermoStable™ BR/PR" Blood Bank-and Pharmaceutical-Refrigerators, GMP Certi, Medical Device, 0℃~10℃ NEW
with PID Controller, Chart Recorder, Door Lock System, Drawer or Wire-Shelves, 620- & 1140- Lit, **혈액보관/시약약품 보관용 냉장고**



(1) 620 Lit. Blood Bank Refrigerator "BR-600"



(2) 1140Lit. Pharmaceutical Refrigerator "PR-1000"

- ***Made in Korea***
- ***GMP Certified***
- ***PL (Product Liability) Insurance***
- ***Medical Device***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Superior Temperature Uniformity and Quick Recovery by Forced Air Refrigeration System***
- ***CFC-Free Refrigeration System***
- ***Automatic Defrost System***

* Intelligent Control of Refrigerator for Preventing Overload of Compressor
* Double Fold Tempered Glass Window
* Built in Battery for Power Failure Alarm
* Alarm Set Points of Temperature Deviation at +5.5 and -1.5 Under Temperature
* Automatic Condensate Removal, No Drain Line Required
* Available Built in Chart Recorder and Remote Alarm System(Optional)

Specifications & Ordering information

Spec. \ Model		(1) Blood Bank Refrigerator		(2) Pharmaceutical Refrigerator	
		"BR-600"	**"BR-1000"**	**"PR-600"**	**"PR-1000"**
Capacity		620 Lit.	1,140Lit.	620 Lit.	1,140Lit.
Temp. Range		0℃~+10.0℃, at Room Temperature of 30℃ and Humidity of 70%			
Temp. Resolution and Sensor		1℃-Display, 1℃-Control, PT100 Sensor			
Refrigerant		CFC-Free(R-134A) Refrigeration System			
Compressor		1/3 HP			
Evaporator		Auto Exchange Dual Evaporator			
Air Circulation		Dual Turbo Fan Forced-air Type			
Defrost		Automatic Defrost System			
Controller & Display		Digital PIDcontroller, LCD Display			
Door		Outer Door with Glass Window with Safety Door Lock System			
Shelves		6×Drawer-type Shelves	12×Drawer-type Shelves	5×Wire Shelves	10×Wire helves
Recorder		Included Chart Recorder			
Others		with Door Lock Device, Over Current- & Temp, Over Current Protection, Sensor Error Detection			
Material		Internal : Stainless-steel, External : Powder Coated-steel			
Dimension (w×d×h)	**Internal(mm)**	620×700×1,430	1,140×700×1,430	620×700×1,430	1,140×700×1,430
	External(mm)	740×805×1,930	1,260×805×1,930	740×805×1,930	1,260×805×1,930
Net Weight		134 kg	208 kg	134 kg	208 kg
Power Consumption		650 W	750 W	650 W	750 W
Electrical Reqts.		1 Phase, AC120V, 60Hz or AC230V, 50/60Hz			
Cat. No.	**230V**	**DH.RefB0600**	**DH.RefB1000**	**DH.RefP0600**	**DH.RefP1000**
	120V	**DH.RefB0601**	**DH.RefB1001**	**DH.RefP0601**	**DH.RefP1001**
Price, Each. ₩		6,941,000	8,356,000	6,248,000	7,057,000

* **Other Specifications are available upon Customer's Request.**

※ **운임 약 ₩ 95,000 별도!**

Spare Perforated Drawer Shelves or Teflon-coated Steel Wire Shelves

		Ea. Price, ₩
DH.RefA0007	(a) Perforated Drawer Shelf, Stainless-steel, w570×d570 mm, for **"BR-600"**	239,600
DH.RefA0008	(a) Perforated Drawer Shelf, Stainless-steel, w470×d570 mm, for **"BR-1000"**	215,700
DH.RefA0003	(b) Wire Shelf, Teflon-coated Steel, w600×d624 mm, for **"PR-600"**	66,000
DH.RefA0004	(b) Wire Shelf, Teflon-coated Steel, w560×d624 mm, for **"PR-1000"**	66,000



(a) Included Perforated Drawer Shelf



(b) Teflon-coated Steel Wire Shelves

"ThermoStable™ LR" Smart Laboratory Refrigerators, 0℃~10℃, 620- & 1140- Lit NEW

with Smart-Lab™ System, Stainless-steel Wire Shelves, CFC-Free, Automatic Defrost System, Door Lock Sys, **실험실용 다용도 냉장고**



(1) 620 Lit. Laboratory Refrigerator "LR-600"



(2) 1140Lit. Laboratory Refrigerator "LR-1000"

- ***Made in Korea*** — ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Superior Temperature Uniformity and Quick Recovery by Forced Air Refrigeration System***
- ***CFC-Free Refrigeration System*** — ***Automatic Defrost System***
- ***Smart-Lab™ Controller***
  - Ergonomic 7″ Full Touch Screen TFT LCD(Smart-Lab™ Controller)
  - WiRe™ App Service. — Internet Connectivity with WiFi
  - Self-Diagnostic Function — Automatic Data Recording
  - Push Alarm Service to Smart Phone : Power- / Temperature- / Door Open-Error Status
  - Built in USB port for Data Download and Program Upgrade
  - Password Protected Setting — Interactive Temperature Graph
  - Digital Calibration(Offset Function) — Min-/Max-Temperature

∗ Intelligent Control of Refrigerator for Preventing Overload of Compressor
∗ Double Fold Tempered Glass Window — ∗ Built in Battery for Power Failure Alarm
∗ Alarm Set Points of Temperature Deviation at +5.5 and -1.5 Under Temperature
∗ Automatic Condensate Removal, No Drain Line Required
∗ Available Built in Chart Recorder and Remote Alarm System(Optional)

Specifications & Ordering information

Spec. \ Model		SMART Laboratory Refrigerator	
		"LR-600"	**"LR-1000"**
Capacity & Doors		620 Lit., 1-Door	1,140Lit., 2-Doors
Temp. Range		0℃~+10.0℃ (PT100 Sensor)at R/T of 30℃ and Humidity of 70%	
Temp. Resolution		1℃-Display, 1℃-Control	
Refrigerant		CFC-Free(R-134A) Refrigeration System	
Compressor & Evaporator		1/3 HP, Auto Exchange Dual Evaporator	
Air Circulation		Dual Turbo Fan Forced-air Type	
Defrost & Circulation		Automatic Defrost System, Dual Turbo Fan	
Controller & Display		Smart-Lab Controller, 7″ Full Touch Screen TFT LCD, WiReTM App Service	
Door		Outer Door with Glass Window	
Shelves		5×Teflon-coated Steel Wire Shelves	10×Teflon-coated Steel Wire Shelves
Others		with Door Lock Device, Over Current- & Temp, Over Current Protection, Sensor Error Detection	
Material		Internal : Stainless-steel, External : Powder Coated-steel	
Dimension (w×d×h)	**Internal(mm)**	620×700×1,430	1,140×700×1,430
	External(mm)	740×805×1,930	1,260×805×1,930
Net Weight		134 kg	208 kg
Power Consumption		650 W	750 W
Electrical Reqts.		1 Phase, AC120V, 60Hz or AC230V, 50/60Hz	
Cat. No.	**230V**	**DH.RefL0600**	**DH.RefL1000**
	120V	**DH.RefL0601**	**DH.RefL1001**
Price, Each. ₩		4,363,000	5,842,000

∗ Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 95,000 별도!

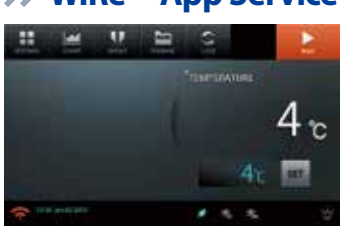
Spare Teflon-coated Steel Wire Shelves

		Ea. Price, ₩
DH.RefA0003	(a) Wire Shelf, Teflon-coated Steel, w600×d624 mm, for **"LR-600"**	66,000
DH.RefA0004	(a) , w560×d624 mm, for **"LR-1000"**	66,000



(a) Teflon-coated Steel Wire Shelves

WiRe™ App Service



7″ Full Touch Screen TFT LCD (Smart-Lab™ Controller)

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.



WiRe™ App Service

Controlled by Smart-Phone

"ThermoStable™ WLF" Digital Laboratory Freezer, −35℃~+10℃, 320 Lit, 420Lit, 620 Lit

with 3× Shelves, Digital Fuzzy Control System, Fast Freezing Function, CFC-Free Refrigeration, Certi. & Traceability

디지털 저온 냉동고, 디지털 퍼지 컨트롤, 친환경 냉매(134A) 채용, 급속 냉동 기능



Digital Laboratory Freezer "ThermoStable™ WLF-320", "ThermoStable™ WLF-420", "ThermoStable™ WL620"



with Inner Doors "ThermoStable™ WLF"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Fuzzy Control System Implementing Superior Temperature Accuracy***
- ***Fast Freezing Function***
- ***Patented Jog-Shuttle Control System***
- ***CFC-Free (134A) Refrigeration System***

* Suitable for Storage of Bio Reagent, Seed, Enzyme and Various Samples
* Digital Fuzzy Control System Implementing Superior Temperature Accuracy
* Storage Function : Set Values of Temperature and Timer
* Digital LCD with Back-Light Function
* Locking Mode supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Intelligent Control of Refrigerator for Preventing Overload of Compressor
* Corrosion Resistant 304 Stainless-steel Chamber and Shelves
* Over Current Protection, Sensor Error Detection, Leakage Breaking

Specifications & Ordering information

Spec. \ Model		"WLF-320"	"WLF-420"	"WLF-620"
Capacity		330 Lit.	420 Lit.	624 Lit.
Type		Upright Type		
Temp. Range & Sensor		-35℃~+10℃, PT100		
Temp. Resolution		1℃-Display, 1℃-Control		
Refrigerant & Compressor		CFC-Free(134A) Refrigeration System, 3/4HP	CFC-Free(134A) Refrigeration System, 1HP	
Display		Digital LCD with Back-Light Function		
Controller		Digital Controller with Jog-Shuttle Switch (Turn+Push)		
Included Shelf & Load per Shelf		3ea Stainless steel Shelves(#304)		
Safety Device		Over Current Protector, Sensor Error Detector, Leakage Breaker		
Material		Stainless-steel (#304)-Internal, Powder Coated steel-External		
Dimension : Interior & Exterior		600×550×h1,000mm, 820×700×h1,700mm	600×700×h1,000mm, 820×850×h1,700mm	780×800×h1,000mm, 1000×950×h1,700mm
Packing Size & Gross Weight		1,160×910×h2,160mm 290 kg	1,160×1,060×h2,160mm 314 kg	1,340×1,160×h2,160mm 350 kg
Power Consumption		1.7 kW	1.8 kW	1.8 kW
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Cat. No.	230V	DH.WLF00320	DH.WLF00420	DH.WLF00620
	120V	DH.WLF01320	DH.WLF01420	DH.WLF01620
Price, Each. ₩		6,073,000	6,573,000	7,861,000

* Other Specifications are available upon Customer's Request.

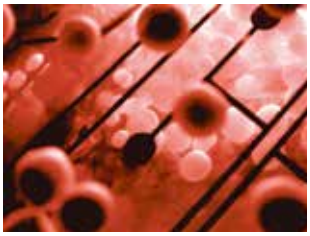
※ 운임 약 ₩ 55,000 별도!

Spare Stainless-steel Flat Shelf

		Ea. Price, ₩
DH.WLF10320	Flat Shelf, w580×d530mm, **"LFS320"**, for **"WLF-320"**	103,000
DH.WLF10420	, w580×d680mm, **"LFS420"**, for **"WLF-420"**	105,000
DH.WLF10620	, w760×d780mm, **"LFS620"**, for **"WLF-620"**	126,000

Innovative Technology to Improve the Quality of Laboratory

Simple, Effifiecient and Green - UniFreez™
Doubled Security and Power - DuoFreez™



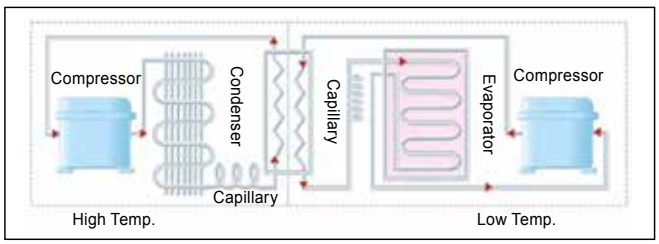
Innovation of Freezing System
SciLab UniFreez™ System (Simplified Hi-Efficiency Freezing System)

Most of the Ultra-Low Temperature Freezers has two compressors cooperating with each other to drop the internal temperature down to -86℃ as shown in the following figure and its overall freezing mechanism is very complicated.

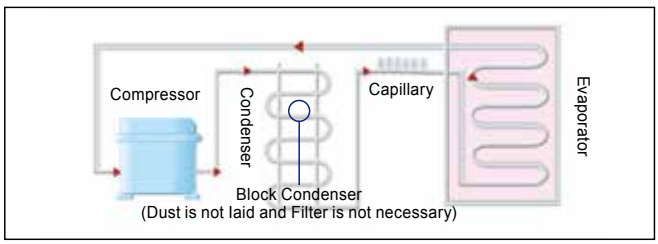
However, our new **UniFreez™** uses only single compressor. Even though, single set of a compressor, a capillary tube, a condenser and an evaporator is incorporated, it ensures the temperature down to -86℃ by an advanced control technology of the compressor and the process of specially mixed refrigerants. **UniFreez™** overcomes technical complexity of the typical cascaded double compressor system. Simplification of the freezing mechanism and electricity minimizes the noise, power consumption and failure of operation.

High-Efficiency ! User Safety ! Energy Saving ! Long Life time !

Simplified Hi-Efficiency Freezing System Mechanism : Easy Maintenance



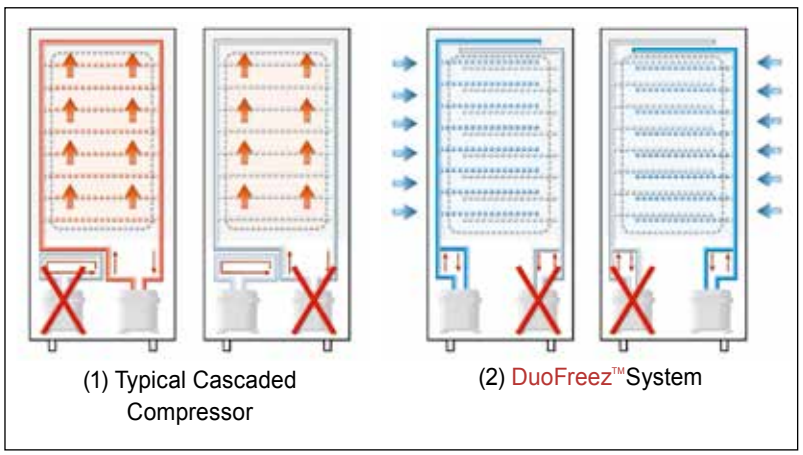
Typical Cascaded Compressor System
Two Freezing cycles contribute Complicated mechanism



New **UniFreez™ System**
Single freezing cycle works only!!

Doubled Security and Robustness! DuoFreez™

We offer an extraordinary high-stability system powered by two **UniFreez™ System** operating independently. Normally, both of the two compressors are running, and it drops the temperature inside the storage chamber down to -95°C. Even if one **UniFreez™ System** fails in operation by a certain unexpected problem, the other **UniFreez™ System** still works and maintains ultra-low temperature down to -80°C. It means one **UniFreez™ System** works as a 'backup'of the other **UniFreez™ System** This innovative mechanism realizes doubled stability, robustness and fault tolerance, which are the most important feature of the ULT freezer needed by all the customers.



(1) Typical Cascaded Compressor

(2) DuoFreez™System

- ▶ **The lowest temperature of −95℃ is ensured by DuoFreez™ system running independently and simultaneously**
- ▶ **Fault Tolerance System**
  - Realization of doubled stability and robustness
- ▶ **Incomparable Fast and Powerful Freezing**
  - Fast Recovery of Target Temperature

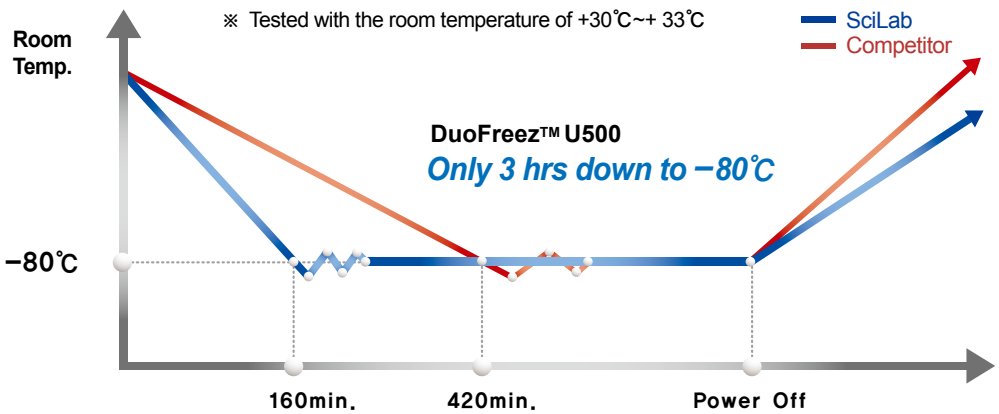
(1) Complicated mechanism
⇒ If one of compressor fails, temperature would go up

(2) Even if one of the two UniFreez™ systems fails to run, the other one is still running properly ⇒ Minimum −80℃

Fastest Freezing by DuoFreez™ System



Comparison Data of Freezing Speed between competing products



Time Taken to Reach Down to Ultra Low Temperature

Spec. \ Model	DuoFreez™				UniFreez™				
	U300	U400	U500	U700	U80	U300	U400	U500	U700
Capacity	308 Lit.	393 Lit.	503 Lit.	714 Lit.	82 Lit.	308 Lit.	393 Lit.	503 Lit.	714 Lit.
Down to -80℃	140 min.	150 min.	160 min.	250 min.	170 min.	270 min.	250 min.	310 min.	430 min.

※ Tested with the room temperature of 30℃ ~ 33℃

Green Technology for ULT Freezer

RoHs certified

- The RoHS is the directive on the restriction of the use of certain hazardous substances (Pb, Cd, Hg, Hex-Cr, PBB, PBDE) commonly used in electronic and electronic Equipment (2011/65/EU). All the models of UniFreez™ and DuoFreez™ product line are RoHS certified.

Natural Refrigerants

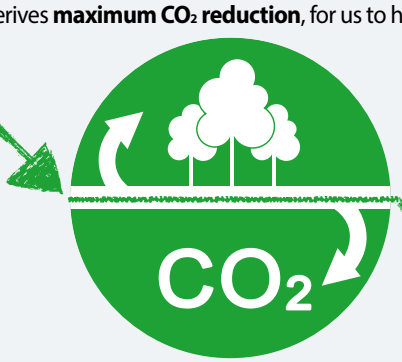
- The commonly used HFC refrigerants like R-134a, R-404A and R-507, which are potent Greenhouse Gases, will be banned by European law soon. UniFreez™ system uses specially mixed refrigerants, which are mostly Natural Refrigerants.

Less Power, Less Money and More Green

- UniFreez™ system, extremely simplified freezing mechanism and electricity realize the **lowest power consumption**, leading to **less cost for electricity**. In the end, it also derives **maximum CO_2 reduction**, for us to have **more trees** and wider green area.

Typical -86℃ Freezer

Power Consumption : 6,570kWh / year
CO_2 Output : 3,212.07 kgCO_2 / year
Electricity Cost : USD 1,051.2



39% Savings

CO_2 Output : 1,249.14 kgCO_2 / year
Trees to Grow : 90 trees
Electricity Cost : USD 408.8

UniFreez™ U500 Freezer

Power Consumption : 4,015kWh / year
CO_2 Output : 1,962.93 kgCO_2 / year
Electricity Cost : USD 642.4

※ Calculated by the electricity-specific emission factors sourced from the IEA (2011a).

"UniFreez™ U" SMART Digital Ultra-Low Temp. Freezer, Upright-type, −86℃~−65℃

with Smart-Lab™ System, Non-Freon Refrigerants, Auto Vacuum Releasing System, 308 -/393-/503-/714-Lit, Wire™ Service

초저온 냉동고, 업라이트형, 단일 냉각 시스템, 터치 스크린 LCD 컨트롤러, 친환경 냉매 채용



SMART Ultra-Low Temperature Freezer, "UniFreez™ U300"

- ***Made in Korea*** ***UL/CUL & CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***UniFreez™ System can freezes down to −86℃ : realize robust and long life time.***
- ***Smart-Lab™ Controller : Controlled by Smart-Phone***
- ***PL (Product Liability) Insurance***

* Ergonomic 7″Full Touch Screen TFT LCD(Smart-Lab™ Controller)
* WiRe™ App Service.
* Storage Management Function
* Self-Diagnostic Function
* Automatic Data Recording
* Internet Connectivity with WiFi
* **"UniFreez™ U" System** can freeze down to −86℃ : realize robust and long life time.
* Automatic Vacuum Breaker - Easy to re-open the Door.
* Robust & Flexible design of Door Handle
* Easy Monitoring and Control - Eye level Controller
* CFC-free Refrigerants are used
* External Temp. Sensor Hole
* Use of Block Condenser removes filter and causes of related failure.
* Filter-free Mechanism lowers heat generated by the compressor
* Easy Maintenance and Improved Performance
* High-quality Insulation Panel and Inner Doors ensure defrosting around outer surface.
* Built in Standard Warning and Alarm Functions

Specifications & Ordering information

Spec. \ Model		"UniFreez U300"	"UniFreez U400"	"UniFreez U500"	"UniFreez U700"
Capacity		308 Lit.	393 Lit.	503 Lit.	714 Lit.
Temp.	Range	−86℃~−65℃			−80℃~−65℃
		at Room Temperature of 30℃ and Humidity of 70%			
	Sensor	PT100 Sensor			
Compressor		Hermetic Type			
Condenser Type		Block Condenser, No Pin, Filter Free Mechanism			
Refrigerant		Natural (CFC Free Refrigerant System)			
Controller & Display		7″ Full Touch Screen TFT LCD (Smart-Lab™ Controller)			
Shelves		Included 3 Stainless-steel Shelves			
Max. Q'ty of Racks		12pcs of 15(3×5)-Placed Rack (RFU3040)	16pcs of 15(3×5)-Placed Rack (RFU3040)	16pcs of 20(4×5)-Placed Rack (RFU50)	24pcs of 20(4×5)-Placed Rack (RFU50)
Material	Internal	Stainless steel (#304)			
	External	Powder Coated steel Plate			
	Inner Door	Powder Coated Stainless-steel (#304)			
Others		UL/CUL & CE Certified, PL(Product Liability) Insurance, GD-mark Touch-Screen TFT LCD Smart-Lab™ Controller CFC-Free Refrigerants Built in Standard Warning and Alarm Functions RS232 Communication Link, Remote Control Software			
Chamber Dimension (w×d×h)	Internal(mm)	470×500×1,310	600×500×1,310	600×640×1,310	880×620×1,310
	External(mm)	710×750×1,900	840×750×1,900	840×890×1,900	1,120×870×1,900
Net Weight		180 kg	210 kg	240 kg	320 kg
Packing Size (w×d×h) (cm) & Gross Weight		110×110×222 275 kg	116×116×222 296 kg	116×124×222 327 kg	140×140×221 442 kg
Power Consumption		352 w/h	373 w/h	458 w/h	503 w/h
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	DH.SWUF00300	DH.SWUF00400	DH.SWUF00500	DH.SWUF00700
	120V	DH.SWUF03300	DH.SWUF03400	DH.SWUF03500	DH.SWUF03700
Price, Each. ₩		7,820,000	8,647,000	9,549,000	11,782,000

* Other Specifications are available upon Customer's Request.

※ 운임 약 ₩ 95,000별도!

>> Smart-Lab™ Controller



7″ Full Touch Screen TFT LCD



WiRe™ App Service

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.

Controlled by Smart-Phone

<Continued On Next Page>

<Continued From... "UniFreez™ U" SMART Digital Ultra-Low Temp. Freezer, Upright-type>

Optional Freezer Racks

		Ea. Price, ₩
DH.RFU3040SD	(1) Rack, Sliding Drawer-type, SUS304, 15 places, **"RFU3040SD"**, 140×430×h290 mm, for **"U300/400"**, without boxes	163,000
DH.RFU50SD	(1) Rack, Sliding Drawer-type, SUS304, 20 places, **"RFU50SD"**, 140×570×h290 mm, for **"U500/700"**, without boxes	167,000
DH.RFU3040SA	(2) Rack, Side Access-type, SUS304, 15 places, **"RFU3040SA"**, 140×430×h290 mm, for **"U300/400"**, without boxes	163,000
DH.RFU50SA	(2) Rack, Side Access-type, SUS304, 20 places, **"RFU50SA"**, 140×570×h290 mm, for **"U500/700"**, without boxes	167,000

Optional Recorder/Remote Alarm System/LCO_2 Back up System

DH.KT622	(3) Temp. Chart Recorder, **"KT622"**, with **"C657"** Chart Paper	1,370,000
DH.C657	(4) Chart Paper, **"C657"**, 60 Charts, for 420 days recording	113,000
DH.P222	(5) Replacement Pens, **"P222"**, 6ea Red color, for **"KT622"** Chart Recorder	97,000
DH.LCO2B	(6) LCO_2 Back up System, **"LCO2B"**	1,106,000
DH.RWAS	(7) Remote Wire/Wireless Alarm System, **"RWAS"**	775,000

Optional Freezer Boxes

(8) for 1.5/2.0ml Microtube/Cryovials, 81-Holes Hard Board Storage Boxes, with Hard Board / PP Divider

		Ea. Price, ₩
C11.001	Hard Board Box, with Hard Board Divider, 81 Hole, 127×127×h52 mm	2,290
C11.002	, with PolyPropylene Divider, 81 Hole, 127×127×h52 mm	2,290

(9) for 0.5~2ml Cryovials/Microtubes, 81&100 hole White Boxes, h52mm, 0.5ml : Screwcap Microtubes

		Ea.	Price,₩	Cs.	Price, ₩
SL.Box9001	81-hole Box, White, h52mm, Cell Φ15mm *New*	2,400		100ea	221,800
SL.Box9002	100-hole Box, White, h52mm, Cell Φ12.5mm *New*	2,400		100ea	221,800

(10) for 3ml Cryovials, 81&100 hole White Boxes, h77mm, Maybe fit to 4ml Cryovials

		Ea.	Price,₩	Cs.	Price, ₩
SL.Box9003	81-hole Box, White, h77mm, Cell Φ15mm *New*	2,510		100ea	231,420
SL.Box9004	100-hole Box, White, h77mm, Cell Φ12.5mm *New*	2,510		100ea	231,420

(11) for 0.5~2ml Cryovials & Microtubes, 5 Color Assorted Box-Set, 81&100 hole, 5 Colors : Blue/Green/Pink/Yellow/White-Assorted

		Set.	Price,₩	Cs.	Price, ₩
SL.Box9005	81-hole/5 color Box set, h52mm, Cell Φ15mm *New*	12,860		20set	237,870
SL.Box9006	100-hole/5 color Box set, h52mm, Cell Φ12.5mm *New*	12,860		20set	237,870

(12) for 0.5~2ml Cryovials & Microtubes, ID-Color™ 81holes 5 Color Cardboard Freezer Box-set

		Ea.	Price,₩	Cs.	Price, ₩
SL.Box9014.Y	Freezer Box, 81-hole, for 0.5~2.0ml, Yellow *New*	12,890		20ea	
SL.Box9014.O	, Orange *New*	12,890		＊5color	
SL.Box9014.G	, Green *New*	12,890		assorted 4pk.	
SL.Box9014.B	, Blue *New*	12,890			
SL.Box9014.W	, White *New*	12,890			

ULT Freezer with Validation (IQ, OQ) Service

		Ea. Price, ₩
DH.SWUF30300	Validation Service(IQ, OQ), with "UniFreez U300", **"SUFV300"**	On Request
DH.SWUF30400	, with "UniFreez U400", **"SUFV400"**	On Request
DH.SWUF30500	, with "UniFreez U500", **"SUFV500"**	On Request
DH.SWUF30700	, with "UniFreez U700", **"SUFV700"**	On Request



(1) Sliding Drawer-type Rack, 15Places **"RFU3040SD"**



(2) Side Access-type Rack, 20Places **"RFU50SA"**


(3) Temp. Chart Recorder, **"KT622"**


(4) Chart Paper, **"C657"**, 60 charts for 420 days


(5) Replacement Pens 6ea, Red color, **"P222"**, for Cart Recorder


(6) LCO_2 back up system **"LCO2B"**


(7) Remote Alarm System **"RWAS"**



(8) Hard Board Storage Boxes



(9) & (10) White Boxes



(11) 5 Color Assorted Box-Set



(12) 5 Color Assorted Box-Set

"DuoFreez™ U" SMART Digital Ultra-Low Temp. Freezer, Upright-type, −95℃~−65℃

with Smart-Lab™ System, Non-Freon Refrigerants, Auto Vacuum Releasing System, Eco Mode, 308 -/393-/503-/714-Lit

초저온 냉동고, 업라이트형, DuoFreez™ System, 7인치 풀터치 스크린 컨트롤러, 친환경 냉매 채용, WiRe™서비스



SMART Ultra-Low Temperature Freezer, "DuoFreez™ U300"

- ***Made in Korea*** ■ ***UL/CUL & CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***UniFreez™ System can freezes down to −86℃ : realize robust and long life time.***
- ***DuoFreez™ System can down to −95℃ and High-stability system can be offered. : If one UniFreez System fails in operation, the other UniFreez System still works and maintains down to −80℃***
- ***Smart-Lab™ Controller : Controlled by Smart-Phone***
- ***Eco Mode Function for Low Power-consumption.***
- ***PL (Product Liability) Insurance*** ■ ***GD(Good Design)-mark***

∗ Ergonomic 7″ Full Touch Screen TFT LCD(Smart-Lab™ Controller)
∗ WiRe™ App Service. ∗ Storage Management Function
∗ Self-Diagnostic Function ∗ Automatic Data Recording
∗ Internet Connectivity with WiFi ∗ Eco. Mode for Low Power Consumption
∗ Automatic Vacuum Breaker - Easy to re-open the Door.
∗ Robust & Flexible design of Door Handle
∗ Easy Monitoring and Control - Eye level Controller
∗ CFC-free Refrigerants are used ∗ External Temp. Sensor Hole
∗ Use of Block Condenser removes filter and causes of related failure.
∗ Filter-free Mechanism lowers heat generated by the compressor
∗ Easy Maintenance and Improved Performance
∗ High-quality Insulation Panel and Inner Doors ensure defrosting around outer surface.
∗ Built in Standard Warning and Alarm Functions
∗ RS232 Communication Link and a Remote Control Software are supported

Specifications & Ordering information

Spec. \ Model		"DuoFreez U300"	"DuoFreez U400"	"DuoFreez U500"	"DuoFreez U700"
Capacity		308 Lit.	393 Lit.	503 Lit.	714 Lit.
Freezing System		DuoFreez™ System			
Temp.	Range	−95℃~−65℃			−90℃~−65℃
		at Room Temperature of 30℃ and Humidity of 70%			
	Sensor	PT100 Sensor			
Compressor		Hermetic Type			
Condenser Type		Block Condenser, No Pin, Filter Free Mechanism			
Refrigerant		Natural (CFC Free Refrigerant System)			
Controller & Display		7″ Full Touch Screen TFT LCD (Smart-Lab™ Controller)			
Shelves		Included 3 Stainless-steel Shelves			
Max. Q'ty of Racks		12pcs of 15(3×5)-Placed Rack (RFU3040)	16pcs of 15(3×5)-Placed Rack (RFU3040)	16pcs of 20(4×5)-Placed Rack (RFU50)	24pcs of 20(4×5)-Placed Rack (RFU50)
Material	Internal	Stainless-steel (#304)			
	External	Powder Coated steel Plate			
	Inner Door	Powder Coated Stainless-steel (#304)			
Others		UL/CUL & CE Certified, GD-mark PL(Product Liability) Insurance, CFC-Free Refrigerants Touch-Screen TFT LCD Smart-Lab™ Controller Built in Standard Warning and Alarm Functions RS232 Communication Link, Remote Control Software			
Chamber Dimension (w×d×h)	Internal(mm)	470×500×1,310	600×500×1,310	600×640×1,310	880×620×1,310
	External(mm)	710×750×1,900	840×750×1,900	840×890×1,900	1,120×870×1,900
Net Weight		220 kg	260 kg	300 kg	320 kg
Packing Size (w×d×h) (cm) & Gross Weight		110×110×222	116×116×222	116×124×222	140×140×221
		300 kg	352 kg	352 kg	442 kg
Power Consumption	Dual mode	398 w/h	474 w/h	507 w/h	596 w/h
	Eco. mode	352 w/h	373 w/h	458 w/h	503 w/h
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz			
Cat. No.	230V	DH.SWUF01300	DH.SWUF01400	DH.SWUF01500	DH.SWUF01700
	120V	DH.SWUF02300	DH.SWUF02400	DH.SWUF02500	DH.SWUF02700
Price, Each. ₩		10,454,000	11,475,000	13,085,000	15,574,000

※ 운임 약 ₩ 95,000별도!

>> Smart-Lab™ Controller



7″ Full Touch Screen TFT LCD



WiRe™ App Service

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.

Controlled by Smart-Phone

<Continued On Next Page>

<*Continued From...* *"DuoFreez™ U"* SMART Digital Ultra-Low Temp. Freezer, Upright-type>

Optional Freezer Racks

		Ea. Price, ₩
DH.RFU3040SD	(1) Rack, Sliding Drawer-type, SUS304, 15 places, **"RFU3040SD"**, 140×430×h290 mm, for **"U300/400",** without boxes	163,000
DH.RFU50SD	(1) Rack, Sliding Drawer-type, SUS304, 20 places, **"RFU50SD"**, 140×570×h290 mm, for **"U500/700",** without boxes	167,000
DH.RFU3040SA	(2) Rack, Side Access-type, SUS304, 15 places, **"RFU3040SA"**, 140×430×h290 mm, for **"U300/400",** without boxes	163,000
DH.RFU50SA	(2) Rack, Side Access-type, SUS304, 20 places, **"RFU50SA"**, 140×570×h290 mm, for **"U500/700",** without boxes	167,000

Optional Recorder/Remote Alarm System/LCO_2 Back up System

DH.KT622	(3) Temp. Chart Recorder, **"KT622",** with **"C657"** Chart Paper	1,370,000
DH.C657	(4) Chart Paper, **"C657"**, 60 Charts, for 420 days recording	74,000
DH.P222	(5) Replacement Pens, **"P222",** 6ea Red color, for **"KT622"** Chart Recorder	97,000
DH.LCO2B	(6) LCO_2 Back up System, **"LCO2B"**	1,106,000
DH.RWAS	(7) Remote Wire/Wireless Alarm System, **"RWAS"**	775,000

Optional Freezer Boxes

(8) for 1.5/2.0ml Microtube/Cryovials, 81-Holes Hard Board Storage Boxes, with Hard Board / PP Divider

		Ea. Price, ₩
C11.001	Hard Board Box, with Hard Board Divider, 81 Hole, 127×127×h52 mm	2,290
C11.002	, with PolyPropylene Divider, 81 Hole, 127×127×h52 mm	2,290

(9) for 0.5~2ml Cryovials/Microtubes, 81&100 hole White Boxes, h52mm, 0.5ml : Screwcap Microtubes

		Ea. Price,₩	Cs. Price, ₩
SL.Box9001	81-hole Box, White, h52mm, Cell Φ15mm *New*	2,400	100ea 221,800
SL.Box9002	100-hole Box, White, h52mm, Cell Φ12.5mm *New*	2,400	100ea 221,800

(10) for 3ml Cryovials, 81&100 hole White Boxes, h77mm, Maybe fit to 4ml Cryovials

		Ea. Price,₩	Cs. Price, ₩
SL.Box9003	81-hole Box, White, h77mm, Cell Φ15mm *New*	2,510	100ea 231,420
SL.Box9004	100-hole Box, White, h77mm, Cell Φ12.5mm *New*	2,510	100ea 231,420

(11) for 0.5~2ml Cryovials & Microtubes, 5 Color Assorted Box-Set, 81&100 hole, 5 Colors : Blue/Green/Pink/Yellow/White-Assorted

		Set. Price,₩	Cs. Price, ₩
SL.Box9005	81-hole/5 color Box set, h52mm, Cell Φ15mm *New*	12,860	20set 237,870
SL.Box9006	100-hole/5 color Box set, h52mm, Cell Φ12.5mm *New*	12,860	20set 237,870

(12) for 0.5~2ml Cryovials & Microtubes, ID-Color™ 81holes 5 Color Cardboard Freezer Box-set

		Ea. Price,₩	Cs. Price, ₩
SL.Box9014.Y	Freezer Box, 81-hole, for 0.5~2.0ml, Yellow *New*	12,890	20ea
SL.Box9014.O	, Orange *New*	12,890	∗ 5color
SL.Box9014.G	, Green *New*	12,890	assorted 4pk.
SL.Box9014.B	, Blue *New*	12,890	
SL.Box9014.W	, White *New*	12,890	

ULT Freezer with Validation (IQ, OQ) Service

		Ea. Price, ₩
DH.SWUF31300	Validation Service(IQ, OQ), with "DuoFreez U300", **"SUFDV300"**	On Request
DH.SWUF31400	, with "DuoFreez U400", **"SUFDV400"**	On Request
DH.SWUF31500	, with "DuoFreez U500", **"SUFDV500"**	On Request
DH.SWUF31700	, with "DuoFreez U700", **"SUFDV700"**	On Request



(1) Sliding Drawer-type Rack, 15Places **"RFU3040SD"**



(2) Side Access-type Rack, 20Places **"RFU50SA"**


(3) Temp. Chart Recorder, **"KT622"**


(4) Chart Paper, **"C657",** 60 charts for 420 days


(5) Replacement Pens 6ea, Red color, **"P222",** for Cart Recorder


(6) LCO_2 back up system **"LCO2B"**


(7) Remote Alarm System **"RWAS"**



(8) Hard Board Storage Boxes



(9) & (10) White Boxes



(11) 5 Color Assorted Box-Set



(12) 5 Color Assorted Box-Set

"UniFreez™ U" Personal Digital Ultra-Low Temp. Freezer, Upright Type, −86℃~−65℃

with Smart-Lab™ System(UniFreez™ U80 model), Non-Freon Refrigerants, 25-/82-Lit, with Certi. & Traceability

개인용 초저온 냉동고, 단일 냉각 시스템, 터치 스크린 LCD 컨트롤러, 친환경 냉매 채용



Personal ULT Freezer "UniFreez™ U80", with Smart-Lab Controller



WiRe™ App Service

It is possible to monitor and control the Smart-Lab™ equipment through all smart phone, tablet without restraint of time and place.

Controlled by Smart-Phone



Personal ULT Freezer "UniFreez™ U25", with Digital Feedback Controller

- ***Made in Korea***
- ***CE Certified (Only "U80" model)***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Personal type Compact Ultra Low Temperature Freezer***
- ***UniFreez™ System can freezes down to −86℃ : realize robust and long life time.***
- ***Smart-Lab™ Controller(Only "U80" model): Controlled by Smart-Phone***
- ***UL/CUL Certified (Only "U80" model)***
- ***GD(Good Design)-mark (Only "U80" model)***
- ***PL (Product Liability) Insurance***

* Personal type Compact Ultra Low Temperature Freezer
* UniFreez™ U System can freeze down to −86℃ : realize robust and long life time.
* Robust & Flexible design of Door Handle
* CFC-free Refrigerants are used
* External Temp. Sensor Hole
* Use of Block Condenser removes filter and causes of related failure.
* Filter-free Mechanism lowers heat generated by the compressor
* Easy Maintenance and Improved Performance
* High-quality Insulation Panel and Inner Doors ensure defrosting around outer surface.
* Built in Standard Warning and Alarm Functions
* Ergonomic 7″ Full Touch Screen TFT LCD (Smart-Lab™ Controller) -only "U80" model
* WiRe™ App Service -only "U80" model
* Storage Management Function -only "U80" model
* Self-Diagnostic Function -only "U80" model
* Automatic Data Recording -only "U80" model
* Internet Connectivity with WiFi -only "U80" model

Specifications & Ordering information

Spec. \ Model		"UniFreez™ U25"	"UniFreez™ U80"
Capacity		25 Lit.	82 Lit.
Temp.	Range	−86℃~−65℃	
		at Room Temperature of 30℃ and Humidity of 70%	
	Sensor	PT100 Sensor	
Compressor		Hermetic Type	
Condenser Type		Block Condenser, No Pin, Filter Free Mechanism	
Refrigerant		Natural (CFC Free Refrigerant System)	
Controller		Digital Feedback Controller	7″Full Touch Screen TFT LCD
Shelves		None	Included 1 Stainless-steel Shelf
Max. Q'ty of Racks		None, Only 10~15 boxes are applicable	4pcs of 12(3×4)-Placed Rack (RFU8)
Material	Internal	Stainless-steel (#304)	
	External	Powder Coated steel Plate	
	Inner Door	Powder Coated Stainless-steel (#304)	
Others		CE Certified (UniFreez U80), GD-mark (UniFreez U80) PL(Product Liability) Insurance Touch-Screen TFT LCD Smart-Lab™ Controller (UniFreez 80) CFC-Free Refrigerants, RS232 Communication Link Built in Standard Warning and Alarm Functions Remote Control Software (UniFreez U80)	
Dimension (w×d×h)	Internal (mm)	200×420×300	340×485×520
	External (mm)	390×627×785	530×687×1,060
Weight		52 kg	60 kg
Packing Size (w×d×h) (mm) & Gross Weight		880×860×1,300	960×760×1,350
		69 kg	102 kg
Power Consumption		321 w / h	
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz	
Cat. No.	230V	**DH.WUF0032**	**DH.SWUF0075**
	120V	**DH.WUF0132**	**DH.SWUF0175**
Price, Each. ₩		4,185,000	4,889,000

* Other Specifications are available upon Customer's Request.

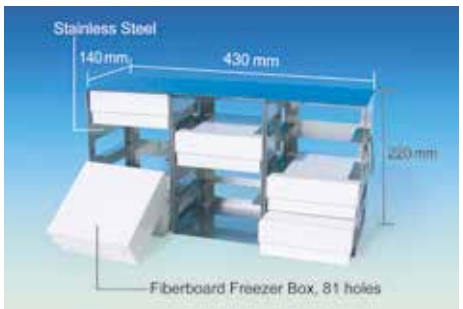
※ 운임 약 ₩ 45,000 별도!

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<*Continued From... "UniFreez™ U"* Personal Digital Ultra-Low Temp. Freezer, Upright Type>

Optional Accessories

		Ea. Price, ₩
DH.RFU8SD	Rack, Sliding Drawer-type, Stainless-steel, 12 places, **"RFU8SD"**, 140×430×h220 mm, for **"U80",** without boxes	159,000
DH.RFU8SA	(1) Rack, Side Access-type, Stainless-steel, 12 places, **"RFU8SA"**, 140×430×h220 mm, for **"U80"**	159,000
DH.KT622	(2) Temp. Chart Recorder, **"KT622",** with **"C657"** Chart Paper	1,370,000
DH.C657	(3) Chart Paper, **"C657"**, 60 Charts, for 420 days recording	113,000
DH.P222	(4) Replacement Pens, **"P222",** 6ea Red color, for **"KT622"** Chart Recorder	97,000
DH.LCO2B	(5) LCO_2 Back up System, **"LCO2B"**	1,106,000
DH.RWAS	(6) Remote Wire/Wireless Alarm System, **"RWAS"**	775,000



(1) Side Access-type Rack, 20Places **"RFU50SA"**

Optional Freezer Boxes

(7) for 1.5/2.0ml Microtube/Cryovials, 81-Holes Hard Board Storage Boxes, with Hard Board / PP Divider

		Ea. Price, ₩
C11.001	Hard Board Box, with Hard Board Divider, 81 Hole, 127×127×h52 mm	2,290
C11.002	, with PolyPropylene Divider, 81 Hole, 127×127×h52 mm	2,290

(8) for 0.5~2ml Cryovials/Microtubes, 81&100 hole White Boxes, h52mm, 0.5ml : Screwcap Microtubes

		Ea. Price,₩	Cs. Price, ₩
SL.Box9001	81-hole Box, White, h52mm, Cell Φ15mm ***New***	2,400	100ea 221,800
SL.Box9002	100-hole Box, White, h52mm, Cell Φ12.5mm ***New***	2,400	100ea 221,800

(9) for 3ml Cryovials, 81&100 hole White Boxes, h77mm, Maybe fit to 4ml Cryovials

		Ea. Price,₩	Cs. Price, ₩
SL.Box9003	81-hole Box, White, h77mm, Cell Φ15mm ***New***	2,510	100ea 231,420
SL.Box9004	100-hole Box, White, h77mm, Cell Φ12.5mm ***New***	2,510	100ea 231,420

(10) for 0.5~2ml Cryovials & Microtubes, 5 Color Assorted Box-Set, 81&100 hole, 5 Colors : Blue/Green/Pink/Yellow/White-Assorted

		Set. Price,₩	Cs. Price, ₩
SL.Box9005	81-hole/5 color Box set, h52mm, Cell Φ15mm ***New***	12,860	20set 237,870
SL.Box9006	100-hole/5 color Box set, h52mm, Cell Φ12.5mm ***New***	12,860	20set 237,870

(11) for 0.5~2ml Cryovials & Microtubes, ID-Color™ 81holes 5 Color Cardboard Freezer Box-set

		Ea. Price,₩	Cs. Price, ₩
SL.Box9014.Y	Freezer Box, 81-hole, for 0.5~2.0ml, Yellow ***New***	12,890	20ea
SL.Box9014.O	, Orange ***New***	12,890	∗ 5color
SL.Box9014.G	, Green ***New***	12,890	assorted 4pk.
SL.Box9014.B	, Blue ***New***	12,890	
SL.Box9014.W	, White ***New***	12,890	

ULT Freezer with Validation (IQ, OQ) Service

		Ea. Price, ₩
DH.WUF30032	Validation Service(IQ, OQ), with "UniFreez U25", **"UFV32"**	On Request
DH.SWUF30075	, with "UniFreez U80", **"SUFV75"**	On Request



(2) Temp. Chart Recorder, **"KT622"**



(3) Chart Paper, **"C657",** 60 charts for 420 days



(4) Replacement Pens 6ea, Red color, **"P222",** for Cart Recorder



(5) LCO_2 back up system **"LCO2B"**



(6) Remote Alarm System **"RWAS"**



(7) Hard Board Storage Boxes



(8) & (9) White Boxes

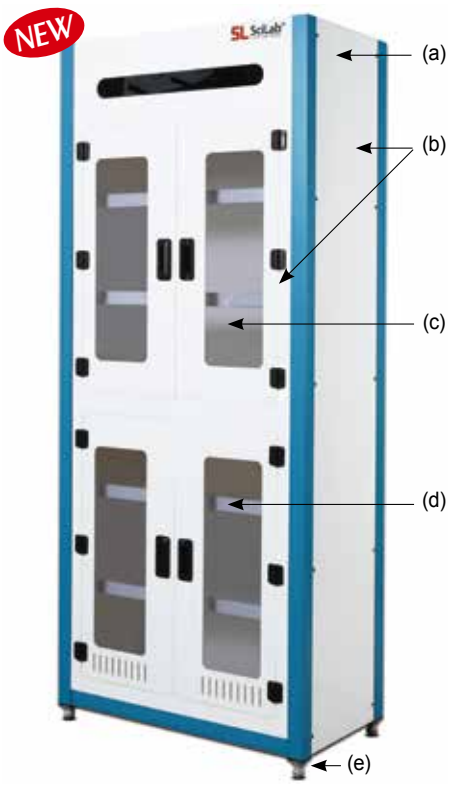


(10) 5 Color Assorted Box-Set

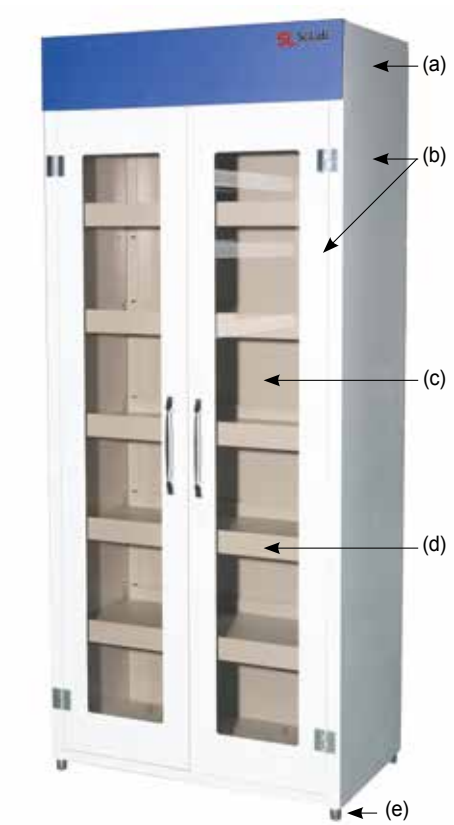


(11) 5 Color Assorted Box-Set

SciLab-brand® Ducted Safety Cabinets, with Clear PVC-/Safety Glass-Door Window, Built-in PVC/Al-buttress with Internal & External PVC/Steel Plate, Duct & Pipe Silicon Sealing, Gas Leak Completely Blocked, 닥트형 약품기구 보관장, 환기형



(1) PVC Safety Cabinets, **"SFGC-2001"**



(2) Steel Safety Cabinets, **"SFGC-900"**

- ***Made in Korea*** ■ ***Durable, Hazardous Chemical Gas Remove.***
- ***Internal/External PVC Sheet/Steel Plate Good Resistance of Chemicals & Acid.***
- ***Clear PVC-/Tempered Safety Glass-Window***
  (Custom-Made Safety Cabinet : Wide Variety of Material for User Selection)

∗ Discharging Toxic Gas Generated During Storage Various Reagents to the Outside through the Duct Structure
∗ Effective in Maintaining a Comfortable indoor to Prevent the Laboratory Room Air being Polluted.
∗ It may Create a Space to Treat the Harmful Substances in the Human Body Safely and Comfortably
∗ Process Pipe & Duct Silicon Sealing to Completely Block the Gas Leakage to the Outside
∗ Optional Blower User Selection : External-model(Stainless steel-/ Steel-/ PVC-/ PP-Blower)
& Internal-model(Steel-/ PVC-/ PP-Blower)
∗ Optional 24-hour Timer : Automatically Adjustable Exhaust attached to a Safety Cabinet

(1) Ducted PVC Safety Cabinet, Clear PVC Door Window NEW

- ***Internal/External PVC Material Resistance of Chemicals and Acids***
- ***Built-in PVC-buttress*** ■ ***1-Room, 4-Doors, 5-Shelfs***

∗ Safe Storage of Chemicals and Acids
∗ Door Window : Use the Clear PVC Transparency and Protect the Experimenter Against the Risk of Explosion.
∗ Basic Materials of Construction : Internal(PVC), External(PVC), 5-stage a Fixed Shelf(PVC)

Specifications & Ordering information

Spec. \ Model	"SFGC-2001"	"SFGC-2003"	"SFGC-2005"
(a) Duct size	Φ 100mm / Φ 150mm		
(b) Body & Door Material	PVC(Extrusion Moulding)		
(c) Door Window Material	Clear PVC		
(d) Shelf Material	PVC (5 Fixed-type)		
(e) Foot Material	PVC(Height Adjustable up to 30mm)		
Dimension(w × d × h)	900 × 500 × h2100mm	1200 × 500 × h2100mm	1500 × 500 × h2100mm
Power Supply	220V / 60Hz		
Cat. No.	SL.SFGC2001	SL.SFGC2003	SL.SFGC2005
Price, Ea. ₩	2,032,800	2,178,000	2,613,600

* Other Specifications are available upon Customer's Request.

※ **Note! Freight and Installation Charges Separately.**

(2) Ducted Steel Safety Cabinet, Tempered Safety Glass Door Window

- ***Internal/External Steel plate with Powder finished for Resistance of Chemicals***
- ***Built-in Particle Board-plate & Al-buttress*** ■ ***1-Room, 2-Doors, 5-Shelfs***

∗ Safe Storage of Chemicals
∗ Use Tempered Safety Glass Protects the Experimenter Against the Risk of Explosion.
∗ Basic Materials of Construction : Internal(Steel), External(Steel), 5-stage a Fixed Shelf(PB & Al)

Specifications & Ordering information

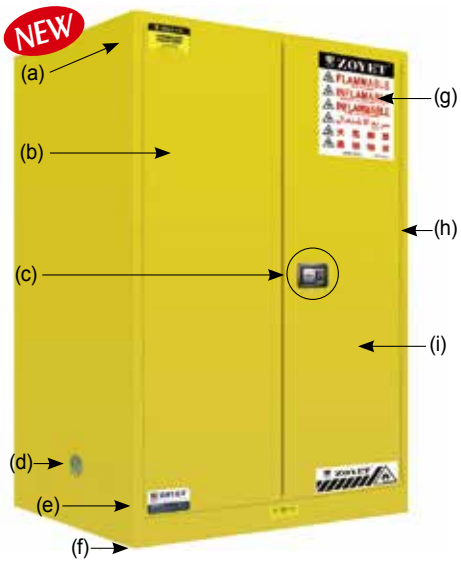
Spec. \ Model	"SFGC-900"	"SFGC-1200"	"SFGC-1500"
(a) Duct size	Φ 100mm / Φ 150mm		
(b) Body & Door Material	Steel(with Powder Finished)		
(c) Door Window Material	Tempered Safety Glass		
(d) Shelf Material	PB(Particle Board) Plate + Aluminum Buttress (5 Fixed-type)		
(e) Foot Material	Stainless-steel(Height Adjustable up to 30mm)		
Dimension(w × d × h)	900 × 500 × h2100mm	1200 × 500 × h2100mm	1500 × 500 × h2100mm
Power Supply	220V / 60Hz		
Cat. No.	SL.SFGC0900	SL.SFGC1200	SL.SFGC1500
Price, Ea. ₩	1,452,000	1,597,200	1,815,000

* Other Specifications are available upon Customer's Request.

※ **Note! Freight and Installation Charges Separately.**

Zoyet® Safety Cabinets for Flammables, with Double Layer Fire Proof Steel with Insulation Layer, 15~410 Lit NEW
for Easy Open & Close 180° Door with Double Keys, with High Visible Warning Label, with Manual-/Self Closing-Door
Compliance with OSHA 29 CER 1910.106 and NFPA CODE 30, 안전 케비넷, 인화성 시약 보관용





(2), (4) for Flammables, with 2 Doors, 340Lit.



(2), (4) for Flammables, with 2 Doors, 114Lit.



(1), (3) for Flammables, with 1 Door, 15Lit



(5) Spare Steel Shelf

- ***This Safety Cabinet complies with OSHA 29 CER 1910.106, NFPA CODE 30 and FM Standard.***
- ***Complete Double Layer Fire Proof Sheet Steel, 38mm Insulation Layer is put in between Double Layer Wall Space.***
- ***Sheet Steel of Thickness over 1.0mm all-welded Together making it more Durable and Robust, with better Fire Proof Capacity.***
- ***3-point Inter-active Locking System, Easy open-close 180° Cabinet Door with Double Keys (Padlock and Key Lock).***
- ***Spill Control Sill of 5cm Height prevent Maximum Leak Control on Accidental Spill.***
- ***Professional and Standard Warning Label of High Visibility.***
- ***Double Vents with Flame Arrestor Set on the Cabinet.***
- ***Inside of Cabinet is sprayed with Permanent and Lead-free Paints.***



incl. Adjustable Level Feet × 4

Special Features of Safety Cabinets for Flammables

(a) Fully Welded, not Riveted Construction holds Squareness for Long Life and offers greater Protection in a Fire since Air Gaps are reduced.
(b) Safety Shelves direct Spills to back and Bottom of Leakproof Sump. Adjustable on 60mm Centers, they meet ANSI Standards with a 99kg Theoretically Allowable Load.
(c) Highly Secure Lock with Dual Protection (Padlock and Key lock) makes Storage Safer.
(d) Dual Vents with Built-in Flash Arresters Strategically placed at Bottom and Opposite Top.
(e) 5cm Leakproof Containment Sump holds Leaks and meets US EPA Requirements.
(f) Adjustable Leveling Feet make it easy to Balance Cabinets on Uneven Surface.
(g) Label makes it Apparently Visible for Site Manager or Operators to identify where the Chemicals stored quickly.
(h) Continuous Piano Hinge provides better Open-close Smooth Operation, ensuring Endurance and Reliability.
(i) Durable and Chemical-resistant, Lead-free Powder-coat Paint Finish, Inside and Out, retains High Gloss Look and minimizes the Effects of Corrosion and Humidity.

※ **Note! Freight and Installation Charges Separately.**

(1) with Manual-closing Door, with 1 Door, 15~83 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0004	1 Door, Manual, 1 Shelf, 15Lit.	w430×d430×h560mm, 35kg	373,400
HW.ZYC0012	, 45Lit.	w590×d460×h890mm, 56kg	513,360
HW.ZYC0022	, 2 Shelves, 83Lit.	w590×d460×h1650mm, 85kg	655,900

(2) with Manual-closing Doors, with 2 Door, 114~410 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0030	2 Door, Manual, 1 Shelf, 114Lit.	w1090×d460×h1120mm, 100kg	774,280
HW.ZYC0045	, 2 Shelves, 170Lit.	w1090×d460×h1650mm, 138kg	1,077,820
HW.ZYC0060	, 227Lit.	w860×d860×h1650mm, 165kg	1,332,260
HW.ZYC0090	, 340Lit.	w1090×d860×h1650mm, 190kg	1,430,930
HW.ZYC0110	, 410Lit.	w1500×d860×h1650mm, 270kg	1,644,320

(3) with Self-closing Door, with 1 Door, 15~83 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0004S	1 Door, Self-closing, 1 Shelf, 15Lit.	w430×d430×h560mm, 35kg	471,410
HW.ZYC0012S	, 45Lit.	w590×d460×h890mm, 56kg	611,370
HW.ZYC0022S	, 2 Shelves, 83Lit.	w590×d460×h1650mm, 85kg	753,910

(4) with Self-closing Doors, with 2 Door, 114~410 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0030S	2 Door, Self-closing, 1 Shelf, 114Lit.	w1090×d460×h1120mm, 100kg	1,002,970
HW.ZYC0045S	, 2 Shelves, 170Lit.	w1090×d460×h1650mm, 138kg	1,306,510
HW.ZYC0060S	, 227Lit.	w860×d860×h1650mm, 165kg	1,560,950
HW.ZYC0090S	, 340Lit.	w1090×d860×h1650mm, 190kg	1,659,620
HW.ZYC0110S	, 410Lit.	w1500×d860×h1650mm, 270kg	1,873,010

(5) Spare Steel Shelves for Flammable Acid & Corrosives

		Ea.	Price,₩
HW.GB0004	Steel Shelves, for 15Lit. Cabinets, w340×d340×h28mm		72,530
HW.GB0012	, for 45/83Lit. Cabinets, w500×d370×h28mm		72,530
HW.GB0030	, for 114/170Lit. Cabinets, w1000×d370×h28mm		72,530
HW.GB0060	, for 227Lit. Cabinets, w770×d770×h28mm		72,530
HW.GB0090	, for 340Lit. Cabinets, w1000×d770×h28mm		72,530
HW.GB0110	, for 410Lit. Cabinets, w1400×d770×h28mm		72,530

Zoyet® Safety Cabinet for Acid & Corrosives, with Double Layer Fire Proof Steel with Insulation Layer, 15~410 Lit NEW

for Easy Open & Close 180° Door with Double Keys, with PP Trays, with Manual-/Self Closing-Door

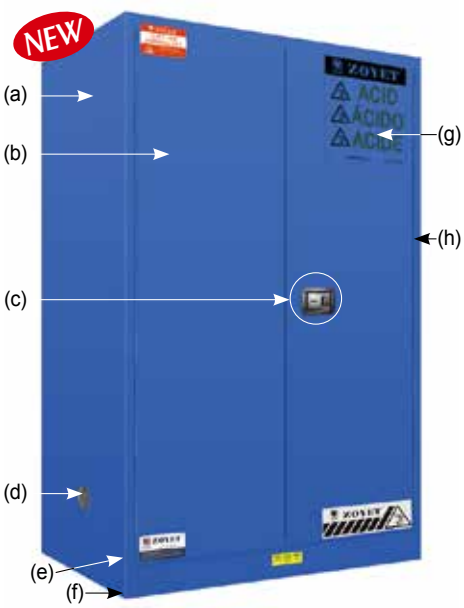
Compliance with OSHA 29 CER 1910.106 and NFPA CODE 30, **안전 케비넷, 산 또는 부식성 시약 보관용**



- ***This Safety Cabinet complies with OSHA 29 CER 1910.106, NFPA CODE 30 and FM Standard.***
- ***Complete Double Layer Fire Proof Sheet Steel, 38mm Insulation Layer is put in between Double Layer Wall Space.***
- ***Sheet Steel of Thickness over 1.0mm all-welded Together making it more Durable and Robust.***
- ***Inside and Outside surface of Cabinet is finished on Blue Permanent and Corrosion-resistant Paints.***
- ***3-point Inter-active Locking System, Easy open-close 180° Cabinet Door with Double Keys.***
- ***Spill Control Sill of 5cm Height prevent Maximum Leak Control on Accidental Spill.***
- ***Professional and Standard Warning Label of High Visibility.***
- ***Double Vents with Flame Arrestor Set on the Cabinet.***
- ***Inside of Cabinet is sprayed with Permanent and Lead-free Paints.***



incl. Adjustable Level Feet × 4



(2), (4) for Acid & Corrosives, with 2 Doors, 340Lit.



(1), (3) with 1 Door, 83 Lit.

(1), (3) with 1 Door, 45Lit.



(5) Spare PP Trays

Special Features of Safety Cabinets for Acid & Corrosives

(a) Fully Welded, not Riveted Construction holds Squareness for Long Life and offers greater Protection in a Fire since Air Gaps are reduced.
(b) Inside and Outside surface of Cabinet is finished on Blue Permanent and Corrosion-resistant Paints.
(c) Highly Secure Lock with Dual Protection (Padlock and Key lock) makes Storage Safer.
(d) Dual Vents with Built-in Flash Arresters Strategically placed at Bottom and Opposite Top.
(e) 5cm Leakproof Containment Sump holds Leaks and meets US EPA Requirements.
(f) Adjustable Leveling Feet make it easy to Balance Cabinets on Uneven Surface.
(g) Label makes it Apparently Visible for Site Manager or Operators to identify where the Chemicals stored quickly.
(h) Continuous Piano Hinge provides better Open-close Smooth Operation, ensuring Endurance and Reliability.

※ **Note! Freight and Installation Charges Separately.**

(1) with Manual-closing Door, with 1 Door, 15~83 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0004B	1 Door, Manual, 1 Shelf, 15Lit.	w430×d430×h560mm, 35kg	388,330
HW.ZYC0012B	, 45Lit.	w590×d460×h890mm, 56kg	533,910
HW.ZYC0022B	, 2 Shelves, 83Lit.	w590×d460×h1650mm, 85kg	682,130

(2) with Manual-closing Doors, with 2 Door, 114~410 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0030B	2 Door, Manual, 1 Shelf, 114Lit.	w1090×d460×h1120mm, 100kg	805,260
HW.ZYC0045B	, 2 Shelves, 170Lit.	w1090×d460×h1650mm, 138kg	1,120,950
HW.ZYC0060B	, 227Lit.	w860×d860×h1650mm, 165kg	1,385,540
HW.ZYC0090B	, 340Lit.	w1090×d860×h1650mm, 190kg	1,488,160
HW.ZYC0110B	, 410Lit.	w1500×d860×h1650mm, 270kg	1,710,090

(3) with Self-closing Door, with 1 Door, 15~83 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0004BS	1 Door, Self-closing, 1 Shelf, 15Lit.	w430×d430×h560mm, 35kg	486,340
HW.ZYC0012BS	, 45Lit.	w590×d460×h890mm, 56kg	631,920
HW.ZYC0022BS	, 2 Shelves, 83Lit.	w590×d460×h1650mm, 85kg	780,140

(4) with Self-closing Doors, with 2 Door, 114~410 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYC0030BS	2 Door, Self-closing, 1 Shelf, 114Lit.	w1090×d460×h1120mm, 100kg	1,033,950
HW.ZYC0045BS	, 2 Shelves, 170Lit.	w1090×d460×h1650mm, 138kg	1,349,640
HW.ZYC0060BS	, 227Lit.	w860×d860×h1650mm, 165kg	1,614,230
HW.ZYC0090BS	, 340Lit.	w1090×d860×h1650mm, 190kg	1,716,850
HW.ZYC0110BS	, 410Lit.	w1500×d860×h1650mm, 270kg	1,938,780

(5) Spare PP Trays for Acid & Corrosives Safety Cabinets

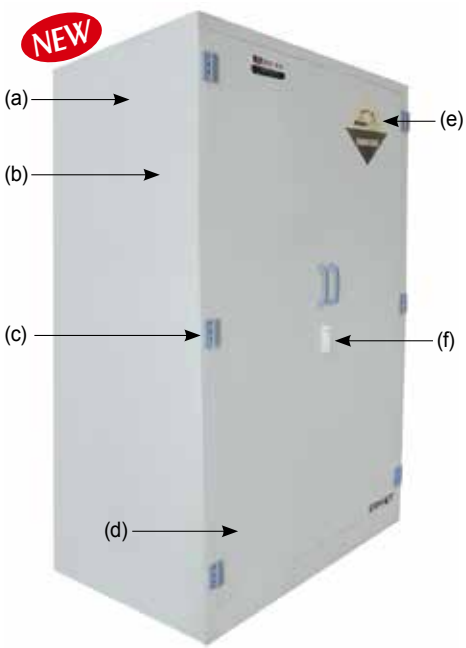
		Ea. Price,₩
HW.PPGB0004	PP Trays, for 15Lit. Cabinets, w330×d330×h35mm	48,360
HW.PPGB0012	, for 45/83Lit. Cabinets, w490×d360×h35mm	48,360
HW.PPGB0030	, for 114/170Lit. Cabinets, w990×d360×h35mm	90,710
HW.PPGB0060	, for 227Lit. Cabinets, w760×d760×h35mm	151,150
HW.PPGB0090	, for 340Lit. Cabinets, w1000×d760×h35mm	181,320
HW.PPGB0110	, for 410Lit. Cabinets, w1390×d760×h35mm	261,040

Zoyet® PP Safety Cabinets for Strong Acid & Corrosives, with Liquid-tight, with All-welded Interior, 15~340 Lit NEW

According to OSHA Requirement, with White Durable Polypropylene, PP 안전 케비넷, 산 & 부식물질 보관용



- ***This Safety Cabinet meet OSHA Requirement for Secondary Containment.***
- ***All Cabinets have Liquid-tight, All-welded Interior to contain Accidental Spills.***
- ***White Durable Polypropylene Cabinet is intended to store Acid and Corrosive Substance, such as Example, Sulfuric Acid, Hydrochloric Acid, Acetic Acid, Nitric Acid, Sodium Hydroxide, Potassium Hydroxide etc.***
- ***PP Cabinet Body adopts High Quality Anti-shock White PP board, welded as a Whole with Same Property and Color Welding Bar.***



(2) PP, with 2 Door, 227Lit.



(1) PP, with 1 Door, 15Lit.



(3) Spare PP Trays

Special Features of PP Safety Cabinet for Acid & Corrosives

(a) 8mm Thickness PP Board are used.
(b) Equipped with Internationally recognized Leakage Proof Shelves, which could be detached out to be cleaned. Adjustable Shelves are included in the Cabinets.
(c) PP Hinges for Durability and Long Life.
(d) Cabinet Door could be customized as Left-open or Right-open.
(e) Cabinet Doors are marked clearly with Warning Label Reading "CORROSIVE".
(f) To improve Operational Safety, Padlock could be used to provide Extra Protection.

※ **Note! Freight and Installation Charges Separately.**

(1) with Manual-closing Doors, with 1 Door, 15~45 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYP0004	1 Door, Manual, 1 Shelf, 15Lit.	w430×d430×h560mm, 11kg	454,440
HW.ZYP0012	, 45Lit.	w590×d460×h890mm, 25kg	614,200

(2) with Manual-closing Doors, with 2 Door, 100~340 Lit.

Cat. No.	Description	Dimensions & Weight	Price, Ea. ₩
HW.ZYP0026	2 Door, Manual, 1 Shelf, 100Lit.	w910×d600×h900mm, 46kg	1,141,820
HW.ZYP0030	, 114Lit.	w1090×d460×h1120mm, 52kg	1,141,820
HW.ZYP0045	, 2 Shelves, 170Lit.	w1090×d460×h1650mm, 75kg	1,363,820
HW.ZYP0060	, 227Lit.	w860×d860×h1650mm, 82kg	1,677,610
HW.ZYP0090	, 340Lit.	w1090×d860×h1650mm, 90kg	1,829,520

(3) Spare PP Trays for Acid & Corrosives PP Safety Cabinets

		Ea. Price,₩
HW.PPS04	PP Trays, for 15Lit. Cabinets, w405×d345×h78mm	39,210
HW.PPS12	, for 45Lit. Cabinets, w565×d375×h78m	49,010
HW.PPS26	, for 100Lit. Cabinets, w885×d515×h78mm	81,680
HW.PPS30	, for 114Lit. Cabinets, w1065×d375×h78mm	81,680
HW.PPS45	, for 170Lit. Cabinets, w1065×d375×h78mm	81,680
HW.PPS60	, for 227Lit. Cabinets, w835×d775×h78mm	117,620
HW.PPS90	, for 340Lit. Cabinets, w1065×d775×h78mm	169,890



Polypropylene (PP) Safety Cabinets for Acid & Corrosives

Kottermann® Exploris® Safety Cabinets, for Flammable Liquids, 90 min Fire Resistance NEW

Certified with EN 14470-1 Type 90, Tall & Underbench Type, 인화성 시약 보관용 안전 케비넷



- ***Made in Germany***
- ***This Safety Cabinets for Flammable Liquids are constructed to protect the Contents from External Fire.***
- ***The Cabinets' Exterior and Interior are Thermally Insulated from One another so there is a Long Time Delay before the External Heat reaches the Inside of the Cabinet.***
- ***Auto-Protection : The Door Frames are Automatically sealed by Special Fire Safety Seals. As a result, the Cabinet is Hermetically sealed against External Fire. This gives you Valuable Time to escape to Safety.***
- ***The Cabinet for Flammable Liquids have passed the Fire Chamber Test in Accordance with EN 14470-1 and have a Fire Resistance of 90 minutes***

* Optimum Protection afforded by the Highest Fire Resistance Category (Type 90).
* Flammable Liquids can be stored right where they are used in the Laboratory.
* Sufficient Escape Time for the Employees in the Working Area.
* Safe Operation with Smooth Running Doors which close Automatically in the Event of Fire.
* Extraction of Dangerous Substances Directly for Connection to On-site Exhaust Air System from where they are stored.
* Security Lock with Visual Indication of Lock State for protecting against Unauthorized Use.



(1) Tall, 2 Doors

EN 14470-1, Type 90 : Fire Resistance of 90 minutes (유럽 표준 EN 14470-1, Type 90에 따른 화재 안전 등급)

- ▶ **In the Event of Fire, the Door is Automatically closed and the Door Frames are Automatically sealed by Special Seals. As a result, the Cabinet is Hermetically sealed against Fire.**
- ▶ **Flammable Liquids in the Cabinet are stored in the safe condition against Fire, because the Special construction of Cabinet obstruct increasing the Temperature inside of the Cabinet over 90 minutes.**
- ▶ **This give Researchers Valuable Time to escape to Safe Area.**

(1) Tall Safety Cabinets, Manual Door Closure, 1 or 2 Doors with Shelves / Drawers, w 600/900/1200 mm

* Particularly Robust Construction which permits the Easy Transport of these Heavy Cabinets.
* The Adjustable Soft-closing Door Mechanism makes more comfortable to put in or take out Files
* Removable Shelves with Drip Tray (Max. Load 75kg) or Internal Drawers (Max. Load Up to 60kg).
* The Smooth-running Hinged Doors are available easy-to-use Single-handed Operation.



(1) Tall, 1 Door Open

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.371.00001	1 Door, Left, 3 Shelves, w600mm	w600×d615×h1955 mm	3,245,990
KO.371.00002	, Right, 3 Shelves, w600mm	〃	3,245,990
KO.371.00003	2 Doors, 4 Shelves, w900mm	w900×d615×h1955 mm	4,224,990
KO.371.00004	, w1200mm	w1200×d615×h1955 mm	4,550,230
KO.371.00005	1 Door, Left, 4 Drawers, w600mm	w600×d615×h1955 mm	4,257,510
KO.371.00006	, Right, 4 Drawers, w600mm	〃	4,257,510
KO.371.00007	2 Doors, 4 Drawers, w900mm	w900×d615×h1955 mm	6,078,900
KO.371.00008	, w1200mm	w1200×d615×h1955 mm	6,176,470

(2) Tall Safety Cabinets, Automatic Door Closure, 1 or 2 Doors with Shelves / Drawers, w 600/900/1200 mm

* The Smooth-running Hinged Doors are available with Automatic Time-delayed Closing.
* The Adjustable Soft-closing Door Mechanism makes it more Comfortable to put in or take out Receptacles.
* Removable Shelves with Drip Tray (Max. Load 75kg) or Internal Drawers (Max. Load Up to 60kg)



(2) Tall, Automatic 2 Doors Open

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.371.00009	1 Door, Automatic, Left, 3 Shelves, w600mm	w600×d615×h1955 mm	3,867,210
KO.371.00010	, Right, 3 Shelves, w600mm	〃	3,867,210
KO.371.00012	2 Doors, Automatic, 4 Shelves, w900mm	w900×d615×h1955 mm	4,764,890
KO.371.00021	1 Door, Automatic, Left, 4 Trays, w600mm	w600×d615×h1955 mm	4,745,380
KO.371.00022	, Right, 4 Trays, w600mm	〃	4,745,380
KO.371.00023	2 Doors, Automatic, 4 Trays, w900mm	w900×d615×h1955 mm	6,664,350
KO.371.00024	, w1200mm	w1200×d615×h1955 mm	6,794,450

<Continued On Next Page>

<Continued From...Kottermann® Exploris® Safety Cabinets, for Flammable Liquids>



(3) Underbench, 1 Drawer



(4) Underbench, 2 Doors & 1 Drawer

(3) Underbench Safety Cabinets, with 1 or 2 Drawers, w592/890/1100 mm

* Ideal for Installation under Laboratory Fume Cupboards.
* Safe and Ergonomic Access to Flammable Liquids Directly at your Work Station.
* Drawers provide Easy Access to stored Bottles. Second Level Drawer increase your Storage Space.

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.371.00016	1 Drawer, w890	w890×d570×h720 mm	2,595,490
KO.371.00025	1 Drawer, with Second Level Drawer, w592	w592×d570×h720 mm	2,663,800
KO.371.00026	1 Drawer, with Second Level Drawer, w890	w890×d570×h720 mm	2,878,450
KO.371.00018	2 Drawers, w1100	w1100×d570×h720 mm	3,463,900
KO.371.00027	2 Drawers, with Second Level Drawer(R), w1100	〃	3,672,060
KO.371.00029	, w1400	w1400×d570×h700 mm	4,094,890

(4) Underbench Safety Cabinets, with 2 Doors, w1100/1400 mm

* Extra Large Cabinets with Extra High Interior to accommodate Two Levels of 1 Lit. Bottles.
* Two Storage Levels give the Storage Capacity of 1Lit. Bottles compared with Conventional Cabinets.

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.371.00017	2 Doors, 1 Drip Tray, w1100	w1100×d570×h720 mm	3,106,120
KO.371.00019	2 Doors (L-hinged), 1 Drawer(R), w1400	w1400×d570×h720 mm	4,439,640
KO.371.00028	2 Doors (L-hinged), 1 Drawer(R), with Second Level Drawer(R), w1400	〃	4,569,740
KO.371.00020	2 Pull-out Tray, w1400	〃	3,850,950

Kottermann® Exploris® Safety Cabinets, for Gas Cylinders, 90 min Fire Resistance, 2 ~ 4 Cylinders NEW
Certified with EN 14470-2 G90, Retractable Cylinder Compartments, 가스실린더용 안전 케비넷



For 2 Gas Cylinders, 1 Door

- ***Made in Germany***
- ***Thermal Insulation Effectively protects the Gas Cylinders against Excessive Heat, giving Staff Sufficient Time to leave the Hazard Area in the Event of Fire.***
- ***Gas Cylinder Cabinets comply with the most Stringent Fire Resistance Rating (G90), are tested in Accordance with EN 14470-2, and have the GS mark.***
- ***Designed and Built to ensure that the Temperature of the Gas Cylinder Head does not rise more than 50°K within 90 minutes in the Event of Fire.***

* Manual Opening and Closing Doors, Safety Lock with Visual Indication of Lock State.
* Φ75 Extraction Spigot with Automatic Thermomechanical Closure.
* Mounting Rails for Gas Cylinder Stations and Cylinder Holders with Retaining Straps to secure the Cylinders

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.373.00008	1 Door, Left, for 2 Cylinders, w600	w600×d615×h2050 mm	6,017,090
KO.373.00009	, Right, for 2 Cylinders, w600	〃	6,017,090
KO.373.00010	2 Doors, for 3 Cylinders, w900	w900×d615×h2050 mm	6,195,980
KO.373.00011	, for 4 Cylinders, w1200	w1200×d615×h2050 mm	7,038,380
KO.373.00012	, for 4 Cylinders, w1400	w1400×d615×h2050 mm	7,575,040

Kottermann® Exploris® Solid PP Safety Cabinets, for Acids & Bases, Highest Resistance against Aggressive Chemicals with/without Fan, Solid Polypropylene, Tall & Underbench Type, 산/염기 보관용 안전 케비닛 NEW



(1) Tall, 2 Doors



(2) Underbench, 2 Doors

- ***Made in Germany***
- ***The Ideal Solution for the Safe Storage of Non-combustible Hazardous Materials.***
- ***Safety : Solid Polypropylene with the Highest Resistance against Acids***
- ***The Liquid-tight Pull-out Trays allow Easy Access to their Contents.***

∗ Safe, Separated Storage of Acids and Bases
∗ Materials with the Highest Resistance against Acids
∗ Liquid-tight Pull-out Trays can be used to safely Collect Large Quantities of Spilled Materials. Max. Load up to 30 kg.
∗ Continuous extraction inside the cabinet with or without Integrated Fan

(1) Tall Acid & Base Safety Cabinets, L-Hinged Door, 4 Trays, with/without Fan

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.377.00001	2 Doors, Left, 4 Pull-out Trays, w/o Fan, w600	w600×d520×h1920 mm	3,280,270
KO.377.00003	, with Fan, w600	〃	4,206,740

(2) Underbench Acid & Base Safety Cabinets, Hinged Doors, with Drawers & Pull-out Trays, with/without Fan

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.377.00006	1 Door, Right, 4 Pull-out Trays, w/o Fan, w600	w600×d515×h720 mm	1,372,880
KO.377.00007	2 Doors, 2 Drawers(L, R), w/o Fan, w600	〃	2,420,250
KO.377.00008	2 Doors, 2 Drawers(L, R), w/o Fan, w1100	w1100×d515×h720 mm	2,513,620
KO.377.00011	2 Doors, 1 Drawer(L), 2 Drawers(R), with Fan, w900	w900×d515×h720 mm	3,346,720
KO.377.00013	2 Doors, 1 Drawer(L), 2 Drawers(R), with Fan, w1200	w1200×d515×h720 mm	3,522,930

Kottermann® Exploris® Chemical Safety Cabinets, for Non-combustible Hazardous Material NEW with/without Fan, Tall & Underbench Type, 시약 보관 안전 케비닛, 비가연성/유독성 증기배출 시약 보관용



(1) Tall, 2 Doors



(3) Underbench, 2 Doors

- ***Made in Germany***
- ***Safe Storage of Non-combustible Hazardous Materials in Accordance with Relevant Regulations***
- ***Robust Steel Manufacture and Double Skinned, Soft-closing Doors***

∗ The Fumes from Stored Chemicals are effectively extracted so that they cannot contaminate the Air in the Laboratory
∗ Tall and Underbench Cabinets, Removable Shelves or Practical Drawers (Pull-out trays)
∗ The Ideal Solution for the Safe Storage of Non-combustible Hazardous Materials.
∗ Cabinets without a Fan should be connected to an Extraction System

(1) Tall Chemical Safety Cabinets, Hinged Doors, 4 Shelves, with/without Fan, w 600/900/1200 mm

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.375.00001	1 Hinged Door, Left, 4 Shelves, Lockable, without Fan, w600	w600×d516×h1920 mm	1,407,360
KO.375.00005	2 Hinged Door, 4 Shelves, Lockable, without Fan, w900	w900×d516×h1920 mm	1,725,390
KO.375.00007	, w1200	w1200×d516×h1920 mm	1,988,710
KO.375.00003	1 Hinged Door, Left, 4 Shelves, Lockable, with Fan, w600	w600×d516×h1920 mm	2,299,190
KO.375.00006	2 Hinged Door, 4 Shelves, Lockable, with Fan, w900	w900×d516×h1920 mm	2,618,060
KO.375.00008	, w1200	w1200×d516×h1920 mm	2,803,940

(2) Tall Chemical Safety Cabinets, Hinged Doors, 4 Trays, with/without Fan, w 600/900/1200 mm

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.375.00009	1 Hinged Door, Left, 4 Trays, Lockable, without Fan, w600	w600×d516×h1920 mm	1,854,250
KO.375.00013	2 Hinged Door, 4 Trays, Lockable, without Fan, w900	w900×d516×h1920 mm	2,263,870
KO.375.00015	, w1200	w1200×d516×h1920 mm	2,559,520
KO.375.00011	1 Hinged Door, Left, 4 Trays, Lockable, with Fan, w600	w600×d516×h1920 mm	2,744,130
KO.375.00014	2 Hinged Door, 4 Trays, Lockable, with Fan, w900	w900×d516×h1920 mm	3,153,750
KO.375.00016	, w1200	w1200×d516×h1920 mm	3,409,880

(3) Underbench Chemical Safety Cabinets, Hinged Doors, Removable 1 Shelf, without Fan, w 900/1200 mm

Cat. No.	Description	Dimensions	Price, Ea. ₩
KO.375.00019	2 Hinged Doors, 1 Shelf, Lockable, without Fan, w900	w900×d516×h720 mm	831,480
KO.375.00020	, w1200	w1200×d516×h720 mm	908,210

SciLab Korea

Shakers

Mixer - Special LAB ····· P. 195
- Vortex ····· P. 188~189
Rocker ····· P. 193
Rotator, for Erlenmeyer Flask / Test Tube ····· P. 194
Rotor, Tube Mix ····· P. 195
Shakers, Orbital Motion ····· P. 189~190
, Reciprocating Motion ····· P. 191
, Accessories(Platform) ····· P. 192

• Vortex Mixer



"WiseMix® SVM-10"

"WiseMix® SVM-100"

• Rocker



"WiseMix® SRK-1D"

• Tube Mix Rotor



"WiseRotor™ R5"

• Rotators



"WiseMix® SRT-10"

• Shakers, Orbital/Reciprocating



"WiseShake® SSO-1D"



"WiseShake® Shk-300"

"WiseShake® SSR-2D"

Articles	Cat. No	Description

SciLab-brand® Multifunction Vortex Mixer Set, *"WiseMix® SVM-10"*, Up to 3,300rpm, with Certi. & Traceability with Φ76mm(3 inch) Platform Head & Pop-off Cup Head, Variable Speed Control, Continuous or Touch-on Mixing

다용도 볼텍스 믹서, 다양한 속도 조절, 강력하고 안정된 동작과 저소음



Multifunction Vortex Mixer Set "WiseMix® SVM-10" with Φ76mm(3˝) Platform (PM110)



(1) Platform Head, Φ76mm(3inch) "PM110" (Included)



(2) Pop-off Cup Head "PM210" (Included)



(3) Microtube Platform Head, 0.5~2.0ml Tube "PM310" (Optional)



Remove Applicator (Included)

- ***Made in Korea*** ■ ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Mixing Solutions in Test Tubes or Small Flasks with Circular, Oscillating Movement***
- ***Variable Speed Control Allows Slow Speed Shaking Action up to High Speed Vortexing***
- ***PL (Product Liability) Insurance***

∗ Gentle Mixing to re-suspending Pellet
∗ Ideal for Mixing Solutions in Test Tubes or Small Flasks with Circular, Oscillating Movement
∗ Supplied with Φ76mm Platform and Pop-Off Cup
∗ Realize High Power, Stable Motion with Low Noise
∗ Tough Metal Housing Provides a Stable Platform for all types of Mixing
∗ 3-position Power Switch Operates with Continuous Action or "Touch On" Control
∗ Variable Speed Control Allows Slow Speed Shaking Action up to High Speed Vortex
∗ Aluminum Die-casting with Powder Coating
∗ Various Shapes, Sizes and Materials of the Head allows for mixing of almost all Common Tubes or Containers

Specifications & Ordering information

Spec. \ Model		"WIseMix® SVM-10"
Speed Range		0 ~ 3,300 rpm
Shaking Motion		Orbital
Control		Analog Phase Controller
Head		included Pop-off Cup Head and Φ76mm Platform
Material		Aluminum Die-casting with Powder Coating
Dimensions (w×d×h) (mm)		160×128×h145 mm
Weight		3 kg
Others		CE Certified 3-position Power Switch Operates Aluminum Die-casting with Powder Coating included Pop-off Cup Head and Φ76mm Platform
Packing Dimension (w×d×h) (mm)		260×200×h220 mm
Gross Weight		4 kg
Power Consumption		30 W
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz
Cat. No.	**230V, 60Hz**	**SL.SVM00010**
	230V, 50Hz	**SL.SVM00015**
	120V, 60Hz	**SL.SVM00020**
	120V, 50Hz	**SL.SVM00025**
Price, Each. ₩		188,000

∗ Other Specifications are available upon Customer' s Request.

Spare Platform Heads

		Ea. Price, ₩
DH.WVM00110	(1) Platform Head, **"PM110"**, Φ76mm(3inch)	11,000
DH.WVM00210	(2) Pop-off Cup Head, **"PM210"**	19,000

Optional Platform Heads

		Ea. Price, ₩
DH.WVM00310	(3) Microtube Platform Head(0.5~2.0ml), **"PM310"**	19,000

Articles	Cat. No	Description

SciLab-brand® Mini Vortex Mixer, *"WiseMix® SVM-100"*, Up to 3,200rpm NEW
with Silicone Head, Space Saving Compact Design, Variable Speed Control, **소형 볼텍스 믹서**



■ ***Quality Certification : ISO 9001***
■ ***Ideal for Mixing Solutions in Test Tubes Oscillating Movement***
∗ Mini Size saved the Space of Working Desk
∗ Variable Speed Control and Automatically Press Start
∗ Powerful and Quiet Vortex Mixing Action for Tubes up to 50ml
∗ Blue/Orange Silicon Top Head ∗ Max. Speed : 3,200 rpm ∗ Orbit : 4.5mm
∗ Overall Dimension & Weight(N.W./G.W.) : 55×173×h81 mm, 0.77 / 0.9 k

		Ea. Price, ₩
SL.SVM0100.B	Mini Vortex Mixer, VM-100, for 230V, Blue Silicon Head	198,000
SL.SVM0100.O	, Orange Silicon Head	198,000
SL.SVM0101.B	, for 110V, Blue Silicon Head	198,000
SL.SVM0101.O	, Orange Silicon Head	198,000

SciLab-brand® Analog Orbital Shaker, *"WiseShake® Shk-300"*, 10 Levels Speed Control/40~300rpm NEW
with 0~60min Timer, Useful Rubber Mat-/Universal-/-Well Plate-Platforms, Included Rubber Mat Platform, **궤도형 쉐이커**

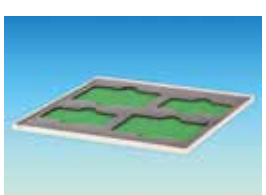


"WiseShake® Shk-300" 40~300rpm Orbital Shaker, with 0~60min Analog Timer

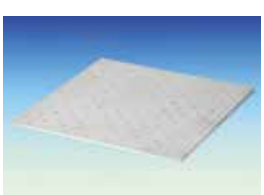
■ ***Made in Korea***
■ ***Stepless Speed Controller(10Levels Speed/40~300rpm)***
■ ***Ideal for Culturing Cells to Hybridization, Staining and Destaining Gels, and Combinatorial Chemistry, etc.***
∗ Brushless DC Motor : Low Noise and Long Life time
∗ Optimal Platform Rotation for Intensive Mixing
∗ Built in 0~60min Timer for User Convenience
∗ Useful Rubber Mat-/Universal-/Well Plate-Platforms
∗ Included Rubber Mat Platforms

Specifications & Ordering information

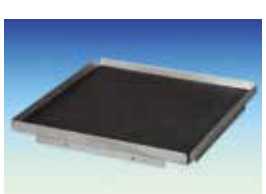
Spec. \ Model	"WiseShake® Shk-300"
Speed Range (rpm)	40~300 rpm, 10 Levels Speed Control
Shaking Motion	Orbital Motion
Motor	20W DC 12V Motor
Timer	0~60min Analog Timer/Continuous Run
Platform Size (mm)	285×285×h10 mm
Material	Powder-coated Steel
Electric Reqts.	AC230V, 50/60Hz
Cat. No. 230V	**SL.ShkO1300**
Price, Each. ₩	445,000



(1) PCR Plate Platform



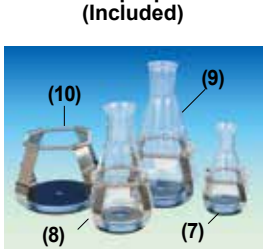
(2) Universal Platform, for Various Flask Holders



(3) Rubber Mat Platform, Multi-purpose (Included)



ABS Flask Holders "FH500"/"FH250"/"FH100"



STS Wire Spring Flask Holder

Optional or Spare Platforms/Flask Holders

		Ea. Price, ₩
DH.ShkO3001	(1) PCR Plate Platform, for PCR Plate, w285×d285mm	37,000
DH.WSO504100	(2) Universal Platform, for Flask Holder, w230×d230mm	76,000
DH.ShkO3003	(3) Rubber Mat Platform, Multi-use, w285×d285mm	37,000
DH.WIS504030	(4) ABS Flask Holder, **"FH100",** for 50~100ml Flask,	7,000
DH.WIS504035	(5) , **"FH250",** for 200~300ml Flask,	7,000
DH.WIS504040	(6) , **"FH500",** for 500~1000ml Flask,	8,000
DH.WIS600100	(7) STS Wire Spring Flask Holder, **"FHS100",** for 100ml Flask	9,000
DH.WIS600250	(8) , **"FHS250",** for 250ml Flask	10,000
DH.WIS600500	(9) , **"FHS500",** for 500ml Flask	10,000
DH.WIS601000	(10) , **"FHS1000",** for 1000ml Flask	13,000

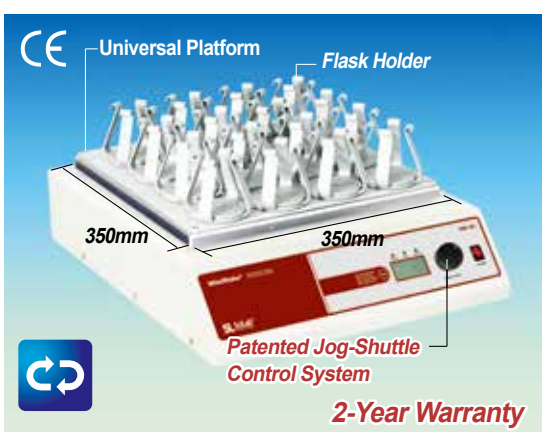
Articles	Cat. No	Description

SciLab-brand® Digital Orbital Shaker, *"WiseShake® SSO"*, 10~300 rpm, Low Noise & Long Life Cycle with Programmable Digital Feedback Control, Available Rubber Mat-/Universal-Platform, without Platform

디지털 궤도형 쉐이커, 저소음 및 긴 수명, 부드러운 시동 동작 및 속도 조절



(a) 230×230 mm Orbital Shaker "WiseShake® SSO-1D" with Rubber Mat Platform (Optional)



(b) 350×350 mm Orbital Shaker "WIseShake® SSO-2D" with Universal Platform (Optional)

The Details of Optional Platforms/ Flask Holders/Spring Racks : Please See 192Page

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Culturing Cells to Hybridization, Staining and Destaining Gels, and Combinatorial Chemistry***
- ***Patented Jog-Shuttle Control System***
- ***PL (Product Liability) Insurance***

* Hybridization, Washing Blots, Culturing Microbes
* Ideal for Culturing Cells to Hybridization, Staining and Destaining Gels, and Combination Chemistry
* Optimal Platform Rotation for Intensive Mixing
* Brushless DC Motor (Low Noise & Long Life Cycle)
* High Precision Digital Rotation Speed Control
* Programmable Operation Mode Supported
* Digital LCD with Back-Light Function
* Smooth Start and Change of Shaking Speed
* Universal Platform for Easy and Fast Fixation of Any Kind of Flasks and Bottles (Optional)
* Storage Function, Alarm & Overload Protection
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Variable accessories are available (Optional)

Specifications & Ordering information

Spec. \ Model		(a) "WiseShake® SSO-1D"	(b) "WiseShake® SSO-2D"
Shaking Platform Size		230×230 mm	350×350 mm
Shaking Motion		Orbital Motion	
Speed Range		10 ~ 300 rpm	
Max. Load		8 kg	10 kg
Amplitude of Rotation (mm)		10 mm	20 mm
Motor		Brushless DC Motor	
Permissible Ambient Temperature		Ambient +5 ~ 50℃	
Permissible Relative Moisture		85%	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Programmable Digital Feedback Controller with Jog-Shuttle Switch(Turn+Push)	
Program Function		10 Steps, 6 Programs	
Platform		Universal Platform for various Shapes & Size of Flask	
Max. Capacity of Flask Holder	For 50~100ml	9 ea	20 ea
	For 200~300ml	7 ea	16 ea
	For 500~1000ml	4 ea	9 ea
Holder		Durable & Flexible Plastic Flask holder	
Dimension (w×d×h) (mm)		250×330×150	400×480×160
Base Platform Size (mm)		230×230	350×350
Safety Circuit		Overload Protector for Motor	
Net Weight		14 kg	20 kg
Others		CE Certified, PL(Product Liability) Insurance Smooth Start and Change of the Stirring Speed for Stable Running Storage Function (Program, RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Size (w×d×h) (mm) & Gross Weight		450×350×250 18 kg	580×500×250 23 kg
Power Consumption		40 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80V~240V, 50/60Hz)	
Cat. No.	230V	**SL.SSO04010**	**SL.SSO04012**
	120V	**SL.SSO05010**	**SL.SSO05012**
Price, Each. ₩		708,000	779,000

* Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 9,000 별도!**

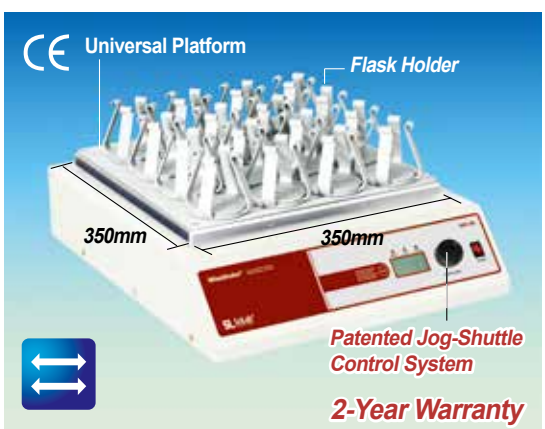
SciLab-brand® Digital Reciprocating Shaker, *"WiseShake® SSR"*, 10~300 rpm, Low Noise & Long Life Cycle

with Programmable Digital Feedback Control, Available Rubber Mat-/Universal-Platform, without Platform

디지털 왕복형 쉐이커, 저소음 및 긴 수명, 부드러운 시동 동작 및 속도 조절



(a) 230×230 mm Reciprocating Shaker "WiseShake® SSR-1D" with Rubber Mat Platform (Optional)



(b) 350×350 mm Reciprocating Shaker "WiseShake® SSR-2D" with Universal Platform (Optional)

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Culturing Cells to Hybridization, Staining and Destaining Gels, and Combinatorial Chemistry***
- ***Patented Jog-Shuttle Control System***
- ***PL(Product Liability) Insurance***

* Hybridization, Washing Blots, Culturing Microbes
* Ideal for Culturing Cells to Hybridization, Staining and Destaining Gels, and Combination Chemistry
* Optimal Platform Rotation for Intensive Mixing
* Brushless DC Motor (Low Noise & Long Life Cycle)
* High Precision Digital Rotation Speed Control
* Programmable Operation Mode Supported
* Digital LCD with Back-Light Function
* Smooth Start and Change of Shaking Speed
* Universal Platform for Easy and Fast Fixation of Any Kind of Flasks and Bottles (Optional)
* Storage Function, Alarm & Overload Protection
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Variable accessories are available (Optional)

Specifications & Ordering information

Spec. \ Model		(a) "WiseShake® SSR-1D"	(b) "WiseShake® SSR-2D"
Shaking Platform Size		230×230 mm	350×350 mm
Shaking Motion		Reciprocating	
Speed Range		10 ~ 300 rpm	
Max. Load		8 kg	10 kg
Amplitude of Rotation (mm)		10 mm	20 mm
Motor		Brushless DC Motor	
Permissible Ambient Temperature		Ambient +5 ~ 50℃	
Permissible Relative Moisture		85%	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Programmable Digital Feedback Controller with Jog-Shuttle Switch(Turn+Push)	
Program Function		10 Steps, 6 Programs	
Platform		Universal Platform for various Shapes & Size of Flask	
Max. Capacity of Flask Holder	For 50~100ml	9 ea	20 ea
	For 200~300ml	7 ea	16 ea
	For 500~1000ml	4 ea	9 ea
Holder		Durable & Flexible Plastic Flask holder	
Dimension (w×d×h) (mm)		250×330×150	400×480×160
Base Platform Size (mm)		230×230	350×350
Safety Circuit		Overload Protector for Motor	
Net Weight		14 kg	20 kg
Others		CE Certified, PL(Product Liability) Insurance Smooth Start and Change of the Stirring Speed for Stable Running Storage Function (Program, RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Size (w×d×h) (mm) & Gross Weight		450×350×250 18 kg	580×500×250 23 kg
Power Consumption		40 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80V~240V, 50/60Hz)	
Cat. No.	230V	**SL.SSR04020**	**SL.SSR04022**
	120V	**SL.SSR05020**	**SL.SSR05022**
Price, Each. ₩		718,000	774,000

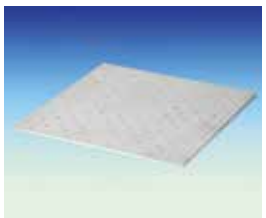
* Other Specifications are available upon Customer's Request.

※ **운임 약 ₩ 9,000 별도!**

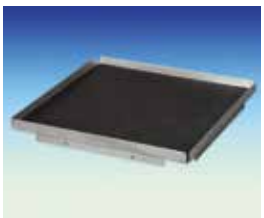
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Articles	Cat. No	Description

<*Continued From...* SciLab-brand® Digital Reciprocating Shaker, *"WiseShake® SSR"*>

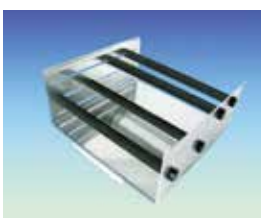


(1) Universal Platform "SP100" / "SP200"



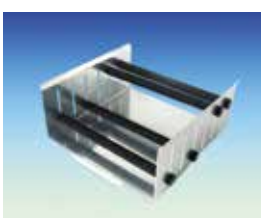
(2) Rubber Mat Platform "SP110" / "SP210"



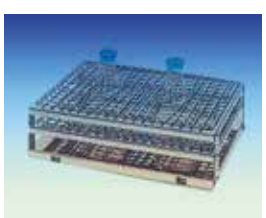


(3) Platform for Flasks "SP120" / "SP220"

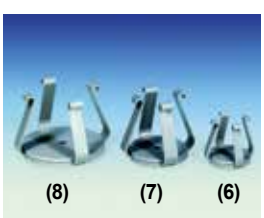




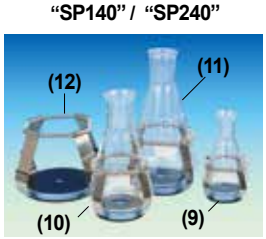
(4) Platform for Separatory Funnels "SP130" / "SP230"



(5) Universal Spring Rack "SP140" / "SP240"



ABS Flask Holders "FH500"/"FH250"/"FH100"



STS Wire Spring Flask Holder (Optional)

Optional Platforms/Flask Holders/Spring Racks

		Ea. Price, ₩
DH.WSO504100	(1) Universal Platform, **"SP100",** for **"SSO/SSR-1D",** w230×d230mm	76,000
DH.WSO504200	(1) Universal Platform, **"SP200",** for **"SSO/SSR-2D",** w350×d350mm	101,000
DH.WSO504110	(2) Rubber Mat Platform, **"SP110",** for **"SSO/SSR-1D",** w270×d270mm	37,000
DH.WSO504210	(2) Rubber Mat Platform, **"SP210",** for **"SSO/SSR-2D",** w370×d370mm	56,000
DH.WSO504120	(3) Platform for Flasks, **"SP120",** for **"SSO/SSR-1D",** w350×d230×h153mm	120,000
DH.WSO504220	(3) Platform for Flasks, **"SP220",** for **"SSO/SSR-2D",** w350×d350×h153mm	134,000
DH.WSO504130	(4) Platform for Separatory Funnels, **"SP130"** for **"SSO/SSR-1D",** w350×d235×h174mm	123,000
DH.WSO504230	(4) Platform for Separatory Funnels, **"SP230"** for **"SSO/SSR-2D",** w351×d355×h174mm	141,000

		Ea. Price, ₩
DH.WSO504140	(5) Universal Spring Rack, **"SP140"** for **SSO/SSR-1D,** w270×d270×h100mm	148,000
DH.WSO504240	(5) Universal Spring Rack, **"SP240"** for **SSO/SSR-2D,** w370×d370×h100mm	279,000
DH.WIS504030	(6) ABS Flask Holder, **"FH100",** for 50~100ml Flask, for **"SSO", "SSR"** and **"IS"**	7,000
DH.WIS504035	(7) ABS Flask Holder, **"FH250",** for 200~300ml Flask, for **"SSO", "SSR"** and **"IS"**	7,000
DH.WIS504040	(8) ABS Flask Holder, **"FH500",** for 500~1000ml Flask, for **"SSO", "SSR"** and **"IS"**	8,000
DH.WIS600100	(9) STS Wire Spring Flask Holder, **"FHS100",** for 100ml Flask for **"SSO", "SSR"** and **"IS"**	9,000
DH.WIS600250	(10) STS Wire Spring Flask Holder, **"FHS250",** for 250ml Flask for **"SSO", "SSR"** and **"IS"**	10,000
DH.WIS600500	(11) STS Wire Spring Flask Holder, **"FHS500",** for 500ml Flask for **"SSO", "SSR"** and **"IS"**	10,000
DH.WIS601000	(12) STS Wire Spring Flask Holder, **"FHS1000",** for 1000ml Flask for **"SSO", "SSR"** and **"IS"**	13,000

Platform Selection Guide

APPLICATION	PLATFORM	HOLDER
Culturing Microbes Mixed with Erlenmeyer Flask	**Universal Platform** SP100 for SSO/SSR-1D SP200 for SSO/SSR-2D	**Flask Holder** FH100 (50~100ml),FH250(200~300ml) FH500 (500~1000ml), FHS100(100ml), FHS250(250ml), FHS500(500ml), FHS1000(1000ml)
Staining/Destaining Gel, Washing Blots Gentle Mixing(Shaking)	**Rubber Mat Platform** SP110 for SSO/SSR-1D SP320 for SSO/SSR-2D	
Mixed Sample, Combination Chemistry Combinatorial Chemistry, with Round Flask	**Platform for Flask** SP120 for SSO/SSR-1D SP220 for SSO/SSR-2D	
Combinatorial Chemistry with Separatory Funnel	**Platform for Separatory Funnels** SP130 for SSO/SSR-1D SP230 for SSO/SSR-2D	
with Variety of Size Flask & Bottle	**Universal Spring Rack** SP140for SSO/SSR-1D SP240 for SSO/SSR-2D	

SciLab-brand® Programmable Digital Rockers, *"WiseMix® SRK"*, Digital Feedback Control, 5~50 rpm with 290×200mm or 300×300mm Platform, Smooth Start & Wave Motion, Tilt Angle ±6°/±9°

디지털 락커, 디지털 피드백 컨트롤 시스템, 부드러운 시동 동작 및 속도 조절



(1) 290×200 mm Rocker with Platform "WiseMix® SRK-1D"



(2) 300×300 mm Rocker with Platform "WiseMix® SRK-2D" with Second Platform(Optional)

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***High Precision Digital Speed Control : 1rpm***
- ***Patented Jog-Shuttle Control System***
- ***PL (Product Liability) Insurance***

* Gel Staining, Destaining, Blotting
* Cell Culture, Hybridization, Washing
* High Precision Digital Speed Control : 1rpm
* Programmable Operation Mode Supported : 10 Steps and 6 Programs
* Digital Timer : Max. 99hr 59min
* Digital LCD with Back-Light Function for Timer, RPM and Power Bar-Graph
* Smooth Start and Change of Rocking Speed
* Overload Protection Function for Motor
* Storage Function for Set Values : RPM and Timer
* Alarm Function : Error Status and Timer-end
* Stainless steel Platform Comes with Gray Nonslip Rubber Pad
* Stackable Platform with Pad to Double Mixing Area (Optional)
* Locking Mode supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)

Specifications & Ordering information

Spec. \ Model		(1) "WiseMix® SRK-1D"	(2) "WiseMix® SRK-2D"
Dimensions (w×d×h)	Platform (mm)	290×200	300×300
	Overall (mm)	290×240×150	300×330×150
Speed Range (rpm)		5 ~ 50	
Angle (degree)		±6 or ±9 (±9 as Factory Default)	
Motor		14W Geared DC Motor	
Program Function		10 Steps, 6 Programs	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Programmable Digital Feedback Controller with Jog-Shuttle Switch(Turn+Push)	
Safety Circuit		Overload Protector for motor	
Platform		Included Platform(290×200mm)	Included Platform(300×300mm)
Others		CE Certified, PL(Product Liability) Insurance Smooth Start and Change of the Stirring Speed for Stable Running Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Dimension (w×d×h) (mm)		450×350×250	
Gross Weight		7 kg	8 kg
Power Consumption		35 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80V~240V, 50/60Hz)	
Cat. No.	230V	**SL.SRK01010**	**SL.SRK01020**
	120V	**SL.SRK02010**	**SL.SRK02020**
Price, Each. ₩		476,000	486,000

* **Other Specifications are available upon Customer's Request.**

Optional Second Platform

		Ea. Price, ₩
DH.WRK05011	Second Platform, **"RK5011"**, for **"SRK-1D"**, w290×d200, with 4 Pillars(L120mm)	42,000
DH.WRK05021	Second Platform, **"RK5021"**, for **"SRK-2D"**, w300×d300, with 4 Pillars(L120mm)	49,000

SciLab-brand® Programmable Digital Rotator, *"WiseMix® SRT-10"*, 0~90° Mixing Angle, 5~60rpm

with Digital Feedback Control, Adjustable Speed & Angle of Rotation, Continuous or Timed Operation

디지털 로테이터, 디지털 피드백 컨트롤 시스템, 회전각 및 회전속도 조절 가능



Programmable Digital Rotator "WiseMix® SRT-10" with 1.5ml×32ea Disk (WRT120)

- ***Made in Korea***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Adjustable Speed and Angle of Rotation : 0 to 90°***
- ***Patented Jog-Shuttle Control System***
- ***PL (Product Liability) Insurance***

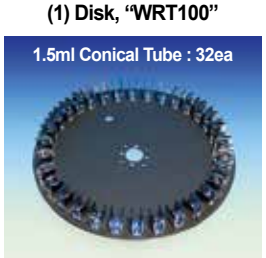
* General Mixing, Diffusing, Dialyzing and Hybridization, Aerating Culture
* Keeping Biological Samples in Suspension
* Adjustable Speed and Angle of Rotation : 0 to 90°
* Digital Feedback Control: Steady and Constant Rotating
* Continuous or Timed Operation
* Digital LCD with Back-Light Function
* Programmable Operation Mode Supported : 10 Steps and 6 Programs
* Overload Protection for motor
* Smooth Start and Change of Stirring Speed
* Storage Function for Set values of RPM and Time
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Durable Construction for Long-Term Operation
* 5 Different Disks and 3 Roller Drums(Optional)
* Disk for 250ml Flask is available



(1) Disk, "WRT100"



(2) Disk, "WRT110"



(3) Disk, "WRT120"



(4) Disk, "WRT130"



(5) Disk, "WRT140"



(6) Knob & Post "WRT300" (Included)

Specifications & Ordering information

Spec. \ Model		"WiseMix® SRT-10"
Speed range		5~ 60 rpm
Angle range		0°~ 90°
Motor		35W
Program Function		10 Steps, 6 Programs
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end
Display		Digital LCD with Back-Light Function
Controller		Programmable Digital Feedback Controller with Jog-Shuttle
Temp. Resistance		Lower than 65℃ (Dry Air)
Safety Circuit		Overload Protector for motor
Dimensions (w×d×h) (mm)		200×250×h260 mm
Weight		6 kg
Others		PL(Product Liability) Insurance Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) User Self-compensation Function, Alarm (Error Status and Timer-end)
Packing Size (w×d×h) (mm) & Gross Weight		370×240×h430 mm
		8.5 kg
Power Consumption		40 W
Electrical Reqts.		1 Phase, AC 120V, 60Hz or AC 230V, 50 / 60Hz
Cat. No.	230V	**SL.SRT00010**
	120V	**SL.SRT00020**
Price, Each. ₩		643,000

* **Other Specifications are available upon Customer's Request.**

Optional Disk & Roller Drum

			Ea. Price, ₩
DH.WRT00100	(1) Disk,	**"WRT100"**, for 50ml conical tube×8ea	59,000
DH.WRT00110	(2)	, **"WRT110"**, for 15ml conical tube×16ea	79,000
DH.WRT00120	(3)	, **"WRT120"**, for 1.5ml conical/centrifuge Tube×32ea	105,000
DH.WRT00130	(4)	, **"WRT130"**, for 1.5ml conical/centrifuge Tube×60ea	165,000
DH.WRT00140	(5)	, **"WRT140"**, 250ml Flask-capacity×4ea	48,000

Spare Knob & Post

		Ea. Price, ₩
DH.WRT00300	(6) 4×knobs & 4×Post, **"WRT300"**, for Installing Disk	45,000

SciLab-brand® Tube Mix Rotor, *"WiseRotor™ R5"*, with 5×Mixing Rollers, Rocking & Rolling-motion, Fixed 40rpm NEW
Ideal for 15~50㎖ Test Tube, with Timer / Minimum Noise Motor / Cooling Pan / 0~60min Timer, 튜브 믹싱 로타



"WiseRotor™ R5" Mix Rotor, 40rpm, 5×Mixing Rollers

■ ***Made in Korea*** ■ ***with 5×Mixing Rollers(φ32×L325mm)***
■ ***Ideal for Mixing Blood Samples, Viscous Substances and Liquid-Solid Suspensions, Use in a Variety of Applications, Prevention of Blood Coagulation and Immune Precipitation, etc.***
■ ***Rocking & Rolling Mixing-motion for Complete Sample Mixing***
* Stability Mixing Motion and Built in Minimize Noise AC Synchronous Motor
* Built in Cooling Pan Protecting Over Temperature for Long Operating Time.
* Can Use with 8ea×15ml Test Tubes or 8ea×50ml Test Tubes
* Built in 99hr 59min Timer for User Convenience * Stability Fixed 40rpm Mixing Speed
* Can be Used in Cold Lab Chambers or Incubators

Specifications & Ordering information

Spec. \ Model		"WiseRotor™ R5"
No. of Mixing Roller		5ea×Mixing Rollers
Mixing Roller Size & Material		φ32×L325 mm, PVC
Mixing Speed		Fixed 40rpm
Motor		AC Synchronous Motor, 12W
Timer		0~60min Analog Timer/Continuous Run
Material(Body)		Powder-coated Steel
Dimension & Weight		490×220×h100 mm, 3 kg
Electric Reqts.		AC230V, 50/60Hz
Cat. No.	230V	SL.MixR0050
Price, Each. ₩		440,000

SciLab-brand® LAB Special Mixer, *"WiseRotor™ SM-100"*, Precision-controlled Rocking Motion, Up to 24rpm NEW
with Rubber Cushion Platform, Continuous Operation, 랩 믹서



■ ***Quality Certification : ISO 9001***
* Easy to load and unload the Test Tubes without Turning the Mixer Off.
* Rubber Cushion preventing the Test Tubes from Slipping.
* Widely used in Hematology, Chemistry, Research and Bacteriology Laboratories.
* Smooth, Steady, Quiet, and Continuous Operation * Platform Dimension : w300×d115 mm
* Tube Capacity : 30ea/1.5ml Micro-tube, 15ea/15ml Conical Tube, 8ea/50ml Conical Tube
* Speed : 24rpm at 60Hz / 20rpm at 50Hz
* Overall Dimension & Weight(N.W./G.W.) : w350×d140×h110 mm, 1.5 / 2.0 kg

		Ea.	Price, ₩
SL.MixM0100	LAB Special Mixer, Up to 24 rpm, MixM-100, for 230V		315,000
SL.MixM0101	, MixM-101, for 120V		315,000

SciLab Korea

Stirrers

Magnetic Stirrers, Magnetic Stirring ····· P. 197~200
, Magnetic Stirring with Heating ····· P. 201~204
Overhead Stirrers, High Speed-type ····· P. 206~208
, High Torque-type ····· P. 209~211
, Jar Tester/6-paddle Stirrer ····· P. 212
, Accessories(Stirrer Guide/Stirring Rod) P. 212~214
, Accessories(Impellers/Stands) ····· P. 215~219

• Magnetic Stirrers & Hotplate Stirrers



"SMSH-500"

"SMS-20D"

"SMS-20A"

• High Speed Overhead Stirrer



"SHS-30D-Set"

• High Torque Overhead Stirrer



"SHT-50DX"

• Multi-point Magnetic Stirrers



"SMS-MP8"

• Jar Tester/6-paddle Stirrer



"SJT-M6C"

SciLab-brand® Hi-performance Digital Magnetic Stirrers, *"WiseStir® SMS-500S"*, Shade Motor, Max. 80~1,500 rpm with Solid Ceramic Glass Plate, 200×200mm, Touch-button Controller, Digital Feedback Control, Precise Speed Control, Max 20Lit

고성능 디지털 자력 교반기, 디지털 피드백 제어, 초강력 쉐이드 모터



Hi-Performance Digital Magnetic Stirrer "WiseStir® SMS-500S"

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Feedback Control by High-Performance Microprocessor***
- ***High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean***
- ***Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control***
- ***Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate.***
- ***Ergonomic Design*** ***PL (Product Liability) Insurance***

∗ Mixing for Chemical, Laboratory, Pharmaceutical Materials
∗ Storage Function for the set Values : RPM and Timer
∗ Minimization of Noise and Improved the Product Life
∗ Use of the Special Advanced Insulation for the safety of the Body Temp.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
∗ Digital LCD with Back Light Function ∗ Digital Timer Function(99hr 59min)
∗ Ergonomic Design of Body made by Aluminum Die-casting
∗ Free Voltage(AC 80V~240V, 50/60Hz) by SMPS

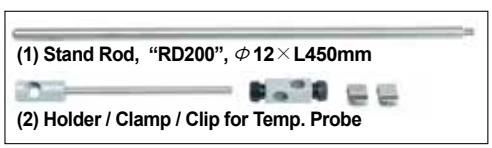


New Generation Controller of "WiseStir® SMS-500S"

Specifications & Ordering information

Spec. \ Model		"WiseStir® SMS-500S"
Material	Body	Powder Coated Aluminum
	Plate	Solid Ceramic Glass Plate, 200×200mm
Stirring Capa.		Max. 20 Lit.
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end
Display		Digital LCD with Back-Light Function
Controller		Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.
Stirring Bar		3cm bar-included, Usable : up to 5cm bar
Safety Circuit		Over Temp. Protection Hot Top Indicator LED Lamp
Permissible Temp. & RH %		Room Temp. +5 ~ 50℃, 85% RH
Dimension & Weight		205×345×h135mm, 3.3kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	**SL.SMS04022**
	120V	**SL.SMS05022**
Price, Each. ₩		347,000

∗ Other Specifications are available upon Customer's Request.



Optional Stand Rod/Holder/Clamp/Clip

		Ea. Price, ₩
DH.WHP503036	(1) Stand Rod, **"RD200"**, Stainless-steel, screw, Φ12×L450mm, for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS"**	20,000
DH.WHP503012	(2) Holder/Clamp/Clip, **"CL220",** for Temp. Probe	25,000

SciLab-brand® Digital Magnetic Stirrer, *"WiseStir® SMS-20D"*, 180×180mm Ceramic-Coated Plate, with Certi. & Traceability with Digital Feedback Control System, Precise Speed Control, Back Light LCD Display, 80~1,500 rpm, Max. 20 Lit

디지털 자력교반기, 디지털 피드백 컨트롤 시스템, 세라믹 코팅 플레이트



Premium Magnetic Stirrer "WiseStir® SMS-20D"



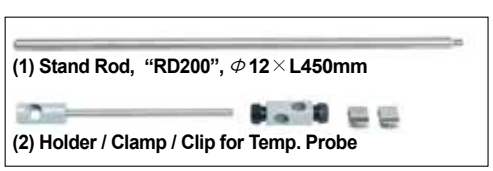
Generation Controller of "WiseStir® SMS-20D"

- ■ ***Made in Korea*** ■ ***CE Certified***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Digital Feedback Control by High-Performance Microprocessor***
- ■ ***Ceramic Coated Plate-Chemical/Acid Resistance***
- ■ ***Patented Jog-Shuttle Control System***
- ■ ***PL (Product Liability) Insurance***
- ∗ Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- ∗ Mixing for Chemical, Laboratory, Pharmaceutical Materials
- ∗ Digital Feedback Control by High-Performance Microprocessor
- ∗ Digital LCD with Back-Light Function
- ∗ Smart Design of Body made by Aluminum Die-Casting (MS-20D)
- ∗ Ceramic Coated Plate-Chemical/Acid Resistance
- ∗ Storage function for the set values : RPM and Time
- ∗ Digital Timer Function (99hr 59min)
- ∗ Alarm Function : Error Status and Timer-End
- ∗ Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- ∗ Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS

Specifications & Ordering information

Spec. \ Model		"WiseStir® SMS-20D"
Plate Size (mm)		180×180
Stirring Capacity (H_2O)		Max. 20Lit.
Speed Range		80 ~ 1,500 rpm
Motor Rating		9 / 4 W
Speed Accuracy (%)		± 5
Speed Control Resolution		5 rpm
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end
Display		Digital LCD with Back-Light Function
Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)
Stirring Bar		3cm bar-included, Usable : up to 5cm bar
Permissible Ambient Temperature		Room Temp. +5 ~ 50℃
Permissible Relative Moisture		85%
Material	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance)
	Body	Powder Coated Aluminum
Dimension (w×d×h) (mm)		206×307×99
Weight (kg)		3.1 kg
Others		CE Certified, PL(Product Liability) Insurance Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)
Packing Size (w×d×h) (mm) & Gross Weight		400×280×200
		5 kg
Power Consumption		10 W
Electrical Reqts.		Free Voltage (1 Phase, AC 80 ~ 240 V, 50 / 60 Hz)
Cat. No.	230V	**SL.SMS03022**
	120V	**SL.SMS02022**
Price, Each. ₩		229,000

∗ **Other Specifications are available upon Customer's Request.**



Optional Stand Rod/Holder/Clamp/Clip

		Ea. Price, ₩
DH.WHP503036	(1) Stand Rod, **"RD200"**, Stainless-steel, screw, Φ12×L450mm, for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS"**	20,000
DH.WHP503012	(2) Holder/Clamp/Clip, **"CL220"**, for Temp. Probe	25,000

SciLab-brand® Analog Premium Magnetic Stirrer, *"WiseStir® SMS-20A"*, 180×180mm Ceramic-Coated Plate

with PWM Control System, Precise Speed Control, Ceramic Coated Al-Plate, up to 1,500 rpm, Max. 20 Lit, with Certi. & Traceability

아날로그 자력교반기, PWM 컨트롤 시스템, 세라믹 코팅 플레이트



Premium Magnetic Stirrer with Stir Bar
"WiseStir® SMS-20A"

- ■ ***Made in Korea*** ■ ***CE Certified***
- ■ ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ■ ***Ceramic Coated Plate-Chemical/Acid Resistance***
- ■ ***PL (Product Liability) Insurance***

* Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
* Mixing for Chemical, Laboratory, Pharmaceutical Materials
* Superior Linearity for the Control of Stirring Speed by Specially Designed Control Circuitry (PWM Control)
* Smart Design of Body : Made by Aluminum Die-Casting
* Powerful Motor for Stirring Quantities of up to 20Lit. (Water)
* Ceramic Coated Plate-Chemical/Acid Resistance
* Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS
* Included 1ea 3cm Magnetic Stirrer Bar

Specifications & Ordering information

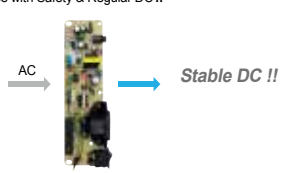
Spec. \ Model		"WiseStir® SMS-20A"
Plate Size (mm)		180×180
Stirring Capacity (H_2O)		Max. 20Lit.
Speed Range		Max. 1,500 rpm
Motor Rating		9 / 4 W
Controller		Superior Linearity PWM Controller
Stirring Bar		3cm bar-included, Usable : up to 5cm bar
Permissible Ambient Temperature		Room Temp. +5 ~ 50℃
Permissible Relative Moisture		85%
Material	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance)
	Body	Powder Coated Aluminum
Dimension (w×d×h) (mm)		206×307×99
Weight (kg)		3.1 kg
Others		CE Certified PL(Product Liability) Insurance
Packing Size (w×d×h) (mm) & Gross Weight		400×280×200 5 kg
Power Consumption		10 W
Electrical Reqts.		Free Voltage (1 Phase, AC 80 ~ 240 V, 50 / 60 Hz)
Cat. No.	230V	**SL.SMS03122**
	120V	**SL.SMS02122**
Price, Each. ₩		186,000

* **Other Specifications are available upon Customer's Request.**

Specialized Features

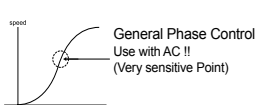
Long Life Power & Mechanism!

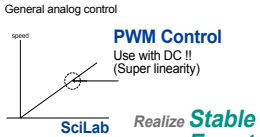
SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC !!



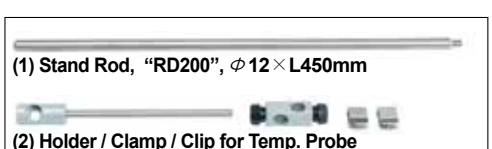
SSR (Solid State Relay)-Non Contact
No Electronic Harm!
Realize ***Long Life Cycle!***

High Stability in Very Low & High-speed





Realize ***Stable & Easy to Use!***



Optional Stand Rod/Holder/Clamp/Clip

		Ea. Price, ₩
DH.WHP503036	(1) Stand Rod, **"RD200"**, Stainless-steel, screw, Φ12×L450mm, for **"SHP-20A/20D"**, **"SMSH-20A/20D"**, and **"SSMHS"**	20,000
DH.WHP503012	(2) Holder/Clamp/Clip, **"CL220"**, for Temp. Probe	25,000

Articles	Cat. No	Description

SciLab-brand® Digital Multi-point Magnetic Stirrers, *"WiseStir® SMS-MP"*, 4-/8- Points, Max. 500ml per Point with Digital Feedback Control System, Digital LCD Display, Synchronous Operation, 80~1,200 rpm, with Certi. & Traceability

4-/8-멀티포인트 디지털 자력교반기, 디지털 피드백 컨트롤 시스템



(1) 4-Point Stirrer, Digital Multi-Point Magnetic Stirrer "WiseStir® SMS-MP4"



(2) 8-Point Stirrer, Digital Multi-Point Magnetic Stirrer "WiseStir® SMS-MP8"

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideally Suitable for Use in Incubators and Climatic Chambers***
- ***Excellent for Multi-use and wide range of Sample Testing***
- ***Patented Jog-Shuttle Control System***
- ***PL (Product Liability) Insurance***

∗ Ideally Suitable for Use in Incubators and Climatic Chambers
∗ Excellent for Multi-use and wide range for Sample Testing
∗ Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
∗ Synchronous Operation of 4 / 8 Stirring Points
∗ Increased Effectiveness by Microprocessor Control
∗ Digital LCD with Back-Light Function
∗ Up to 0.5 Lit. Stirring Capacity per Point
∗ Smooth Start and Change of Stirring Speed
∗ Digital Timer Function (99 hr 59 min)
∗ Storage Function for the Set Values : RPM and Timer
∗ Extraordinary Mechanical, Physical and Chemical Resistance
∗ Locking Mode supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
∗ Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS

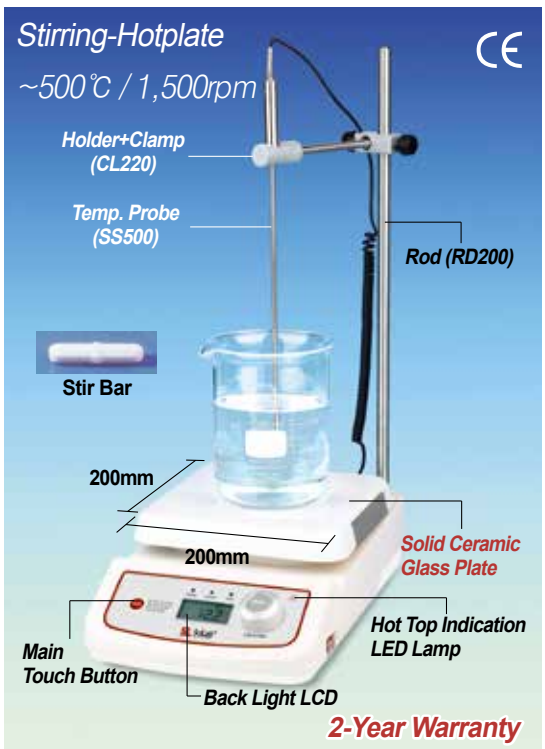
Specifications & Ordering information

Spec. \ Model		(1) "WiseStir® SMS-MP4"	(2) "WiseStir® SMS-MP8"
Number of Stirring Points		4 (2×2) Stirring Points	8 (4×2) Stirring Points
Plate Size (mm)		210×300	210×500
Stirring Capacity (H_2O)		Max. 0.5 Lit. per Point	
Distance between Stirring Points		100 mm	
Speed Range		80 ~ 1,200 rpm	
Motor Rating		16/9 W	
Speed Control Resolution		5 rpm	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)	
Stirring Bar		4ea 3cm bar-included, Usable : up to 3cm bar	8ea 3cm bar-included, Usable : up to 3cm bar
Permissible Ambient Temperature		Room Temp. +5 ~ 50℃	
Permissible Relative Moisture		85%	
Material	Plate	Stainless-steel (#304)	
	Body	Power Coated Steel	
Dimension (w×d×h) (mm)		210×300×65	210×500×65
Weight		2.5 kg	3.5 kg
Others		CE Certified, PL(Product Liability) Insurance Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Size (w×d×h) (mm) & Gross Weight		330×300×180	540×330×180
		6 kg	
Power Consumption		20 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80 ~ 240 V, 50 / 60 Hz)	
Cat. No.	230V	**SL.SMS03036**	**SL.SMS03038**
	120V	**SL.SMS02036**	**SL.SMS02038**
Price, Each. ₩		360,000	441,000

∗ **Other Specifications are available upon Customer's Request.**

SciLab-brand® 500℃ Hi-Temp. Digital Hotplate Stirrers, *"WiseTherm® SMSH-500"*, Solid Ceramic Glass Plate, 200×200mm with Digital Feedback Control, Accurate Temp. Control, Touch-button Controller, Hot Top Indicator, 80 ~ 1,500rpm, Max. 500℃, ±0.3℃

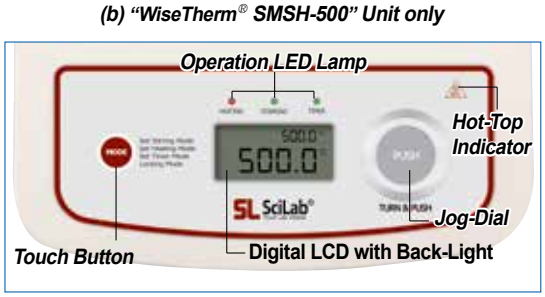
고온용 디지털 가열 자력 교반기, 디지털 피드백 온도 제어, 내열성/내화학성/내산성 솔리드 세라믹 글라스 플레이트



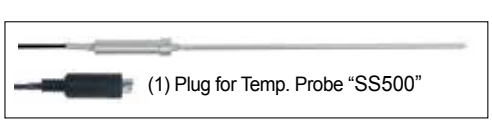
(a) "WiseTherm® SMSH-500" Package-set



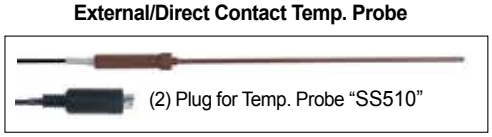
(b) "WiseTherm® SMSH-500" Unit only



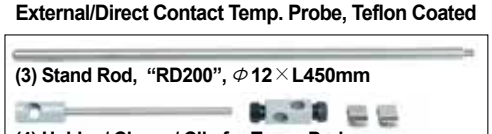
New Generation Controller of "WiseTherm® SMSH-500" model



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean***
- ***Maximum Temperature of 500℃*** ■ ***Ergonomic Design***
- ***Digital Feedback Control by High-Performance Microprocessor***
- ***Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate. with Back-Light Function***
- ***2×Internal K-type Temp. Sensor Operating Independently : 1×Temp. Control Sensor for Temperature Accuracy and 1×Over Temp. Detection Sensor for User Safety***
- ***Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control, Minimization Noise***
- ***Hot Top Indicator LED Lamp : Hot Surface(Over 50℃) Warning Lamp for User Safety***

∗ User's Self -Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
∗ Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
∗ Storage Function for the set Values: Temp. and Timer
∗ Use of the Special Advanced Insulation for the safety of the Body Temp.
∗ Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
∗ Digital LCD with Back Light Function ∗ Digital Timer Function(99hr 59min)

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SMSH-500" (Package-set)	(b) "WiseTherm® SMSH-500" (Unit Only)
Material	Body	Powder Coated Aluminum	
	Plate	Solid Ceramic Glass Plate, 200×200mm	
Stirring Capa.		Max. 20 Lit.	
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 500℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power / Consumption		850W	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Safety Circuit		Over Temp. Protection, Hot Top Indicator LED Lamp	
included Standard Acc.		Unit, ∗External Temp Probe-set, with 1ea Stir Bar	Unit with 1ea Stir Bar
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		205×345×h135mm, 3.3kg	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug	
Cat. No.	230V	**SL.SMH04020**	**SL.SMH05020**
	120V	**SL.SMH04021**	**SL.SMH05021**
Price, Each. ₩		487,000	424,000

∗ Other Specifications are available upon Customer's Request.

Component of Package-set

∗ Package-set : ① Hotplate Unit ② **"SS500"** PT100 External / Direct Contact Temp. Probe,
③ **"RD200"** Stainless steel Support Rod Φ12×L450mm
④ **"CL220"** Holder+Clamp for External Temp. Probe

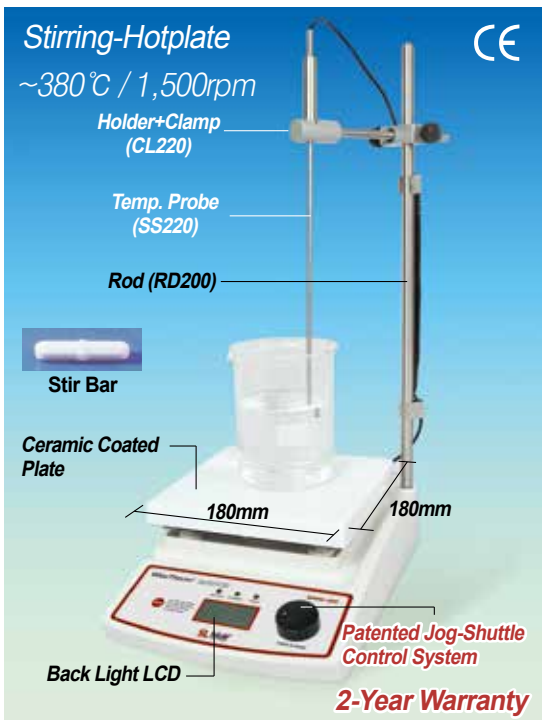
Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503060	(1) Direct Contact Temp. Probe, **"SS500", "PT100"**, Probe Φ4×L250mm, Cable L190mm, for **"SHP-500H", "SMSH-500"**	54,000
DH.WHP503061	(2) Direct Contact **Teflon Coated** Temp. Probe, **"SS510"**, Probe Φ4×L250mm, Cable L190mm, for **"SHP-500H", "SMSH-500"**	65,000
DH.WHP503036	(3) Stand Rod, **"RD200"**, Stainless steel, Φ12×L450mm, Screw, for **"SHP-500H", "SMSH-500"**	20,000
DH.WHP503012	(4) Holder/Clamp/Clip, **"CL220"**, for Temp. Probe	25,000

Articles	Cat. No	Description

SciLab-brand® 380℃ Digital Hotplate Stirrer, *"WiseTherm® SMSH-D"*, Ceramic-Coated Plate, ±0.3℃, with Certi. & Traceability with Digital Feedback Control, Accurate Temp. Control, 180×180mm- or 260×260mm-Plate, 80 ~ 1,500 rpm

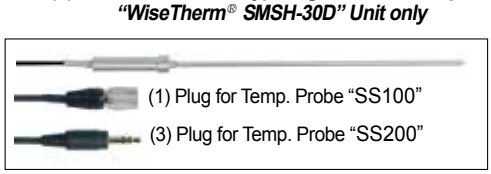
디지털 가열 자력 교반기, 디지털 피드백 온도 제어, 우수한 온도균일성, 세라믹 코팅 플레이트



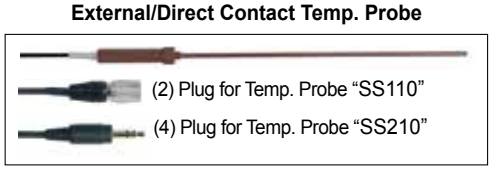
(a) 180×180mm Plate-type Digital Precise Hotplate "WiseTherm® SMSH-20D" Package-set



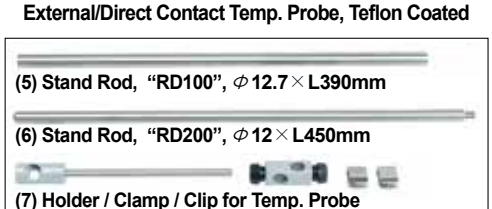
(b) 180×180mm Plate-type Digital Precise Hotplate "WiseTherm® SMSH-30D" Unit only



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified (SMSH-20D)*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Digital Feedback Control by High-Performance Microprocessor***
- ***Patented Jog-Shuttle Control System***

* User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
* Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
* Storage Function for the set Values : Temp. and Timer
* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
* Superior Temperature Uniformity : less than10% on the Plate at Ambient Temperature

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SMSH-20D"	(b) "WiseTherm® SMSH-30D"
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 380℃, ±0.3℃ at Set Temperature	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1.2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Safety Circuit		Over Temp. Protection	
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		206×307×h99mm, 3.3kg	286×387×h99mm, 3.5kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Unit Only			
Cat. No.	230V	**SL.SMH03020**	**SL.SMH03022**
	120V	**SL.SMH02020**	**SL.SMH02022**
Price, Each. ₩		275,000	445,000
*** External Temp. Probe Package-set**			
Cat. No.	230V	**SL.SMH03021**	**SL.SMH03023**
	120V	**SL.SMH02021**	**SL.SMH02023**
Price, Each. ₩		338,000	541,000

*** Other Specifications are available upon Customer's Request.**

Component of Package-set

* **"SMSH-20D"** Package-set : Complete with ① Hotplate Unit ② : **"SS200"** PT100 External / Direct Contact Temp. Probe, ③ **"RD200"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe
* **"SMSH-30D"** Package-set : Complete with ① Hotplate Unit ② : **"SS100"** PT100 External / Direct Contact Temp. Probe, ③ **"RD100"** Stainless steel Support Rod Φ12×L450mm ④ **"CL220"** Holder+Clamp for External Temp. Probe

Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503020	(1) External / Direct Contact Temp. Probe, **"SS100"**, PT100, for **"SHP-30D"**, **"SMSH-30D"** and **"SSMHS"** Probe Φ4×L250mm, Cable L190mm	69,000
DH.WHP503021	(2) External / Direct Contact Temp. Probe, **"SS110"**, PT100, **Teflon Coated**, for **"SHP-30D"**, **"SMSH-30D"** and **"SSMHS"**, Probe Φ4×L250mm, Cable L190mm	80,000
DH.WHP503030	(3) External / Direct Contact Temp. Probe, **"SS200"**, PT100, for **"SHP-20D"**, **"SMSH-20D"** Probe Φ4×L250mm, Cable L190mm	51,000
DH.WHP503031	(4) External / Direct Contact Temp. Probe, **"SS210"**, PT100, **Teflon Coated**, for **"SHP-20D"**, **"SMSH-20D"** Probe Φ4×L250mm, Cable L190mm	62,000
DH.WHP503011	(5) Stand Rod, **"RD100"**, Stainless steel, Φ12.7×L450mm for **"SHP-30A/30D"**, **"SMSH-30A/30D"**, Non-screw	10,000
DH.WHP503036	(6) Stand Rod, **"RD200"**, Stainless steel, Φ12×L450mm for **"SHP-20D"**, **"SMSH-20D"**, and **"SSMHS"**	20,000
DH.WHP503012	(7) Holder/ Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

SciLab-brand® 380℃ Analog Premium Hotplate Stirrer, *"WiseTherm® SMSH-A"*, Ceramic-Coated Plate, 1,500 rpm

Built-in Linearity PWM Controller, Superior Temperature Uniformity, Precise Control of Temp. & RPM, 180×180mm or 260×260mm

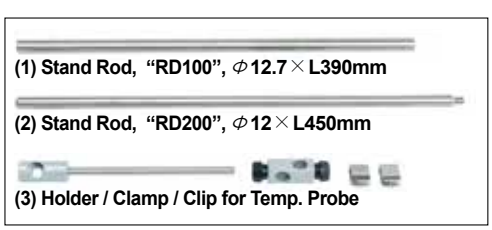
아날로그 가열 자력 교반기, 우수한 온도균일성, 세라믹 코팅 플레이트



(a) 180×180mm Plate-type Hotplate Stirrer "WiseTherm® SMSH-20A"



(b) 260×260mm Plate-type Hotplate Stirrer "WiseTherm® SMSH-30A"



- ***Made in Korea*** ■ ***CE Certified (SMSH-20A)*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature***
- ***Superior Linearity for Temperature Control & Stirring Speed***
- ***Ceramic Coated Plate-Chemical / Acid Resistance***

* Excellent for Sample Drying and most General Lab Heating Applications
* Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
* Superior Linearity for Temperature Control & Stirring Speed by Specially Designed Control Circuitry.(PWM Control)
* Smart Design of Body made by Aluminum Die-Casting (SMSH-20A)
* Ceramic Coated Plate-Chemical/Acid Resistance
* Maximum Temperature of 380℃

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SMSH-20A"	(b) "WiseTherm® SMSH-30A"
Plate Size		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed Range		Max. 1,500 rpm	
Temp. Range		Max. 380℃	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1.2 kW
Controller		Superior Linearity PWM Controller	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.3kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SMH03120**	**SL.SMH03121**
	120V	**SL.SMH02120**	**SL.SMH02121**
Price, Each. ₩		175,000	389,000

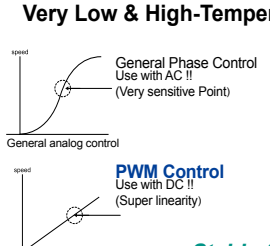
*** Other Specifications are available upon Customer's Request.**

Optional Stand Rod & Holder/Clamp

		Ea. Price, ₩
DH.WHP503011	(1) Stand Rod, **"RD100"**, Stainless steel, Non-screw Φ12.7×L390mm, for **"SHP-30A/30D", "SMSH-30A/30D"**	10,000
DH.WHP503036	(2) Stand Rod, **"RD200"**, Stainless steel, 1.5p screw, Φ12×L450mm, for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS"**	20,000
DH.WHP503012	(3) Holder / Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

Specialized Features

High Stability in Very Low & High-Temperature



Realize *Stable & Easy to Use!*

Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC*!!*



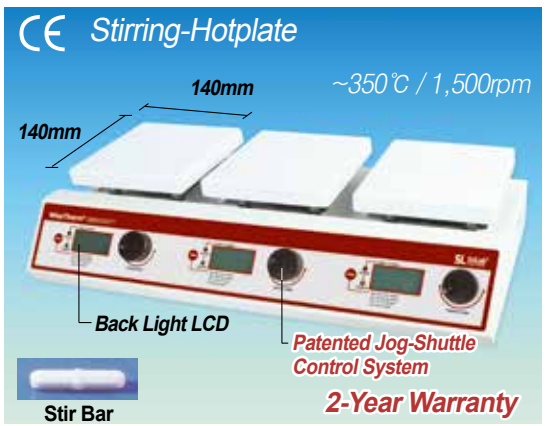
SSR (Solid State Relay)-Non Contact
No Electronic Harm!

Realize *Long Life Cycle!*

SciLab-brand® 350℃ Systematic Multi-Hotplate Stirrers, 3- or 6- Places, *"WiseTherm® SSMHS"*

with Digital Feedback Control, Independent Heating & Stirring Control, up to 350℃, 80~1,500 rpm

멀티 가열 자력 교반기, 우수한 온도균일성, 3- or 6- 구 개별 조절 가능

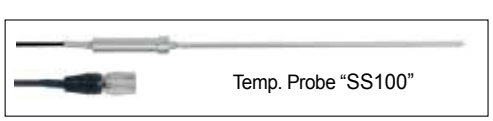


(a) 3×1 Plates-type Multi-Hotplate Stirrer "WiseTherm® SSMHS-3"

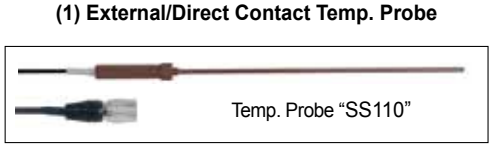


(b) 3×2 Plates-type Multi-Hotplate Stirrer "WiseTherm® SSMHS-6"

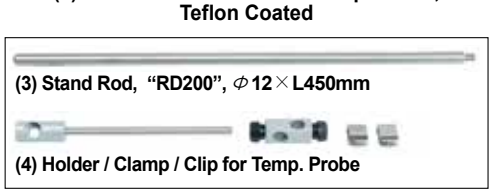
※ 3 Rear Hotplate Stirrer SMHS-6 have 3 Ports available to connect External Temp. Probe



(1) External/Direct Contact Temp. Probe



(2) External/Direct Contact Temp. Probe, Teflon Coated



- ***Made in Korea*** ■ ***CE Certified*** ■ ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Excellent for Multi-use and wide range Sample Testing***
- ***Patented Jog-Shuttle Control System***

* Systemized 3- and 6-Hotplate Stirrer
* Independent Heating and Stirring Control
* Digital Feedback Control by High-Performance Microprocessor
* Ceramic Coated Plate-Chemical/Acid Resistance
* Maximum Temperature of 350℃ with ±0.3℃ Control Accuracy
* Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (Optional)
* Digital LCD with Back-Light Function
* Digital Timer Function Included : 99 hr 59 min
* Storage Function for the Set Values : Temperature, RPM and Timer
* Locking Mode for Experimental Safety Supported

Specifications & Ordering information

Spec. \ Model		(a) "WiseTherm® SSMHS-3"	(b) "WiseTherm® SSMHS-6"
Plate-type		3×1 Plates-type	3×2 Plates-type
Material		Plate : Ceramic Coated Aluminum, Body : Powder Coated steel	
Plate Size(mm)		140×140	
Stirring Capa. & Motor Rating		Max. 20 Lit.(H2O), 9/4W×3	Max. 20 Lit.(H2O), 9/4W×6
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 350 ℃, ±0.3℃ at Set Temp.	
Temp. Resolution		0.1 ℃-Display, 0.5 ℃-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		400 W ×3 Plates	400 W ×6 Plates
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Room Temp. +5 ~ 50℃, 85% RH	
Dimension & Weight		510×240×h100mm, 10kg	510×410×h180mm, 18kg
Packing Size & Gross Weight		540×330×h170mm, 10kg	570×540×h230mm, 18kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	**SL.SMH03503**	**SL.SMH03506**
	120V	**SL.SMH02503**	**SL.SMH02506**
Price, Each. ₩		851,000	1,598,000

*** Other Specifications are available upon Customer's Request.**

※ 3 Rear Hotplate Stirrer SSMHS-6 have 3 Ports available to connect External Temp. Probe.

※ 운임 약 ₩ 9.000 별도!

Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

		Ea. Price, ₩
DH.WHP503020	(1) External / Direct Contact Temperature Sensor, **"SS100", PT100,** for **"SHP-30D", "SMSH-30D"** and **"SSMHS"** Probe Φ4×L250mm, Cable L190mm	69,000
DH.WHP503021	(2) External / Direct Contact Temperature Sensor, **"SS110", PT100, Teflon Coated**, for **"SHP-30D", "SMSH-30D", "SSMHS"** Probe Φ4×L250mm, Cable L190mm	80,000
DH.WHP503036	(3) Stand Rod, **"RD200",** Stainless-steel, Φ12×L450mm for **"SHP-20A/20D", "SMSH-20A/20D",** and **"SSMHS",** 1.5p Screw	20,000
DH.WHP503012	(4) Holder / Clamp / Clip, **"CL220"**, for Temp. Probe	25,000

SciLab WiseStir® Overhead Stirrer Product Line / Selection Guide

Speed & Torque		High Speed						High Torque						
Control		Analog Model		Digital Model				Analog Model		Digital Model				
Controller-type		Integrated Controller		Integrated Controller		Remote Controller		Integrated Controller		Integrated Controller		Remote Controller		
Models		SHS-50A	SHS-120A	SHS-30D	SHS-100D	SHS-30T	SHS-100T	SHT-50AX	SHT-120AX	SHT-50DX	SHT-120DX	SHT-50T	SHT-120T	SHT-140T
Max. Capacity(H_2O)		10 Lit.	20 Lit.	10 Lit.	20 Lit.	10 Lit.	20 Lit.	40 Lit.	60 Lit.	40 Lit.	60 Lit.	50 Lit.	80 Lit.	100 Lit.
Max. Viscosity(mPas)		10,000	50,000	10,000	50,000	10,000	50,000	100,000	150,000	100,000	150,000	100,000	150,000	160,000
Motor Rating (Input / Output)		83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	83/75W (1/10 hp)	130/120W (1/6 hp)	130/120W (1/6 hp)
Max. Torque(Ncm)		85	145	85	145	85	145	300	500	300	500	300	500	550
Impeller Dia.(mm)		8						10						
Speed Range (rpm)		200 ~ 3,000						50 ~ 1,000						
Motor Rating (In / Out)		Direct Driven Motor						3.5:1 Ratio Worm-Geared Motor						
Controller		Analog Phase Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push), Remote type		Analog Phase Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push), Remote type		
Display		None		Digital LCD (Timer, RPM & Power Bar-graph)				None		Digital LCD (Timer, RPM & Power Bar-graph)				
Operating Environ-ment	Ambient Temp. Range (℃)	0 ~ 40												
	Max. Permissible Humidity(%)	80												
Safety Device		Over Heat Protector for motor		Over Load & Heat Protector for motor				Over Heat Protector for motor		Over Load & Heat Protector for motor				
Body Dimension (w×d×h mm)		90×145×180				90×100×180		90×180×130	90×210×130	90×180×130	90×210×130	155×180×110	155×230×110	155×230×110
Body Weight (kg)		4.5	5.3	4.5	5.3	3*	3.8*	3.5	4	3.5	4	3.5	4	4
Others		- Smooth Start and Change of the Stirring Speed for stable running - Storage Function (RPM & Timer) : Only Digital Models						- Smooth Start and Change of the Stirring Speed for stable running - Storage Function (RPM & Timer) : Only Digital Models - Locking Mode (Jog-Shuttle Input disabled) : Only Digital Models - Alarm (Error Status and Timer-end) : Only Digital Models						
Power Supply **		AC 230V, 50/60Hz												

* Weight of Remote Controller = 2.5kg

** Other Specifications are Available Upon Customer's Request.

Standard Viscosity

(Unit : mPas)

Material	Viscosity	Recommended Models			
Water	1	SHS-30D SHS-50A SHS-30T	SHS-100D SHS-120A SHS-100T	SHT-50DX SHT-50AX SHT-50T	SHT-120DX SHT-120AX SHT-120T SHT-140T
Milk	3				
Soybean oil	160				
Varnish	500				
Lacquer	1,000				
Honey	3,000				
Standard Viscosity	10,000				
Standard Viscosity	15,000	-			
Ketchup	30,000				
Standard Viscosity	50,000				
Mustard	70,000		-		
Corn Syrup	100,000				
Standard Viscosity	150,000			-	
Peanut Butter	250,000				-

Articles	Cat. No	Description

SciLab-brand® High-Speed Analog Overhead Stirrers, *"WiseStir® SHS-A"*, for Low-/Middle-Viscosity, Max.10/20Lit, Max. 3,000rpm with "Push-Through" Shaft(Φ8mm or Less) and Chuck grip Φ3~10mm, Flex-Coupling Φ6~12mm, up to 50,000 mPas Upgrade

아날로그 고속 교반기, 저/중점도용, 사용교반봉 ; ①기본은Φ3~10mm, ②관통은Φ3~8mm, & ③별도의 Flex-Coupling 활용시Φ6~12mm



Max. 10 Lit. (H_2O) Hi-Speed Analog Overhead Stirrer "WiseStir® SHS-50A -Set"

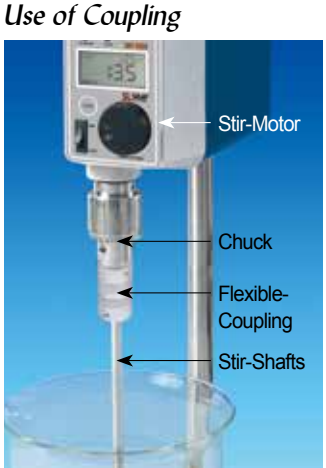
- ***Made in Korea*** ***PL (Product Liability) Insurance***
- ***Ensure Minimize RPM Flutuation : Very Stable Stirring Speed(RPM) Performane***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***"Push-Through" Shafts(Φ8mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"***
- ***Ideal for Low-/Middle-Viscosity***
  - ∗ Easy-to-use Dial for Speed Setting
  - ∗ Smooth Start and Change of the Stirring Speed
  - ∗ Stainless-steel Chuck : Grip Φ3~10mm

Specifications & Ordering information

Spec. \ Models		"WiseStir® SHS-50A"	"WiseStir® SHS-120A"
Stirring Capacity		Max. 10 Lit. (H_2O)	Max. 20 Lit. (H_2O)
Maximum Viscosity / Torque		10,000 mPas / 85 Ncm	50,000 mPas / 145 Ncm
Speed Range & Motor		0 ~ 3,000 rpm, Direct Driven DC Motor	
Motor Rating (Input / Output)		83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Controller / Safety Device		Analog Phase Controller / Over Heat Protector for motor	
Chuck Grip Capa. Φmm		dia Φ3~10mm Shafts	
"Push-Through" Shafts		dia Φ8mm or Less	
Permissible Temp. & Humidity		0 ~ 40℃, 80%	
Material		ABS and Aluminum	
Dimension & Weight		90×145×h180mm, 4.5 kg	90×145×h180mm, 5.3 kg
Packing Size & Gross Weight		320×300×h180mm, 5 kg	320×300×h180mm, 8 kg
Power Consumption		85 W	130 W
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Stand Package-set			
Cat. No.	**230V**	**SL.SOS01211**	**SL.SOS01216**
	120V	**SL.SOS02211**	**SL.SOS02216**
Price, Each. ₩		394,000	400,000
Unit-only			
Cat. No.	**230V**	**SL.SOS01210**	**SL.SOS01215**
	120V	**SL.SOS02210**	**SL.SOS02215**
Price, Each. ₩		297,000	326,000

∗ Other Specifications are available upon Customer's Request.

The Figure ;
Use of Coupling





(1) Hi-flex Metal for Φ6~12 Shafts (2) Rubber Based for Φ7~10 Shafts

∗ **"SHS-50A" Package-set :** Complete with ① **"SHS-50A"** Stirrer Unit, ② **"S721"** Stainless-steel Impeller (Rod Φ8×L500mm, 3-Blade Φ50mm), ③ **"CL200"** Clamp, and ④ **"KA1177"** Safety Stand (Rod Φ23×L800mm, Base w34×d29cm)

∗ **"SHS-120A" Package-set :** Complete with ① **"SHS-120A"** Stirrer Unit, ② **"S723"** Stainless-steel Impeller (Rod Φ8×L650mm, 3-Blade Φ80mm), ③ **"CL200"** Clamp, and ④ **"KA1177"** Safety Stand (Rod Φ23×L800mm, Base w34×d29cm)

Flexible Couplings, for Safety Stirring of Φ6~12mm Shafts of Overhead Stirrers NEW
for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 카푸링

- ***Used to Compensate Any Vibrations Between The Motor and Stirring Shafts***

(1) UTILITY High-Flex. Metal Coupling, with 2×Flex-band, for Φ6~12mm Stir-Shafts
Ideal for Low/High Viscosity and High/Low Speed

∗ Made in Korea ∗ Shaft Fastening by Screw Clamp Band ∗ Made of DURALUMIN
∗ with Exchangeable STS Chucking Rod Φ8 & 10mm, L40mm

		Ea. Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g, Φ25×h44mm	60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g, Φ25×h44mm	60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g, Φ25×h44mm	60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g, Φ25×h44mm	60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g, Φ25×h44mm	60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g, Φ25×h44mm	60,500

(2) Very Flexible Rubber Based Coupling, for Φ7~10mm Shafts
Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed

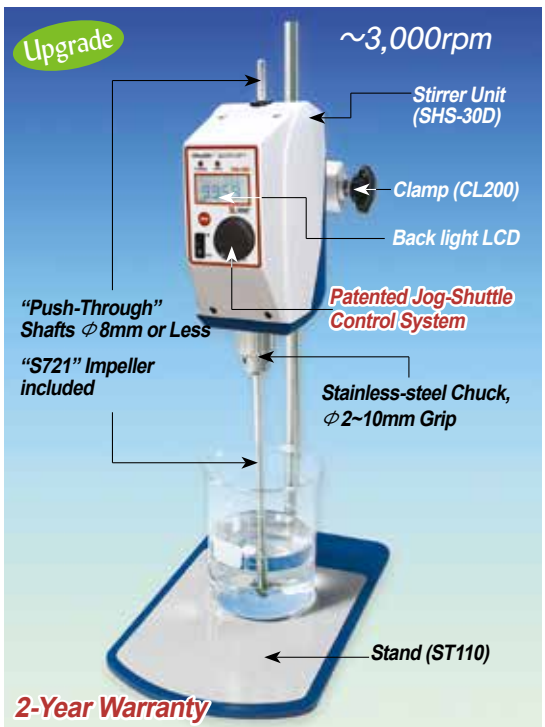
∗ Made in Germany ∗ Shaft Fastening by Screw Compression Rubber Ring Pad.
∗ with Φ10×L40mm Exchangeable Stainless-steel Chucking Rod

		Ea. Price, ₩
WI.1445000	Stir-Coupling, Rubber Based, for Φ7~Φ10mm Shafts, 72.5g, Body Φ46×h80mm	186,800

※ Note! Details of Wide-Range Couplings : See the "Stirrer Accessories"

SciLab-brand® High-Speed Digital Overhead Stirrers, *"WiseStir® SHS-D"*, for Low-/Middle-Viscosity, Max.10/20Lit, Max. 3,000rpm with "Push-Through" Shaft(Φ8mm or Less) and Chuck grip Φ3~10mm, Flex-Coupling Φ6~12mm, up to 50,000 mPas Upgrade

디지털 고속 교반기, 저/중점도용, 사용교반봉 ; ①기본은Φ3~10mm, ②관통은Φ3~8mm, & ③별도의 Flex-Coupling 활용시Φ6~12mm



Max. 10 Lit. (H_2O) Hi-Speed Digital Overhead Stirrer "WiseStir® SHS-30D -Set"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***Ensure Minimize RPM Flutuation : Very Stable Stirring Speed(RPM) Performane***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***"Push-Through" Shafts(Φ8mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"***
- ***Ideal for Low-/Middle-Viscosity*** ■ ***Patented Jog-Shuttle Control System***

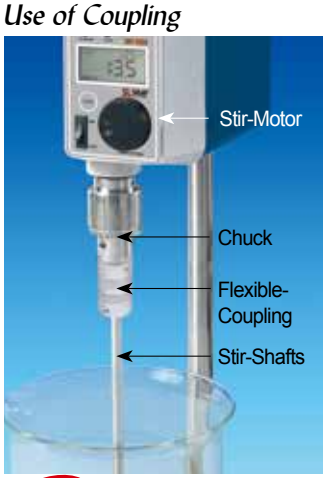
∗ Smooth Start and Change of the Stirring Speed ∗ Stainless-steel Chuck : Grip Φ3~10mm

Specifications & Ordering information

Spec. \ Models		"WiseStir® SHS-30D"	"WiseStir® SHS-100D"
Stirring Capacity		Max. 10 Lit. (H_2O)	Max. 20 Lit. (H_2O)
Maximum Viscosity / Torque		10,000 mPas / 85 Ncm	50,000 mPas / 145 Ncm
Speed Range & Resolution		200 ~ 3,000 rpm, 1 rpm-Display / 1 rpm-Control	
Motor / Safety		Device Direct Driven DC Motor / Overload & Heat Protector for Motor	
Motor Rating (Input / Output)		83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Controller / Display		Digital Feedback Controller / Digital LCD with Back-Light Function	
Chuck Grip Capa. Φmm		dia Φ3~10mm Shafts	
"Push-Through" Shafts		dia Φ8mm or Less	
Permissible Temp. & Humidity		0 ~ 40℃, 80%	
Material		ABS and Aluminum	
Dimension & Weight		90×145×h180mm, 4.5 kg	90×145×h180mm, 5.3 kg
Packing Size & Gross Weight		320×300×h180mm, 5 kg	320×300×h180mm, 8 kg
Power Consumption		85 W	130 W
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Stand Package-set			
Cat. No.	230V	**SL.SOS01016**	**SL.SOS01026**
	120V	**SL.SOS02016**	**SL.SOS02026**
Price, Each. ₩		441,000	486,000
Unit-only			
Cat. No.	230V	**SL.SOS01015**	**SL.SOS01025**
	120V	**SL.SOS02015**	**SL.SOS02025**
Price, Each. ₩		338,000	367,000

∗ **Other Specifications are available upon Customer's Request.**

The Figure ; Use of Coupling





(1) Hi-flex Metal for Φ6~12 Shafts | (2) Rubber Based for Φ7~10 Shafts

∗ **"SHS-30D" Package-set :** Complete with ① **"SHS-30D"** Stirrer Unit, ② **"S721"** Stainless-steel Impeller (Rod Φ8×L500mm, 3-Blade Φ50mm), ③ **"CL200"** Clamp, and ④ **"ST110"** Standard Plate Stand(Rod Φ16×L800mm, Base w20×d35cm)

∗ **"SHS-100D" Package-set :** Complete with ① **"SHS-100D"** Stirrer Unit, ② **"S723"** Stainless-steel Impeller (Rod Φ8×L650mm, 3-Blade Φ80mm), ③ **"CL200"** Clamp, and ④ **"ST120"** Wide Plate Stand(Rod Φ23×L1,000mm, Base w30×d40cm)

Flexible Couplings, for Safety Stirring of Φ6~12mm Shafts of Overhead Stirrers NEW

for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 카푸링

■ ***Used to Compensate Any Vibrations Between The Motor and Stirring Shafts***

(1) UTILITY High-Flex. Metal Coupling, with 2×Flex-band, for Φ6~12mm Stir-Shafts Ideal for Low/High Viscosity and High/Low Speed

∗ Made in Korea ∗ Shaft Fastening by Screw Clamp Band ∗ Made of DURALUMIN
∗ with Exchangeable STS Chucking Rod Φ8 & 10mm, L40mm

		Ea. Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g, Φ25×h44mm	60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g, Φ25×h44mm	60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g, Φ25×h44mm	60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g, Φ25×h44mm	60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g, Φ25×h44mm	60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g, Φ25×h44mm	60,500

(2) Very Flexible Rubber Based Coupling, for Φ7~10mm Shafts Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed

∗ Made in Germany ∗ Shaft Fastening by Screw Compression Rubber Ring Pad.
∗ with Φ10×L40mm Exchangeable Stainless-steel Chucking Rod

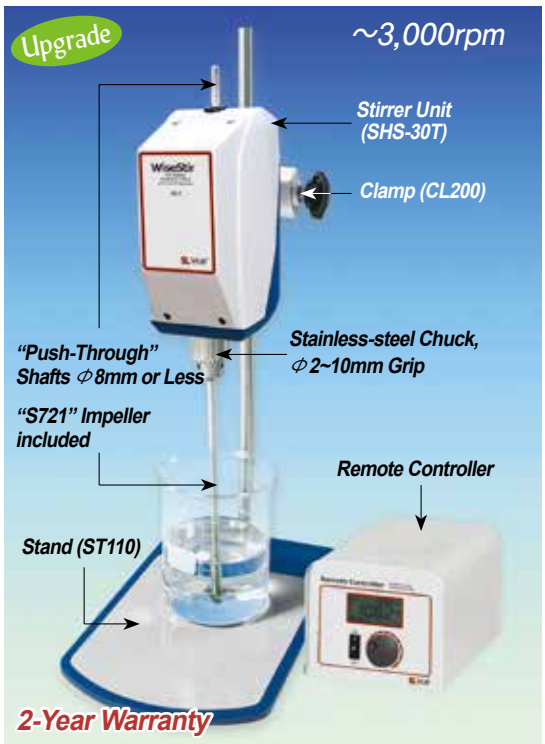
		Ea. Price, ₩
WI.1445000	Stir-Coupling, Rubber Based, for Φ7~Φ10mm Shafts, 72.5g, Body Φ46×h80mm	186,800

※ **Note! Details of Wide-Range Couplings : See the "Stirrer Accessories"**

Articles	Cat. No	Description

SciLab-brand® Remote Controlled High-Speed Digital Overhead Stirrer, *"WiseStir® SHS-T"*, for Low-/Middle-Viscosity, Max. 3,000 rpm with "Push-Through" Shaft(Φ8mm or Less) and Chuck grip Φ3~10mm, Flex-Coupling Φ6~12mm, up to 50,000 mPas Upgrade

원격조절식 디지털 고속 교반기, 저/중점도용, 사용교반봉 ; ①기본은Φ3~10mm, ②관통은Φ3~8mm, & ③별도의 Flex-Coupling 활용시Φ6~12mm



Max. 10 Lit. (H_2O) Hi-Speed Digital Overhead Stirrer, with Remote Controller "WiseStir® SHS-30T" Package-set

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***Ensure Minimize RPM Flutuation : Very Stable Stirring Speed(RPM) Performane***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***"Push-Through" Shafts(Φ8mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"***
- ***Ideal for Low-/Middle-Viscosity*** ■ ***Patented Jog-Shuttle Control System***

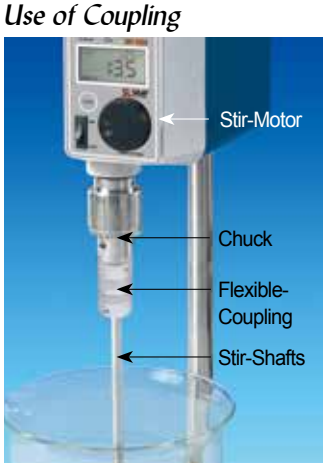
∗ Smooth Start and Change of the Stirring Speed ∗ Stainless-steel Chuck : Grip Φ3~10mm

Specifications & Ordering information

Spec. \ Model		"WiseStir® SHS-30T"	"WiseStir® SHS-100T"
Stirring Capacity		Max. 10 Lit. (H_2O)	Max. 20 Lit. (H_2O)
Maximum Viscosity / Torque		10,000 mPas / 85 Ncm	50,000 mPas / 145 Ncm
Speed Range & Motor		200 ~ 3,000 rpm, Direct Driven DC Motor	
Motor Rating (Input / Output)		83 / 75 W, 1/10 HP	130 / 120 W, 1/6 HP
Timer & Alarm		99hr 59min (with Continuous run.), Timer-end Alarm	
Controller / Display		Digital Feedback Controller / Digital LCD with Back-Light Function	
Chuck Grip Capa. Φmm		dia Φ3~10mm Shafts	
"Push-Through" Shafts		dia Φ8mm or Less	
Permissible Temp. & Humidity		0 ~ 40℃, 80%	
Safety Device / Material		Overload & Heat Protector for motor / ABS and Aluminum	
Dimension & Weight*		90×100×h180mm, 3 kg	90×100×h180mm, 3.8 kg
Packing Size & Gross Weight		580×340×h230mm, 5 kg	580×340×h230mm, 8 kg
Power Consumption		75 W	120 W
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Stand Package-set			
Cat. No.	230V	**SL.SOS01036**	**SL.SOS01046**
	120V	**SL.SOS02036**	**SL.SOS02046**
Price, Each. ₩		589,000	633,000
Unit & Remote Controller			
Cat. No.	230V	**SL.SOS01035**	**SL.SOS01045**
	120V	**SL.SOS02035**	**SL.SOS02045**
Price, Each. ₩		486,000	471,000

∗ Weight of Remote Controller = 2.5kg ∗∗ Other Specifications are available upon Customer's Request.

The Figure ; Use of Coupling



∗ **"SHS-30T" Package-set :** Complete with ① **"SHS-30T"** Stirrer Unit with Remote Controller, ② **"S721"** Stainless-steel Impeller(Rod Φ8×L500mm, 3-Blade Φ50mm), ③ **"CL200"** Clamp, and ④ **"ST110"** Standard Plate Stand(Rod Φ16×L800mm, Base w20×d35cm)

∗ **"SHS-100T"Package-set :** Complete with ① **"SHS-100T"** Stirrer Unit with Remote Controller, ② **"S723"** Stainless-steel Impeller(Rod Φ8×L650mm, 3-Blade Φ80mm), ③ **"CL200"** Clamp, and ④ **"ST120"** Wide Plate Stand(Rod Φ23×L1,000mm, Base w30×d40cm)

Flexible Couplings, for Safety Stirring of Φ6~12mm Shafts of Overhead Stirrers NEW

for Stirrers between Stirring Motor and Shaft, **안전교반용 유연성 카푸링**

■ ***Used to Compensate Any Vibrations Between The Motor and Stirring Shafts***



(1) Hi-flex Metal for Φ6~12 Shafts (2) Rubber Based for Φ7~10 Shafts

(1) UTILITY High-Flex. Metal Coupling, with 2 × Flex-band, for Φ6~12mm Stir-Shafts Ideal for Low/High Viscosity and High/Low Speed

∗ Made in Korea ∗ Shaft Fastening by Screw Clamp Band ∗ Made of DURALUMIN
∗ with Exchangeable STS Chucking Rod Φ8 & 10mm, L40mm

		Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g, Φ25×h44mm		60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g, Φ25×h44mm		60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g, Φ25×h44mm		60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g, Φ25×h44mm		60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g, Φ25×h44mm		60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g, Φ25×h44mm		60,500

(2) Very Flexible Rubber Based Coupling, for Φ7~10mm Shafts Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed

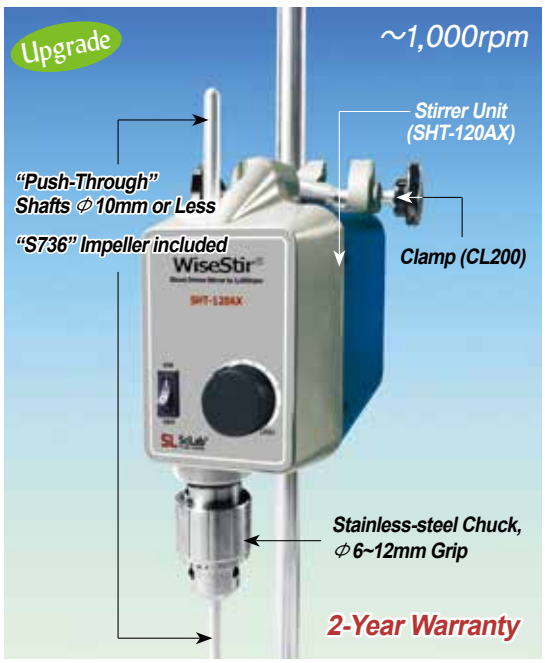
∗ Made in Germany ∗ Shaft Fastening by Screw Compression Rubber Ring Pad.
∗ with Φ10×L40mm Exchangeable Stainless-steel Chucking Rod

		Ea.	Price, ₩
WI.1445000	Stir-Coupling, Rubber Based, for Φ7~Φ10mm Shafts, 72.5g, Body Φ46×h80mm		186,800

※ Note! Details of Wide-Range Couplings : See the "Stirrer Accessories"

SciLab-brand® High-Torque Analog Overhead Stirrer, *"WiseStir® SHT-AX"*, for Middle-/High-Viscosity, Max.50-/80-Lit, Max.1,000rpm with "Push-Through" Shaft(Φ10mm or Less) and Chuck grip 6~12mm, Flex-Coupling Φ6~16mm, 150,000 mPas Upgrade

아날로그 중/고점도용 강력교반기, 사용교반봉 ; ①기본은Φ6~12mm, ②관통은Φ6~10mm, & ③별도의 Flex-Coupling 활용시Φ6~16mm



Max. 50 Lit. (H_2O) Hi-Torque Analog Overhead Stirrer, "WiseStir® SHT-120AX"

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***Ensure Minimize RPM Flutuation : Very Stable Stirring Speed(RPM) Performane***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*** ■ ***3.5:1 Ratio Worm-geared Motor***
- ***"Push-Through" Shafts(Φ10mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"***

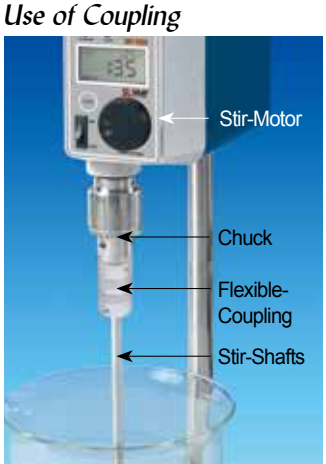
* Ideal for Middle-/High-Viscosity
* Easy-to-use Dial for Speed Setting
* Smooth Start and Change of the Stirring Speed
* Stainless-steel Chuck : Grip Φ6~12mm

Specifications & Ordering information

Spec. \ Model		"WiseStir® SHT-50AX"	"WiseStir® SHT-120AX"
Stirring Capacity		Max. 50 Lit. (H_2O)	Max. 80 Lit. (H_2O)
Maximum Viscosity / Torque		100,000 mPas / 300 Ncm	150,000 mPas / 500 Ncm
Speed Range & Motor		0 ~ 1,000 rpm, Worm-Geared DC Motor (3.5:1 Ratio)	
Motor Rating (Input / Output)		83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Controller		Analog Phase Controller	
Chuck Grip Capa. Φmm		dia Φ6~12mm Shafts	
"Push-Through" Shafts		dia Φ10mm or Less	
Permissible Temp. & Humidity		0 ~ 40℃, 80%	
Safety Device / Material		Over Heat Protector for motor / ABS and Aluminum	
Dimension & Weight		90×180×h130mm, 3.5 kg	90×210×h130mm, 4 kg
Packing Size & Gross Weight		320×300×h180mm, 5 kg	320×300×h180mm, 8 kg
Power Consumption		85 W	130 W
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Stand Package-set			
Cat. No.	230V	**SL.SOS01252**	**SL.SOS01272**
	120V	**SL.SOS02252**	**SL.SOS02272**
Price, Each. ₩		454,000	515,000
Unit-only			
Cat. No.	230V	**SL.SOS01251**	**SL.SOS01271**
	120V	**SL.SOS02251**	**SL.SOS02271**
Price, Each. ₩		356,000	417,000

* **Other Specifications are available upon Customer' s Request.**

The Figure ; Use of Coupling





(1) Hi-flex Metal for Φ6~16 Shafts | (2) Heavy-duty Metal for Φ10~16 Shafts

※ **Details of Wide-Range Couplings : See the "Stirrer Accessories"**

* **"SHT-50AX" Package-set :** Complete with ① **"SHT-50AX"** Stirrer Unit, ② **"S732"** Stainless-steel Impeller(Rod Φ8×L500mm, 4-Blade Φ70mm), ③ **"CL200"** Clamp, and ④ **"KA1177"** Safety Stand(Rod Φ23×L800mm, Base w34×d29cm)
* **"SHT-120AX" Package-set :** Complete with ① **"SHT-120AX"** Stirrer Unit, ② **"S736"** Stainless-steel Impeller(Rod Φ10×L650mm, 4-Blade Φ90mm), ③ **"CL200"** Clamp, and ④ **"KA1177"** Safety Stand(Rod Φ23×L800mm, Base w34×d29cm)

Flexible Couplings, for Safety Stirring of Φ6~16mm Shafts of Overhead Stirrers NEW

for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 카푸링

- ***Used to Compensate Any Vibrations Between The Motor and Stirring Shafts*** * Shaft Fastening by Screw Clamp Band
* Made in Korea * Made of DURALUMIN * with Exchangeable STS Chucking Rod Φ8 / 10 / 12mm, L40mm

(1) UTILITY High-Flex. Metal Coupling, with 2×Flex-band, for Φ6~16mm Stir-Shafts
Ideal for Low/High Viscosity and High/Low Speed

		Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g , Φ25×h44mm		60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g , Φ25×h44mm		60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g , Φ25×h44mm		60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g , Φ25×h44mm		60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g , Φ25×h44mm		60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g , Φ25×h44mm		60,500
SL.StiC017	Stir-Coupling, Hi-flex, Φ12mm Chuck-rod, for-Φ10mm Stir-Shaft, 33g , Φ25×h44mm		60,500
SL.StiC018	-Φ12mm Stir-Shaft, 123g, Φ32×h60mm		72,600
SL.StiC019	-Φ14mm Stir-Shaft, 120g, Φ32×h60mm		72,600
SL.StiC020	-Φ16mm Stir-Shaft, 118g, Φ32×h60mm		72,600

(2) Heavy-duty Metal Coupling, with Short Flex-band, for Φ10~16mm Stir-Shafts
Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

		Ea.	Price, ₩
SL.StiC023	Stir-Coupling, Low-flex, Φ10mm Chuck rod, for-Φ10mm Stir-Shafts., 45g , Φ25×h30		30,500
SL.StiC024	-Φ12mm Stir-Shafts., , Φ25×h30		30,500
SL.StiC025	Stir-Coupling, Low-flex, Φ12mm Chuck rod, for-Φ12mm Stir-Shafts., 105g, Φ32×h38		40,660
SL.StiC026	-Φ14mm Stir-Shafts., , Φ32×h38		40,660
SL.StiC027	-Φ16mm Stir-Shafts., , Φ32×h38		40,660

Articles	Cat. No	Description

SciLab-brand® High-Torque Digital Overhead Stirrer, *"WiseStir® SHT-DX"*, for Middle-/High-Viscosity, Max.50-/80-Lit, Max.1,000rpm with "Push-Through" Shaft(Φ10mm or Less) and Chuck grip 6~12mm, Flex-Coupling Φ6~16mm, 150,000 mPas Upgrade
아날로그 중/고점도용 강력교반기, 사용교반봉 ; ①기본은Φ6~12mm, ②관통은Φ6~10mm, & ③별도의 Flex-Coupling 활용시Φ6~16mm



Max. 50 Lit. (H_2O) Hi-Torque Digital Overhead Stirrer, "WiseStir® SHT-120DX" Package-set



- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***Ensure Minimize RPM Flutuation : Very Stable Stirring Speed(RPM) Performane***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*** ■ ***3.5:1 Ratio Worm-geared Motor***
- ***"Push-Through" Shafts(Φ10mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"***
- ***Patented Jog-Shuttle Control System*** ∗ Ideal for Middle-/High-Viscosity

Specifications & Ordering information

Spec. \ Model		"WiseStir® SHT-50DX"	"WiseStir® SHT-120DX"
Stirring Capacity		Max. 50 Lit. (H_2O)	Max. 80 Lit. (H_2O)
Maximum Viscosity / Torque		100,000 mPas / 300 Ncm	150,000 mPas / 300 Ncm
Speed Range & Resolution		50 ~ 1,000 rpm, 1 rpm-Display / 1 rpm-Control	
Motor		Worm-Geared DC Motor (3.5:1 Ratio)	
Motor Rating (Input / Output)		83 / 75 W, 1 / 10 HP	130 / 120 W, 1 / 6 HP
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Controller / Display		Digital Feedback Controller / Digital LCD with Back-Light Function	
Chuck Grip Capa. Φmm		dia Φ6~12mm Shafts	
"Push-Through" Shafts		dia Φ10mm or Less	
Permissible Temp. & Humidity		0 ~ 40℃, 80%	
Safety Device / Material		Overload & Heat Protector for Motor / ABS and Aluminum	
Dimension & Weight		90×180×h130mm, 3.5 kg	90×210×h130mm, 4 kg
Packing Size & Gross Weight		320×300×h180mm, 5 kg	320×300×h180mm, 8 kg
Power Consumption		85 W	130 W
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Stand Package-set			
Cat. No.	230V	**SL.SOS01052**	**SL.SOS01072**
	120V	**SL.SOS02052**	**SL.SOS02072**
Price, Each. ₩		520,000	635,000
Unit-only			
Cat. No.	230V	**SL.SOS01051**	**SL.SOS01071**
	120V	**SL.SOS02051**	**SL.SOS02071**
Price, Each. ₩		400,000	470,000

∗ **"SHT-50DX" Package-set :** Complete with ① **"SHT-50DX"** Stirrer Unit, ② **"S732"** Stainless-steel Impeller (Rod Φ8×L500mm, 4-Blade Φ70mm), ③ **"CL200"** Clamp, and ④ **"ST120"** Wide Plate Stand (Rod Φ23×L1000mm, Base w30×d40cm)

∗ **"SHT-120DX" Package-set :** Complete with ① **"SHT-120DX"** Stirrer Unit, ② **"S736"** Stainless-steel Impeller (Rod Φ10×L650mm, 4-Blade Φ90mm), ③ **"CL200"** Clamp, and ④ **"ST200"** Deluxe Safety Stand (Rod Φ23×L1200mm, Base w39×up to 75cm)

Flexible Couplings, for Safety Stirring of Φ6~16mm Shafts of Overhead Stirrers NEW
for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 카푸링

■ ***Used to Compensate Any Vibrations Between The Motor and Stirring Shafts*** ∗ Shaft Fastening by Screw Clamp Band
∗ Made in Korea ∗ Made of DURALUMIN ∗ with Exchangeable STS Chucking Rod Φ8 / 10 / 12mm, L40mm

(1) UTILITY High-Flex. Metal Coupling, with 2×Flex-band, for Φ6~16mm Stir-Shafts
Ideal for Low/High Viscosity and High/Low Speed

		Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g , Φ25×h44mm		60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g , Φ25×h44mm		60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g , Φ25×h44mm		60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g , Φ25×h44mm		60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g , Φ25×h44mm		60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g , Φ25×h44mm		60,500
SL.StiC017	Stir-Coupling, Hi-flex, Φ12mm Chuck-rod, for-Φ10mm Stir-Shaft, 33g , Φ25×h44mm		60,500
SL.StiC018	-Φ12mm Stir-Shaft, 123g, Φ32×h60mm		72,600
SL.StiC019	-Φ14mm Stir-Shaft, 120g, Φ32×h60mm		72,600
SL.StiC020	-Φ16mm Stir-Shaft, 118g, Φ32×h60mm		72,600

(2) Heavy-duty Metal Coupling, with Short Flex-band, for Φ10~16mm Stir-Shafts
Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

		Ea.	Price, ₩
SL.StiC023	Stir-Coupling, Low-flex, Φ10mm Chuck rod, for-Φ10mm Stir-Shafts., 45g , Φ25×h30		30,500
SL.StiC024	-Φ12mm Stir-Shafts., , Φ25×h30		30,500
SL.StiC025	Stir-Coupling, Low-flex, Φ12mm Chuck rod, for-Φ12mm Stir-Shafts., 105g, Φ32×h38		40,660
SL.StiC026	-Φ14mm Stir-Shafts., , Φ32×h38		40,660
SL.StiC027	-Φ16mm Stir-Shafts., , Φ32×h38		40,660

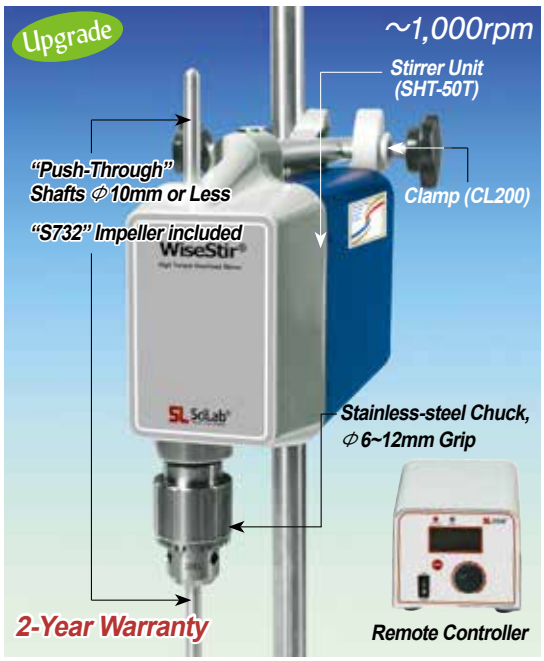


(1) Hi-flex Metal for Φ6~16 Shafts | (2) Heavy-duty Metal for Φ10~16 Shafts

※ **Details of Wide-Range Couplings : See the "Stirrer Accessories"**

SciLab-brand® Remote Control Hi-Torque Digital Overhead Stirrer, *"WiseStir® SHT-T"*, for Middle-/High-Viscosity, Max.50-/80-/100-Lit with "Push-Through"Shaft(Φ10mm or Less) and Chuck grip 6~12mm, Flex-Coupling Φ6~16mm, 160,000 mPas, Max.1,000rpm Upgrade

원격조절식 디지털 중/고점도용 강력교반기, 사용교반봉 ; ①기본은Φ6~12mm, ②관통은Φ6~10mm, & ③별도의 Flex-Coupling 활용시Φ8~16mm



Digital High-Torque Overhead Stirrer with Stirring Speed Remote Controller "WiseStir® SHT-120T-Set"



"WiseStir® SHT-140T" Digital High-Torque Overhead Stirrer, (included Stirring Speed Remote Controller and Temp. Display) with Modular Reactor System

- ***Made in Korea*** ■ ***PL (Product Liability) Insurance***
- ***Ensure Minimize RPM Flutuation : Very Stable Stirring Speed(RPM) Performane***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System*** ■ ***3.5:1 Ratio Worm-geared Motor***
- ***"Push-Through" Shafts(Φ10mm or Less) ; Ideal for Raising or Lowering of the Stir-Shafts without Moving the Motor Head - "Adjustable Height of Shaft"***
- ***Patented Jog-Shuttle Control System*** ∗ Ideal for Middle-/High-Viscosity
- ***Included Remote-type Digital Feedback Controller :***
  - **"SHT-50T", "SHT-120T" model :** Included Stirring-speed Remote Controller
  - **"SHT-140T" model** *New* **:** Ideal for Reaction System.
    Included Stirring-speed Control and Temperature Display Remote Controller for Reactor Module.
    (Can be Controlled Stirring Speed and Temperature Display of vessel)

Specifications & Ordering information

Spec. \ Model		"WiseStir® SHT-50T"	"WiseStir® SHT-120T"	"WiseStir® SHT-140T" *New*
Stirring Capacity(H_2O)		Max. 50 Lit.	Max. 80 Lit.	Max. 100 Lit.
Maximum Viscosity / Torque		100,000 mPas / 300 Ncm	150,000 mPas / 500 Ncm	160,000 mPas / 550 Ncm
Speed Range & Motor		50 ~ 1,000 rpm		50 ~ 800 rpm
		Worm-Geared Motor(3.5:1 Ratio)		
Motor Rating (Input / Output)		83 / 75 W, 1/10 HP	130 / 120 W, 1/6 HP	
Timer & Alarm		99hr 59min (with Continuous run.), Timer-end Alarm		
Controller / Display		Digital Feedback Remote Controller / Digital LCD with Back-Light Function		
		Stirring Speed Remote Controller		Stirring Speed & Temp. Display Remote Controller
Max. Impeller Shaft Diameter		Φ10 mm		
Permissible Temp. & Humidity		0 ~ 40℃, 80%		
Safety Device		Overload & Heat Protector for motor		
Material		ABS and Aluminum		
Dimension & Weight*		155×180×h110mm, 3.5 kg	155×230×h110mm, 4 kg	
Packing Size & Gross Weight		580×340×h230mm, 5 kg	580×340×h230mm, 8 kg	
Power Consumption		75 W	120 W	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz		
Stand Package-set				
Cat. No.	230V	**SL.SOS01066**	**SL.SOS01076**	-
	120V	**SL.SOS02066**	**SL.SOS02076**	-
Price, Each. ₩		667,000	782,000	-
Unit & Remote Controller				
Cat. No.	230V	**SL.SOS01065**	**SL.SOS01075**	**SL.SOS01085**
	120V	**SL.SOS02065**	**SL.SOS02075**	**SL.SOS02085**
Price, Each. ₩		547,000	608,000	660,000

* Weight of Remote Controller = 2.5kg ** Other Specifications are available upon Customer's Request.

∗ **"SHT-50T" Package-set :** Complete with ① **"SHT-50T"** Stirrer Unit with Remote Controller ② **"S732"** Stainless-steel Impeller (Rod Φ8×L500mm, 4-Blade Φ70mm) ③ **"CL200"** Clamp, and ④ **"ST120"** Wide Plate Stand(Rod Φ23×L1000mm, Base w30×d40cm)

∗ **"SHT-120T" Package-set :** Complete with ① **"SHT-120T"** Stirrer Unit with Remote Controller ② **"S736"** Stainless-steel Impeller (Rod Φ10×L650mm, 4-Blade Φ90mm) ③ **"CL200"** Clamp, and ④ **"ST200"** Deluxe Safety Stand (Rod Φ23× L1,200mm, Base 39×up to 75cm)

※ **Details of Wide-Range Couplings : See the "Stirrer Accessories"**

Articles	Cat. No	Description

SciLab-brand® Digital Jar Tester, *"WiseStir® SJT"*, 6-Paddle Stirrer for Flocculation Test, 300 rpm, with Certi. & Traceability with Programmable Digital Feedback Control, 6 Impellers, 6 Independent Light Source, up to 6×1Lit. Beakers

프로그램/디지털 자 테스터, 정밀 직류 기어드 모터와 특화된 타이밍벨트, 디지털 피드백 컨트롤



Jar Tester, Φ8×L400mm Shaft "WiseStir® SJT-M6C"

- ***Made in Korea***
- ***PL (Product Liability) Insurance***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Ideal for Flocculation Testing in Water Treatment Laboratories***
- ***6 Independent Light Source for Each Stirring Point***

∗ Deciding on Coagulant Chemistries ∗ Digital Display for RPM, Power Bar-Graph and Status
∗ Digital Feedback Control using Microprocessor : Stable and Accurate Stirring Speed
∗ Geared DC Motor and Specially Designed Timing Belt used
∗ Stable and Accurate Stirring Speed by Feedback Control
∗ Digital LCD with Back-Light Function ∗ Programmable Operation : 10 Steps, 6 Programs



Geared DC Motor with Special Timing Belt

Specifications & Ordering information

Spec. \ Model	"WiseStir® SJT -M6C"	
6×Paddler (Stainless steel Shaft)	Φ8×L400mm	
	Straight Blade w75×h25mm	
Stirring Capacity	6×1 Liter Beaker	
Motor & Power	Geared DC Motor with Timing Belt (10:1 ratio), 40W	
Speed & Accuracy	20~300 rpm, ±5 rpm	
Timer	99hr 59min 59sec (Programmable)	
Display	Digital LCD with Back-Light for RPM, Power Bar-Graph and Status	
Controller	Programmable Digital Feedback Controller with Jog-Shuttle Switch (Turn + Push)	
Program Function	10 Steps, 6 Programs, and Storage for Set Values : RPM and Timer	
Florescent Lamp	20W×6 (Independent Light Source for Each Sample)	
Dimension (w×d×h) (mm)	1,000×310×535	
Safety Device	Overload & Over Heat Protector for motor	
Others	PL(Product Liability) Insurance and Storage Function (RPM, Timer)	
Packing and Gross Weight	1,120×430×h740mm, 69 kg	
Electrical Reqts.	1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No. / Price, Each. ₩	230V	SL.SJT06020 — 1,870,000
	120V	SL.SJT06021 — 1,875,000

Stirrers, *Accessories*



SciLab® DURAN glass Stirring Rods, with Round Ends, Φ7 ~ Φ10, L200 ~ 650mm NEW

Borosilicate Glass α 3.3, **글라스핸디 교반봉, 끝부분이 둥근모양, 긁힘방지**

- ***Made of DURAN® Glass Rod : by SciLab Korea.***

∗ Rounded Ends for Extra Safety ∗ Non-Scratching

(1) L200~350mm Length

		Ea. Price,₩
SL.StiS201	Glass Rod, Φ7, ℓ 200mm	3,600
SL.StiS202	, ℓ 250mm	3,650
SL.StiS203	, ℓ 300mm	3,720
SL.StiS204	Glass Rod, Φ8, ℓ 300mm	3,850
SL.StiS205	, ℓ 350mm	3,930

(2) L400~650mm Length

		Ea. Price,₩
SL.StiS206	Glass Rod, Φ8, ℓ 400mm	4,000
SL.StiS207	, ℓ 500mm	4,120
SL.StiS208	Glass Rod, Φ10, ℓ 450mm	5,120
SL.StiS209	, ℓ 500mm	5,290
SL.StiS210	, ℓ 650mm	6,050



Glass Double-ended Stirring Rods

SciLab® DURAN glass Double-ended Stirring Rods, Φ6 ~ Φ10mm, L200 ~ L500mm NEW

Useful for Crushing Clumped Powder and Solids, Borosilicate Glass α 3.3

- ***Made of DURAN® Borosilicate Glass 3.3 Rod : by SciLab Korea.***

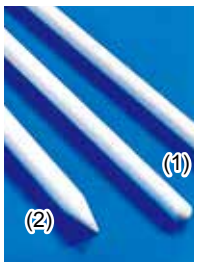
∗ With Rounded Button and Paddle Ends for Extra Safety and to Minimize Scratching
∗ Button End is Useful for Crushing Clumped Powder and Solids

(1) L200~300mm Length

		Ea. Price,₩
SL.StiS211	2-end Rod, Φ6, ℓ 200mm	7,820
SL.StiS212	, ℓ 250mm	7,910
SL.StiS213	, ℓ 300mm	7,950
SL.StiS214	2-end Rod, Φ9, ℓ 300mm	8,370

(2) L350~500mm Length

		Ea. Price,₩
SL.StiS215	2-end Rod, Φ 9, ℓ 350mm	8,460
SL.StiS216	, ℓ 400mm	8,560
SL.StiS217	2-end Rod, Φ10, ℓ 450mm	9,480
SL.StiS218	, ℓ 500mm	9,650



Cowie® PTFE Handy Stirring Rod, with Steel-core or Solid PTFE, Φ6/8×L200~400mm with Steel-core or Solid PTFE, −200℃~+280℃, Teflon 핸디 교반봉

■ ***Made in U.K.*** ＊Can be Bent into a Permanent Shape

(1) With PTFE/Steel Core

		Ea. Price,₩
CW.003.250	PTFE/Steel Rod, Φ6×L250 mm	7,310
CW.003.300	, Φ6×L300 mm	8,720
CW.003.350	, Φ6×L350 mm	11,080
CW.003.400	, Φ6×L400 mm	12,520

(2) With Solid PTFE, Tapered End

		Ea. Price,₩
CW.003.1200	PTFE Rod, Φ8×L200 mm	4,950
CW.003.1250	, Φ8×L250 mm	5,810
CW.003.1300	, Φ8×L300 mm	6,610



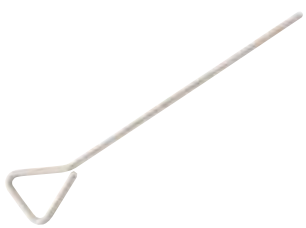
Azlon® PTFE Handy Stirring Rods, Φ6mm, L150~400mm with Steel-Core, Heat/Corrosion Resistance, −200℃~+260℃, PTFE 핸디 교반봉

■ ***Made in U.K.*** ＊Suitable for Stirring Even the Most Corrosive Liquids

＊Will Withstand 260℃ ＊PTFE Covered with Plain Ends

＊6mm Diameter

		Ea. Price,₩
Az.SWN542	PTFE/Steel Rod, Φ6× ℓ 150 mm	6,930
Az.SWN544	, Φ6× ℓ 200 mm	7,620
Az.SWN546	, Φ6× ℓ 250 mm	8,720
Az.SWN548	PTFE/Steel Rod, Φ6× ℓ 300 mm	9,550
Az.SWN550	, Φ6× ℓ 350 mm	12,200
Az.SWN552	, Φ6× ℓ 400 mm	13,730



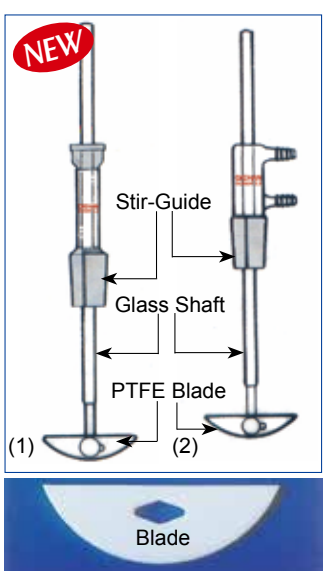
Hammacher® Stainless-steel Strring-Rods, for Bacteriological Applications, L195/150mm Anti-magnetic / Rustless / Acid resistant, 삼각 교반봉 / Drigalski-스파츄라 겸용

■ ***Made in Germany*** ＊For even Spreading or Better Distribution Across Media

＊Made of Wironit™, 18/12 Stainless-steel (STS), Anti-magnetic, Rustless, Acid resistant, MP 1,400℃

＊Used to Mix Different Liquids together to Get a Homogen Liquid

		Ea. Price, ₩
HA.HWN072.19	Stirring-Rod, STS, single-ended, L195 mm	8,410
HA.HWN074.15	, L150 mm	7,790



SciLab® DURAN glass Stir-Guide Set, with PTFE Blade/Impeller NEW for 50~10000mℓ stirring Glass, 유리 교반봉 셋트

■ ***Made of Original DURAN® Borosilicate Glass 3.3 : by SciLab Korea.***

＊Stir-Guide : od.Φ15×id.Φ10mm, internal Ground ＊Shaft / Rod : Φ10mm Ground.

(1) General-type

		Ea. Price, ₩
SL.StiS221	for-50~500 ml, L : 400 mm, ⧩24/40, Blade w52×h14 mm	60,400
SL.StiS222	-500~5000 ml, L : 450 mm, ⧩24/40, Blade w76×h19 mm	60,400
SL.StiS223	-500~5000 ml, L : 450 mm, ⧩34/45, Blade w75×h25 mm	79,080
SL.StiS224	-2000~10000 ml, L : 500 mm, ⧩45/50, Blade w125×h25 mm	82,510

(2) Water Cooled-type

		Ea. Price, ₩
SL.StiS226	for-500~5000 ml, L : 450 mm, ⧩24/40, Blade w76×h19 mm	72,860
SL.StiS227	-500~5000 ml, L : 450 mm, ⧩34/45, Blade w75×h25 mm	73,160
SL.StiS228	-2000~10000 ml, L : 500 mm, ⧩45/50, Blade w125×h25 mm	83,970

Spare ⧩ Stirrer-Guide(Seal), with Internal Ground Φ10mm

		Ea. Price, ₩
SL.StiS231	Stir-Guide, id Φ10×2.5mm, ⧩24/40	23,810
SL.StiS232	, ⧩29/42	23,810
SL.StiS233	, ⧩34/45	33,130



SciLab® DURAN glass Lubri-Stir-Guide/Seals, for Φ8 & Φ10mm shafts, ⧩24/40 & ⧩34/45 with Red PBT Opentop Screwcap & PTFE/Silicone O-ring Seal, 루부리 스타라 씰 NEW

■ ***Made of Original DURAN® PBT Screw Seal Kit / Borosilicate Glass 3.3 : by SciLab Korea***

＊The Cup : To Accept a Suitable Sealing Lubricants <Ex.> : Glycerol, Liquid Paraffin, Spindle Oil, etc.

(1) for Φ8mm Stir-Shafts

		Ea. Price, ₩
SL.StiS235	Lubri-Stir-Guide, for Φ8mm Rod, GL18, ⧩24/40	39,370
SL.StiS236	, GL25, ⧩34/45	50,950

(2) for Φ10mm Stir-Shafts

		Ea. Price, ₩
SL.StiS237	Lubri-Stir-Guide, for Φ10mm Rod, GL18, ⧩24/40	39,640
SL.StiS238	, GL25, ⧩34/45	51,810

Articles	Cat. No	Description

SciLab® Vacuum Stirrer-Guide, with DURAN® PBT Opentop Cap & PTFE/ Silicone O-Ring Seal and ⧲24/- ~ 45/-Glass joints for Φ8~14mm Shafts, with Red PBT Screw Grip System, Chemically Inert, 200℃ Stable, 스크류 스타라 씰 NEW

■ ***Made of DURAN® Borosilicate Glass α 3.3 and Seal Kit with PBT GL-Opentop Screwcap / PTFE-Silicone O-Ring Seal : by SciLab Korea.***



(1) with ASTM ⧲24/40 ~ 45/50 Joints

		Ea. Price,₩
SL.StiS241	for Φ8 mm Rod , GL25, 24/40	21,600
SL.StiS242	, 29/42	26,140
SL.StiS243	, 34/45	29,400
SL.StiS245	for Φ10mm Rod, GL25, 24/40	30,690
SL.StiS246	, 29/42	30,710
SL.StiS247	, GL32, 34/45	40,060
SL.StiS251	for Φ12mm Rod, GL32, 34/45	41,140
SL.StiS252	, 45/50	50,460
SL.StiS253	for Φ14mm Rod, GL32, 34/45	41,870
SL.StiS254	, 45/50	51,310

(2) with DIN ⧲24/29 ~ 45/40 Joints

		Ea. Price,₩
SL.StiS241D	for Φ8 mm Rod , GL25, 24/29	21,600
SL.StiS242D	, 29/32	26,140
SL.StiS243D	, 34/35	29,400
SL.StiS245D	for Φ10mm Rod, GL25, 24/29	30,690
SL.StiS246D	, 29/32	30,710
SL.StiS247D	, GL32, 34/35	40,060
SL.StiS251D	for Φ12mm Rod, GL32, 34/35	41,140
SL.StiS252D	, 45/40	50,460
SL.StiS253D	for Φ14mm Rod, GL32, 34/35	41,870
SL.StiS254D	, 45/40	51,310

SciLab-brand® PTFE Stirrer-Guide/Seals, for Φ8~Φ14mm Shafts, with ⧲24/-, ⧲29/-, and ⧲34/-Joints NEW with 2 Bearings / Screw-Retainer / Viton O-ring, All PTFE, −180~+260℃ Stable, PTFE 스타라 씰



■ ***Made in Korea*** ■ ***Common-use : to ASTM & DIN-type Socket Joints***

(1) for Φ 8mm Stir-Shafts

		Ea. Price,₩
SL.Ada405	for Φ8mm Rod, ⧲24/40	41,140
SL.Ada406	, ⧲29/42	45,260
SL.Ada407	, ⧲34/45	51,430

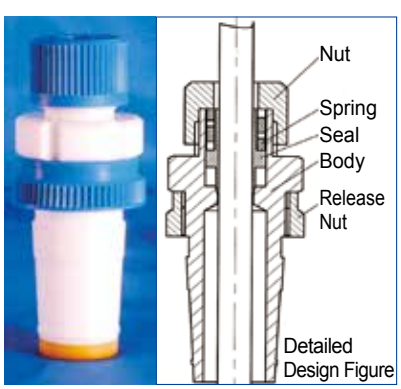
(2) for Φ 10mm Stir-Shafts

		Ea. Price,₩
SL.Ada409	for Φ10mm Rod, ⧲24/40	41,140
SL.Ada410	, ⧲29/42	45,260
SL.Ada411	, ⧲34/45	51,430

(3) for Φ 12 & 14mm Stir-Shafts

		Ea. Price, ₩
SL.Ada413	PTFE Stir-Guide, for Φ12mm Rod, ⧲34/45	56,630
SL.Ada415	, for Φ14mm Rod, ⧲34/45	58,810

⧲Joint-Screw-NPT-PTFE/PEEK High-class Vacuum Stirrer Guide, with ASTM/DIN ⧲Glass Cone Joint, for Φ8~16mm Shafts Ideal for Middle/Low-Vacuum, 500/800rpm, Chemically Inert, −200℃~+280℃ stable, 고품질 진공 ⧲교반씰



for Low/Middle Vacuum/Pressure

■ ***Made of UK.*** ■ ***Suitable for Glass Same Size Socket of ASTM or DIN***

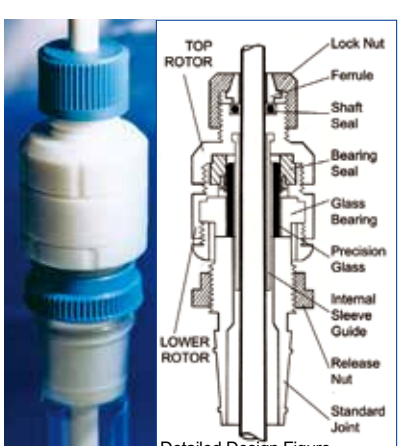
∗ PTFE in the only Media Contact Material

(1) for ASTM Socket Joint Sizes ; for Φ8~Φ16mm Shaft

		Ea. Price, ₩
CW.005.0.0824	Stirrer Seal, USA-type, for-Φ 8mm Shafts, ⧲24/40 Joint	134,150
CW.005.0.1024	-Φ10mm Shafts, ⧲24/40 Joint	134,150
CW.005.0.1034	-Φ10mm Shafts, ⧲34/45 Joint	145,300
CW.005.0.1434	-Φ14mm Shafts, ⧲34/45 Joint *New*	513,690
CW.005.0.1634	-Φ16mm Shafts, ⧲34/45 Joint	190,070

(2) for DIN/ISO Socket Joint Sizes ; for Φ8~Φ16mm Shaft

		Ea. Price, ₩
CW.005.00.0824	Stirrer Seal, EUROPE-type, for-Φ 8mm Shafts, ⧲24/29 Joint	106,410
CW.005.00.1029	-Φ10mm Shafts, ⧲29/32 Joint	112,700
CW.005.00.1045	-Φ10mm Shafts, ⧲45/40 Joint	147,150
CW.005.00.1434	-Φ14mm Shafts, ⧲34/35 Joint *New*	510,490
CW.005.00.1645	-Φ16mm Shafts, ⧲45/40 Joint	187,810



for High Vacuum / Pressure

Cowie® High-Vacuum / Pressure Stirrer Guides, ⧲ PTFE/PEEK/Glass-Bearing Seal for Φ8~16mm Shafts, Useable up to 800rpm, 280℃ stable, 고진공/압력용 교반 씰

■ ***Made in U.K.*** ■ ***High Vacuum 5mmHg & Pressure 3~5psi Performance***

∗ Anti-Whip, Reduced Vibration, No-Shedding, Self-Releasing Joint Ring, Totally Inert.

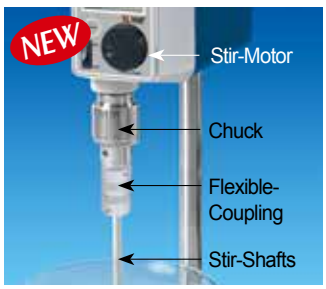
∗ Specially Fabricated Glass Ball-Bearing & PTFE/PEEK Seal : Useable up to 800rpm

(1) for ASTM Socket Joint Sizes ; for Φ8~16 mm Shafts

		Ea. Price, ₩
CW.005.1047	Stirrer Seal, USA-type, for-Φ 8mm Shafts, ⧲24/40 Joint	312,740
CW.005.1057	-Φ10mm Shafts, ⧲24/40 Joint	312,740
CW.005.1067	-Φ10mm Shafts, ⧲29/42 Joint	312,740
CW.005.1097	-Φ14mm Shafts, ⧲34/45 Joint *New*	861,450
CW.005.1117	-Φ16mm Shafts, ⧲34/45 Joint	365,930

(2) for DIN/ISO Socket Joint Sizes ; for Φ10~16 mm Shafts

		Ea. Price, ₩
CW.005.2067	Stirrer Seal, EUROPE-type, for-Φ10mm Shafts, ⧲29/32 Joint	284,280
CW.005.2077	-Φ10mm Shafts, ⧲34/35 Joint	284,280
CW.005.2097	-Φ14mm Shafts, ⧲34/35 Joint *New*	845,500
CW.005.2127	-Φ16mm Shafts, ⧲45/40 Joint	332,680



Flexible Couplings, for Safety Stirring of Φ6~16mm Shafts of Overhead Stirrers NEW
for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 카푸링

■ Used to Compensate Any Vibrations Between The Motor and Stirring Shafts

∗ Made in Korea ∗ Shaft Fastening by Screw Clamp Band ∗ Made of DURALUMIN
∗ with Exchangeable STS Chucking Rod Φ8 / 10 / 12mm, L40mm

(1) UTILITY High-Flex. Metal Coupling, with 2×Flex-band, for Φ6~16mm Stir-Shafts
Ideal for Low/High Viscosity and High/Low Speed



(1) Hi-flex Metal for Φ6~16 Shafts | (2) Heavy-duty Metal for Φ10~16 Shafts

		Ea.	Price, ₩
SL.StiC011	Stir-Coupling, Hi-flex, Φ8mm Chuck-rod , for-Φ6mm Stir-Shaft , 56g , Φ25×h44mm		60,500
SL.StiC012	-Φ8mm Stir-Shaft , 53g , Φ25×h44mm		60,500
SL.StiC013	-Φ10mm Stir-Shaft, 49g , Φ25×h44mm		60,500
SL.StiC014	Stir-Coupling, Hi-flex, Φ10mm Chuck-rod, for-Φ8mm Stir-Shaft , 49g , Φ25×h44mm		60,500
SL.StiC015	-Φ10mm Stir-Shaft, 43g , Φ25×h44mm		60,500
SL.StiC016	-Φ12mm Stir-Shaft, 33g , Φ25×h44mm		60,500
SL.StiC017	Stir-Coupling, Hi-flex, Φ12mm Chuck-rod, for-Φ10mm Stir-Shaft, 33g , Φ25×h44mm		60,500
SL.StiC018	-Φ12mm Stir-Shaft, 123g, Φ32×h60mm		72,600
SL.StiC019	-Φ14mm Stir-Shaft, 120g, Φ32×h60mm		72,600
SL.StiC020	-Φ16mm Stir-Shaft, 118g, Φ32×h60mm		72,600

(2) Heavy-duty Metal Coupling, with Short Flex-band, for Φ10~16mm Stir-Shafts
Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

		Ea.	Price, ₩
SL.StiC023	Stir-Coupling, Low-flex, Φ10mm Chuck rod, for-Φ10mm Stir-Shafts., 45g , Φ25×h30		30,500
SL.StiC024	-Φ12mm Stir-Shafts., , Φ25×h30		30,500
SL.StiC025	Stir-Coupling, Low-flex, Φ12mm Chuck rod, for-Φ12mm Stir-Shafts., 105g, Φ32×h38		40,660
SL.StiC026	-Φ14mm Stir-Shafts., , Φ32×h38		40,660
SL.StiC027	-Φ16mm Stir-Shafts., , Φ32×h38		40,660



(3) Rubber Based for Φ7~10 Shafts

(3) Very Flexible Rubber Based Coupling, for Φ7~10mm Shafts
Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed

∗ Made in Germany ∗ Shaft Fastening by Screw Compression Rubber Ring Pad.
∗ with Φ10×L40mm Exchangeable Stainless-steel Chucking Rod

		Ea.	Price, ₩
WI.1445000	Stir-Coupling, Rubber Based, for Φ7~Φ10mm Shafts, 72.5g, Body Φ46×h80mm		186,800

SciLab® Stainless-steel Stirring Shafts, for Lab & Industrial Overhead Stirrers, Rod Φ8~12×L500~1000mm NEW
Ideal for Universal-use of Wide-range Speed & Viscosity, 스텐레스 교반봉 / 임펠라



(1) 3-bladed Propeller-type Universal-use

■ Made in Korea ■ Made of Rustless Stainless-steel #304
■ Recommended to use with Flexible Coupling for Gentle Stirring & Safety Working
■ The Rod may be Cut to Any Length with a Hacksaw
■ Good Finished : Surface & Stirring Center

(1) 3-bladed Propeller-type, ideal for Universal-use in Middle/High Speed
with Rod Φ8~12×L500~1000, Rotor Φ50~140 mm, and Good for Low/Middle Viscosity

∗ Designed for Efficient Flow : mixed from Top to Bottom of Vessel
∗ Minimum Shearing

		Ea.	Price, ₩
SL.StiS721	Stir-Shaft, **"S721"**, #304, Rod-Φ8×L500, Rotor-Φ50×h15 mm		13,560
SL.StiS722	, **"S722"**, -Φ8×L500, -Φ60×h15 mm		13,560
SL.StiS723	, **"S723"**, -Φ8×L650, -Φ80×h20 mm		14,520
SL.StiS724	, **"S724"**, -Φ8×L650, -Φ100×h24 mm		14,520
SL.StiS726	Stir-Shaft, **"S726"**, #304, Rod-Φ10×L500, Rotor-Φ60×h15 mm		14,520
SL.StiS727	, **"S727"**, -Φ10×L650, -Φ80×h20 mm		15,490
SL.StiS728	, **"S728"**, -Φ10×L800, -Φ100×h24 mm		16,850
SL.StiS729	Stir-Shaft, **"S729"**, #304, Rod-Φ12×L1000, Rotor-Φ140×h30 mm		21,300



(2) 4-bladed Propeller-type Standard-model

(2) Standard 4-bladed Propeller-type, ideal for Low/Middle Speed & Viscosity
Popular-model, with Rod Φ8~12×L500~1000, Rotor Φ50~140 mm, 45°Angled

		Ea.	Price, ₩
SL.StiS731	Stir-Shaft, **"S731"**, #304, Rod-Φ8×L500, Rotor-Φ50×h20 mm		13,560
SL.StiS732	, **"S732"**, -Φ8×L500, -Φ70×h25 mm		13,560
SL.StiS733	, **"S733"**, -Φ8×L650, -Φ90×h35 mm		14,520
SL.StiS734	, **"S734"**, -Φ8×L650, -Φ110×h35 mm		14,520
SL.StiS736	Stir-Shaft, **"S736"**, #304, Rod-Φ10×L650, Rotor-Φ90×h35 mm		15,490
SL.StiS737	, **"S737"**, -Φ10×L800, -Φ110×h40 mm		15,880
SL.StiS738	, **"S738"**, -Φ10×L1000, -Φ110×h40 mm		18,590
SL.StiS739	Stir-Shaft, **"S739"**, #304, Rod-Φ12×L1000, Rotor-Φ140×h40 mm		21,300

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Articles	Cat. No	Description

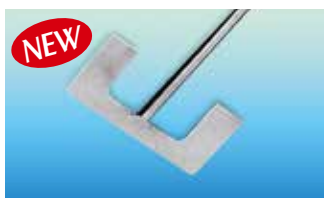
<*Continued From...*SciLab® Stainless-steel Stirring Shafts>



(3) 4-bladed Dissolver Diamond-type

(3) 4-bladed Dissolver Diamond-type, Good for Particle Reduction in Middle/High Speed with Rod Φ8 & 10×L500~650, Rotor Φ70~110 mm, and Good for Low/Middle Viscosity

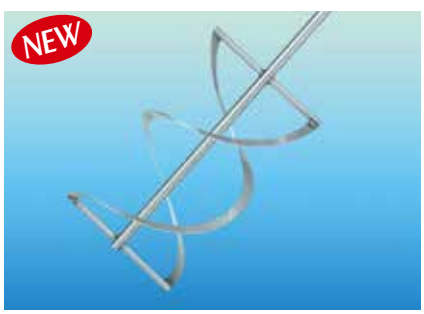
		Ea. Price, ₩
SL.StiS741	Stir-Shaft, **"S741"**, #304, Rod-Φ8×L500, Rotor-Φ70×h20 mm	13,560
SL.StiS742	, **"S742"**, -Φ8×L500, -Φ90×h25 mm	13,560
SL.StiS743	, **"S743"**, -Φ8×L650, -Φ110×h25 mm	14,520
SL.StiS744	Stir-Shaft, **"S744"**, #304, Rod-Φ10×L650, Rotor-Φ110×h25 mm	15,490



(4) Heavy-duty Anchor-type

(4) Heavy-duty Anchor-type, ideal for Middle/High Viscosity, Rod Φ8~12mm Good for Low/Middle Speed, Rotor Φ70~180 mm

		Ea. Price, ₩
SL.StiS751	Stir-Shaft, **"S751"**, #304, Rod-Φ8×L500, Rotor-Φ70×h14 mm	12,420
SL.StiS752	, **"S752"**, -Φ8×L650, -Φ90×h16 mm	13,510
SL.StiS753	Stir-Shaft, **"S753"**, #304, Rod-Φ10×L650 , Rotor-Φ90×h16 mm	14,380
SL.StiS754	, **"S754"**, -Φ10×L800 , -Φ140×h25 mm	16,340
SL.StiS755	, **"S755"**, -Φ10×L1000, -Φ160×h30 mm	19,610
SL.StiS757	Stir-Shaft, **"S757"**, #304, Rod-Φ12×L1000, Rotor-Φ180×h30 mm	23,960



(5) Heavy-duty Helical Ribbon-type

(5) Heavy-duty Helical Ribbon-type, ideal for Middle/High Viscosity and Lab~Industry with Rod Φ8~12mm, L500~1000, Rotor Φ60~190mm, Good for Reaction-system.

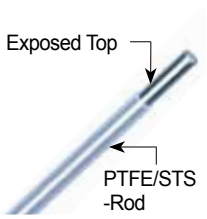
* Patented Helical Ribbon High Efficient Mixing Performance * Generates Axial Flow.
* Designed for Middle / High Viscosity. High Flow Rate and Efficient Mixing.
* For Homogeneous Mixing and Medium is Conveyed from the Bottom upwards.

		Ea. Price, ₩
SL.Sti761	Stir-Shaft, **"S761"**, #304, Rod-Φ8×L500, Rotor-Φ60×h70 mm	38,800
SL.Sti762	, **"S762"**, -Φ8×L650, -Φ80×h90 mm	50,900
SL.Sti763	Stir-Shaft, **"S763"**, #304, Rod-Φ10×L650 , Rotor-Φ115×h130 mm	59,300
SL.Sti764	, **"S764"**, -Φ10×L800 , -Φ125×h165 mm	69,000
SL.Sti765	, **"S765"**, -Φ10×L1000, -Φ160×h215 mm	75,100
SL.Sti766	Stir-Shaft, **"S766"**, #304, Rod-Φ12×L1100, Rotor-Φ190×h400 mm	84,500

SciLab® PTFE Stirring Shafts, with Stainless-steel Insert, for Lab & Industrial Overhead Stirrers, Rod Φ8~14×L500~1100mm NEW

Ideal for PURE Working & Universal-use of Wide-range Speed & Viscosity, Chemically Inert, −200℃+280℃-stable, PTFE 교반봉/임펠러

- ***Made in Korea*** ■ ***Recommended to Use with a Flexible Coupling for Gentle Stirring & Safety Working.***
- ***The PTFE Rod with Stainless Steel Insert : (1) OD Φ8mm with Φ6mm Steel Insert- " Φ8/6",***
  (2) OD Φ10mm with Φ8mm Steel Insert-"Φ10/8",
  (3) OD Φ12mm with Φ10mm Steel Insert- " Φ12/10" ,
  and OD Φ14mm with Φ12mm Steel Insert- " Φ14/12".
- ***Rod may be Cut to Any Length with a Hacksaw.***
- ***Ideal for PURE-Working / Chemically Inert / Non-Contaminating /Thermally Stable, -200℃+280℃-stable.***
- ***Exposed Top Rod 4~5cm (Stainless steel Core) : For Strong Clamping in the Stir-Chuck or Flexible Coupling.*** ⇒





(1) 2-bladed Centrifugal-type
Good for Narrow-Neck
<ex> ⧩24/- & 34/-Joint neck

(1) 2-bladed Centrifugal-type, ideal for ⧩24/- & ⧩34/-Joints(Narrow) Necks & Low Viscosity with Rod Φ8 & 10×L500~650, Rotor Φ50~100 mm, and Good for Middle/High Speed

		Ea. Price, ₩
SL.StiS403	Stir-Shaft, PTFE, Rod-Φ8/6×L500, Swingrotor-Φ50×h14 mm, fit to ⧩24/-joints	38,720
SL.StiS404	-Φ8/6×L500, -Φ70×h17 mm, fit to ⧩24/-joints	41,300
SL.StiS405	-Φ8/6×L650, -Φ100×h24 mm, fit to ⧩34/-joints	45,600
SL.StiS406	Stir-Shaft, PTFE, Rod-Φ10/8×L650, Swingrotor-Φ100×h24 mm, fit to ⧩34/-joints	48,900



(2) Standard 4-bladed
Propeller-type

(2) Standard 4-bladed Propeller-type, ideal for Low/Middle Speed and High Viscosity Good for Reactors, with Rod Φ8~14×L500~1100 and Rotor Φ50~140 mm, 45°Angled

* Standard Stirring Shafts. * Designed for Efficient Mixing : from Top to Bottom of Vessel

		Ea. Price, ₩
SL.StiS410	Stir-Shaft, PTFE, Rod-Φ8/6×L500, Rotor-Φ50×h20mm	61,960
SL.StiS411	-Φ8/6×L500, -Φ70×h25mm	73,180
SL.StiS412	-Φ8/6×L650, -Φ70×h25mm	75,200
SL.StiS413	Stir-Shaft, PTFE, Rod-Φ10/8×L650 , Rotor-Φ90×h35mm, Good for 5~10 Lit Vessels	88,070
SL.StiS414	-Φ10/8×L800 , -Φ90×h35mm, Good for 10~20 Lit Vessels	92,200
SL.StiS415	-Φ10/8×L1000, -Φ90×h35mm, Good for 20~50 Lit Vessels	97,600
SL.StiS416.1	Stir-Shaft, PTFE, Rod-Φ12/10×L800 , Rotor-Φ110×h40mm, Good for 10~20 Lit Vessels	140,500
SL.StiS416.2	-Φ12/10×L1000, -Φ110×h40mm, Good for 30~50Lit Vessels	160,800
SL.StiS416.3	-Φ12/10×L1000, -Φ140×h40mm, Good for 30~80Lit Vessels	303,500
SL.StiS417	Stir-Shaft, PTFE, Rod-Φ14/12×L1100, Exchangeable Rotor-Φ140×h40mm, Good for 50~100Lit Reactors	323,700

<*Continued On Next Page*>

Articles	Cat. No	Description

<Continued From...SciLab® PTFE Stirring Shafts>



(3) with 2-Rotors, Propeller-type

(3) with 2-Exchangeable Rotors of 4-bladed Propeller-type, for 20~100Lit Reaction Vessels
Ideal for High Viscosity/ Large Volume Stirring, with Rod Φ12 & 14 ×L 800~1100 mm

* Translucent PFA Shaft with Stainless-steel Insert, Totally Chemical Inert

		Ea. Price, ₩
SL.StiS416.4	Stir-Shaft, PTFE, for 20~30Lit, Rod-Φ12/10×L800, 2-Rotors of (1) Exchangeable 1st Rotor Φ110×h40 and (2) Bottom Rotor Φ110×h40mm	355,000
SL.StiS418	Stir-Shaft, PTFE, for 30~80Lit, Rod-Φ12/10×L1000, 2-Rotors of (1) Exchangeable 1st Rotor Φ110×h40 and (2) Bottom Rotor Φ140×h40mm	375,500
SL.StiS419	Stir-Shaft, PTFE, for50~100Lit, Rod-Φ14/12×L1100, 2-Rotors of (1) Exchangeable 1st Rotor Φ140×h40 and (2) Bottom Rotor Φ140×h40mm	529,600


(4) Heavy-duty Anchor-type

(4) Heavy-duty Anchor-type, ideal for Middle/High Viscosity, Rod Φ8~12mm
Good for Low/Middle Speed, Rotor Φ80~140 mm ■ ***Made in UK.***

		Ea. Price, ₩
CW.005.340.82	Shaft, Φ8×L400㎜ Rod, Φ80㎜ Anchor	59,290
CW.005.350.82	, Φ8×L500㎜ Rod, Φ80㎜ Anchor	60,060
CW.005.355.2	, Φ10×L550㎜ Rod, Φ100㎜ Anchor	61,970
CW.005.0365.102	, Ex-type, Φ10×L650mm Rod, Φ140mm Anchor	78,590
CW.005.0375.102	, Φ10×L750mm Rod, Φ140mm Anchor	79,420
CW.005.0375.122	, Φ12×L750mm Rod, Φ140mm Anchor	109,380
CW.005.03100.122	, Φ12×L1000mm Rod, Φ140mm Anchor *New*	119,650



(1) Glass-shafts


(2) PTFE-shafts

GLASS and PTFE/Steel Cored Shafts and PTFE Blades, Exchangeable NEW
Ideal for ₸24/- & ₸34/-Joint (Narrow) Necks, 교체형 글라스 & PTFE 교반봉과 임펠라

* Glass Shafts : DURAN Borosilicate Glass 3.3 Rod Φ8 & 10mm : Made in Korea
* PTFE Encapsulated Stainless-steel Shafts Φ8 & 12mm, -200℃ +280℃ Stable : Made in U.K.

(1) GLASS-Shafts, Φ8/10, L400~600mm

		Ea. Price,₩			Ea. Price,₩
SL.StiS260	Glass-Shaft, Φ8, L400mm	22,750	**SL.StiS265**	Glass-Shaft, Φ10, L400mm	22,990
SL.StiS261	, L500mm	22,870	**SL.StiS266**	, L500mm	23,490
SL.StiS262	, L600mm	22,990	**SL.StiS267**	, L600mm	23,680

(2) Cowie® PTFE/Steel Cored Shafts, Φ8 & 12mm, L400~750mm, without Blade

* The Rod may by Cut to Any Length with a Hacksaw

		Ea. Price,₩			Ea. Price,₩
CW.005.540.81	Shaft, PTFE, Φ8×L400mm	41,910	**CW.005.565.1**	Shaft, PTFE, Φ10×L650mm	42,540
CW.005.550.81	, Φ8×L500mm	42,730	**CW.005.0575.101**	, Φ10×L750mm	54,350
CW.005.555.1	, Φ10×L550mm	41,680	**CW.005.0575.121**	, Φ12×L750mm	87,720



(3) PTFE Blade, with Φ6.5 Connect-hole

(3) Cowie® PTFE Stir-Blades, Thick-3.2mm, Ideal for ₸24/- & ₸34/-Joint Necks

① with Square End, Fit to ₸24/-Joints

		Ea. Price,₩
CW.002.052.1	Blade, Squ. 52×h14mm	2,690
CW.002.076.1	. 76×h19mm	3,490
CW.002.090.1	. 90×h28mm	4,740

② with Plain End, Fit to ₸34/-Joints

		Ea. Price,₩
CW.002.1065.1	Blade, Pla. 65×h25mm	3,680
CW.002.1075.1	. 75×h25mm	3,900
CW.002.1105.1	. 105×h25mm	4,450
CW.002.1125.1	. 125×h25mm	4,600
CW.002.1150.1	. 150×h25mm	5,110



(1) Glass



(2) PFA

Glass & PFA (Stainless-steel Insert) PLAIN Shafts, for Exchangeable Rotors NEW
for Exchangeable Rotors, 글라스 및 스텐심 PFA봉

■ ***Made in Korea***

(1) DURAN® Glass Shaft, Round Ends, Boro. Glass 3.3, Φ8 & 10, L400~650mm

* Good for Eco-Pure Work

		Ea. Price,₩			Ea. Price,₩
SL.StiS206	Glass Shaft, Φ8×L400mm	4,000	**SL.StiS208**	Glass Shaft, Φ10×L450mm	5,120
SL.StiS207	, Φ8×L500mm	4,120	**SL.StiS209**	, Φ10×L550mm	5,290
			SL.StiS210	, Φ10×L650mm	6,050

(2) PFA with Stainless-steel Insert Shafts, Φ8~14×L500~1100mm

* The Rod may by Cut to Any Length with a Hacksaw * Translucent PFA, Totally Chemical Inert, -200℃ +260℃

		Ea. Price,₩			Ea. Price,₩
SL.StiS451	Shaft, PFA, Φ8/6×L500mm	53,600	**SL.StiS455**	Shaft, PFA, Φ10/8×L800mm	67,400
SL.StiS452	, Φ8/6×L650mm	55,800	**SL.StiS456**	, Φ12/10×L800mm	77,800
SL.StiS453	, Φ8/6×L800mm	57,400	**SL.StiS457**	, Φ12/10×L1000mm	80,600
SL.StiS454	, Φ10/8×L650mm	65,600	**SL.StiS458**	, Φ14/12×L1100mm	120,000



(1) "Screw Propeller" only
Φ50 ~ Φ140mm



(2) "Turbine" Rotor Only
Φ50 ~ Φ150mm

All PTFE Adjustable / Exchangeable Rotors, for Shaft Φ8~16mm NEW
for Shaft Φ8~16mm, PTFE 교체형/조절식 교반 임펠러

■ ***The Exchangeable Rotors fit to Φ8~16mm Rods and Lock in place with Screw Nut***

(1) SciLab® Exchangeable "Screw Propeller" Rotor, 45°Angled 4 Blade

∗ Made in Korea

		Ea. Price,₩
SL.StiS461	Rotor, PTFE, for Shaft-Φ8, Rotor-Φ50×h20mm	54,100
SL.StiS462	-Φ70×h25mm	56,300
SL.StiS463	, for Shaft-Φ10, Rotor-Φ70×h25mm	56,300
SL.StiS464	-Φ90×h35mm	88,400
SL.StiS465	, for Shaft-Φ12, Rotor-Φ110×h40mm	90,700
SL.StiS466	, for Shaft-Φ14, Rotor-Φ140×h40mm	130,900

(2) Cowie® Exchangeable "Turbine" Rotor only, Φ50~150mm

∗ Made in UK.

		Ea. Price,₩
CW.005.90850	PTFE Turbine, for Shaft-Φ8mm, Rotor-Φ50mm	61,110
CW.005.90875	-Φ75mm	77,540
CW.005.91075	, for Shaft-Φ10mm, Rotor-Φ75mm	80,000
CW.005.910100	-Φ100mm	102,810
CW.005.912100	, for Shaft-Φ12mm, Rotor-Φ100mm	108,360
CW.005.916150	, for Shaft-Φ16mm, Rotor-Φ150mm	180,440

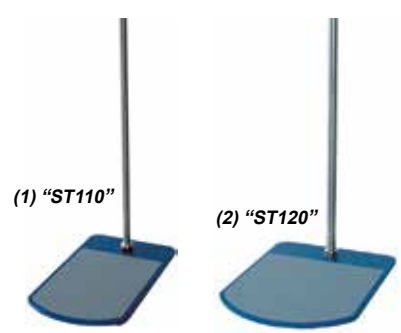


(1) (2) (3) (4)

Kartell® PP & PVC Plastic Stirring Shafts, PP-Blade, PVC-Rod with Steel Core, Rod Φ8×L350mm
Good for Acid & Chemicals resistance, PP & PVC 플라스틱 교반봉/임펠라

■ ***Supplied by Kartell® in Italy***
■ ***Ideal for Acids, Chemicals and Anti-corrosion***
■ ***Material : PP-Blade, PVC-Rod with Steel Core: Φ8×L350 mm***

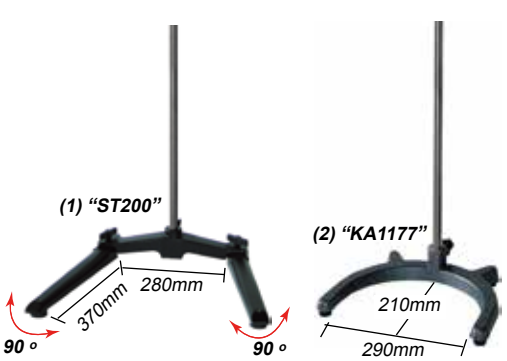
		Ea. Price, ₩
KA.428	(1) Stirring Paddle, with 2 fixed blade (w39×h15 mm), Rod Φ8×L350mm	21,980
KA.430	(2) , "U" shaped blade (w65×h78 mm), Rod Φ8×L350mm	21,980
KA.431	(3) , with 2 flexible paddle (Swing w57 mm), Rod Φ8×L350mm	25,080
KA.432	(4) , with 2 flexible paddle (Swing w98 mm), Rod Φ8×L350mm	25,080



DAIHAN-brand® Premium Plate Stand, High Quality
with Stainless-steel Rod Φ16/23 mm

■ ***Made in Korea*** ■ ***High-Quality Plate-type Stand with Support Rod***
■ ***Wide and Thick Steel Plate for Safety Mechanism*** ■ ***Silicon Rubber Pad adhered***
■ ***with 1.5P Screwed Support Rod made of Stainless-steel specially designed***

		Ea. Price, ₩
DH.WOS501510	(1) **"ST110"** Standard Steel Plate Stand, Powder Coated, with Base Plate/Silico ne Pad, for Stirrer and Homogenizer, Base Plate w20×35cm **"RD 511"** 1.5P Screw Rod, Φ16×h800 mm	78,000
DH.WOS501515	(2) **"ST120"** Wide Steel Plate Stand, Powder Coated, with Base Plate/Silicone Pad, for Stirrer and Homogenizer, Base Plate w30×40 cm **"RD 522"** 1.5P Screw Rod, Φ23×h1000 mm	94,000



DAIHAN-brand® Heavy Duty Safety Stand, High Safety
with Stainless-steel Rod Φ23mm

■ ***Made in Korea*** ■ ***Never Fall Down by Safety Mechanism.***
■ ***High-Safety H-/U-type Stand with Stainless-steel Support Rod***
■ ***Adjustable Foot Distance (ST200)***

(1) Adjustable Foot Distance Deluxe Safety Stand

		Ea. Price, ₩
DH.WOS501520	Deluxe Safety Stand, **"ST200"**, H-type Base w39~75cm adjust, RodΦ23×h1200mm	141,000

(2) U-type Safety Stand

		Ea. Price, ₩
DH.WOS1177	Safety Stand, **"KA1177"**, U-type Base w34/29×27/21cm, RodΦ23×h800mm	66,000

Articles	Cat. No	Description



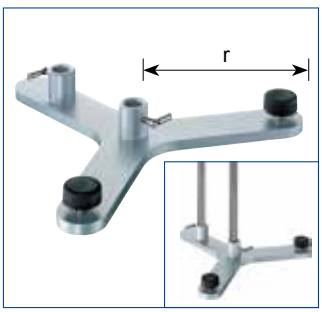
Clamp "CL200"

SciLab-brand® Universal Jumbo Clamp Holder, for Stand/Rod NEW

■ ***Made in Korea***

∗ Cast-Aluminium
∗ Ideal for Reactor Flame

		Ea.	Price, ₩
SL.Cla8011	Clamp Holder, **"CL200"**, Cast Aluminum, Grip Capacity, Φ23mm for Stand/Rod		15,000



Steel Retort Base Duo Stand

Steel Retort Base Duo Stand, for 2×Plain Rods of up to Φ16mm, without Rods with Hinged Set Screw M6, Nonskid Feet equipped, 2×Level Screw Nut, and Base Thick-8mm

■ ***Made in Germany***

∗ Can Fix Rods up to 2ea (Below Φ16mm)

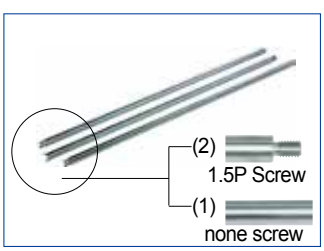
Retort Stand Base only

		Ea.	Price, ₩
US.2040	Stand Base only, **"US2040"**, r =150mm		62,860
US.2041	, **"US2041"**, r =185mm		85,720

Optional Stainless-steel Rod of Φ16mm, without Screw

		Ea.	Price, ₩
DH.WOS502001	Stainless-steel Rod, **"RD501"**, Φ16×h800mm, non-screw		19,000
DH.WOS502002	, **"RD502"**, Φ16×h1000mm, non-screw		22,000
DH.WOS502003	, **"RD503"**, Φ16×h1200mm, non-screw		22,000

DAIHAN-brand® Φ16 & 23mm High-Quality Stainless-steel (#304) Rods, for Stand Bases



Stainless-steel Rods
With or Without 1.5P Screw

(1) Plain-type Φ16mm Rod, without Screw

		Ea.	Price, ₩
DH.WOS502001	Stainless-steel Rod, **"RD501"**, Φ16×h800mm, non-screw		19,000
DH.WOS502002	, **"RD502"**, Φ16×h1000mm, non-screw		22,000
DH.WOS502003	, **"RD503"**, Φ16×h1200mm, non-screw		22,000
DH.WOS502031	Stainless-steel Rod, **"RD531"**, Φ23×h800mm, non-screw		32,000
DH.WOS502033	, **"RD533"**, Φ23×h1200mm, non-screw		28,000

(2) 1.5P Screw-type Φ16 & 23mm Rod

		Ea.	Price, ₩
DH.WOS502011	Stainless-steel Rod, **"RD511"**, Φ16×h800mm, 1.5P Screw		25,000
DH.WOS502012	, **"RD512"**, Φ16×h1000mm, 1.5P Screw		25,000
DH.WOS502013	, **"RD513"**, Φ16×h1200mm, 1.5P Screw		25,000
DH.WOS502021	Stainless-steel Rod, **"RD521"**, Φ23×h800mm, 1.5P Screw		26,000
DH.WOS502022	, **"RD522"**, Φ23×h1000mm, 1.5P Screw		26,000
DH.WOS502023	, **"RD523"**, Φ23×h1200mm, 1.5P Screw		26,000

SciLab Korea

Ultrasonic Cleaners

Ultrasonic Cleaners - Analog ..... P. 221
- Digital ..... P. 222

• Analog Ultrasonic Cleaners



"UltraCln™ Ang"

• Digital Ultrasonic Cleaner



"UltraCln™ Digi"

SciLab-brand® Analog Ultrasonic Cleaners, *"UltraCln™ Ang"*, Timer/Temp. Output Controller, with Certi. & Traceability with Stainless-steel Flat Lid, Highly Effective Cleaning, up to 85℃, 0~30min, 28/40kHz Frequency, without Basket

초음파 세척기, 온도 및 시간 설정, 고효율, 다용도, 리드 포함



Analog Ultrasonic Cleaner with Flat Lid
"UltraCln™ Ang-10H"



Analog Ultrasonic Cleaner with Flat Lid
"UltraCln™ Ang-06H"

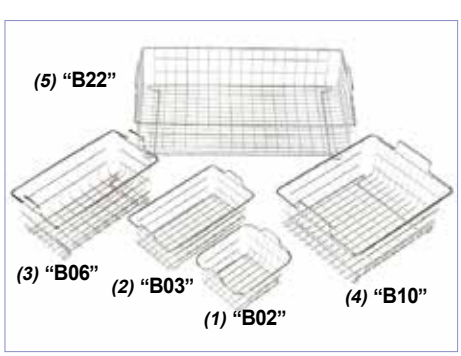
- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Made of Stainless-steel, Finished Surface***
- ***Analog Controller, Timer, Temperature and Output Control***
- ***PL (Product Liability) Insurance***

* Useful for Cleaning to Remove Dirt, Grease, Waxes and Oil from all Lab Instruments by Ultrasonic Frequency
* Made of Stainless-steel, Finished Surface
* Analog Controller, Timer, Temperature and Output Control
* Temperature Range from Ambient to 85℃. (1.2 & 1.8 Lit. : 65℃ Fixed)
* Convenient Preset Function : Heating and Timer
* HF-Frequency : 40kHz
* Bottom-Mounted Drain (Ang-10H and Ang-22H)
* Maximum 30 minutes of Cleaning Time (Except Ang-10H)

Specifications & Ordering information

Spec. \ Model	"Ang-01H"	"Ang-02H"	"Ang-03H"	"Ang-06H"	"Ang-10H"	"Ang-22H"
Capacity	1.2 Lit.	1.8 Lit.	3.3 Lit.	6 Lit.	10 Lit.	22 Lit.
Frequency	40KHz					
HF-Peak Out	72 W	75 W	124 W	168 W	265 W	379 W
Heating Temp.	65℃ Fixed	65℃ Fixed	ambient to 85℃	ambient to 85℃	ambient to 85℃	ambient to 85℃
Heating Power	86 W	86 W	172 W	172 W	258 W	275 W
Timer	None	0~30 min.	0~30 min.	0~30 min.	0~30 min.	0~30 min.
Drain-Valve	None	None	None	None	1/2″ NPT	1/2″ NPT
Tank Size inner (w×d×h) (mm)	150×135×60	150×135×100	240×140×100	290×150×150	290×240×150	500×300×150
Weight	1.8 kg	2.5 kg	4 kg	5.3 kg	7 kg	11 kg
Packing Dimension (w×d×h) (cm)	20×20×19	20×20×24	32×20×29	37×22×35	43×32×36	64×38×37
Gross Weight	3 kg	4 kg	5 kg	6 kg	7 kg	11 kg
Power Consumption	158 W	161 W	296 W	340 W	523W	654 W
Electrical Reqts.	1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz					
Cat. No. 230V	SL.SUC.A01H	SL.SUC.A02H	SL.SUC.A03H	SL.SUC.A06H	SL.SUC.A10H	SL.SUC.A22H
Cat. No. 120V	SL.SUC.A101H	SL.SUC.A102H	SL.SUC.A103H	SL.SUC.A106H	SL.SUC.A110H	SL.SUC.A122H
Price, Each. ₩	170,000	270,000	448,000	757,000	1,021,000	1,438,000

*** Other Specifications are available upon Customer's Request.**



Stainless-steel Wire Baskets (Optional)

Optional Stainless-steel Wire Baskets

		Ea. Price, ₩
DH.WUC.B02	(1) Basket, Wire, **"B02"**, for 1.8 Lit., 120×105×h65mm	53,000
DH.WUC.B03	(2) , **"B03"**, for 3.3 Lit., 215×115×h65mm	63,000
DH.WUC.B06	(3) , **"B06"**, for 6 Lit., 247×123×h96mm	74,000
DH.WUC.B10	(4) , **"B10"**, for 10 Lit., 262×206×h93mm	84,000
DH.WUC.B22	(5) , **"B22"**, for 22 Lit., 452×263×h93mm	105,000

SciLab-brand® Digital Ultrasonic Cleaner-set, *"UltraCln™ Digi"*, Microprocessor Control, 3.3-/6-/10-/22- Lit

with Stainless-steel Wire Basket & Flat Lid, Highly Effective Cleaning, up to 80℃, 0~60min, 40kHz Frequency

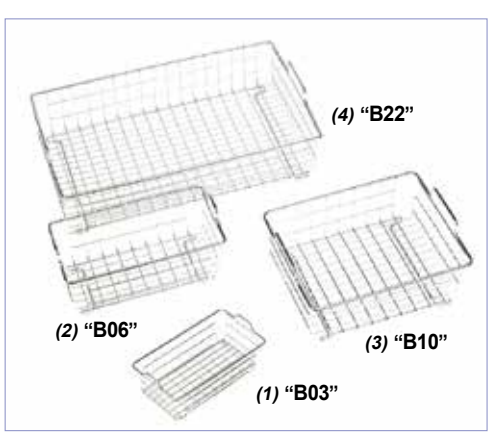
디지털 초음파 세척기 세트, 와이어 바스켓 및 리드 포함, 마이크로프로세서 제어



Digital Ultrasonic Cleaner Set, "UltraCln™ Digi-10H" with Flat Lid and Wire Basket



Digital Ultrasonic Cleaner Set , "UltraCln™ Digi-03H" with Flat Lid and Wire Basket



Stainless-steel Wire Baskets (included)

- ***Made in Korea*** ***CE Certified***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System***
- ***Useful for Cleaning to Remove Dirt, Grease, Waxes and Oil from all Lab Instruments by Ultrasonic Frequency***
- ***Microprocessor Control : Timer, Temperature and Output Control***
- ***PL (Product Liability) Insurance***

* Useful for Cleaning to Remove Dirt, Grease, Waxes and Oil from all Lab instruments by Ultrasonic Frequency
* Microprocessor Control : Timer, Temperature and Output Control
* Multi-Frequency Sonication Body
* HF-Frequency : 40kHz
* Temperature Range from Ambient to 80℃
* Convenient Preset Function : Heating and Timer
* Drain is mounted in the bottom (Digi-10H, Digi-22H)
* Maximum 60 minutes of Cleaning Time
* Very Strong Cleansing Degassing Function

Specifications & Ordering information

Spec. \ Model		"Digi-03H"	"Digi-06H"	"Digi-10H"	"Digi-22H"
Capacity		3.3 Lit.	6 Lit.	10 Lit.	22 Lit.
Frequency		40kHz	40kHz	40kHz	40kHz
HF-peak out		100W	253W	407W	528W
Heat temp.		ambient to 80℃	ambient to 80℃	ambient to 80℃	ambient to 80℃
Heating Power		172W	172W	258W	344W
Timer		0~30 min.	0~60 min.	0~60 min.	0~60 min.
Display		FND			
Drain-valve		None	None	1/2″ NPT	1/2″ NPT
Tank Size inner (w×d×h) (mm)		240×140×100	290×150×150	290×240×150	500×300×150
Weight net		3.4 kg	5.8 kg	8 kg	12.9 kg
Packing Dimension (w×d×h) (mm)		320×200×290	360×220×350	440×320×360	640×380×370
Gross Weight		3.7 kg	6.3 kg	8.5 kg	13.4 kg
Power Consumption		290W	425W	665W	872W
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz			
Cat. No.	230V	SL.SUC.D03H	SL.SUC.D06H	SL.SUC.D10H	SL.SUC.D22H
	120V	SL.SUC.D103H	SL.SUC.D106H	SL.SUC.D110H	SL.SUC.D122H
Price, Each. ₩		601,000	953,000	1,227,000	1,767,000

* **Other Specifications are available upon Customer's Request.**

Spare Wire Baskets, Stainless-steel

		Ea. Price, ₩
DH.WUC.B03	(1) Basket, Wire, **"B03",** for 3.3 Lit., 215×115×h65mm	63,000
DH.WUC.B06	(2) , **"B06",** for 6 Lit., 247×123×h96mm	74,000
DH.WUC.B10	(3) , **"B10",** for 10 Lit., 262×206×h93mm	84,000
DH.WUC.B22	(4) , **"B22",** for 22 Lit., 452×263×h93mm	105,000

SciLab Korea

ViscoMeter

Multi-speed Rotary Viscometer-full Set ····· P. 225
Portable Rotary Viscometer-full Set ····· P. 228
Programmable Rotary Viscometer-full Set ····· P. 226
Remote Temp. Control Rotary Viscometer-full Set ····· P. 227
Standard Rotary Viscometer-full Set ····· P. 224

Standard Rotary Viscometer

"WVS" model



Programmable Rotary Viscometer

"WVP" model





Remote Temp. Control Rotary Viscometer

"WVT" model

DAIHAN-brand® Standard Rotary Viscometer-full Set, with Calibration Certificate, "WVS-0.1M" & "WVS-2M", 1~2,000,000 cP with Standard Spindle-kit(LV1~4), Lifting Stand, Hand Handling Case, 0.3~60rpm, 표준형 디지털 회전 점도계-풀세트

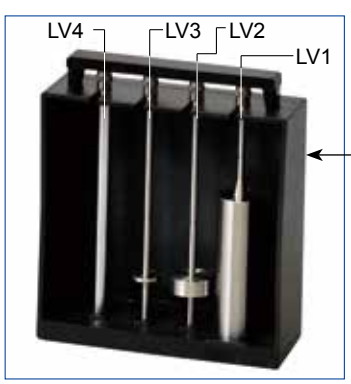


(1) for 1~100,000cP, "WVS-0.1M" Full set
(2) for 1~2,000,000cP, "WVS-2M" Full set

- ***Included Easy to Use Lifting Stand***
- ***Ideal for measuring the Viscosity of Various Liquid such as Grease, Painting, Foodstuff, Dope, Paper making, Cosmetics, Chemical industry, Capsule Stickiness Agent and Medicines.***
- ***Included ASTM Standard Spindle-kit of 4 Ea. : LV1 : 15~20K, LV2 : 50~100K, LV3 : 200~400K, LV4 : 1K~2M***
- ***Direct Readout of all Measurement Parameters on an illuminated LCD.***
- ***The Viscometer is equipped with many Pre-sets speeds :***
  ("WVS-0.1M" : 6- / 12- / 30- / 60- RPM, "WVS-2M" : 0.3- / 0.6- / 1.5- / 3- / 6- / 12- / 30- / 60-RPM)
- ***Auto Range Function to determine the Maximum Viscosity with each Spindle / Speed Combination.***
- ***Safety Protection Against Sudden Rises in the Power Supply.***

∗ Data on screen : · Speed Selected : RPM · Spindle Selected : S.P.
· Viscosity Reading : cP(mPa.s) · Percentage of Full Scale : %
· Sample Temperature : ℃

∗ Viscosity Reading: Dynamic Viscosity (cP or mPa-s)
∗ The Viscometer and the PT100 can be calibrated by the User.
∗ Ultra-sensitive Front Keyboard that allows Easy Input of all Parameters.
∗ Error Message in the Screen with Sound Alarm when the Viscosity of the Test Material exceeds the Full Scale of the selected Combination(SP / rpm.)
∗ Sound Alarm if the Equipment is Working at Under 20% of Selected full Scale
∗ Direct reading in cP(mPa.s) ∗ without Limits
∗ Can be Use with Various Optional Accessories : RTD Temp. Probe, Micro Printer, Standard Oil(Optional)



(3) LV1 ~ 4 Spindle kit :
Included for "WVS-0.1M" & "WVS-2M" Meter



(4) RTD Temp. Probe



(5) Micro Printer, w/Cable



(6) Standard Oils

Specifications & Ordering information

Spec. \ Model	(1) "WVS-0.1M"	(2) "WVS-2M"
Viscosity Range, cP(mPa.s)	1 ~ 100,000 cP	1 ~ 2,000,000 cP
Speed Range (RPM)	6, 12, 30, 60	0.3, 0.6, 1.5, 3, 6, 12, 30, 60
Certificate	with Individual Calibration Certificate	
ASTM Standard Spindle-kit& Measure Viscosity Range : cP	Included Standard Spindle-kit(LV1~LV4), Stainless-steel ① LV1 : 15 ~ 20,000cP ② LV2 : 50 ~ 100,000cP ③ LV3 : 200 ~ 400,000 cP ④ LV4 : 1,000 ~ 2,000,000cP	
Measurement Error	±5% (Newton Liquid)	
Accuracy	±1.0% of range	
Repeatability	±0.5%	
Ambient Temperature	5℃ ~ 35℃ Relative Humidity :≤80%	
Weight	4 kg	
Electrical Reqts.	AC 230V, 50/60Hz	
Cat. No. 230V	DH.WV1011	DH.WV1012
Price, Each. ₩	1,831,130	2,105,670

∗ K=1,000 cP(mPa.s), M =1,000,000 cP(mPa.s)

Spare Spindle-kit

		Ea. Price, ₩
DH.WV2011	(3) Standard LV Spindle kit, LV1~4, LV1 : 15 ~ 20K, LV2 : 50 ~ 100K, LV3 : 200 ~400K, LV4 : 1K ~ 2M	423,130

※ LV0 Spindle for 1~20cP : Option

Optional Temp. Probe/Printer/Standard Oil

		Ea. Price, ₩
DH.WV2041	(4) RTD Temp. Probe, 0.0~100.0℃, Accu. ±0.1, Resolution 0.1℃	58,450
DH.WV2043	(5) Micro Printer, with RS-232, USB 1.5m Cable (Print Information : Temp., RPM, Spindle, Torque, Viscosity)	204,330
	(6) Standard Oils cP(mPa.s) 400㎖	

※ **The Details for Order : Please See the Last Page of Viscometers**

DAIHAN-brand® Multi-speed Rotary Viscometer-full Set, "WVM-0.6M" & "WVM-6M", 1~6,000,000 cP

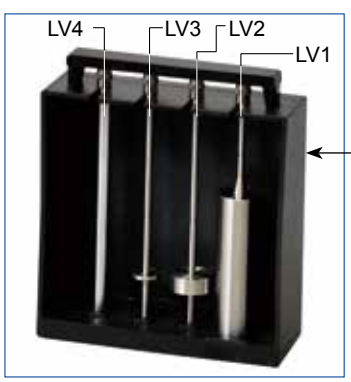
with Cal. Certi. & Spindle kit(LV1~4), Lifting Stand, Hand Handling Case, 0.1~60-/100-rpm, **멀티 스피드 디지털 회전 점도계**



(1) for 1~600,000cP, "W VM-0.6M" Full Set
(2) for 1~6,000,000cP, "WVM-6M" Full Set

- ***Included Easy to Use Lifting Stand***
- ***Ideal for measuring the Viscosity of Various Liquid such as Grease, Painting, Foodstuff, Dope, Paper making, Cosmetics, Chemical industry, Capsule Stickiness Agent and Medicines.***
- ***Included ASTM Standard Spindle-kit of 4 Ea. : LV1 : 15~20K, LV2 : 50~100K, LV3 : 200~400K, LV4 : 1K~2M***
- ***Direct Readout of all Measurement Parameters on an illuminated LCD.***
- ***Available Pre-sets speeds, 0.1~100 rpm***
- ***Auto Range Function to determine the Maximum Viscosity with each Spindle / Speed Combination.***
- ***Safety Protection Against Sudden Rises in the Power Supply.***

∗ Data on screen : · Speed Selected : RPM · Spindle Selected : S.P.
· Viscosity Reading : cP(mPa.s) · Percentage of Full Scale : %
· Sample Temperature : ℃
∗ Viscosity Reading: Dynamic Viscosity (cP or mPa-s)
∗ The Viscometer and the PT100 can be calibrated by the User.
∗ Ultra-sensitive Front Keyboard that allows Easy Input of all Parameters.
∗ Error Message in the Screen with Sound Alarm when the Viscosity of the Test Material exceeds the Full Scale of the selected Combination(SP / rpm.)
∗ Sound Alarm if the Equipment is Working at Under 20% of Selected full Scale
∗ Direct reading in cP(mPa.s) ∗ without Limits
∗ Can be Use with Various Optional Accessories : RTD Temp. Probe, Micro Printer, Small Sample Adapter, Standard Oil(Optional)



(3) LV1 ~ 4 Spindle kit :
Included for "WVM-0.6M" & "WVM-6M" Meter

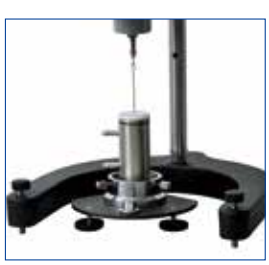
Specifications & Ordering information

Spec. \ Model	(1) "WVM-0.6M"	(2)"WVM-6M"
Viscosity Range cP(mPa.s)	1 ~ 600,000cP	1 ~ 6,000,000cP
Speed Range (RPM)	1 ~ 60	0.1 ~ 100
Certificate	with Individual Calibration Certificate	
Certificate	Included Standard Spindle-kit(LV1~LV4), Stainless-steel ① LV1 : 15 ~ 20,000cP ② LV2 : 50 ~ 100,000cP ③ LV3 : 200 ~ 400,000 cP ④ LV4 : 1,000 ~ 2,000,000cP	
Measurement Error	±5% (Newton Liquid)	
Accuracy	±1.0% of range	
Repeatability	±0.5%	
Ambient Temperature	5℃ ~ 35℃ Relative Humidity : ≤80%	
Weight	4 kg	
Electrical Reqts.	AC 230V, 50/60Hz	
Cat. No. 230V	DH.WV1021	DH.WV1022
Price, Each. ₩	3,451,140	3,451,140

∗ K=1,000 cP(mPa.s), M =1,000,000 cP(mPa.s)



(4) RTD Temp. Probe



(5) Small Sample Adapter



(6) Micro Printer, w/Cable



(7) Standard Oils

Spare Spindle-kit

		Ea. Price, ₩
DH.WV2011	(3) Standard LV Spindle kit, LV1~4, LV1 : 15 ~ 20K, LV2 : 50 ~ 100K, LV3 : 200 ~400K, LV4 : 1K ~ 2M ※ LV0 Spindle for 1~20cP : Option	423,130

Optional Temp. Probe/Sample Adapter/Printer/Standard Oil

		Ea. Price, ₩
DH.WV2041	(4) RTD Temp. Probe, 0.0~100.0℃, Accu. ±0.1, Resolution 0.1℃	58,450
DH.WV2042	(5) Small Sample Adapter, Stainless-steel, 2~16㎖	1,534,850
DH.WV2043	(6) Micro Printer, with RS-232, USB 1.5m Cable (Print Information : Temp., RPM, Spindle, Torque, Viscosity)	204,330
	(7) Standard Oils cP(mPa.s) 400㎖	

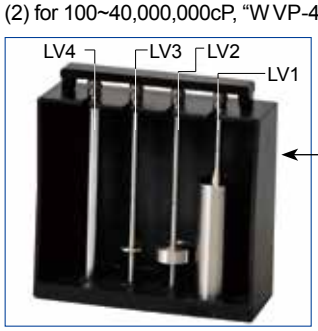
※ **The Details for Order : Please See the Last Page of Viscometers**

DAIHAN-brand® Programmable Rotary Viscometer-full Set, "WVP-6M" & "WVP-40M" 1~40,000,000cp

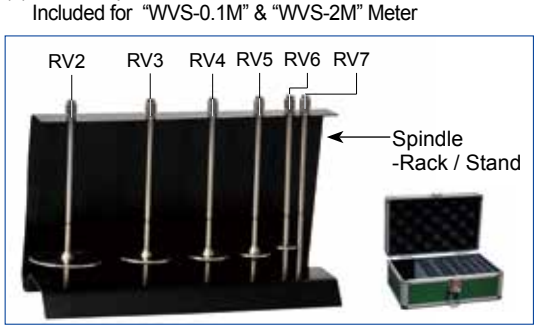
with Calibration Certificate & Spindle-kit(LV1~4) & (RV2~7), Lifting Stand, 0.1~200rpm, **프로그램식 디지털 회전 점도계**



(1) for 1~6,000,000cP, "WVP-6M" full set
(2) for 100~40,000,000cP, "WVP-40M" full set



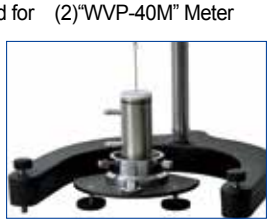
(3) LV1 ~ 4 Spindle kit :
Included for "WVS-0.1M" & "WVS-2M" Meter



(4) RV2~7 Spindle kit : Included for (2)"WVP-40M" Meter



(5) RTD Temp. Probe



(6) Small Sample Adapter



(7) Micro Printer, w/Cable



(8) Standard Oils

- ***Available Pre-sets speeds, 0.1~200 rpm***
- ***Ideal for measuring the Viscosity of Various Liquid : Grease, Painting, Foodstuff, Dope, Paper making, Cosmetics, Chemical industry, Capsule Stickiness Agent , Medicines.***
- ***Included ASTM Standard Spindle-kit of 4 or 6 Ea. :***
  "WVP-6M" model - LV1, LV2, LV3 , LV4
  "WVP-40M" model - RV2, RV3, RV4, RV5,RV6, RV7
- ***Auto Test of the Equipment by scanning at Different Speeds, with Audible and Visual warning if it is not Operating Properly.***
- ***Datalogger Function of the obtained results when an Experiment is performed***
- ***Safety Protection Against Sudden Rises in the Power Supply.***
- ***Auto Range Function to determine the Maximum Viscosity with each Spindle / Speed Combination.***

∗ Data on screen : · Speed Selected : RPM · Spindle Selected : S.P.
· Viscosity Reading : cP (mPa.s) · Percentage of Full Scale : %
· Sample Temperature : ℃
∗ Shear Rate (with special spindles) : SR ∗ Shear Stress (with special spindles) : SS
∗ Determination of Relative Viscosity and Absolute Viscosity
∗ Viscosity Reading: Dynamic Viscosity (cP or mPa-s)
∗ Determination of Shear Rate and Shear Stress with Coaxial Spindles.
∗ The Viscometer and the PT100 can be calibrated by the User.
∗ Ultra-sensitive front Keyboard that allows Easy Input of all Parameters.
∗ Error Message in the Screen with Sound Alarm when the Viscosity of the Test Material exceeds the Full Scale of the selected Combination(SP/rpm.)
∗ Sound Alarm if the Equipment is working at under 10% of selected Full Scale.
∗ Can be Use with Various Optional Accessories :
∗ RTD Temp. Probe, Micro Printer, Small Sample Adapter, Standard Oil(Optional)

Specifications & Ordering information

Spec. \ Model		(1) "WVP-6M"	(2) "WVP-40M"
Viscosity Range cP(mPa.s)		1 ~ 6,000,000cP	100 ~ 40,000,000cP
Using Spindle Kit		(3) LV1 ~ 4	(4) RV2 ~ 7
Speed Range (RPM)		0.1 ~ 200	
Certificate		with Individual Calibration Certificate	
ASTM Standard Spindle-set & Measure Viscosity Range : cP		Included ASTM Standard Spindle-set, Stainless-steel	
		① LV1 : 15 ~ 20,000cP ② LV2 : 50 ~ 100,000cP ③ LV3 : 200 ~ 400,000cP ④ LV4 : 1,000 ~ 2,000,000cP	① RV2 : 100 ~ 80,000cP ② RV3 : 100 ~ 200,000cP ③ RV4 : 200 ~ 400,000cP ④ RV5 : 400 ~ 800,000cP ⑤ RV6 : 1,000 ~ 2,000,000cP ⑥ RV7 : 4,000 ~ 8,000,000cP
Measurement Error		±5% (Newton Liquid)	
Accuracy / Repeatability		±1.0% of range / ±0.5%	
Ambient Temperature		5℃ ~ 35℃ Relative Humidity : ≤80%	
Weight		4 kg	
Electrical Reqts.		AC 230V, 50/60Hz	
Cat. No.	230V	DH.WV1031	DH.WV1032
Price, Each. ₩		6,972,050	7,253,830

∗ K=1,000 cP(mPa.s), M =1,000,000 cP(mPa.s)

Spare Spindle-kit

		Ea. Price, ₩
DH.WV2011	(3) Standard LV Spindle kit, LV1~4, LV1 : 15 ~ 20K, LV2 : 50 ~ 100K, LV3 : 200 ~400K, LV4 : 1K ~ 2M ※ LV0 Spindle for 1~20cP : Option	423,130
DH.WV2021	(4) Standard RV Spindle kit, RV2 ~RV7 RV2 : 100 ~ 80K, RV3 : 100 ~200K, RV4 : 200 ~ 400K, RV5 : 400 ~ 800K, RV6 : 1K ~ 2M, RV7 : 4K ~ 8M ※ RV0 Spindle for 1~20cP : Option	776,040

Optional Temp. Probe/Sample Adapter/Printer/Standard Oil

		Ea. Price, ₩
DH.WV2041	(5) RTD Temp. Probe, 0.0~100.0℃, Accu. ±0.1, Resolution 0.1℃	58,450
DH.WV2042	(6) Small Sample Adapter, Stainless-steel, 2~16㎖	1,534,850
DH.WV2043	(7) Micro Printer, with RS-232, USB 1.5m Cable (Print Information : Temp., RPM, Spindle, Torque, Viscosity)	204,330
	(8) Standard Oils cP(mPa.s) 400㎖	

※ **The Details for Order : Please See the Last Page of Viscometers**

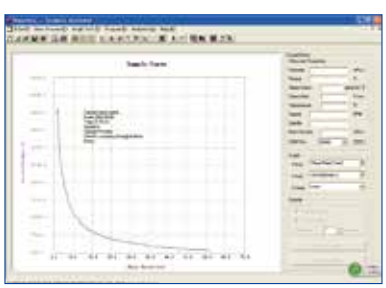
DAIHAN-brand® Remote Temp. Control Rotary Viscometer-full Set, "WVT-0.33M" & "WVT-3.3M", 5~3,300,000cp

with Calibration Certificate & Spindle-kit(LV1~4) & (RV2~7), Lifting Stand, 0.1~100rpm, **온도조절 디지털 회전 점도계**



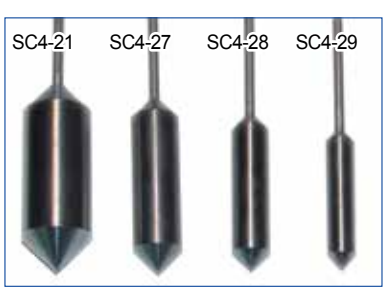
(1) for 10~330,000cP, "W VT-0.33M" full set
(2) for 50~3,300,000cP, "W VT-3.3M" full set

- ***Only need 2~16㎖ Sample Amount***
- ***Ideal for measuring the Viscosity of Various Liquid such as Grease, Painting, Foodstuff, Dope, Paper making, Cosmetics, Chemical industry, Capsule Stickiness Agent and Medicines.***
- ***Included ASTM Standard Spindle-kit of 4 Ea. :***
  - SC4-14, 15, 16, 18, 25, 31, 34 is Option
  "WVT-0.33M" model - SC4(LV Range)
  21 : 5~15K, 27 : 25~250K, 28 : 50~500K, 29 : 100~1M
  "WVT-3.3M" model - SC4(RV Range)
  21 : 50~50K, 27 : 250~2.5M, 28 : 500~5M, 29 : 1K~10M
- ***Built-in High Precision Automatic Optimization Programmable Temperature Control Instrument***
- ***Heating and Cooling, 0.1~8℃ / Minute Arbitrary Adjustable***
- ***Special Spindle, Guarantee Good Mixing Effect, No Precipitation***
- ***Measurement Process and Data Analysis All Rely on the Computer Automatically***
- ***The Disassembling Spindle and Measuring Cylinder Structure, Easy to Clean***
- ***Available Pre-sets Speeds, 0.1~100 rpm***
- ***Manual Lifting Positioning System, Ensure the Liquid Level Height Repeatability***
- ***Special Spindle, Guarantee Good Mixing Effect, No Precipitation***



Viscosity Curve Analysis Software
for "WVT-0.33M & 3.3M" Meter

* Data on screen : · Speed Selected : RPM · Spindle Selected : S.P.
  · Viscosity Reading : cP (mPa.s) · Percentage of Full Scale : %
  · Sample Temperature : ℃
* Shear Rate (with special spindles) : SR * Shear Stress (with special spindles) : SS
* Determination of Relative Viscosity and Absolute Viscosity
* Viscosity Reading: Dynamic Viscosity (cP or mPa-s)
* Determination of Shear Rate and Shear Stress with Coaxial Spindles.
* The Viscometer and the PT100 can be calibrated by the User.
* Ultra-sensitive front Keyboard that allows Easy Input of all Parameters.
* Error Message in the Screen with Sound Alarm when the Viscosity of the Test Material exceeds the Full Scale of the selected Combination(SP/rpm.)
* Sound Alarm if the Equipment is working at under 10% of selected Full Scale.



(3) SC4 Spindle kit : Included
for "WVT-0.33M & 3.3M" Meter

Specifications & Ordering information

Spec. \ Model	(1) "WVT-0.33M"	(2) "WVT-3.3M"
Viscosity Range cP(mPa.s)	5 ~ 330,000cP	50 ~ 3,300,000cP
Speed Range (RPM)	0.1 ~ 100	
Certificate	with Individual Calibration Certificate	
ASTM Standard Spindle-kit & Measure Viscosity Range : cP	Included ASTM Standard Spindle-kit, Stainless-steel	
	LV Range ① SC4-21 : 5 ~ 5,000cP ② SC4-27 : 25 ~ 250,000cP ③ SC4-28 : 50 ~ 500,000cP ④ SC4-29 : 100 ~ 1,000,000cP	RV Range ① SC4-21 : 50 ~ 50,000cP ② SC4-27 : 250 ~ 2,500,000cP ③ SC4-28 : 500 ~ 5,000,000cP ④ SC4-29 : 1000 ~ 10,000,000cP
Temperature Range	-1℃ ~ 150℃(Precision ±1.0℃)	
Measurement Error	±5% (Newton Liquid)	
Accuracy / Repeatability	±1.0% of range / ±0.5%	
Ambient Temperature	5℃ ~ 35℃ Relative Humidity : ≤80%	
Weight	14 kg	
Electrical Reqts.	Input AC 100~240V, 50/60Hz, Output DC17V 1.2A	
Cat. No. **230V**	**DH.WV1041**	**DH.WV1042**
Price, Each. ₩	10,343,000	10,343,000

*** K=1,000 cP(mPa.s), M =1,000,000 cP(mPa.s)**



(4) Micro Printer, w/Cable



(5) Standard Oils

Spare Spindle-kit

		Ea. Price, ₩
DH.WV2031	(3) Standard SC4 Spindle kit, 21~29 LV Range - SC4-21 : 5~5K, 25 : 25~250K, 28 : 50~500K, 29 : 100~1M RV Range - SC4-21 : 50~50K, 25 : 250~2.5M, 28 : 500~5M, 29 : 1K~10M	414,080

Optional Temp. Probe/Printer/Standard Oil

		Ea. Price, ₩
DH.WV2043	(4) Micro Printer, with RS-232, USB 1.5m Cable (Print Information : Temp., RPM, Spindle, Torque, Viscosity) (5) Standard Oils cP(mPa.s) 400㎖	204,330

※ The Details for Order : Please See the Last Page of Viscometers

DAIHAN-brand® Portable Rotary Viscometer-full Set, "WVH-0.15M" & "WVH-0.3M", 25~300,000cp

with Calibration Certificate & Spindle-kit(B1~4), Hand Handling Case, Up to 200rpm, **포터블 디지털 회전 점도계**



(1) for 25~150,000cP, "W VH-0.15M" full set
(2) for 50~300,000cP, "W VH-0.3M" full set

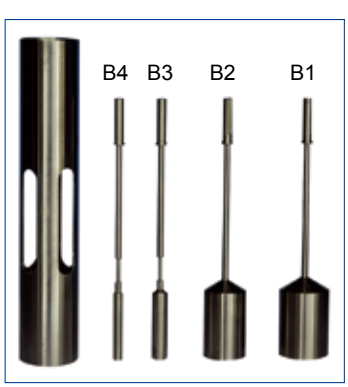
- ***Microcomputer Control Technique, User Friendly Interface***
- ***Ideal for Measuring the Viscosity of Various Liquid such as Grease, Painting, Foodstuff, Dope, Paper making, Cosmetics, Chemical industry, Capsule Stickiness Agent and Medicines.***
- ***Brand New and Humanized Design, Easy Operation, Accurate and Fast Measurement***
- ***Calibration of Full Scale, Every Level Linearity***
- ***New Design, Liquid Crystal Display, Prevent Slippery Handle, Overrange Alarm***
- ***Display Temperature, Viscosity, Rotate Speed, Torsion in Percentage Serial Number of Rotor and the Maximum Viscosity of selected Rotor in Current Speed on LCD***
- ***Unique Structure Design, Insure Useful Life and Measurement Accuracy***
- ***AC / DC Power Supply in Two Design, Lithium Batteries Continuous Measuring Eight Hours without Charging***

∗ Data on screen : · Speed Selected : RPM · Spindle Selected : S.P.
· Viscosity Reading : cP(mPa.s) · Percentage of Full Scale : %
· Sample Temperature : ℃

∗ Shear Rate (with special spindles): SR ∗ Shear Stress (with special spindles): SS
∗ Determination of Relative Viscosity and Absolute Viscosity
∗ Viscosity Reading: Dynamic Viscosity (cP or mPa-s)
∗ Error Message in the Screen with Sound Alarm when the Viscosity of the Test Material exceeds the Full Scale of the selected Combination(SP/rpm.)
∗ Sound Alarm if the Equipment is working at under 10% of selected Full Scale.


Lift Mode


Portable Mode



(3) B1~4 Standard Spindle kit :
Included for "WVH-0.15M & 0.3M" Meter


(4) Standard Oil 3,000 cP

Specifications & Ordering information

Spec. \ Model	(1) "WVH-0.15M"	(2) "WVH-0.3M"
Viscosity Range cP(mPa.s)	25 ~ 150,000cP	50~300,000cP
Speed Range (RPM)	60 / 100 / 150 / 200	
Certificate	with Individual Calibration Certificate	
ASTM Standard Spindle-kit & Measure Viscosity Range : cP	Included ASTM Standard Spindle-kit, Stainless-steel	
	① B1 : 25 ~ 883cP ② B2 : 90 ~ 3,000cP ③ B3 : 165 ~ 55,000cP ④ B4 : 450 ~ 150,000cP	① B1 : 50 ~ 1,666cP ② B2 : 180 ~ 6,000cP ③ B3 : 330 ~ 110,000cP ④ B4 : 900 ~ 300,000cP
Measurement Error	±5% (Newton Liquid)	
Accuracy / Repeatability	±2.0% of range / 1.0%	
Ambient Temperature	5℃ ~ 35℃ Relative Humidity : ≤80%	
Weight	3 kg	
Electrical Reqts.	AC 220V, 50/60Hz, Lithium Battery	
Cat. No. 230V	**DH.WV1051**	**DH.WV1052**
Price, Each. ₩	3,244,110	3,244,110

∗ **K=1,000 cP(mPa.s), M =1,000,000 cP(mPa.s)**

Spare Spindle-kit

		Ea. Price, ₩
DH.WV2011	(3) Standard Spindle kit, B1~4,	423,130

(4) Standard Oils cP(mPa.s) 400㎖ :

		Ea. Price, ₩
DH.WVO.5	Standard Oils, 400㎖, 5cP(mPa.s)	173,970
DH.WVO.50	, 50cP(mPa.s)	173,970
DH.WVO.200	, 200cP(mPa.s)	173,970
DH.WVO.400	, 400cP(mPa.s)	173,970
DH.WVO.1K	, 1000cP(mPa.s)	282,700
DH.WVO.3K	, 3000cP(mPa.s)	282,700
DH.WVO.6K	, 6000cP(mPa.s)	347,930
DH.WVO.10K	, 10,000cP(mPa.s)	347,930
DH.WVO.30K	, 30,000cP(mPa.s)	434,460
DH.WVO.60K	, 60,000cP(mPa.s)	434,460
DH.WVO.100K	, 100,000cP(mPa.s)	434,460
DH.WVO.140K	, 140,000cP(mPa.s)	724,400

MaXcrub™

Glassware Washer

Ideal for Laboratory, etc.

Glassware Washer NEW

High Performance Cleaning

User Safety

Program Cycle

High-performance Cleaning

- Outstanding fast cycle and high-performance cleaning results from efficient direct injection washing.
- High performance pump ensure high flow rate of water.
- Efficient water spray pressure bring about better and faster cleaning.
- Water, liquid detergent and distilled water automatically injected by program washing cycle.



Safety Door Lock

- Door is automatically locked for user safety when washing cycle starts.

Compact, Robust Design & Efficient Construction

- Compact design for space saving and maximize working capacity in laboratory.
- Double layer structure ensures soundproof and heatproof during operation.
- Built-in steam condenser prevents steam to enter into the laboratory.
- Telescopic sliding rails ensures safe and easy to load and unload.



Irrigation Nozzle

Efficient Washing Cycle Program

- Provide 7 program washing cycles : Pre-set 6 programs & customized 1 program.

Pre-set 6 Program Cycles Setting Value

Pre-set 6 Washing Cycle	PreWash	Light Wash	Standard Wash	Light Demi	Standard Demi	Intense Wash
Tap Water Wash	3min	-	-	-	-	-
Detergent Wash	-	60℃ / 8min	75℃ / 8min	60℃ / 5min	75℃ / 5min	90℃ / 10min
Rinse Wash	-	75℃ / 5min	90℃ / 5min	75℃ / 3min	90℃ / 3min	90℃ / 5min
Distilled Water Wash	-	-	-	3min	3min	2min



Spray Arm

Various Interchangeable Racks & Baskets

- Included 1ea STS wire basket.
- Customizable various rack, Basket, Pipette rack, Volumetric flask rack, Direct injection kit, etc.






Articles	Cat. No	Description

"MaXcrub™ T1" Glassware Washer, Max 95℃, Washing Surface 0.52m², 400Lit/min, Max 5bar NEW

with 1×STS Wire Basket, Water-/Detergent-/Distilled Water-Auto Injection, Program Washing Cycle, Double Wall, Telescopic Rail, 초자 세척기



Glassware Washer "MaXcrub™ T1"



Glassware Washer "MaXcrub™ T1" with Optional Customizing Rack



(1) (Included) STS Wire Basket



(2) Optional STS Injection Rack



Optional Liquid Detergents

- ***Made in Korea*** ■ ***PL(Product Liability) Insurance.***
- ***with Certificate & Traceability : Controlled by Serial Number, Certificate,***
- ***Delivery-information, and Traceable Data Base System.***
- ***Ideal for Clinical, Pharmaceutical, Bioresearch, Chemical Research, etc.***
- ***Outstanding Fast Washing Cycle and High-performance Cleaning Results from Efficient Direct Injection Washing.***
- ***Water-/Detergent-/Distilled Water- Automatically Injected into Wash Chamber via Pumps.***
- ***Double Layer Wall ensures Soundproof and Heatproof.***
- ***Automatic Door Lock system for User Safety.***
- ***Special Steam Condensing Mechanism for User Safety.***

* Built-in Telescopic Sliding Rail for Safety and Easy to Use.
* Provides Efficient Program Washing Cycle : Pre-set 6Programs and Customizable 1Program.
* Built-in Steam Condenser Prevents Steam to enter into the Laboratory.
* Included 1ea STS Wire Basket .
* Customizable Various Rack, Basket, Pipette Rack, Volumetric Flask Rack, Direct Injection Kit, etc.

Specifications & Ordering information

Spec. \ Model		"MaXcrub™ T1"
Total Washing Surface		0.52m²
Temp. Range		Room Temp +5℃ to 95℃
Display		Digital LCD with Back-Light Function
Controller		Digital Fuzzy-Control System (Fully Automatic), Touch Button UI
Programmable Function		Pre-set 6 Programs & Customizable 1 Programs
Wash Pump		Recirculation : 400Lit/min, Water Pressure : 3~5bar, Water Consumption : 8~10Lit.
Rack		Included 1ea Stainless-steel Standard Rack
Safety Circuit		Over-Temp./-Pressure/-Current protection, Sensor Error Detection
Material		Stainless-steel (#304)-Internal, Stainless steel (#304)-External
Dimension (w×d×h)	Interior	508×515×h407 mm
	Exterior	600×625×h870 mm
Power Consumption		5kW
Net Weight		95 kg
Electric Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	**DH.WGW0400**
	120V	**DH.WGW0401**
Price, Each. ₩		4,840,000

* **Other Specifications are available upon Customer's Request.**

※ **Note! Freight and Installation Charges Separately.**

Spare Stainless-steel Standard Rack

		Ea. Price, ₩
DH.WGW01001	(1) STS Wire Basket, for Rail, 495×510mm	283,140

Optional Stainless-steel Injection Rack for Various Vessel

		Ea. Price, ₩
DH.WGW01002	(2) STS Injection Rack for Various Vessel, 495×510mm	1,714,570

Optional Liquid Cleaning Detergent & Rinse

		Ea. Price, ₩
DH.WGW02010	(3) Potassium Hydroxide Liquid Cleaning Detergent, 18Lit.	23,600
DH.WGW02011	(4) Nonionic Surfactant Liquid Rinse, 18Lit.	23,600

Optional Customizable Various Rack/Basket/Direct Injection Kit







SciLab Korea

Water Purification

Basic Water Still ..... P. 232
Reverse Osmosis(RO) ..... P. 233
Ultra Pure(UP) ..... P. 234
Ultra Pure(UP) & Pure(RO) ..... P. 235

Basic Water Stills



"SWS-S" model
with Stainless-steel 100 mesh Prefilter
4, 8, & 12- Lit./hr.

"SWS-P" model
with PP 1㎛ pore Prefilter (Cartridge)
4, 8, & 12- Lit./hr.

Reverse Osmosis(RO)

NEW



"New-P.NIX RO"

Ultra Pure(UP)

NEW



"New-P.NIX UP"

Ultra Pure(UP) & Pure(RO)

NEW



"New-P.NIX Power Ⅰ"

Articles	Cat. No	Description

SciLab-brand® Electric Classic Water Stills, *"WiseDistill™ SWS"*, Built-in Prefilter & Auto. On/Off system

for Laboratory Water, pyrogen-free/0.3megohm · cm(resistivity)/pH5.4 to 7.3, Capa. 4-/8-/12-Lit./hr.
(1) with Stainless-steel 100 mesh Prefilter, (2) with PP 1㎛ pore Prefilter(Cartridge), **필터부착형 증류수 제조기**



(1) with Stainless-steel 100 mesh Prefilter, "WiseDistill™ SWS-S": 4, 8, & 12- Lit./hr.



(2) with PP 1㎛ pore Prefilter (Cartridge), "WiseDistill™ SWS-P": 4, 8, & 12- Lit./hr.

- ***Made in Korea*** ■ ***2-Year Warranty***
- ***High-performance / All Stainless-steel (SUS-430/304) models : Designed for the Durability & Consistent Quality***
- ***"SWS-S" models, Built-in Stainless-steel(SUS-304) Prefilter Kit, interchangeable 100 mesh (150㎛) : Remove Particles & Scale-forming impurity.***
- ***"SWS-P" models, Built-in PP(Polypropylene) 1㎛ Prefilter /Cartridge Kit, interchangeable : Remove Rust, Particles & Scale-forming impurity.***
- ***All Models, Complete Set with :***
  (1) Stainless-steel Unit Kit , (2) External Consistent-Level Device,
  (3) Drain Valve, (4) Prefilter Kit,
  (5) 2m Feeding Water Tubing (Silicone) Assembly for Connection of Water Tap Φ15 or Φ19 mm,
  (6) PP Un-equal Tapered Connector Φ8,10,12 / 14,16mm-for Different Diameter Tubings
- ***Auto On/Off with Water Level Sensor/Micro Level Sensor.***

∗ This space-saving horizontal condenser was designed for durability and consistent quality
∗ Energy saving features include a condenser that preheats the feedwater and a double-walled evaporator.
∗ A low water cutoff protects heating elements from burn-out when water supply is interrupted
∗ Stainless-steel Heater Built-in 0.4mm Ni/Cr. Element, Boiler, Efficient Energy and Water Consumption.
∗ Sealing : Silicone O-ring packing.

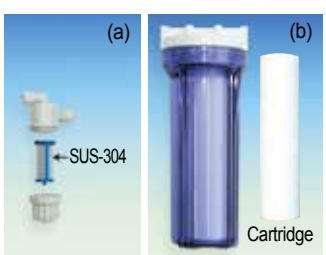
Plug-type :



Plug Code "C"



Plug Code "F"



Stainless steel Filter Kit & P.P Filter Kit



Ex> Installation of Water Still

Specifications & Ordering information

Spec. \ Model		with Stainless steel 100 mesh Prefilter			with PP 1㎛ pore Prefilter (Cartridge)		
		"SWS-S4"	"SWS-S8"	"SWS-S12"	"SWS-P4"	"SWS-P8"	"SWS-P12"
Capacity(Water)		4 Lit./hr	8 Lit./hr	12 Lit./hr	4 Lit./hr	8 Lit./hr	12 Lit./hr
Filter	Function	Remove Particles & Scale-forming impurity			Remove Rust, Particles & Scale-forming impurity		
	Material	Stainless-steel, SUS304			PP(Polypropylene)		
	Housing	POM(Polyoxymethylene)			PE(Polyethylene)		
	Pore size	150㎛(100 mesh)			1㎛		
	Heat-resisting	-29℃ ~ +85℃			85℃		
Water Purity		0.3 megohm·cm (resistivity), pH5.4 to 7.3					
Level Sensor		Auto On/Off with Water Level Sensor / Micro Level Sensor					
Material	Boiler	SUS-430	SUS-430		SUS-430	SUS-430	
	Condenser	SUS-304	SUS-304		SUS-304	SUS-304	
	Base	SUS-430	Aluminum		SUS-304	Aluminum	
Size	Condenser(only)	Φ85 × L375	Φ120 × L430	Φ120 × L490	Φ85 × L375	Φ120 × L430	Φ120 × L490
	Body	Φ350 × h670	Φ350 × h760	Φ350 × h760	Φ400 × h670	Φ400 × h760	Φ400 × h760
Heater		3kW	6kW (3kW×2Ea)	9kW (3kW×3Ea)	3kW	6kW (3kW×2Ea)	9kW (3kW×3Ea)
Plug Style		Plug Code "C"	Plug Code "F"		Plug Code "C"	Plug Code "F"	
Electrical Reqts.		1 Phase, AC 220 V, 60 Hz					
Cat. No.	220V	SL.SWS01004	SL.SWS01008	SL.SWS01012	SL.SWS02004	SL.SWS02008	SL.SWS02012
Price, Each. ₩		324,000	517,000	575,000	371,000	564,000	622,000

Spare or Optional Prefilters & Storage Bottle

		Ea. Price, ₩
DH.WWS10101	(a) Spare, Stainless-steel 100 mesh Prefilter Kit, **"SF101"**, POM Housing Φ36×h61mm, SUS-304 Filter only Φ22×h46mm	16,340
DH.WWS10102	(b) Spare, PP 1㎛ pore Prefilter Cartridge & Housing Kit, **"PF102"**, PE Housing Φ110×h300mm, PP Filter only Φ60×h252mm	49,070
DH.WWS10103	Spare, PP 1㎛ pore Prefilter Cartridge, **"PF103"**, Φ(od.) PP Filter 60×Φ(id.) 30×h 252mm	3,260
DH.WWS10104	Spare, PE Housing only, **"PF104"**, Φ110×h 300mm	41,380
Az.BNP05A	Bottle, Aspiration, PP, 5 Lit., Screw 45 mm, w220×h270mm	53,290
Az.BNP10A	, 10 Lit., Screw 90 mm, w280×h360mm	61,590
Az.BNP20A	, 20 Lit., Screw 90 mm, w350×h420mm	68,880

"New-P.NIX® RO(Reverse Osmosis)" Water Purification System, 15- / 25- / 35-L/Hr. NEW

with Pretreatment System, 2-Steps of Filter Exchange Indicator, (RO)Product 0.2 ~ 30㎲/cm, 순수 제조장치



- ***Made in Korea*** ■ ***Certified CE, ISO 9001, ISO 14001***
- ***Built-In RS 232C Port and Volumetric Dispensing Function by Timer, Included Level sensor***
- ***Auto Regular Recycling to Maintain the Optimum water Quality Level***
- ***Programming by 2 Steps for the Filter Exchange***
- ***Filter Replace Message Indicating by LCD Display & Blinking LED Light***

∗ Microprocess One Touch Technology Controller ∗ 16×4 Characters Backlight LCD Digital Display
∗ Awarded the Korean Excellent Products
∗ Included Pretreatment System HMC-PT1, 14″ Super A/C Filter, RO Pack

Specifications & Ordering information

Spec. \ Model	New-P.NIX RO 180	New-P.NIX RO 280	New-P.NIX RO 380
Certified Mark	CE, ISO 9001, ISO 14001		
Product Flow Rate(RO)	Max. 15L/Hr.	Max. 25L/Hr.	Max. 35L/Hr.
Daily Volume	60L/day	100L/day	120L/day
Product Water Quality	0 to 30㎲/cm		
Water Quality Display	• RO Product : 0.2 to 250.0㎲/cm • Feed water : 10 to 1000㎲/cm • Temperature : 0 to 99.9℃		
Display	16×4 Characters Backlight LCD Digital Display		
Controller	Microprocess One Touch Technology		
Dimensions (w×d×h)	300×460×h 470mm		
Power	210~230V, 50/60 Hz, 60W		
Cat. No.	**DH.WWP.RO180**	**DH.WWP.RO280**	**DH.WWP.RO380**
Price, Each. ₩	2,176,000	2,422,000	2,825,000



Pretreatment System 'HMC-PT1'

Optional Accessories

		Ea. Price, ₩
SL.Bot3102	(1) Bottle, HDPE, Aspiration, White, 5L, Neck id-Φ70, Φ200×h360㎜	18,200
SL.Bot3103	, 10L, -Φ70, Φ250×h460㎜	22,270
SL.Bot3104	, 20L, -Φ95, Φ300×h555㎜	26,140
SL.Bot3105	, 50L, -Φ95, Φ380×h700㎜	55,660
SL.Bot3106	(2) Bottle, HDPE, Aspiration, Amber, 5L, Neck id-Φ70, Φ200×h360㎜	21,780
SL.Bot3107	, 10L, -Φ70, Φ250×h460㎜	27,880
SL.Bot3108	, 20L, -Φ95, Φ300×h555㎜	32,720
SL.Bot3109	, 50L, -Φ95, Φ380×h700㎜	66,800

※ **Aspiration Bottles Details for Order : Please See "Bottles, *Aspiration*" Section.**



(1) White, HDPE Aspiration Bottle



(2) Amber, HDPE Aspiration Bottle

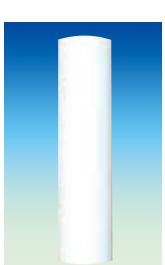


(3) 14″ Super A/C Filter

Spare Filters

Cat. No.	Description	Filter Replace Period	Ea. Price, ₩
DH.WWP.PR14AC	(3) 14″ Super A/C Filter	Approx. 3~4 Month	25,000
DH.WWP.10PF	(4) 10″ Prefilter	20 ~ 40 Day	3,000
DH.WWP.ROM1	(5) P.NIX RO Pack Ⅰ for DH.WWP.RO180	Approx. 1 Year	289,000
DH.WWP.ROM2	(6) P.NIX RO Pack Ⅱ for DH.WWP.RO280		394,000
DH.WWP.ROM3	(7) P.NIX RO Pack Ⅲ for DH.WWP.RO380		459,000

- The above mentioned Filter replacement period can be changed according to various factors such as feed water condition, producing volume and so on.



(4) 10″ Prefilter



(5) P.NIX RO Pack Ⅰ



(6), (7) P.NIX RO Pack Ⅱ, Ⅲ

Articles	Cat. No	Description

"New-P.NIX® UP 900" Ultra Pure Water Purification System, Up-to 1.5L/min NEW

with Total Organic Carbon(TOC), 2-Setps of Filter Exchange Indicator, (UP)Up to 18.3㏁•cm, 초순수 제조장치



- ■ ***Made in Korea*** ■ ***Certified CE, ISO 9001, ISO 14001***
- ■ ***RS 232C Port and Volumetric Dispensing Function by Timer***
- ■ ***Auto Regular Recycling to Maintain the Optimum water Quality Level***
- ■ ***Programming by 2 Steps for the Filter Exchange***
- ■ ***Filter Replace Message Indicating by LCD Display & Blinking LED Light***

* Microprocess One Touch Technology Controller
* 16×4 Characters Backlight LCD Digital Display
* Obtain GD, QD Mark, Awarded the Korean Excellent Products
* Included 0.2㎛ Final Capsule Filter, UP Membrane Pack(Scholar/Bio)

Specifications & Ordering information

Spec. \ Model	New-P.NIX UP 900			
	Scholar-type	UV-type	Bio-type	Integrate-type
Certified Mark	CE, ISO 9001, ISO 14001			
Product Flow Rate(UP)	Max. 1.5L/min			
Product Water Quality	Up to 18.3㏁•cm			
Water Quality Display	• UP Product : Up to 18.3㏁•cm • Feed water : 0 to 250㎲/cm • Temperature : 0 to 99.9℃			
Display	16×4 Characters Backlight LCD Digital Display			
Filter Composition	• 0.2㎛ Final Capsule Filter • UP Pack (DH.WWP.UPS)	• 0.2㎛ Final Capsule Filter • UP Pack (DH.WWP.UPU) • 254/185UV Lamp	• 0.2㎛ Final Capsule Filter • UP Pack (DH.WWP.UPS) • MW 5000 UF Filter(L)	• 0.2㎛ Final Capsule Filter • UP Pack(DH.WWP.UPU) • 254/185UV Lamp • MW 5000 UF Filter(L)
Controller	Microprocess One Touch Technology			
Dimensions (w×d×h)	300×500×h 470mm			
Power	210~230V, 50/60 Hz			
Cat. No.	**DH.WWP.UP.S**	**DH.WWP.UP.U**	**DH.WWP.UP.B**	**DH.WWP.UP.I**
Price, Each. ₩	2,755,000	3,124,000	3,562,000	3,931,000

- TOC monitoring system is also available on request. (TOC monitoring display range : 0~200ppb)



(1) White, HDPE Aspiration Bottle



(2) Amber, HDPE Aspiration Bottle



(3) 0.2㎛ Final Capsule Filter

Optional Accessories

		Ea. Price, ₩
SL.Bot3102	(1) Bottle, HDPE, Aspiration, White, 5L, Neck id-Φ70, Φ200×h360㎜	18,200
SL.Bot3103	, 10L, -Φ70, Φ250×h460㎜	22,270
SL.Bot3104	, 20L, -Φ95, Φ300×h555㎜	26,140
SL.Bot3105	, 50L, -Φ95, Φ380×h700㎜	55,660
SL.Bot3106	(2) Bottle, HDPE, Aspiration, Amber, 5L, Neck id-Φ70, Φ200×h360㎜	21,780
SL.Bot3107	, 10L, -Φ70, Φ250×h460㎜	27,880
SL.Bot3108	, 20L, -Φ95, Φ300×h555㎜	32,720
SL.Bot3109	, 50L, -Φ95, Φ380×h700㎜	66,800

※ **Aspiration Bottles Details for Order : Please See "Bottles, *Aspiration*" Section.**



(4) P.NIX UP Pack, Scholar / Bio



(5) P.NIX UP Pack, Scholar-UV / Integrate

Spare Filters & UV Lamp

Cat. No.	Description	Filter Replace Period	Ea. Price, ₩
DH.WWP.0.2CF	(3) 0.2㎛ Final Capsule Filter	Approx. 6~8 Month	62,000
DH.WWP.UPS	(4) P.NIX UP Pack, Scholar / Bio	Approx. 1 Year	394,000
DH.WWP.UPU	(5) P.NIX UP Pack, Scholar-UV / Integrate		394,000
DH.WWP.MWL	MW 5000 UF Filter(L)	Approx. 6~8 Month	554,000
DH.WWP.UV	254/185 UV Lamp	Approx. 3 Year	294,000

- The above mentioned Filter replacement period can be changed according to various factors such as feed water condition, producing volume and so on.

"New-P.NIX® Power" Ultra Pure(UP) & Pure(RO) Water Purification All-in-One System, Up-to 15L/Hr. NEW

with Pretreatment System, 2-Steps of Filter Exchange Indicator, (RO) 0.2 ~ 250㎲/cm, (UP) Up to 18.3㏁•cm, 초순수/순수 제조장치



- ***Made in Korea*** ■ ***Certified CE, ISO 9001, ISO 14001***
- ***Built-In RS 232C Port and Volumetric Dispensing Function by Timer, Included Level sensor***
- ***Auto Regular Recycling to Maintain the Optimum water Quality Level***
- ***Programming by 2 Steps for the Filter Exchange***
- ***Filter Replace Message Indicating by LCD Display & Blinking LED Light***
- ***Self-Diagnosis for Ext- & Int-System, Auto Cleaning, Auto Sensor Calibration***

∗ Microprocess One Touch Technology Controller ∗ 16×4 Characters Backlight LCD Digital Display
∗ Awarded the Korean Excellent Products
∗ Included Pretreatment System HMC-PT-3, RO Pack, UP Pack, 0.2㎛ Final Filter



Pretreatment System 'HMC-PT-3'

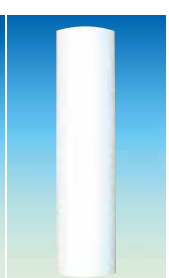
Specifications & Ordering information

Spec. \ Model	New-P.NIX Power Ⅰ			
	Scholar-type	UV-type	Bio-type	Integrate-type
Certified Mark	CE, ISO 9001, ISO 14001			
Product Flow Rate (RO & UP)	Max. 15L/Hr.			
Product Water Quality	(RO) 0.2 ~ 250㎲/cm, (UP) Up to 18.3㏁•cm			
Water Quality Display	• Pure water(RO) : 0.2 ~ 250㎲/cm • Ultra Pure water(UP) : Up to ≤18.3㏁•cm • Feed water : 0 to 990㎲/cm • Temperature : 0 to 99.9℃			
Filter Composition	• Pretreatment System HMC-PT-3 • RO Pack • 0.2㎛ Final Filter • UP Pack(Scholar)	• Pretreatment System HMC-PT-3 • RO Pack • 0.2㎛ Final Filter • UP Pack(S-UV) • 254/185 UV Lamp	• Pretreatment System HMC-PT-3 • RO Pack • 0.2㎛ Final Filter • UP Pack(BIO) • MW5000UF filter(M)	• Pretreatment System HMC-PT-3 • RO Pack • 0.2㎛ Final Filter • UP Pack(INT) • 254/185 UV Lamp • MW5000UF filter(M)
Display	16×4 Characters Backlight LCD Digital Display			
Controller	Microprocess One Touch Technology			
Dimensions (w×d×h)	395×500×h 470mm			
Power	210~230V, 50/60 Hz			
Cat. No.	**DH.WWP.POWER.S**	**DH.WWP.POWER.U**	**DH.WWP.POWER.B**	**DH.WWP.POWER.I**
Price, Each. ₩	3,580,000	3,948,000	4,176,000	4,545,000

● TOC monitoring system is also available on Request. (TOC monitoring display range : 0~200ppb)
● Product Flow Rate 25L/Hr. and 35L/Hr. are also available on Request.



(3) 10″ A/C Filter



(4) 10″ Prefilter



(5) P.NIX RO Pack Ⅰ

Optional Accessories

		Ea. Price, ₩
SL.Bot3102	(1) Bottle, HDPE, Aspiration, White, 5L, Neck id-Φ70, Φ200×h360㎜	18,200
SL.Bot3103	, 10L, -Φ70, Φ250×h460㎜	22,270
SL.Bot3104	, 20L, -Φ95, Φ300×h555㎜	26,140
SL.Bot3105	, 50L, -Φ95, Φ380×h700㎜	55,660
SL.Bot3106	**(2)** Bottle, HDPE, Aspiration, Amber, 5L, Neck id-Φ70, Φ200×h360㎜	21,780
SL.Bot3107	, 10L, -Φ70, Φ250×h460㎜	27,880
SL.Bot3108	, 20L, -Φ95, Φ300×h555㎜	32,720
SL.Bot3109	, 50L, -Φ95, Φ380×h700㎜	66,800

※ **Aspiration Bottles Details for Order : Please See "Bottles, *Aspiration*" Section.**



(6) 0.2㎛ Final Capsule Filter



(7), (8) P.NIX UP Pack

Spare Filters & UV Lamp

Cat. No.	Description	Filter Replace Period	Ea. Price, ₩
DH.WWP.PR10AC	(3) 10″ A/C Filter	Approx. 3~4 Month	18,000
DH.WWP.10PF	(4) 10″ Prefilter	20 ~ 40 Day	3,000
DH.WWP.ROM1	(5) P.NIX RO Pack Ⅰ	Approx. 1 Year	289,000
DH.WWP.0.2CF	(6) 0.2㎛ Final Capsule Filter	Approx. 6~8 Month	62,000
DH.WWP.UPS	(7) P.NIX UP Pack, Scholar/Bio	Approx. 1 Year	394,000
DH.WWP.UPU	(8) P.NIX UP Pack, Scholar-UV/ Integrate	Approx. 1 Year	394,000
DH.WWP.MWM	MW5000UF Filter (M)	Approx. 6~8 Month	407,000
DH.WWP.UV	UV Lamp	Using time : 2000 Hrs	294,000

● The above mentioned Filter replacement period can be changed according to various factors such as feed water condition, producing volume and so on.

SciLab®
Laboratory Instruments Line-up

Autoclaves



Autoclave, Vertical-type
47-/60-/80-/100-Lit.
Up to 132℃, 2kgf/cm²

Balances



Analytical Balance
0.1mg~220g



Electronic Lab Balance
0.001~320-/620-g
0.01~3200-/6200-g



Moisture Analyzer
0.001~110g
40~199℃

Baths



Water Bath
6-/11-/22- Lit.
Up to 100℃, ±0.1℃



High-Temp. Oil Bath
6-/11-/22- Lit.
Up to 250℃, ±0.1℃



Extraction Water Bath
4-/6-/8- Places
Up to 100℃, ±0.2℃



Shaking Water Bath
18-/30-/45-Lit.
20~250rpm, up to 100℃

Bath Circulators



Viscosity Bath
30Lit./min
up to 100℃



Circulation Water bath
6-/11-/22- Lit.
Up to 100℃, ±0.1℃, 5 Lit./min



Refrigerated Bath Circulator
8-/12-/22-/30- Lit.
±0.1℃



High-Temp. Bath Circulator
8-/12-/22-/30- Lit.
Up to 250℃, ±0.1℃



Chiller
17-/29-/47- Lit.
−20℃~40℃, ±0.2℃



Refrigerated Heating External Circulator
10-/18-/25- Lit, −30℃~200℃, ±0.2℃



Cold Trap
10Lit.
−40℃~−20℃, −80℃~−65℃

Centrifuges



Mini-micro Centrifuge
6×0.5/1.5/2.0ml Tube Rotor
2×0.2ml PCR 8-Tube Strips



Pro-micro Centrifuge
12×0.2/0.5/1.5/2.0ml Tubes
13,500rpm (rcf:12,225xg)



Popularly Centrifuge
6×1.5~15ml Tubes
8×1.5~15ml Tubes

Desiccators

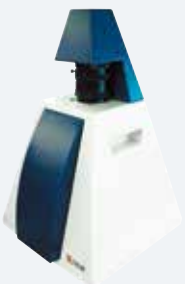


Desiccator Cabinets
General Purpose, Vacuum
Gas Exchangeable

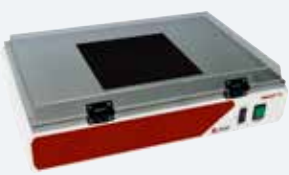
Electrophoresis



Gel Imaging System
1.45M Pixel, 4.65um
F1.0, Manual Zoom 8~48mm



Portable Gel Imaging System
1.5M Pixel, 4.65um
F1.0, Manual Zoom 8~48mm



Transilluminator
312-/365-nm
Dual-/Single Wave Length

Evaporators



Rotary Vacuum Evaporator
0.5~2-/5-/10-/20-/50-Lit.

Freeze Dryer



Bench-top Freeze Dryer
3Lit./24Hours, Condenser : 10Lit.
−60℃~−90℃

Fume Hoods



Laminar Flow-Ductless
Class 100 HEPA Filter
Vertical Air Flow-type

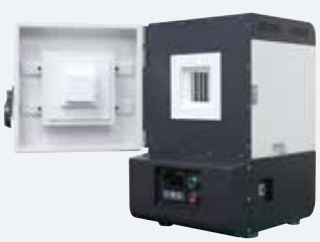


Fume Hood-Ducted
By-pass Air Flow-type
Air Curtain Air Flow-type

Furnaces



Programmable Muffle Furnace
1,000-/1,200-℃



Programmable High-Temp. Muffle Furnace
1,450-/1,650-℃

Furniture



Laboratory Assembly Furniture

Heating/Cooling Blocks



Heating Block, Dry Bath
Single-/Dual-Block
Up to 150℃, ±0.1℃



Heating & Cooling Block, Dry Bath
−5~95℃, ±0.1℃

Heating Mantles



Heating Mantles, General
For Beaker, Flask, Reaction Vessel
Heating-/Heating and Stirring

SciLab®
Laboratory Instruments Line-up

Heating Mantles



Heating Mantles, Multi-points
Up to 150℃, 3-/6-Places



Heating Product Controller
Analog-/Digital-type

Homogenizers



Analog Control Homogenizer
Max. 2,500ml
Up to 27,000rpm



Digital Control Homogenizer
Remote Control
Max. 2,500ml, Up to 27,000rpm

Hotplates



500℃ Hotplate, Solid Ceramic
200×200mm Plate
Up to 500℃, ±0.3℃



380℃ Hotplate, Digital Control
180×180mm, 260×260mm
Up to 380℃, ±0.3℃



380℃ Hotplate, Analog Control
180×180mm, 260×260mm
Up to 380℃, ±0.3℃



350℃ Large Plate Hotplate
310×620mm Plate
Up to 350℃, ±0.3℃

Hotplate Stirrers



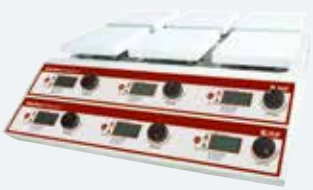
500℃ Hotplate Stirrer
200×200mm Plate, 80~1,500rpm
Up to 500℃, ±0.3℃



380℃ Hotplate Stirrer, Digital
180×180mm, 260×260mm
80~1,500rpm, Up to 380℃, ±0.3℃



380℃ Hotplate Stirrer, Analog
180×180mm, 260×260mm
80~1,500rpm, Up to 380℃, ±0.3℃



Multi Hotplate Stirrer
3-/6-Places
80~1,500rpm, Up to 350℃, ±0.3℃

Incubators



Forced-air Incubator
50-/105-/155-Lit.
Up to 70℃, ±0.2℃



Gravity-air Incubator
32-/50-/105-/155-Lit.
Up to 70℃, ±0.2℃



Multi-room Incubator
125Lit.×4Rooms
RT-/0~60-/70-℃, ±0.2℃



Temp./Humidity Chamber
SMART-Lab System
-20~80℃, 30% ~ 95% RH



Temp./Humidity Chamber
SMART-Lab System
-20~80℃, 30% ~ 95% RH



B.O.D Incubator
150-/250-/420-/700-Lit.
0~60℃, ±0.2℃



Plant Growth Chamber
SMART-Lab System
432-/864-Lit, 10~60℃, 30~95%RH



Shaking Incubator
Front Door-type
Up to 60℃, ±0.2℃



Shaking Incubator
Bench Top Door-type
Up to 60℃, ±0.2℃



Shaking Incubator
Top Door-type
Up to 60℃, ±0.2℃



Multi-Stack Shaking Incubators
Refrigerated
10~60℃, ±0.2℃

Mills



Ball Mill
2-/6-Pots, 50~600rpm

Ovens



Forced-air Oven
50-/105-/155-Lit.
Up to 250℃, ±0.3℃



Gravity-air Oven
32-/50-/105-/155-Lit.
Up to 230℃, ±0.5℃



High Clean Oven
560-/800-Lit, Class 100 HEPA
Up to 250℃, ±1.0℃



Industrial Forced-air Oven
486-/840-/1,176-Lit.
Up to 250℃, ±1.0℃



Vacuum Oven
18.6-/30-/70-Lit., 0.39mBar/hr
Up to 200℃, ±0.5℃

Glass Reaction System



All for Glass Reaction System for Lab & Pilot Plant
AutoLifting-/Classic-/H.Mantle-Models in Vacuum-Line, -80~+260℃
0.1~100 Lit.

Refrigerators



Blood Bank Refrigerator
620-/1,140-Lit.
0~10℃, KGMP Certified

SciLab®
Laboratory Instruments Line-up



Pharmaceutical Refrigerator
620-/1,140-Lit.
0~10℃, KGMP Certified



Laboratory Refrigerator
SMART-Lab System
620-/1,140-Lit, 0~10℃

Lab Freezer



Laboratory Freezer
330-/420-/624-Lit.
－35~+10℃

ULT Freezers



ULT Freezer (UniFreez™)
SMART-Lab System
80-/308-/393-/503-/714-Lit, －86℃

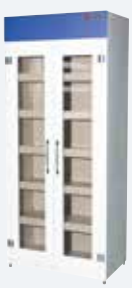


ULT Freezer (DuoFreez™)
SMART-Lab System
80-/308-/393-/503-/714-Lit, －95℃

Safety Cabinet



Ducted PVC Safety Cabinet
1Room, 4-Doors, 5-Shelvest



Ducted Steel Safety Cabinet
1Room, 2-Doors, 5-Shelves



Safety Cabinets for Flammables
1Room, 2-Doors, 2-Shelves

Shakers



Vortex Mixer
Up to 3,200-/3,300-rpm
Platform Head & Pop-off Cup Head



Digital Shaker
Orbital-/Reciprocating-motion
10~300rpm



Digital Rocker
290×200-/300×300-Platform
5~50rpm



Digital Rotator
0~90° Mixing Angle
5~60rpm

Stirrers



Tube Mix Rotor
5×Mixing Rollers, 40rpm
For 15~50ml Test Tube



Magnetic Stirrer
Analog-/Digital-type, 80~1,500rpm
180×180-/200×200-mm Plate



Multi-point Magnetic Stirrer
4-/8-points
80~1,200rpm



Analog High-speed Overhead Stirrer
10,000-/50,000-mPas Max 3,000rpm

Upgrade



Digital High-speed
Overhead Stirrer
10,000-/50,000-mPas Max 3,000rpm

Upgrade



Remote High-speed
Overhead Stirrer
10,000-/50,000-mPas Max 3,000rpm

Upgrade



Analog High-torque
Overhead Stirrer
100,000-/150,000-mPas Max 1,000rpm

Upgrade



Digital High-torque
Overhead Stirrer
100,000-/150,000-mPas Max 1,000rpm

Upgrade



Remote High-torque
Overhead Stirrer
100,000~160,000-mPas Max 1,000rpm



Jar Tester
6Paddle Stirrer, 300rpm

Ultrasonic Cleaner



Ultrasonic Cleaner
Analog-control
40KHz



Ultrasonic Cleaner
Digital-control
40KHz

Rotary Viscometer



Rotary Viscometer-set
Programmable, 1~3,300,000cP

Glassware Washer



Glassware Washer
Max 95℃, 0.52m2 Washing Surface

Water Purification



Classic Water Still
4-/8-/12-Lit/hr
100mesh-/1um-Filter



Reverse Osmosis(RO)
Water Purification
15-/25-/35-L/hr, 0.2~30㎲/cm



Ultra Pure(UP)
Water Purification
Max 1.5L/min, 18.3㏁•cm



UP & RO
Water Purification
(RO) 0.2 ~ 250㎲/cm, (UP) Up to 18.3㏁•cm

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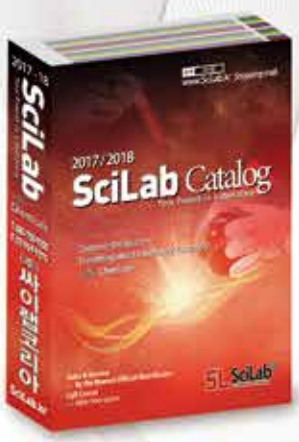
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It means SciLab® always be with customers through science as a way of life. We are more focused on comprehensive laboratory supports and SCM system for realizing a fast global service and at last, CUSTOMER SATISFACTION levels are the best in the market. It will give people a much better quality of life and contribute to a better scientific improvement. This is our MISSION.

SciLab® is specialized in the production of Manipulating Laboratory Glassware and distribution over 20,000 Items of Essential Laboratory Consumables and Instruments to the world customers. For this successful business, SciLab® has 2 big warehouses at Daejeon and Wonju in Korea those are managed by Digital Assorting System(DAS) and Warehouse Management System(WMS). These 2 major warehouses become foundation for One-day delivery process in Korea. Now, SciLab® is starting to spread our own distribution system and new General Catalog to the world markets included in Korean market. This total supplying service will be always with you anytime and anywhere those are needed our best supports. Thank you very much.

CH Lee
President, CEO / SciLab Korea CH Lee

Chong Ku Shu
Chairman / DAIHAN Group

25 Sep. 2017

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