

New Innovation LaboRactor™ 0.1 ~ 100Lit

All for Glass Reaction System for Lab & Pilot Plant

AutoLifting- / Classic- / H.Mantle-Models in Vacuum-Line, -80°C $+260^{\circ}\text{C}$
with Glass Vessel / Lid or PTFE Lid, 45° DN Flange, Safety Connection, and Assembly Frame

Ideal for ▶ Experiment, ▶ Pilot- & Mass-Production



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



0.5~20 Lit. Suspended-Model III
Double-Wall Vessel
Good for Economic
Operation



2~50 Lit. H.Mantle-Model IV
Single-Wall Vessel
Good for Simply
Economic Operation



High-Torque Digital
Overhead Stirrer



PTFE Lids &
Clamping Sys.



Flasks, Round-type



Vessel, Double Wall



PTFE Stirring Impeller

and



General
Multi-Neck Flasks

New Innovation Reactors

All for Glass Reaction System for Lab & Pilot Plant

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LaboRactor™ 0.1~100Lit All for Reaction System, for Lab & Pilot Plant, with Glass Vessel, $-80^{\circ}\text{C} + 260^{\circ}\text{C}$
 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



New Innovation AutoLifting & Tilt-System

NEW

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.

AutoLifting and Manual Tilting Reactor System "Model-I"

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 세트

► Advantage of Lifting System

- Safety Cleaning the Vessel
- Easy Feeding of Large Volume Raw Materials
- Ideal for Maintenance



► 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°C ~ +260°C
- PTFE Drain Valve ; Aperture ϕ 25mm, 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 ϕ 27.2×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 ϕ 27.2×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		
	Viscosity & Torque					“SHT-120T”	“SHT-140T”	
		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		
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		φ 14mm PTFE Encapsulated Stainless-steel, Exposed End φ 12mm, 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.



(1) Glass Lid
w / 5× Joints



(2) All PTFE Lid
w / 6× Screwjoints
○ Top Safety : Non-Breakage, Anti-Chemical, & +280°C

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 세트



(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
φ 27.2 × 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

► 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 φ 25mm, 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 φ 27.2 × thick 1.5/2.0mm Stainless-steel Pipe

* with 4 Castors including 2 Lockable Castors. * 80 / 100Lit : OD φ 27.2 × 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			Remote Controlled		
		“SHT-50DX”			“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	φ 10/8 PTFE Encapsulated Stainless-steel Shaft				φ 12/10 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						

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

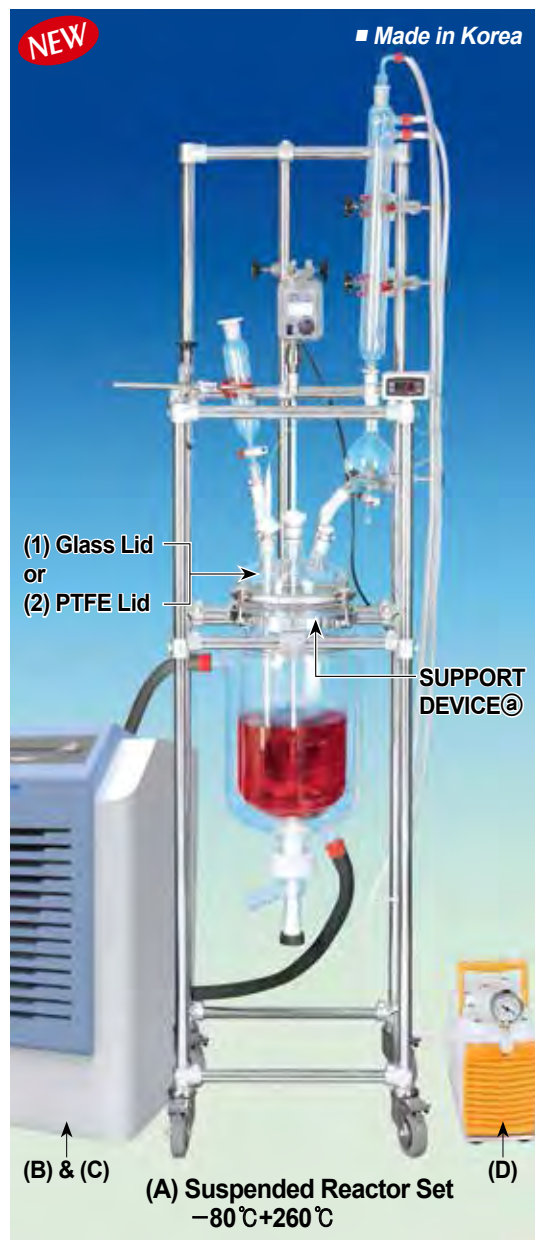
(B) & (C) Heat/Cool Circulators and Heat Transfer Fluid. ⇒ See the Following 5-th. Page!

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, 행강 타입 자켓 글라스 진공 반응조 세트 0.5~20 Lit



► 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 $\phi 27.2 \times$ 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						

Ordering for Suspended Reactor Set, without Circulator & Vacu-Pump

Suspended 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.



(1) Glass Lid
w / 5 $\times$ Joints



(2) All PTFE Lid
w / 6 $\times$ Screwjoints

◎ Top Safety : Non-Breakage,
Anti-Chemical, & +280℃



Support Guide® for 10 & 20 Lit



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 세트, 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	M-Model	2Lit	4/5Lit	6/7Lit	10/12Lit	20/21Lit	-
Volume	MR-Model	2Lit	3Lit	5Lit	10Lit	20Lit	50Lit
Vessel	M-Model	130×240	200×165	215×165	240×165	250×215	-
od×h mm	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		od 18×id 13mm	
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		φ 8/6 PTFE Encapsulated Stainless-steel Shaft		φ 10/8 PTFE Encapsulated Stainless-steel Shaft		φ 12/10 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, 500~2000ml
Ideal for Small Volume Mixing/Reaction, Up to 140°C, 500 rpm Autoclavable, FDA, 자석교반기용 바틀형 반응조



(1) GL45 Stirred Reactor-set, w/2-port



(2) GLS 80 Stirred Reactor-set, w/4-port



DU.21286545
Bottle, Baffled,
GLS80

EX. Figure
: DURAN® Stirred Reactor-set
and SciLab® Hotplate Stirrer

- Supplied by DURAN® in Germany
- Completely Autoclavable
- Temperature Resistant up to 140°C
- 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 300ml (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 / 100ml		338,450
DU.1200396 , 1,000 / 100ml		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 / 100ml		437,830
DU.1200381 , 2,000 / 200ml		449,390

Spare Accessories for GLS 80 Stirred Reactor

	Ea.	Price, ₩
DU.21286545 Bottle, Baffled, GLS80, with PP GLS80 Screwcap & Pouring Ring, 1Lit., ϕ 101mm×h222mm New		27,000
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

DAIHAN-brand® Precise High-temp Bath Circulator, "MaXircu™ CH", to 250°C, $\pm 0.1^\circ\text{C}$, 8-/12-/22-/30- Lit 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 써큘러타



External Circulating Nozzle



Flat Lid, Included

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

- Made in Korea. ■ CE Certified. ■ 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.
- Innovative 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	MaXircu™ CH-8	MaXircu™ CH-12	MaXircu™ CH-22	MaXircu™ CH-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°C ~ 250°C, $\pm 0.1^\circ\text{C}$			
Temp. Resolution		0.1°C-Display, 0.5°C-Control			
Temp. Uniformity & Probe		$\pm 0.2^\circ\text{C}$, PT100			
Heating Power		1.0 kW	1.5 kW	2.2 kW	2.5 kW
Heat-up Time		50 min. to 100°C			
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	DH.WCH00408	DH.WCH00412	DH.WCH00422	DH.WCH00430
	120V	DH.WCH00508	DH.WCH00512	DH.WCH00522	DH.WCH00530
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 $\phi 10 \sim 19\text{mm}$, L1/1.5m **NEW**

■ Supplied by SciLab Korea

* $\phi 37\text{mm}$ Black NBR Foam Insulated Silicone or PFA-Hose

* Silicone Vacu-Hose : id 10×od 13mm, id 15×od 20mm, id 18×od 24mm, 220°C * SL.Tub4031 & SL.Tub4032 : PFA Hose

* PFA Hose : id 10×od 12mm / PTFE Hose : id 15×od 16mm, id 19×od 21mm, -100 + 260°C

(1) Insulated Silicone Hose, 220°C

	dh Pk. Price, ₩
SL.Tub4021 Sili-hose, id 10mm, L1m	1m 21,540
SL.Tub4022 , L1.5m	1.5m 24,080
SL.Tub4023 , id 15mm, L1m	1m 26,950
SL.Tub4024 , L1.5m	1.5m 32,170
SL.Tub4025 , id 18mm, L1m	1m 34,600
SL.Tub4026 , L1.5m	1.5m 43,400

(2) Insulated PFA Hose, 260°C

	dh Pk. Price, ₩
SL.Tub4031 PFA-hose, id 10mm, L1m	1m 33,960
SL.Tub4032 , L1.5m	1.5m 42,020
SL.Tub4033 PTFE-hose, id 15mm, L1m	1m 35,460
SL.Tub4034 , L1.5m	1.5m 44,920
SL.Tub4035 , id 19mm, L1m	1m 44,850
SL.Tub4036 , L1.5m	1.5m 46,430

(3) Best Insulated & Flexible Stainless-steel Circulation Hose, Id $\phi 17\text{mm}$, L1m, 360°C

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

DAIHAN-brand® -30℃ +200℃ Precise Refrigerated Heating External Circulators, "MaXircu™ WHR", 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 써큐레이터 **NEW**



-30℃ ~ +200℃ Refrigerated / Heating External Circulator, "MaXircu™ WHR-50"



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

- 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	"MaXircu™ WHR-20"	"MaXircu™ WHR-50"	"MaXircu™ WHR-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, Max. Flow Rate		20 Lit/min	40 Lit/min	60 Lit/min
Lift Height, m		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.		3Phase 380V		
Cat. No.		DH.WHR0020	DH.WHR0050	DH.WHR0100
Price, Each. ₩		11,443,000	13,379,000	17,735,000

* 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 탄화수소 혼합물(액체)



(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

SL.CirD12.1 (1) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 4 Lit.

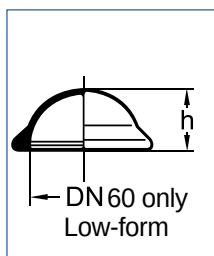
SL.CirD12.2 (2) "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 18Lit.

SL.CirD12 "Therminol D12" Cool/Heat Transfer Fluid, -85 +230℃, 200Lit./Drum

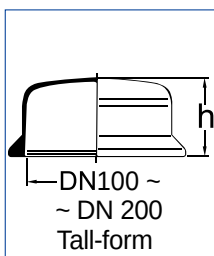
※ 운임 약 ₩ 25,000 별도!

4ℓ .dh pk	₩
4Lit	230,870
18ℓ .dh pk	₩
18Lit	789,170
Drum Price, ₩	
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 °C/Working Point, (2) 825 °C/Softening Point, (3) 560 °C/Annealing Point

► The Specification of 45° DN-Standardized / Strong Flanges : 5-Ranges

- A. DN 60 Flange : id ϕ 60 × od ϕ 100mm D. DN 150 Flange : id ϕ 150 × od ϕ 184mm
B. DN 100 Flange : id ϕ 100 × od ϕ 138mm E. DN 200 Flange : id ϕ 200 × od ϕ 242mm
C. DN 120 Flange : id ϕ 120 × od ϕ 158mm



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-₩ 14/23, 2 × 15° Side ₩ 14/23
SL.Re2022	, 2 × 15° Side ₩ 24/40
SL.Re2023	DN 100-flange Lid, 3-neck, Center-₩ 24/40, 2 × 15° Side ₩ 14/23
SL.Re2024	, 2 × 15° Side ₩ 24/40
SL.Re2025	- ₩ 34/45, 2 × 15° Side ₩ 24/40
SL.Re2026	DN 120-flange Lid, 3-neck, Center-₩ 24/40, 1 × 15° Side ₩ 24/40, 1 × Vertical ₩ 24/40
SL.Re2027	, 2 × 15° Side ₩ 24/40
SL.Re2028	- ₩ 34/45, 1 × 15° Side ₩ 24/40, 1 × Vertical ₩ 24/40
SL.Re2029	, 2 × 15° Side ₩ 24/40
SL.Re2031	DN 150-flange Lid, 3-neck, Center-₩ 24/40, 1 × 15° Side ₩ 24/40, 1 × Vertical ₩ 24/40
SL.Re2032	, 2 × 15° Side ₩ 24/40
SL.Re2033	- ₩ 34/45, 1 × 15° Side ₩ 24/40, 1 × Vertical ₩ 24/40
SL.Re2034	, 2 × 15° Side ₩ 24/40
SL.Re2035	DN 200-flange Lid, 3-neck, Center-₩ 24/40, 1 × 15° Side ₩ 24/40, 1 × Vertical ₩ 24/40
SL.Re2036	, 2 × 15° Side ₩ 24/40
SL.Re2037	- ₩ 34/45, 1 × 15° Side ₩ 24/40, 1 × Vertical ₩ 24/40
SL.Re2038	, 2 × 15° Side ₩ 24/40

Ea.	Price, ₩
	101,640
	103,460
	125,240
	127,050
	130,680
	145,200
	145,200
	148,830
	148,830
	177,870
	177,870
	181,500
	181,500
	508,200
	508,200
	513,040
	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

SM.2439247	DN 100-flange Lid, Center-₩ 29/32, 2 × 15° Side ₩ 29/32, 1 × Vertical ₩ 14/23
SM.2439251	DN 120-flange Lid, -₩ 29/32, 2 × 15° Side ₩ 29/32, 1 × Vertical ₩ 14/23
SM.2439259	DN 150-flange Lid, -₩ 29/32, 2 × 15° Side ₩ 29/32, 1 × Vertical ₩ 14/23

Ea.	Price, ₩
	285,270
	304,430
	320,400

<Continued On Next Page>

<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 °C/Working Point, (2) 825 °C/Softening Point, (3) 560 °C/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 ㄱ Taper Socket Joint, DN60~DN200 Flanged Common Use "ASTM & DIN" ㄱ Cone Jointware, PTFE 45° DN, 표준 플랜지 반응조 안전 뚜껑 **NEW**



Exchangeable

► The Specification of 45° DN-Standardized / Strong Flanges : 5-Ranges, DIN/ISO

- A. DN 60 Flange : id ϕ 60 $\times$ od ϕ 100mm
- B. DN 100 Flange : id ϕ 100 $\times$ od ϕ 138mm
- C. DN 120 Flange : id ϕ 120 $\times$ od ϕ 158mm
- D. DN 150 Flange : id ϕ 150 $\times$ od ϕ 184mm
- E. DN 200 Flange : id ϕ 200 $\times$ od ϕ 242mm

- Top-Safety : Non-Breakage / Non-Scratch / Chemically Inert / 280°C stable
- Exchangeable Screw NPT : ① ㄱ Joints / ② Stirrer Guides / ③ Fittings (ex.Temp-Adapters) / ④ Blanking Nut Stoppers, etc
- It could change with ㄱ 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 ㄱ Cone Jointware of ㄱ 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. : ㄱ 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.



(1) DN 60/45° Flanged PTFE 4-neck Reactor Lid, with 3 $\times$ ㄱ 24/- & 1 $\times$ ㄱ 14/- Screw Sockets (0.5" NPT)

* Pre-assembled Reactor Lid to Fit DURAN® DN60/45° Flange "id 60 $\times$ od 100mm" type.

* The Screw ㄱ Socket Joints are Removable & Exchangeable $\Rightarrow$ All Fittings for Same Screw NPT size.

* Suitable for ASTM & DIN Joint Cones = Common Use : ㄱ 24/40 & 24/29 and ㄱ 14/35 & 14/23 Cone Jointware

SL.Rea4011 PTFE Reactor Lid, DN60, 4-Screw ㄱ Sockets : 3 $\times$ 24/- & 1 $\times$ 14/-

Price/Ea. ₩ 177,150

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ㄱ Joints & Fittings in Same Screw NPT Size
Centre Neck	0.5" NPT	Vertical	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	① ㄱ Socket Joint : (14/-), 19/-, (24/-), & 29/-
Side Neck-1	0.5" NPT	10°&10° Compound Angle	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	③ Screw Clamping Holders, Bore ϕ 6~14mm and Stopper Plugs
Side Neck-2	0.5" NPT	10°&10° Compound Angle	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	④ Blanking Nut Stoppers
Side Neck-3	0.5" NPT	10°&10° Compound Angle	ㄱ 14/- Screw Taper Socket : Common Use-14/35 & 14/23 Cones	⑤ Screw-Extension Adapter NPT-Male 0.5" & Female 0.75" and then ② Stirrer Guides for ϕ 8~10mm Shafts



(2) DN 100/45° Flanged PTFE 5-neck Reactor Lid, with 5 $\times$ ㄱ 24/- Screw Sockets (0.75" NPT)

* Pre-assembled Reactor Lid to Fit DURAN® DN100/45° Flange "id 100 $\times$ od 138mm" type.

* The Screw ㄱ Socket Joints are Removable & Exchangeable $\Rightarrow$ All Fittings for Same Screw NPT size.

* Suitable for ASTM & DIN Joint Cones = Common Use : ㄱ 24/40 & 24/29 Cone Jointware

SL.Rea4013 PTFE Reactor Lid, DN100, 5-Screw ㄱ Sockets : 5 $\times$ 24/-

Price/Ea. ₩ 328,940

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable ㄱ Joints & Fittings in Same Screw NPT Size
Centre Port	0.75" NPT	Vertical	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	① ㄱ Socket Joint : (24/-), 29/-, (34/-), & 45/-
Side Neck-1	0.75" NPT	Vertical	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	② Stirrer Guides for ϕ 8~10mm Shafts
Side Neck-2	0.75" NPT	10° Angle	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	③ Screw Clamping Holders, Bore ϕ 6~14mm and Stopper Plugs
Side Neck-3	0.75" NPT	10° Angle	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	④ Blanking Nut Stoppers
Side Neck-4	0.75" NPT	10°&10° Compound Angle	ㄱ 24/- Screw Taper Socket : Common Use-24/40 & 24/29 Cones	⑤ Screw-Extension Adapter NPT-Male 0.75" & Female 1"

<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 × 3/4" & 4 × 1/4" 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 : 3/4/45 & 34/35 and 24/40 & 24/29 Cones

SL.Rea4015 PTFE Reactor Lid, DN120, 5-Screw Socket : 1 × 3/4" & 4 × 1/4"

Price/Ea. ₩ 377,260

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable Socket Joints & Fittings in Same Screw NPT Size
Centre Port	1" NPT	Vertical	3/4" 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	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	0.75" NPT	10° Angle	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	0.75" NPT	10° Angle	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-4	0.75" NPT	10°&10° Compound Angle	1/4" Screw Taper Socket : Common Use-34/45 & 34/35 Cones	



(4) DN 150/45° Flanged PTFE 5-neck Reactor Lid, with 3 × 1/4", 1 × 3/4" & 1 × 1/2" 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 : 3/4/45 & 34/35, 24/40 & 24/29 and 45/50 & 45/40 Cones

SL.Rea4017 PTFE Reactor Lid, DN150, 5-Screw Socket : 3 × 1/4", 1 × 3/4" & 1 × 1/2"

Price/Ea. ₩ 460,080

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable Socket Joints & Fittings in Same Screw NPT Size
Centre Port	1" NPT	Vertical	3/4" 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	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	1" NPT	Vertical	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	1" NPT	10° Angle	1/2" Screw Taper Socket : Common Use-45/50 & 45/40 Cones	
Side Neck-4	1" NPT	10°&10° Compound Angle	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cone	



(5) DN 200/45° Flanged PTFE 6-neck Reactor Lid, with 3 or 4 × 1/4", 1 or 2 × 3/4" & 1 × 1/2" 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 : 3/4/45 & 34/35, 24/40 & 24/29 and 45/50 & 45/40 Cones

④ **SL.Rea4019 PTFE Reactor Lid, DN200, 6-Screw Socket : 4 × 1/4", 1 × 3/4" & 1 × 1/2"**

Price/Ea. ₩ 657,920

⑤ **SL.Rea4020 PTFE Reactor Lid, DN200, 6-Screw Socket : 3 × 1/4", 2 × 3/4" & 1 × 1/2"**

Price/Ea. ₩ 675,280

Lid Base	Screw Neck Size, inch NPT	Neck Place Type	Pre-Assembled Socket and Usage in ASTM & DIN Cones	Optional/Exchangeable Socket Joints & Fittings in Same Screw NPT Size
Centre Port	1" NPT	Vertical	3/4" 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	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-2	1" NPT	Vertical	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
Side Neck-3	1" NPT	10° Angle	④ 1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cones	
	1.5" NPT		⑤ 3/4" Screw Taper Socket : Common Use-34/45 & 34/35 Cones	
Side Neck-4	1" NPT	10°&10° Compound Angle	1/4" Screw Taper Socket : Common Use-24/40 & 24/29 Cone	
Side Neck-5	1.5" NPT	10° Angle	1/2" Screw Taper Socket : Common Use-45/50 & 45/40 Cone	

2-Kinds of 6-Necks

④ **Basic-type**

1/4", 1" NPT-Aperture
; Condenser Connection

⑤ **Wide Condensing-type**

3/4", 1.5" NPT-Aperture
; Condenser Connection



Exchangeable
NPT-PTFE Screw
Taper Socket Joints

Accessory NPT-PTFE Screw ㄴ Standard Taper Socket Joints for PTFE Reactor Lids NEW

Suitable for "ASTM & DIN" ㄴ 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, ㄴ 14/- ~ ㄴ 29/-

CW.PC711.1413	PTFE Screw Socket, 0.5" NPT, ㄴ 14/-, for ㄴ 14/35 & 14/23 Cones, $\phi 22 \times h45\text{mm}$	Ea.	Price, ₩
CW.PC711.1913	, ㄴ 19/-, for ㄴ 19/38 & 19/26 Cones, $\phi 27 \times h50\text{mm}$		16,260
CW.PC711.2413	, ㄴ 24/-, for ㄴ 24/40 & 24/29 Cones, $\phi 34 \times h67\text{mm}$		19,030
CW.PC711.2913	, ㄴ 29/-, for ㄴ 29/42 & 29/32 Cones, $\phi 40 \times h68\text{mm}$		22,980
			33,200

(2) For DN100 & 120-flanged Lid, with 0.75" NPT Screw Necks, ㄴ 19/- ~ ㄴ 34/-

CW.PC711.1919	PTFE Screw Socket, 0.75" NPT, ㄴ 19/-, for ㄴ 19/38 & 19/26 Cones, $\phi 27 \times h55\text{mm}$	Ea.	Price, ₩
CW.PC711.2419	, ㄴ 24/-, for ㄴ 24/40 & 24/29 Cones, $\phi 34 \times h55\text{mm}$		20,240
CW.PC711.2919	, ㄴ 29/-, for ㄴ 29/42 & 29/32 Cones, $\phi 40 \times h68\text{mm}$		23,650
CW.PC711.3419	, ㄴ 34/-, for ㄴ 34/45 & 34/35 Cones, $\phi 47 \times h75\text{mm}$		34,970
			43,820

(3) For DN150 & 200-flanged Lid, with 1" NPT Screw Necks, ㄴ 24/- ~ ㄴ 45/-

CW.PC711.2425	PTFE Screw Socket, 1" NPT, ㄴ 24/-, for ㄴ 24/40 & 24/29 Cones, $\phi 34 \times h60\text{mm}$	Ea.	Price, ₩
CW.PC711.2925	, ㄴ 29/-, for ㄴ 29/42 & 29/32 Cones, $\phi 40 \times h60\text{mm}$		26,940
CW.PC711.3425	, ㄴ 34/-, for ㄴ 34/45 & 34/35 Cones, $\phi 47 \times h75\text{mm}$		30,640
CW.PC711.4525	, ㄴ 45/-, for ㄴ 45/50 & 45/40 Cones, $\phi 58 \times h90\text{mm}$		46,750
			65,380

(4) For DN200-flanged Lid, with 1.5" NPT Screw Necks, ㄴ 24/- ~ ㄴ 45/-

CW.PC711.2438	PTFE Screw Socket, 1.5" NPT, ㄴ 24/-, for ㄴ 24/40 & 24/29 Cones, $\phi 48 \times h55\text{mm}$	Ea.	Price, ₩
CW.PC711.2938	, ㄴ 29/-, for ㄴ 29/42 & 29/32 Cones, $\phi 48 \times h55\text{mm}$		40,120
CW.PC711.3438	, ㄴ 34/-, for ㄴ 34/45 & 34/35 Cones, $\phi 48 \times h55\text{mm}$		40,950
CW.PC711.4538	, ㄴ 45/-, for ㄴ 45/50 & 45/40 Cones, $\phi 61 \times h80\text{mm}$		39,730
			56,160



(1), (2), (3)
NPT Holder Set



① Screw Clamp Nut
② "Olive" Grip Ring
③ Cone Clamp Nut

(4) Replacement
Seal Pack



(5) Optional Plug to
Seal the "Screw
Clamping Holder"

Accessory NPT-PTFE Screw Clamping Holder, Grip Bore ㄴ 7~19mm 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 ㄴ 7~12mm

	Set. Price, ₩
CW.701.050.07 0.5" NPT Holder Set, $\phi 7\text{mm}$ Bore	23,370
CW.701.050.08 , $\phi 8\text{mm}$ Bore	23,370
CW.701.050.09 , $\phi 9\text{mm}$ Bore	23,900
CW.701.050.12 , $\phi 12\text{mm}$ Bore	25,500

(2) 0.75" NPT Holder Set, Bore ㄴ 8~16mm

	Set. Price, ₩
CW.701.075.08 0.75" NPT Holder Set, $\phi 8\text{mm}$ Bore	29,530
CW.701.075.12 , $\phi 12\text{mm}$ Bore	29,840
CW.701.075.14 , $\phi 14\text{mm}$ Bore	24,770
CW.701.075.16 , $\phi 16\text{mm}$ Bore	39,860

(3) 1" NPT Holder Set, Bore ㄴ 8~19mm

	Set. Price, ₩
CW.701.100.08 1" NPT Holder Set, $\phi 8\text{mm}$ Bore	34,190
CW.701.100.12 , $\phi 12\text{mm}$ Bore	40,410
CW.701.100.14 , $\phi 14\text{mm}$ Bore	41,740
CW.701.100.16 , $\phi 16\text{mm}$ Bore	45,190
CW.701.100.19 , $\phi 19\text{mm}$ Bore	51,640

(4) Replacement Seal Pack of 3 Parts, Bore ㄴ 7~19mm

* Consist : ① Screw Clamp Nut, ② "Olive" Grip Ring, and
③ Bored Cone Nut

	Pk.	Price, ₩
CW.701.007 Seal Pack, 3parts, $\phi 7\text{mm}$ Bore	3parts	8,910
CW.701.008 , $\phi 8\text{mm}$ Bore	3parts	7,890
CW.701.009 , $\phi 9\text{mm}$ Bore	3parts	9,040
CW.701.012 , $\phi 12\text{mm}$ Bore	3parts	10,160
CW.701.014 , $\phi 14\text{mm}$ Bore	3parts	10,600
CW.701.016 , $\phi 16\text{mm}$ Bore	3parts	14,600
CW.701.019 , $\phi 19\text{mm}$ Bore	3parts	16,410

② Replacement "Olive" Grip Ring, Bore ㄴ 7~19mm

	Pk.	Price, ₩
CW.701.07 "Olive" Grip Ring, $\phi 7\text{mm}$ Bore	5ea	9,070
CW.701.08 , $\phi 8\text{mm}$ Bore	5ea	9,420
CW.701.09 , $\phi 9\text{mm}$ Bore	5ea	11,110
CW.701.12 , $\phi 12\text{mm}$ Bore	5ea	12,830
CW.701.14 , $\phi 14\text{mm}$ Bore	5ea	12,260
CW.701.16 , $\phi 16\text{mm}$ Bore	5ea	15,170
CW.701.19 , $\phi 19\text{mm}$ Bore	5ea	16,220

(5) Optional PTFE Plugs to Seal the "Screw Clamping Holder", ㄴ 7~19mm, 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, ₩		Ea.	Price, ₩
CW.703.07 PTFE Plug, for Bore- $\phi 7\text{mm}$		2,090	CW.703.12 PTFE Plug, for Bore- $\phi 12\text{mm}$		4,600
CW.703.08 - $\phi 8\text{mm}$		2,210	CW.703.14 - $\phi 14\text{mm}$		4,600
CW.703.09 - $\phi 9\text{mm}$		3,040	CW.703.16 - $\phi 16\text{mm}$		6,960
			CW.703.19 - $\phi 19\text{mm}$		6,360

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 뚜껑의 Blank Neck용 마개



* Made in UK.

* Used to Seal Unused / Blank Neck Ports of PTFE Reactor Lids

CW.702.050	PTFE Blanking Nut Stopper, 0.5" NPT
CW.702.075	, 0.75" NPT
CW.702.100	, 1" NPT
CW.702.150	, 1.5" NPT

Ea.	Price, ₩
	7,130
	10,800
	14,970
	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

CW.713.050075	① PTFE NPT-Extension Adapter, 0.5" NPT Male, 0.75" NPT Female, h46mm
CW.713.075100	② , 0.75" NPT Male, 1" NPT Female, h46mm
CW.713.100150	③ , 1" NPT Male, 1.5" NPT Female, h43mm

Ea.	Price, ₩
	38,420
	45,380
	76,390

Screw-NPT-PTFE/PEEK High-class Vacuum Stirrer Guide, with 0.75" & 1" NPT for $\phi 8 \sim 16$ mm Shafts NEW

for Direct Assembly into PTFE Reactor Lids, 500rpm Stable/max 800rpm, Chemically Inert, $-200^{\circ}\text{C} \sim +280^{\circ}\text{C}$ stable, 고품질 진공 교반샵



(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 $\phi 8 \sim \phi 16$ mm

CW.710.0819	PTFE Stirrer Guide, Vacuum, 0.75" NPT, for-8mm shaft, h63mm
CW.710.1019	-10mm shaft, h63mm
CW.710.0825	PTFE Stirrer Guide, Vacuum, 1" NPT, for-8mm shaft, h67mm
CW.710.1025	-10mm shaft, h67mm
CW.710.1225	-12mm shaft, h67mm
CW.710.1425	-14mm shaft, h80mm
CW.710.1625	-16mm shaft, h80mm

Ea.	Price, ₩
	126,780
	126,780
	139,510
	132,060
	126,780
	542,400
	179,610

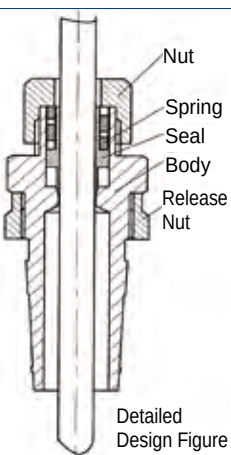
(2) for High Vacuum, 5mmHg/5psi, for Shaft $\phi 8 \sim \phi 16$ mm

CW.709.0819	PTFE Stirrer Guide, Hi-Vacuum, 0.75" NPT, for-8mm shaft, h106mm
CW.709.1019	-10mm shaft, h106mm
CW.709.1219	-12mm shaft, h106mm
CW.709.0825	PTFE Stirrer Guide, Hi-Vacuum, 1" NPT, for-8mm shaft, h110mm
CW.709.1025	-10mm shaft, h110mm
CW.709.1225	-12mm shaft, h112mm
CW.709.1425	-14mm shaft, h112mm
CW.709.1625	-16mm shaft, h112mm

Ea.	Price, ₩
	308,820
	308,820
	361,340
	308,820
	308,820
	361,340
	813,600
	361,340

Joint-Screw-NPT-PTFE/PEEK High-class Vacuum Stirrer Guide, with ASTM/DIN Joint Glass Cone Joint, for $\phi 8 \sim 16$ mm Shafts

Ideal for Middle/Low-Vacuum, 500/800rpm, Chemically Inert, $-200^{\circ}\text{C} \sim +280^{\circ}\text{C}$ stable, 고품질 진공 교반샵



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 $\phi 8 \sim \phi 16$ mm Shafts

* PTFE in the only Media Contact Material

(1) for ASTM Socket Joint Sizes, for $\phi 8 \sim \phi 16$ mm Shaft

CW.005.0.0824	Stirrer Seal, USA-type, for- $\phi 8$ mm Shafts, $\text{J}24/40$ Joint
CW.005.0.1024	- $\phi 10$ mm Shafts, $\text{J}24/40$ Joint
CW.005.0.1034	- $\phi 10$ mm Shafts, $\text{J}34/45$ Joint
CW.005.0.1434	- $\phi 14$ mm Shafts, $\text{J}34/45$ Joint New
CW.005.0.1634	- $\phi 16$ mm Shafts, $\text{J}34/45$ Joint

Ea.	Price, ₩
	134,150
	134,150
	145,300
	513,690
	190,070

(2) for DIN/ISO Socket Joint Sizes, for $\phi 8 \sim \phi 16$ mm Shaft

CW.005.00.0824	Stirrer Seal, EUROPE-type, for- $\phi 8$ mm Shafts, $\text{J}24/29$ Joint
CW.005.00.1029	- $\phi 10$ mm Shafts, $\text{J}29/32$ Joint
CW.005.00.1045	- $\phi 10$ mm Shafts, $\text{J}45/40$ Joint
CW.005.00.1434	- $\phi 14$ mm Shafts, $\text{J}34/35$ Joint New
CW.005.00.1645	- $\phi 16$ mm Shafts, $\text{J}45/40$ Joint

Ea.	Price, ₩
	106,410
	112,700
	147,150
	510,490
	187,810

250 ~ 50,000ml DURAN® Original Vacuum/Pressure Round Reaction Flasks, with 45° DN-Flange/O-ring Groove up to 1.0 bar at 250°C, Perfect Compatibility, DURAN® 정품 환형 진공 / 압력 반응 플라스크, O-링 홈부, 완벽한 호환성 표준화 규격



- **DURAN® Original Reaction Flasks, Borosilicate Glass 3.3 : Made in Germany.**
※ But, The "SL.Re~" Items of 250, 500, 1000, 3000, and 50,000ml : 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°C -Annealing point, (2) 825°C -Softening point,
(3) 1260°C -Melt Working point, and (4) 525°C-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 : idφ 60×odφ 100mm
 - ② DN 100 Flange : idφ 100×odφ 138mm
 - ③ DN 120 Flange : idφ 120×odφ 158mm
 - ④ DN 150 Flange : idφ 150×odφ 184mm
 - ⑤ DN 200 Flange : idφ 200×odφ 242mm



Ordering : Vessels and Heating Mantles

(1) 250 & 500ml - 45° DN 60 flange/O-ring groove

SL.Re2161 React-Flask, DN 60, 250ml, φ 85 / thick 2±1×nφ 70×h145mm, 1.0 bar.
SL.Re2162 , 500ml, φ 105 / thick 2±1×nφ 70×h165mm, 1.0 bar.

(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)ml, 1.0 bar,
φ 131 / thick 2.3±0.8×nφ 106×h185mm.
SM.2439563 , 2,000~2,600(full)ml, 1.0 bar,
φ 165 / thick 4.0±1×nφ 106×h215mm.
SM.2439571 , 4,000~4,700(full)ml, 1.0 bar,
φ 206 / thick 4.0±1×nφ 106×h265mm.
SM.2439576 , 6,000~6,700(full)ml, 1.0 bar,
φ 236 / thick 4.5±1×nφ 106×h295mm.

(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)ml, 1.0 bar,
φ 185 / thick 3.5±1×nφ 130×h240mm.
SM.2439773 , 5,000~6,000(full)ml, 1.0 bar,
φ 225 / thick 3.3±1×nφ 130×h280mm.

(4) 10 & 20 Lit. - 45° DN 150 flange/O-ring groove, Thick. 4.5±1mm

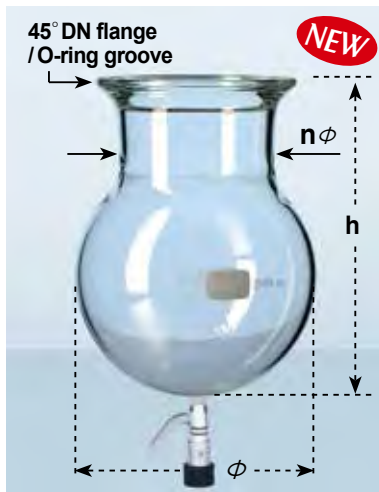
SM.2439986 React-Flask, DN 150, 10,000~12,000(full)ml, 0.5 bar,
φ 280 / thick 4.5±1×nφ 160×h350mm.
SM.2439991 , 20,000~22,000(full)ml, 0.5 bar,
φ 350 / thick 4.5±1×nφ 156×h420mm.

(5) 50 Lit. - 45° DN 200 flange/O-ring groove, Thick. 5±1mm

SL.Re2171 React-Flask, DN 200, 50,000~56,000(full)ml, 0.5 bar,
φ 480 / thick 5.5±1×nφ 215×h650mm.

Vessel		DAIHAN® Heat-Mantle, 230V	
Ea.	Price, ₩	Cat. No	Ea. Price, ₩
88,000		DH.WHM12012	97,000
89,500		DH.WHM12013	117,000
118,600		DH.WHM12014	121,000
138,500		DH.WHM12015	146,000
216,200		DH.WHM8037	215,000
261,800		DH.WHM12018	221,000
200,800		DH.WHM12016	159,000
252,200		DH.WHM12017	215,000
413,100		DH.WHM12019	388,000
569,800		DH.WHM12070	653,000
2,425,300		DH.WHM12075	1,005,000

※ DH.WHM12075 : without Temp. Controller



2~50Lit. PTFE Drain-valved Reaction Flask Mantles, with 45° DN-flange/O-ring Groove 배출 밸브형 진공/압력 반응 플라스크, O-링 홈부, 완벽한 호환성 표준화 규격 **NEW**

* Joining DURAN Flask and PTFE Drain Valve : by SciLab Korea

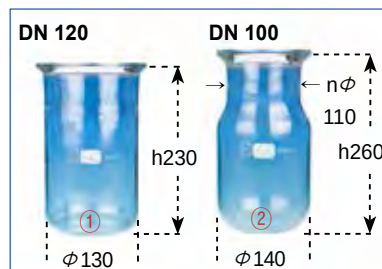
SL.Re2292 React-Flask, DN 100, 2,000~2,600(full)ml, 1.0 bar,
φ 165 / thick 4.0±1×nφ 106×h215mm
SL.Re2293 React-Flask, DN 120, 3,000~3,500(full)ml, 1.0 bar,
φ 185 / thick 3.5±1×nφ 130×h240mm
SL.Re2294 React-Flask, DN 120, 5,000~6,000(full)ml, 1.0 bar,
φ 225 / thick 3.3±1×nφ 130×h280mm
SL.Re2295 React-Flask, DN 150, 10,000~12,000(full)ml, 0.5 bar,
φ 280 / thick 4.5±1×nφ 160×h350mm
SL.Re2296 React-Flask, DN 150, 20,000~22,000(full)ml, 0.5 bar,
φ 350 / thick 4.5±1×nφ 156×h420mm
SL.Re2298 React-Flask, DN 200, 50,000~56,000(full)ml, 0.5 bar,
φ 480 / thick 5.5±1×nφ 215×h650mm

Vessel		DAIHAN® Heat-Mantle, 230V	
Ea.	Price, ₩	Cat. No	Ea. Price, ₩
247,400		DH.WHM8222	174,000
388,600		DH.WHM8232	213,150
426,900		DH.WHM8233	243,600
587,000		DH.WHM8226	407,000
842,800		DH.WHM8227	671,000
2,754,900		DH.WHM8228	1,117,000

100 ~ 20,000ml DURAN® Original Vacuum/Pressure Reaction Vessel, with 45° DN-flange/O-ring Groove with Perfect Compatibility, 0.5 ~ 2.5 bar, 정품 DURAN® 원저 진공 / 압력 반응 베셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) Cylindrical-form, 100 ~ 3,600ml
R / B Vacuum / Pressure Vessels



※ Comparison! 2,600ml :
① "Re2212" Cylindrical-form and
② "DU.2439063" Kettle-form



(2) Kettle-form, 2,000 ~ 21,000ml
R / B Vacuum / Pressure Vessels



- **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°C -Annealing point, (2) 825°C -Softening point,
(3) 1260°C -Melt Working point, and (4) 525°C -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

- SM.2439024 DN 60 Vessel, - 100~200(full)ml, 2.5 bar,
φ 70 / thick 3.5 ± 1 × h85mm.
- SM.2439036 - 250~310(full)ml, 2.5 bar,
φ 70 / thick 3.5 ± 1 × h125mm.
- SM.2439044 DN 100 Vessel, - 500~750(full)ml, 1.5 bar,
φ 106 / thick 3.5 ± 1 × h120mm.
- SM.2439054 - 1,000~1,400(full)ml, 1.5 bar,
φ 106 / thick 3.5 ± 1 × h205mm.
- SL.Re2212 ① DN 120 Vessel, - 2,000~2,600(full)ml, 1.5 bar,
φ 130 / thick 4.5 ± 1 × h240mm.
- SL.Re2213 - 3,000~3,600(full)ml, 1.5 bar,
φ 130 / thick 4.5 ± 1 × h320mm.

(2) 2~21 Lit. Kettle-form, with Vacuum DN flange 45° /O-ring Groove

- SM.2439063 ② DN 100 Vessel, - 2,000~2,600(full)ml, 1.5 bar,
φ 140 / thick 4.5 ± 1 × n φ 110
× bh210 × h270mm.
- SM.2439071 DN 150 Vessel, - 4,000~5,800(full)ml, 1.0 bar,
φ 200 / thick 5 ± 1 × n φ 165
× bh215 × h290mm.
- SM.2439076 - 6,000~7,400(full)ml, 1.0 bar,
φ 215 / thick 5 ± 1 × n φ 165
× bh245 × h320mm.
- SM.2439086 - 10,000~12,000(full)ml, 0.5 bar,
φ 240 / thick 5.5 ± 1 × n φ 165
× bh335 × h410mm.
- SL.Re2217 DN 200, Vessel, - 20,000~21,000(full)ml,
φ 250 / thick 5.5 ± 1 × n φ 215
× bh500 × h575mm.

Vessel	DAIHAN® Heat-Mantle, 230V	
Ea. Price, ₩	Cat. No	Ea. Price, ₩
41,400	DH.WHM8130	96,000
80,000	DH.WHM8131	119,000
83,700	DH.WHM12146	121,000
112,600	DH.WHM8133	123,000
180,100	DH.WHM8134	137,000
189,800	DH.WHM8136	174,000
153,100	DH.WHM8135	153,000
247,600	DH.WHM8138	204,000
284,900	DH.WHM8139	224,000
317,800	DH.WHM8141	407,000
875,800	DH.WHM8142	712,000

DAIHAN-brand® Reaction Vessel Heating Mantles, Basic-type, 450°C, 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

- ① Stand Rod, "RD300", φ 13 × L520mm
- ② Holder / Clamp / Clip for Temp. Probe

Optional : Stainless-steel Rod, Holder & Clamp

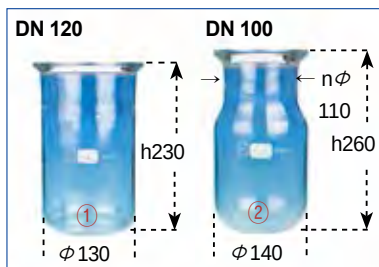
- DH.WHP503037 ① Stand Rod, φ 13 × L520mm, "RD300", for Heating Mantles
- DH.WHP503012 ② Holder & Clamp, "CL220", for Temp. Sensor

Ea.	Price, ₩
	16,000
	25,000

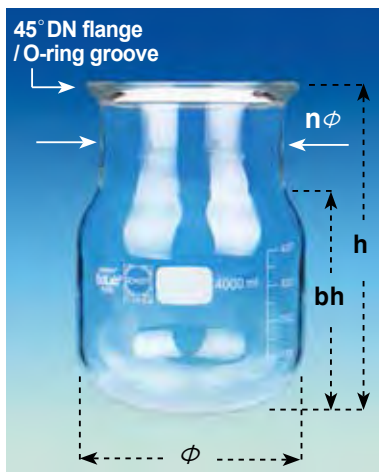
Graduated 100 ~ 10,000ml DURAN-glass Vacuum / Pressure Vessel, with 45° DN-flange/O-ring Groove with Perfect Compatibility, 0.5 ~ 2.5 bar, 눈금부 원저 진공 / 압력 반응 베셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) Graduated Cylindrical-form
100 ~ 3,600ml : Vacu- / General-



※ Comparison! 2,600ml :
① "Re2224" Cylindrical-form and
② "Re2226" Kettle-form



(2) Graduated R / B Kettle-form
2,000 ~ 12,000ml : Vacu- / General-



Basic-type Reaction Vessel Mantle
with Controller

- 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 : idφ 60×odφ 100mm
 - ② DN 100 Flange : idφ 100×odφ 138mm
 - ③ DN 120 Flange : idφ 120×odφ 158mm
 - ④ DN 150 Flange : idφ 150×odφ 184mm
 - ⑤ DN 200 Flange : idφ 200×odφ 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

- SL.Re2220 DN 60 Vessel, - 100~200(full)ml, 2.5 bar,
φ 70 / thick 3.5±1×h85mm.
- SL.Re2221 - 250~310(full)ml, 2.5 bar,
φ 70 / thick 3.5±1×h125mm.
- SL.Re2222 DN 100 Vessel, - 500~750(full)ml, 1.5 bar,
φ 106 / thick 3.5±1×h120mm.
- SL.Re2223 - 1,000~1,400(full)ml, 1.5 bar,
φ 106 / thick 3.5±1×h205mm.
- SL.Re2224 ①DN 120 Vessel, - 2,000~2,600(full)ml, 1.5 bar,
φ 130 / thick 4.5±1×h240mm.
- SL.Re2225 - 3,000~3,600(full)ml, 1.5 bar,
φ 130 / thick 4.5±1×h320mm.

(2) 2~12 Lit. Kettle-form, with Vacuum DN flange 45° /O-ring Groove

- SL.Re2226 ②DN 100 Vessel, - 2,000~2,600(full)ml, 1.5 bar,
φ 140 / thick 4.5±1×nφ 110
×bh215×h270mm.
- SL.Re2227 DN 150 Vessel, - 4,000~5,800(full)ml, 1.0 bar,
φ 200 / thick 5±1×nφ 165
×bh220×h290mm.
- SL.Re2228 - 6,000~7,400(full)ml, 1.0 bar,
φ 215 / thick 5±1×nφ 165
×bh250×h320mm.
- SL.Re2229 - 10,000~12,000(full)ml, 0.5 bar,
φ 240 / thick 5.5±1×nφ 165
×bh340×h410mm.

Vessel	DAIHAN® Heat-Mantle, 230V	
Ea. Price, ₩	Cat. No	Ea. Price, ₩
70,600	DH.WHM8130	96,000
120,400	DH.WHM8131	119,000
121,000	DH.WHM12146	121,000
167,400	DH.WHM8133	123,000
189,800	DH.WHM8134	137,000
199,500	DH.WHM8136	174,000
191,800	DH.WHM8135	153,000
291,100	DH.WHM8138	204,000
345,500	DH.WHM8139	224,000
420,600	DH.WHM8141	407,000

DAIHAN-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

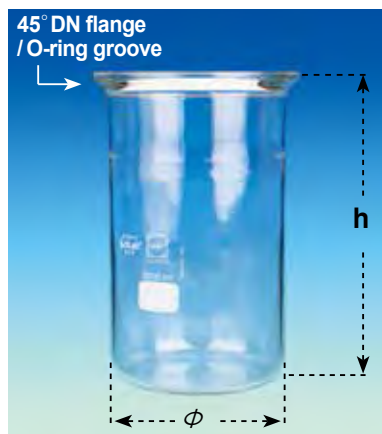
- ① Stand Rod, "RD300", φ 13×L520mm
- ② Holder / Clamp / Clip for Temp. Probe

Optional : Stainless-steel Rod, Holder & Clamp

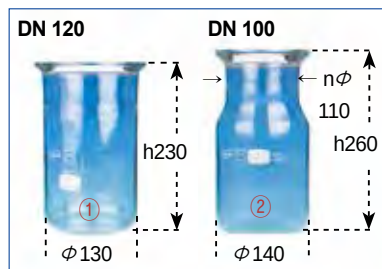
- DH.WHP503037 ① Stand Rod, φ 13×L520mm, "RD300", for Heating Mantles
- DH.WHP503012 ② Holder & Clamp, "CL220", for Temp. Sensor

Ea.	Price, ₩
	16,000
	25,000

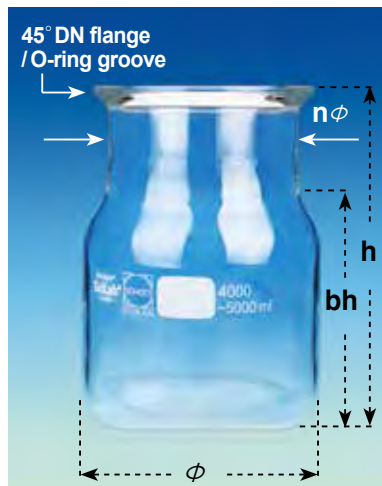
100 ~ 20,000ml DURAN-glass Flat-bottom Vacuum/Pressure Reaction Vessels, with 45° DN-flange/O-ring Groove with Perfect Compatibility, 0.5 ~ 2.5 bar, 평저 진공 / 압력 반응 베셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) F/B Cylindrical-form
100 ~ 3,600ml : Vacu- / General-



※ **Comparison! 2,500ml :**
① "Re2186" Cylindrical-form and
② "Re2191" Kettle-form



(2) Kettle-form,
2,000 ~ 21,000ml : 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°C -Annealing point, (2) 825°C -Softening point, (3) 1260°C -Melt Working point, and (4) 525°C-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 :** idφ 60 × odφ 100mm
 - ② **DN 100 Flange :** idφ 100 × odφ 138mm
 - ③ **DN 120 Flange :** idφ 120 × odφ 158mm
 - ④ **DN 150 Flange :** idφ 150 × odφ 184mm
 - ⑤ **DN 200 Flange :** idφ 200 × odφ 242mm

* 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

SL.Re2181	DN 60 Vessel, - 100~190ml, 2.5 bar, φ 70 / thick 3.5 ± 1 × h75mm.
SL.Re2182	- 250~310ml, 2.5 bar, φ 70 / thick 3.5 ± 1 × h120mm.
SL.Re2184	DN 100 Vessel, - 500~700ml, 1.5 bar, φ 106 / thick 3.5 ± 1 × h115mm.
SL.Re2185	- 1,000~1,300ml, 1.5 bar, φ 106 / thick 3.5 ± 1 × h190mm.
SL.Re2186	① DN 120 Vessel, - 2,000~2,500ml, 1.5 bar, φ 130 / thick 4.5 ± 1 × h230mm.
SL.Re2187	- 3,000~3,600ml, 1.5 bar, φ 130 / thick 4.5 ± 1 × h310mm.

(2) 2~21 Lit. Kettle-form, * 15 Lit only : Cylindrical-form
with Vacuum DN flange 45°/O-ring Groove, Flat-bottom

SL.Re2191	② DN 100 Vessel, - 2,000~2,500ml, 1.5 bar, φ 140 / thick 4.5 ± 1 × nφ 110 × bh210 × h260mm.
SL.Re2192	DN 150 Vessel, - 4,000~5,700ml, 1.0 bar, φ 200 / thick 5 ± 1 × nφ 160 × bh215 × h280mm.
SL.Re2193	- 6,000~7,200ml, 1.0 bar, φ 215 / thick 5 ± 1 × nφ 165 × bh245 × h300mm.
SL.Re2194	- 10,000~12,000ml, 0.5 bar, φ 240 / thick 5.5 ± 1 × nφ 165 × bh335 × h400mm.
SL.Re2198	DN 200 Vessel, - 20,000~21,000ml, 0.5 bar, φ 250 / thick 5.5 ± 1 × nφ 215 × bh500 × h575mm.

Vessel	DAIHAN® Heat-Mantle, 230V	
	Cat. No	Ea. Price, ₩
70,600	DH.WHM8130	96,000
120,400	DH.WHM8131	119,000
121,000	DH.WHM12146	121,000
167,400	DH.WHM8133	123,000
189,800	DH.WHM8134	137,000
199,500	DH.WHM8136	174,000
191,800	DH.WHM8135	153,000
291,100	DH.WHM8138	204,000
345,500	DH.WHM8139	224,000
420,600	DH.WHM8141	407,000
937,600	DH.WHM8142	712,000

DAIHAN-brand® Reaction Vessel Heating Mantles, Basic-type, 450°C, 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

① Stand Rod, "RD300", φ 13 × L520mm
② Holder / Clamp / Clip for Temp. Probe

Optional : Stainless-steel Rod, Holder & Clamp

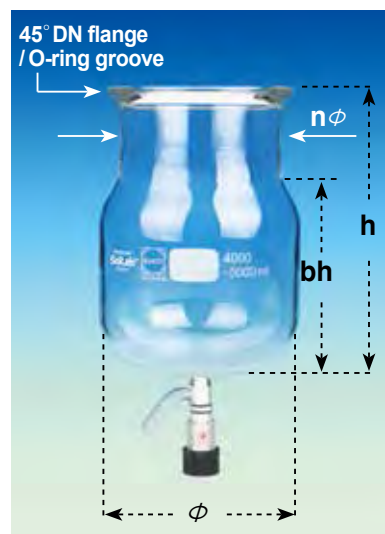
- DH.WHP503037 ① Stand Rod, φ 13 × L520mm, "RD300", for Heating Mantles
- DH.WHP503012 ② Holder & Clamp, "CL220", for Temp. Sensor

Ea.	Price, ₩
	16,000
	25,000

PTFE Drain-valved 250 ~ 20,000mL 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 배셀, O-링 홈부, 완벽한 호환성 표준화 규격



(1) Cylindrical-form, 250 ~ 3,600mL, PTFE Drain-valved



(2) Kettle-form, 2,000 ~ 21,000mL, PTFE Drain-valved



(2) Bottom Outlet-type Heating Mantle Remotecontrolled

■ **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°C -Annealing point, (2) 825°C -Softening point, (3) 1260°C -Melt Working point, and (4) 525°C-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.

SL.Re2231	DN 60 Vessel, - 250~310(full)mL, 2.5 bar, φ 70 / thick 3.5 ± 1 × h125mm.
SL.Re2232	DN 100 Vessel, - 500~750(full)mL, 1.5 bar, φ 106 / thick 3.5 ± 1 × h120mm.
SL.Re2233	- 1,000~1,400(full)mL, 1.5 bar, φ 106 / thick 3.5 ± 1 × h205mm.
SL.Re2234	DN 120 Vessel, - 2,000~2,600(full)mL, 1.5 bar, φ 130 / thick 4.5 ± 1 × h240mm.
SL.Re2235	- 3,000~3,600(full)mL, 1.5 bar, φ 130 / thick 4.5 ± 1 × h320mm.

Vessel	DAIHAN® Heat-Mantle, 230V
Ea. Price, ₩	Cat. No
207,600	
211,800	DH.WHM8190
254,500	DH.WHM8191
267,200	DH.WHM8192
296,300	DH.WHM8194

(2) 2~21 Lit. Kettle-form, with PTFE Drain-valve, * 15 Lit only : Cylindrical-form with Vacuum DN Flange 45° /O-ring groove.

SL.Re2240	DN 100 Vessel, - 2,000~2,600(full)mL, 1.5 bar, φ 140 / thick 4.5 ± 1 × nφ 110 × bh210 × h270mm.
SL.Re2241	DN 150 Vessel, - 4,000~5,800(full)mL, 1.0 bar, φ 200 / thick 5 ± 1 × nφ 165 × bh215 × h290mm.
SL.Re2242	- 6,000~7,400(full)mL, 1.0 bar, φ 215 / thick 5 ± 1 × nφ 165 × bh245 × h320mm.
SL.Re2243	- 10,000~12,000(full)mL, 0.5 bar, φ 240 / thick 5.5 ± 1 × nφ 165 × bh335 × h410mm.
SL.Re2246	DN 200 Vessel, - 20,000~21,000(full)mL, φ 250 / thick 5.5 ± 1 × nφ 215 × bh500 × h575mm.

279,000	DH.WHM8193	164,000
445,900	DH.WHM8196	204,000
490,700	DH.WHM8197	224,000
595,500	DH.WHM8199	407,000
1,105,100	DH.WHM8200	710,000

* Temp. Controller : Option

DAIHAN® Remotecontrolled Reaction Vessel Heating Mantles, Bottom Outlet-type, 450°C, 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



DH.WHM13500

(1) Analog Controller, "C10A", 230V

Ea. Price, ₩

112,000

DH.WHM12500

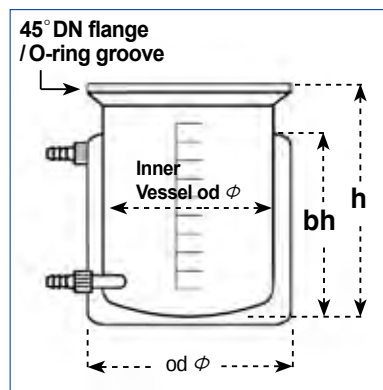
(2) Full Digital Controller, "C10D", 230V

232,000

Graduated 250 ~ 20,000ml 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 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, 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 / 50ml, φ 105 × bh100, h150mm, GL 14 inner vessel : od φ 65 / thick 3.5 × h150mm, outer jacket : od φ 105 / thick 4mm.	226,600	
SL.Re2252 - 500~620 / 100ml, φ 105 × bh190, h240mm, GL 18 inner vessel : od φ 65 / thick 3.5 × h240mm, outer jacket : od φ 105 / thick 4mm.	249,100	
SL.Re2253 DN 100 Vessel, - 500~750 / 100ml, φ 130 × bh80, h140mm, GL 18 inner vessel : od φ 105 / thick 3 × h140mm, outer jacket : od φ 130 / thick 3mm.	280,900	
SL.Re2254 - 1,000~1,400 / 100ml, φ 130 × bh150, h210mm, GL 18 inner vessel : od φ 105 / thick 3 × h210mm, outer jacket : od φ 130 / thick 3mm.	299,000	
SL.Re2255 DN 120 Vessel, - 2,000~2,600 / 200ml, φ 160 × bh190, h250mm, GL 18 inner vessel : od φ 130 / thick 4 × h250mm, outer jacket : od φ 160 / thick 4.5mm.	396,200	
SL.Re2256 - 3,000~3,600 / 500ml, φ 160 × bh280, h340mm, GL 25 inner vessel : od φ 130 / thick 4 × h250mm, outer jacket : od φ 160 / thick 4.5mm.	528,600	
SL.Re2257 DN 150 Vessel, - 5,000~6,100 / 500ml, φ 215 × bh360, h430mm, GL 25 inner vessel : od φ 160 / thick 4.5 × h430mm, outer jacket : od φ 215 / thick 5.5mm.	755,800	
SL.Re2259 DN 200 Vessel, - 10,000~11,800 / 1,000ml, φ 270 × bh290, h360mm, GL 32 inner vessel : od φ 215 / thick 5.5 × h360mm, outer jacket : od φ 270 / thick 5mm.	1,355,500	
SL.Re2262 - 20,000~22,000 / 2,000ml, φ 270 × bh590, h670mm, GL 32 inner vessel : od φ 215 / thick 5 × h670mm, outer jacket : od φ 270 / 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 Connector.

(1) Straight-type

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

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

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

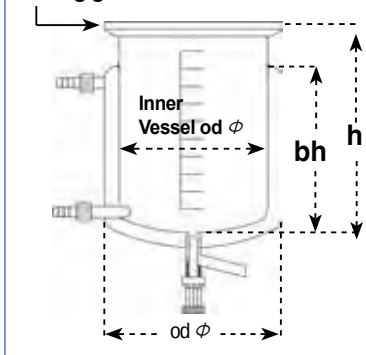
45° DN flange
/ O-ring groove



※ The Figure : up to 20Lit

PTFE Valved / Graduated Jacket Vessel
with GL 14 ~ 32 PTFE Hose Connection &

45° DN flange
/ O-ring groove



※ The Figure : 30~100Lit Vessel Only



① Heated Fluid 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 / 50ml, 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 / 100ml, 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 / 100ml, 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 / 100ml, 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 / 200ml, 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 / 500ml, 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 / 500ml, 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 / 1,000ml, 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 / 1,000ml, 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 / 1,000ml, 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 / 2,000ml, 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 / 2,000ml, 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 / 2,000ml, 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 $\phi 27.2$ mm 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 $\phi 27.2$ mm Stainless-steel Pipe, Aluminum-Connector & - Setting Board with Cushion Insert, and with or without Caster.
- 80 / 100Lit : od $\phi 27.2 \times$ thick 2.0mm STS
- Optional Accessories : Holders for DN flange of Vessels

(1) Bench-top Frame with Foot, ※ 운임 약 ₩ 50,000 별도!
Stainless pipe $\phi 27.2 \times$ thick 1.5mm

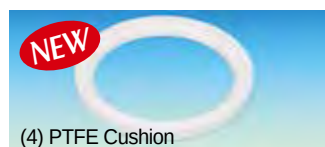
Ea.	Price, ₩
SL.ReF7011	Reactor Frame $\phi 27.2$ STS Pipe, for 0.5~5Lit., DN 60~120-flange Size : 400×400×Height 750mm 1,103,600
SL.ReF7012	Reactor Frame $\phi 27.2$ STS Pipe, for 2~10Lit., DN 120~200-flange Size : 450×450×Height 800mm 1,118,100

(2) Floor-top Frame with Casters, ※ 운임 약 ₩ 100,000 별도!
Stainless pipe $\phi 27.2 \times$ thick 1.5/2.0mm

Ea.	Price, ₩
SL.ReF7015	Reactor Frame $\phi 27.2$ STS Pipe, for 5~10Lit., DN 120~200-flange Size : 450×450×Height 1300mm 1,203,800
SL.ReF7016	Reactor Frame $\phi 27.2$ STS Pipe, for 10~20Lit., DN 150&200-flange Size : 500×500×Height 1500mm 1,281,700
SL.ReF7017	Reactor Frame $\phi 27.2$ STS Pipe, for 30Lit., DN 200-flange Size : 550×550×Height 1700mm 1,525,600
SL.ReF7018	Reactor Frame $\phi 27.2$ STS Pipe, for 50Lit., DN 200-flange Size : 600×600×Height 1800mm 1,700,800
SL.ReF7019	Reactor Frame $\phi 27.2$ 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 $\phi 170 \times$ id $\phi 120 \times$ Thick 15mm, for Set-board 450×450mm 50,820
SL.ReF7036	, od $\phi 230 \times$ id $\phi 180 \times$ Thick 15mm, 500×500mm 91,960
SL.ReF7037	, od $\phi 340 \times$ id $\phi 275 \times$ Thick 15mm, 550×550mm 183,920
SL.ReF7038	, od $\phi 360 \times$ id $\phi 290 \times$ Thick 15mm, 600×600mm 203,040
SL.ReF7039	, od $\phi 420 \times$ id $\phi 340 \times$ Thick 15mm, 670×670mm 290,400

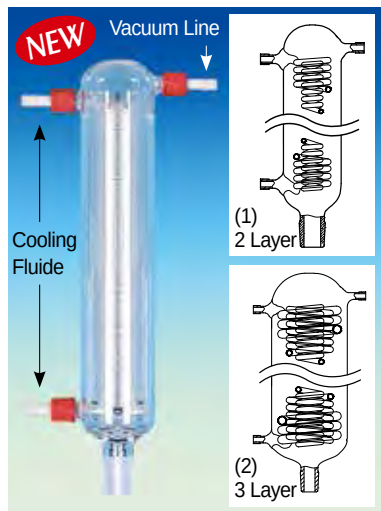


(5) Spare Setting Boards, Aluminium

Ea.	Price, ₩
SL.ReF7040	Setting Board, Center Hole - $\phi 125$, 450×450×Thick 10mm, for 2~10 Lit. 314,600
SL.ReF7041	- $\phi 185$, 500×500×Thick 10mm, 10~20 Lit. 338,800
SL.ReF7042	- $\phi 280$, 550×550×Thick 15mm, 30 Lit. 474,320
SL.ReF7043	- $\phi 295$, 600×600×Thick 20mm, 50 Lit. 624,360
SL.ReF7044	- $\phi 345$, 670×670×Thick 30mm, 80~100 Lit. 871,200

(6) Spare $\phi 27.2$ mm Tube Connectors for the Reactor Frames





Big Volume Reflux Condensers, Boro-glass 3.3, Ideal for Reactors 5~100 Lit. NEW with ₩24/29, 34/35, and 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 Fluid & Vacuum Line.

(1) 2-Layer Coil Condenser for 5~50 Lit.

SL.Con2111 Reactor Condenser, GL18, for 5~10Lit. od 50mm×h435mm, ₩24/29

SL.Con2112 , for 10~20Lit. od 100mm×h455mm, ₩24/29

SL.Con2113 , GL25, for 20~50Lit. od 100mm×h595mm, ₩34/35

Ea.	Price,₩
	308,630
	467,750
	637,070

(2) 3-Layer Coil Condenser for 80~100 Lit.

SL.Con2115 Reactor Condenser, GL25, for 80~100Lit. od 165mm×h645mm, ₩34/35

Ea.	Price,₩
	1,450,810



SciLab® Stainless-steel Condenser / Column Holding Clamp, 냉각기용 클램프 NEW

■ **Made in Korea**

* Ideal for Various Big Volumned Condenser / Column

* Easy Adjust with Adjusting Screw Nut * Stem od13mm

SL.Cla7201 Clamp, STS, Band-type, Grip Capa. ϕ 50~75mm, Overall 350mm

SL.Cla7202 ϕ 85~115mm, Overall 400mm

SL.Cla7203 ϕ 150~178mm, Overall 450mm

Ea.	Price,₩
	7,260
	7,810
	8,350

Cowie® K-type PTFE Encapsulated Stainless-steel Thermocouple Probes, Can be Bent, $-180^{\circ}\text{C} + 280^{\circ}\text{C}$ 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, $-180^{\circ}\text{C} + 280^{\circ}\text{C}$

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

CW.600.101.1 PTFE Capsulated K-probe, Body- ϕ 6×L100, Ferrule-L35mm, Total -L135mm

CW.600.201.1 - ϕ 7×L200, -L40mm, -L240mm

CW.600.301.1 - ϕ 8×L300, -L40mm, -L340mm

CW.600.401.1 - ϕ 8×L400, -L50mm, -L450mm

CW.600.501.1 - ϕ 9×L500, -L60mm, -L560mm

CW.600.601.1 - ϕ 9×L600, -L60mm, -L660mm

CW.600.701.1 - ϕ 9×L700, -L45mm, -L745mm

Ea.	Price,₩
	66,340
	71,990
	77,990
	83,160
	95,060
	104,370
	120,840

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

CW.600.501.1.2 PTFE Capsulated K-probe, body- ϕ 9×L500, Ferrule-L60mm, Total-L560mm

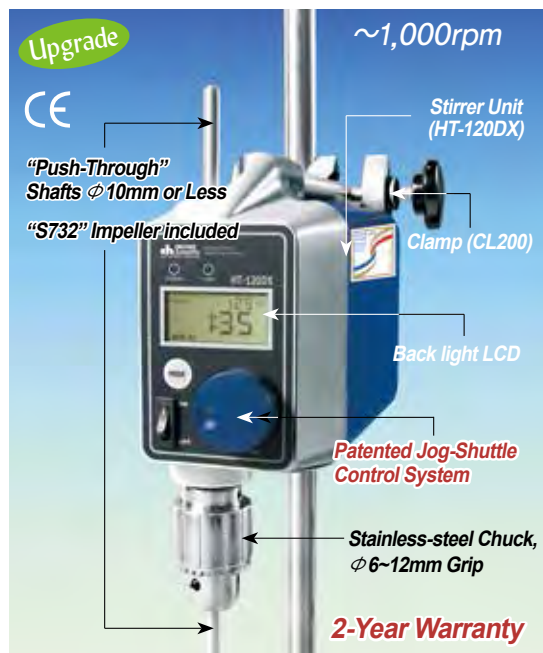
CW.600.601.1.2 - ϕ 9×L600, -L60mm, -L660mm

CW.600.701.1.2 - ϕ 9×L700, -L45mm, -L745mm

CW.600.901.1.2 - ϕ 9×L900, -L45mm, -L945mm

Ea.	Price,₩
	105,400
	114,710
	131,170
	140,490

DAIHAN-brand® High-Torque Digital Overhead Stirrer, "HT-DX", for Middle-/High-Viscosity, Max.50-/80-Lit, Max.1,000rpm with "Push-Through" Shaft(ϕ 10mm or Less) and Chuck grip 6~12mm, Flex-Coupling ϕ 6~16mm, 150,000 mPas **Upgrade**
 아날로그 중/고점도용 강력교반기, 사용교반용 ; ①기본은 ϕ 6~12mm, ②관통은 ϕ 6~10mm, & ③별도의 Flex-Coupling 활용시 ϕ 6~16mm



Max. 80 Lit. (H₂O) Hi-Torque Digital Overhead Stirrer, "HT-120DX" Package-set



(1) Hi-flex Metal ; (2) Heavy-duty Metal
 for ϕ 6~16 Shafts ; for ϕ 10~16 Shafts

※ Details of Wide-Range Couplings :
 See the "Stirrer Accessories"

- Made in Korea ■ CE Certified ■ PL (Product Liability) Insurance
- Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed(RPM) Performance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System ■ 3.5:1 Ratio Worm-gear Motor
- "Push-Through" Shafts(ϕ 10mm 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	(1) “HT-50DX”	(2) “HT-120DX”
Stirring Capacity		Max. 50 Lit. (H ₂ O)	Max. 80 Lit. (H ₂ O)
Maximum Viscosity / Torque		100,000 mPaS / 300 Ncm	150,000 mPaS / 500 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. ϕ mm		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	DH.WOS01052	DH.WOS01072
	120V	DH.WOS02052	DH.WOS02072
Price, Each. ₩		520,000	635,000
Unit-only			
Cat. No.	230V	DH.WOS01051	DH.WOS01071
	120V	DH.WOS02051	DH.WOS02071
Price, Each. ₩		400,000	470,000

- * "HT-50DX" Package-set : Complete with ① "HT-50DX" Stirrer Unit, ② "S732" Stainless-steel Impeller (Rod ϕ 8 × L500mm, 4-Blade ϕ 70mm), ③ "CL200" Clamp, and ④ "ST120" Wide Plate Stand (Rod ϕ 23 × L1000mm, Base w30 × d40cm)
- * "HT-120DX" Package-set : Complete with ① "HT-120DX" Stirrer Unit, ② "S736" Stainless-steel Impeller (Rod ϕ 10 × L650mm, 4-Blade ϕ 90mm), ③ "CL200" Clamp, and ④ "ST200" Deluxe Safety Stand (Rod ϕ 23 × L1200mm, Base w39 × up to 75cm)

Flexible Couplings, for Safety Stirring of ϕ 6~16mm Shafts of Overhead Stirrers **NEW** for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링

- 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 ϕ 8 / 10 / 12mm, L40mm

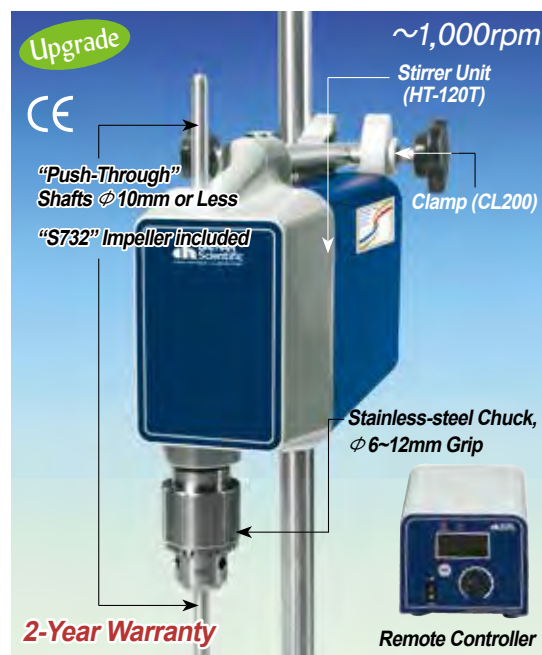
(1) UTILITY High-Flex. Metal Coupling, with 2 × Flex-band, for ϕ 6~16mm Stir-Shafts Ideal for Low/High Viscosity and High/Low Speed

	Ea.	Price, ₩
SL.StiC011 Stir-Coupling, Hi-flex, ϕ 8mm Chuck-rod , for- ϕ 6mm Stir-Shaft , 56g , ϕ 25 × h44mm		60,500
SL.StiC012 - ϕ 8mm Stir-Shaft , 53g , ϕ 25 × h44mm		60,500
SL.StiC013 - ϕ 10mm Stir-Shaft, 49g , ϕ 25 × h44mm		60,500
SL.StiC014 Stir-Coupling, Hi-flex, ϕ 10mm Chuck-rod, for- ϕ 8mm Stir-Shaft , 49g , ϕ 25 × h44mm		60,500
SL.StiC015 - ϕ 10mm Stir-Shaft, 43g , ϕ 25 × h44mm		60,500
SL.StiC016 - ϕ 12mm Stir-Shaft, 33g , ϕ 25 × h44mm		60,500
SL.StiC017 Stir-Coupling, Hi-flex, ϕ 12mm Chuck-rod, for- ϕ 10mm Stir-Shaft, 33g , ϕ 25 × h44mm		60,500
SL.StiC018 - ϕ 12mm Stir-Shaft, 123g , ϕ 32 × h60mm		72,600
SL.StiC019 - ϕ 14mm Stir-Shaft, 120g , ϕ 32 × h60mm		72,600
SL.StiC020 - ϕ 16mm Stir-Shaft, 118g , ϕ 32 × h60mm		72,600

(2) Heavy-duty Metal Coupling, with Short Flex-band, for ϕ 10~16mm Stir-Shafts Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

	Ea.	Price, ₩
SL.StiC023 Stir-Coupling, Low-flex, ϕ 10mm Chuck rod, for- ϕ 10mm Stir-Shafts., 45g , ϕ 25 × h30		30,500
SL.StiC024 - ϕ 12mm Stir-Shafts., , ϕ 25 × h30		30,500
SL.StiC025 Stir-Coupling, Low-flex, ϕ 12mm Chuck rod, for- ϕ 12mm Stir-Shafts., 105g , ϕ 32 × h38		40,660
SL.StiC026 - ϕ 14mm Stir-Shafts., , ϕ 32 × h38		40,660
SL.StiC027 - ϕ 16mm Stir-Shafts., , ϕ 32 × h38		40,660

DAIHAN-brand® Remote Control Hi-Torque Digital Overhead Stirrer, "HT-T", for Middle-/High-Viscosity, Max.50-/80-/100-Lit with "Push-Through" Shaft(ϕ 10mm or Less) and Chuck grip 6~12mm, Flex-Coupling ϕ 6~16mm, 160,000 mPas, Max.1,000rpm ^{Upgrade}
원격조절식 디지털 중/고점도용 강력교반기, 사용교반병 ; ①기본은 ϕ 6~12mm, ②관통은 ϕ 6~10mm, & ③별도의 Flex-Coupling 활용시 ϕ 8~16mm



Digital High-Torque Overhead Stirrer
with Stirring Speed Remote Controller
"HT-120T-Set"



New "HT-140T" Digital High-Torque Overhead Stirrer,
(included Stirring Speed Remote Controller and Temp. Display)
with Modular Reactor System

- Made in Korea ■ CE Certified ■ PL(Product Liability) Insurance
 - Ensure Minimize RPM Fluctuation : Very Stable Stirring Speed(RPM) Performance
 - with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System ■ 3.5:1 Ratio Worm-gear Motor
 - "Push-Through" Shafts(ϕ 10mm 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 :
 - "HT-50T", "HT-120T" model : Included Stirring-speed Remote Controller
 - "HT-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	“HT-50T”	“HT-120T”	“HT-140T” <i>New</i>
Stirring Capacity(H ₂ O)	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	φ 10 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	DH.WOS01066	DH.WOS01076	-
	120V	DH.WOS02066	DH.WOS02076	-
Price, Each. ₩		667,000	782,000	-

Unit & Remote Controller

Cat. No.	230V	DH.WOS01065	DH.WOS01075	DH.WOS01085
	120V	DH.WOS02065	DH.WOS02075	DH.WOS02085
Price, Each. ₩		547,000	608,000	661,000

* Weight of Remote Controller = 2.5kg

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

- * "HT-50T" Package-set : Complete with ① "HT-50T" Stirrer Unit with Remote Controller
② "S732" Stainless-steel Impeller (Rod ϕ 8 × L500mm, 4-Blade ϕ 70mm) ③ "CL200" Clamp,
and ④ "ST120" Wide Plate Stand(Rod ϕ 23 × L1000mm, Base w30 × d40cm)
- * "HT-120T" Package-set : Complete with ① "HT-120T" Stirrer Unit with Remote Controller
② "S736" Stainless-steel Impeller (Rod ϕ 10 × L650mm, 4-Blade ϕ 90mm) ③ "CL200" Clamp,
and ④ "ST200" Deluxe Safety Stand (Rod ϕ 23 × L1,200mm, Base 39 × up to 75cm)

※ Details of Wide-Range Couplings : See the "Stirrer Accessories"

SciLab® Vacuum Stirrer-Guide, with DURAN® PBT Opentop Cap & PTFE/ Silicone O-Ring Seal and ₩24/- ~ 45/-Glass joints for $\phi 8 \sim 14$ mm Shafts, with Red PBT Screw Grip System, Chemically Inert, 200°C Stable, 스크류 교반셀 **NEW**

■ Made of DURAN® Borosilicate Glass $\alpha 3.3$ 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 $\phi 8$ mm Rod, GL25, 24/40	21,600
SL.StiS242	, 29/42	26,140
SL.StiS243	, 34/45	29,400
SL.StiS245	for $\phi 10$ mm Rod, GL25, 24/40	30,690
SL.StiS246	, 29/42	30,710
SL.StiS247	, GL32, 34/45	40,060
SL.StiS251	for $\phi 12$ mm Rod, GL32, 34/45	41,140
SL.StiS252	, 45/50	50,460
SL.StiS253	for $\phi 14$ mm 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 $\phi 8$ mm Rod, GL25, 24/29	21,600
SL.StiS242D	, 29/32	26,140
SL.StiS243D	, 34/35	29,400
SL.StiS245D	for $\phi 10$ mm Rod, GL25, 24/29	30,690
SL.StiS246D	, 29/32	30,710
SL.StiS247D	, GL32, 34/35	40,060
SL.StiS251D	for $\phi 12$ mm Rod, GL32, 34/35	41,140
SL.StiS252D	, 45/40	50,460
SL.StiS253D	for $\phi 14$ mm Rod, GL32, 34/35	41,870
SL.StiS254D	, 45/40	51,310

SciLab-brand® PTFE Stirrer-Guide/Seals, for $\phi 8 \sim \phi 14$ mm Shafts, with ₩24/-, ₩29/-, and ₩34/-Joints **NEW**
with 2 Bearings / Screw-Retainer / Viton O-ring, All PTFE, $-180 \sim +260^\circ\text{C}$ Stable, PTFE 교반셀



■ Made in Korea ■ Common-use : to ASTM & DIN-type Socket Joints

(1) for $\phi 8$ mm Stir-Shafts

		Ea. Price, ₩
SL.Ada405	for $\phi 8$ mm Rod, ₩24/40	41,140
SL.Ada406	, ₩29/42	45,260
SL.Ada407	, ₩34/45	51,430

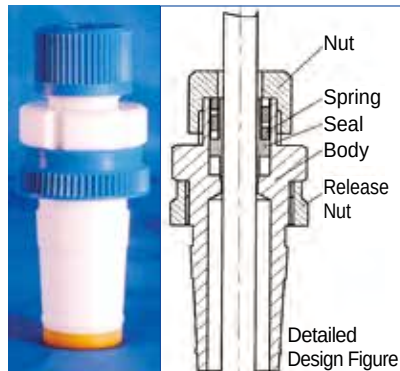
(2) for $\phi 10$ mm Stir-Shafts

		Ea. Price, ₩
SL.Ada409	for $\phi 10$ mm Rod, ₩24/40	41,140
SL.Ada410	, ₩29/42	45,260
SL.Ada411	, ₩34/45	51,430

(3) for $\phi 12$ & 14mm Stir-Shafts

		Ea. Price, ₩
SL.Ada413	PTFE Stir-Guide, for $\phi 12$ mm Rod, ₩34/45	56,630
SL.Ada415	, for $\phi 14$ mm Rod, ₩34/45	58,810

₩ Joint-Screw-NPT-PTFE/PEEK High-class Vacuum Stirrer Guide, with ASTM/DIN ₩ Glass Cone Joint, for $\phi 8 \sim 16$ mm Shafts
Ideal for Middle/Low-Vacuum, 500/800rpm, Chemically Inert, $-200^\circ\text{C} \sim +280^\circ\text{C}$ stable, 고품질 진공 ₩ 교반셀



for Low/Middle Vacuum/Pressure

■ Made of UK. ■ Suitable for Glass Same Size Socket of ASTM or DIN

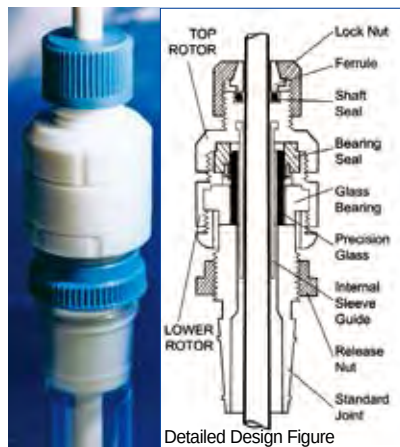
* PTFE in the only Media Contact Material

(1) for ASTM Socket Joint Sizes ; for $\phi 8 \sim \phi 16$ mm Shaft

		Ea. Price, ₩
CW.005.0.0824	Stirrer Seal, USA-type, for- $\phi 8$ mm Shafts, ₩24/40 Joint	134,150
CW.005.0.1024	- $\phi 10$ mm Shafts, ₩24/40 Joint	134,150
CW.005.0.1034	- $\phi 10$ mm Shafts, ₩34/45 Joint	145,300
CW.005.0.1434	- $\phi 14$ mm Shafts, ₩34/45 Joint New	513,690
CW.005.0.1634	- $\phi 16$ mm Shafts, ₩34/45 Joint	190,070

(2) for DIN/ISO Socket Joint Sizes ; for $\phi 8 \sim \phi 16$ mm Shaft

		Ea. Price, ₩
CW.005.00.0824	Stirrer Seal, EUROPE-type, for- $\phi 8$ mm Shafts, ₩24/29 Joint	106,410
CW.005.00.1029	- $\phi 10$ mm Shafts, ₩29/32 Joint	112,700
CW.005.00.1045	- $\phi 10$ mm Shafts, ₩45/40 Joint	147,150
CW.005.00.1434	- $\phi 14$ mm Shafts, ₩34/35 Joint New	510,490
CW.005.00.1645	- $\phi 16$ mm Shafts, ₩45/40 Joint	187,810



for High Vacuum / Pressure

Cowie® High-Vacuum / Pressure Stirrer Guides, ₩ PTFE/PEEK/Glass-Bearing Seal for $\phi 8 \sim 16$ mm Shafts, Useable up to 800rpm, 280°C stable, 고진공/압력용 교반 셀

■ Made in U.K. ■ High Vacuum 5mmHg & Pressure 3~5psi Performance

* Anti-Whip, Reduced Vibration, No-Shedding, Self-Releasing Joint Ring, Totally Inert.

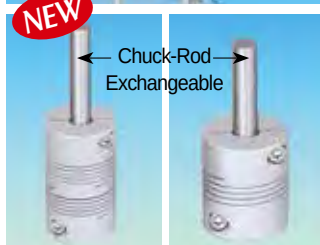
* Specially Fabricated Glass Ball-Bearing & PTFE/PEEK Seal : Useable up to 800rpm

(1) for ASTM Socket Joint Sizes ; for $\phi 8 \sim 16$ mm Shafts

		Ea. Price, ₩
CW.005.1047	Stirrer Seal, USA-type, for- $\phi 8$ mm Shafts, ₩24/40 Joint	312,740
CW.005.1057	- $\phi 10$ mm Shafts, ₩24/40 Joint	312,740
CW.005.1067	- $\phi 10$ mm Shafts, ₩29/42 Joint	312,740
CW.005.1097	- $\phi 14$ mm Shafts, ₩34/45 Joint New	861,450
CW.005.1117	- $\phi 16$ mm Shafts, ₩34/45 Joint	365,930

(2) for DIN/ISO Socket Joint Sizes ; for $\phi 10 \sim 16$ mm Shafts

		Ea. Price, ₩
CW.005.2067	Stirrer Seal, EUROPE-type, for- $\phi 10$ mm Shafts, ₩29/32 Joint	284,280
CW.005.2077	- $\phi 10$ mm Shafts, ₩34/35 Joint	284,280
CW.005.2097	- $\phi 14$ mm Shafts, ₩34/35 Joint New	845,500
CW.005.2127	- $\phi 16$ mm Shafts, ₩45/40 Joint	332,680



(1) Hi-flex Metal ; (2) Heavy-duty Metal
for $\phi 6\sim 16$ Shafts; for $\phi 10\sim 16$ Shafts



(3) Rubber Based for $\phi 7\sim 10$ Shafts

Flexible Couplings, for Safety Stirring of $\phi 6\sim 16$ mm Shafts of Overhead Stirrers for Stirrers between Stirring Motor and Shaft, 안전교반용 유연성 커플링

■ 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 $\phi 8 / 10 / 12$ mm, L40mm

(1) UTILITY High-Flex. Metal Coupling, with 2 $\times$ Flex-band, for $\phi 6\sim 16$ mm Stir-Shafts NEW Ideal for Low/High Viscosity and High/Low Speed

SL.StiC011	Stir-Coupling, Hi-flex, $\phi 8$ mm Chuck-rod, for- $\phi 6$ mm Stir-Shaft, 56g, $\phi 25 \times h44$ mm	60,500
SL.StiC012	- $\phi 8$ mm Stir-Shaft, 53g, $\phi 25 \times h44$ mm	60,500
SL.StiC013	- $\phi 10$ mm Stir-Shaft, 49g, $\phi 25 \times h44$ mm	60,500
SL.StiC014	Stir-Coupling, Hi-flex, $\phi 10$ mm Chuck-rod, for- $\phi 8$ mm Stir-Shaft, 49g, $\phi 25 \times h44$ mm	60,500
SL.StiC015	- $\phi 10$ mm Stir-Shaft, 43g, $\phi 25 \times h44$ mm	60,500
SL.StiC016	- $\phi 12$ mm Stir-Shaft, 33g, $\phi 25 \times h44$ mm	60,500
SL.StiC017	Stir-Coupling, Hi-flex, $\phi 12$ mm Chuck-rod, for- $\phi 10$ mm Stir-Shaft, 33g, $\phi 25 \times h44$ mm	60,500
SL.StiC018	- $\phi 12$ mm Stir-Shaft, 123g, $\phi 32 \times h60$ mm	72,600
SL.StiC019	- $\phi 14$ mm Stir-Shaft, 120g, $\phi 32 \times h60$ mm	72,600
SL.StiC020	- $\phi 16$ mm Stir-Shaft, 118g, $\phi 32 \times h60$ mm	72,600

Ea.	Price, ₩
	60,500
	60,500
	60,500
	60,500
	60,500
	60,500
	72,600
	72,600
	72,600

(2) Heavy-duty Metal Coupling, with Short Flex-band, for $\phi 10\sim 16$ mm Stir-Shafts Low-Flexible type, Ideal for High Viscosity and Middle/Low Speed

SL.StiC023	Stir-Coupling, Low-flex, $\phi 10$ mm Chuck rod, for- $\phi 10$ mm Stir-Shafts., 45g, $\phi 25 \times h30$	30,500
SL.StiC024	- $\phi 12$ mm Stir-Shafts., $\phi 25 \times h30$	30,500
SL.StiC025	Stir-Coupling, Low-flex, $\phi 12$ mm Chuck rod, for- $\phi 12$ mm Stir-Shafts., 105g, $\phi 32 \times h38$	40,660
SL.StiC026	- $\phi 14$ mm Stir-Shafts., $\phi 32 \times h38$	40,660
SL.StiC027	- $\phi 16$ mm Stir-Shafts., $\phi 32 \times h38$	40,660

Ea.	Price, ₩
	30,500
	30,500
	40,660
	40,660
	40,660

(3) Very Flexible Rubber Based Coupling, for $\phi 7\sim 10$ mm Shafts Especially, Ideal for GLASS Shafts and Low/Middle Viscosity & High Speed

* Made in Germany * Shaft Fastening by Screw Compression Rubber Ring Pad.
* with $\phi 10 \times L40$ mm Exchangeable Stainless-steel Chucking Rod

WI.1445000 Stir-Coupling, Rubber Based, for $\phi 7\sim \phi 10$ mm Shafts, 72.5g, Body $\phi 46 \times h80$ mm

Ea.	Price, ₩
	191,490

SciLab® Stainless-steel Stirring Shafts, for Lab & Industrial Overhead Stirrers, Rod $\phi 8\sim 12 \times L500\sim 1000$ mm NEW Ideal for Universal-use of Wide-range Speed & Viscosity, 스테인레스 교반봉 / 임펠러



(1) 3-bladed Propeller-type
Universal-use



(2) 4-bladed Propeller-type
Standard-model



(3) 4-bladed Dissolver Diamond-type

■ 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 $\phi 8\sim 12 \times L500\sim 1000$, Rotor $\phi 50\sim 140$ mm, and Good for Low/Middle Viscosity

* Designed for Efficient Flow : mixed from Top to Bottom of Vessel * Minimum Shearing

SL.StiS721	Stir-Shaft, "S721", #304, Rod- $\phi 8 \times L500$, Rotor- $\phi 50 \times h15$ mm	13,560
SL.StiS722	, "S722", - $\phi 8 \times L500$, - $\phi 60 \times h15$ mm	13,560
SL.StiS723	, "S723", - $\phi 8 \times L650$, - $\phi 80 \times h20$ mm	14,520
SL.StiS724	, "S724", - $\phi 8 \times L650$, - $\phi 100 \times h24$ mm	14,520
SL.StiS726	Stir-Shaft, "S726", #304, Rod- $\phi 10 \times L500$, Rotor- $\phi 60 \times h15$ mm	14,520
SL.StiS727	, "S727", - $\phi 10 \times L650$, - $\phi 80 \times h20$ mm	15,490
SL.StiS728	, "S728", - $\phi 10 \times L800$, - $\phi 100 \times h24$ mm	16,850
SL.StiS729	Stir-Shaft, "S729", #304, Rod- $\phi 12 \times L1000$, Rotor- $\phi 140 \times h30$ mm	21,300

Ea.	Price, ₩
	13,560
	13,560
	14,520
	14,520
	14,520
	15,490
	16,850
	21,300

(2) Standard 4-bladed Propeller-type, ideal for Low/Middle Speed & Viscosity Popular-model, with Rod $\phi 8\sim 12 \times L500\sim 1000$, Rotor $\phi 50\sim 140$ mm, 45° Angled

SL.StiS731	Stir-Shaft, "S731", #304, Rod- $\phi 8 \times L500$, Rotor- $\phi 50 \times h20$ mm	13,560
SL.StiS732	, "S732", - $\phi 8 \times L500$, - $\phi 70 \times h25$ mm	13,560
SL.StiS733	, "S733", - $\phi 8 \times L650$, - $\phi 90 \times h35$ mm	14,520
SL.StiS734	, "S734", - $\phi 8 \times L650$, - $\phi 110 \times h35$ mm	14,520
SL.StiS736	Stir-Shaft, "S736", #304, Rod- $\phi 10 \times L650$, Rotor- $\phi 90 \times h35$ mm	15,490
SL.StiS737	, "S737", - $\phi 10 \times L800$, - $\phi 110 \times h40$ mm	15,880
SL.StiS738	, "S738", - $\phi 10 \times L1000$, - $\phi 110 \times h40$ mm	18,590
SL.StiS739	Stir-Shaft, "S739", #304, Rod- $\phi 12 \times L1000$, Rotor- $\phi 140 \times h40$ mm	21,300

Ea.	Price, ₩
	13,560
	13,560
	14,520
	14,520
	15,490
	15,880
	18,590
	21,300

(3) 4-bladed Dissolver Diamond-type, Good for Particle Reduction in Middle/High Speed with Rod $\phi 8 \text{ \& } 10 \times L500\sim 650$, Rotor $\phi 70\sim 110$ mm, and Good for Low/Middle Viscosity

SL.StiS741	Stir-Shaft, "S741", #304, Rod- $\phi 8 \times L500$, Rotor- $\phi 70 \times h20$ mm	13,560
SL.StiS742	, "S742", - $\phi 8 \times L500$, - $\phi 90 \times h25$ mm	13,560
SL.StiS743	, "S743", - $\phi 8 \times L650$, - $\phi 110 \times h25$ mm	14,520
SL.StiS744	Stir-Shaft, "S744", #304, Rod- $\phi 10 \times L650$, Rotor- $\phi 110 \times h25$ mm	15,490

Ea.	Price, ₩
	13,560
	13,560
	14,520
	15,490

<Continued on next page>

<Continued from...SciLab® Stainless-steel Stirring Shafts>



(5) Heavy-duty Anchor-type

(4) Heavy-duty Anchor-type, ideal for Middle/High Viscosity, Rod ϕ 8~12mm
Good for Low/Middle Speed, Rotor ϕ 70~180 mm

		Ea. Price, ₩
SL.StiS751	Stir-Shaft, "S751", #304, Rod- ϕ 8×L500, Rotor- ϕ 70×h14 mm	12,420
SL.StiS752	, "S752", - ϕ 8×L650, - ϕ 90×h16 mm	13,510
SL.StiS753	Stir-Shaft, "S753", #304, Rod- ϕ 10×L650, Rotor- ϕ 90×h16 mm	14,380
SL.StiS754	, "S754", - ϕ 10×L800, - ϕ 140×h25 mm	16,340
SL.StiS755	, "S755", - ϕ 10×L1000, - ϕ 160×h30 mm	19,610
SL.StiS757	Stir-Shaft, "S757", #304, Rod- ϕ 12×L1000, Rotor- ϕ 180×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 ϕ 8~12mm, L500~1000, Rotor ϕ 60~190mm, 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- ϕ 8×L500, Rotor- ϕ 60×h70 mm	38,800
SL.Sti762	, "S762", - ϕ 8×L650, - ϕ 80×h90 mm	50,900
SL.Sti763	Stir-Shaft, "S763", #304, Rod- ϕ 10×L650, Rotor- ϕ 115×h130 mm	59,300
SL.Sti764	, "S764", - ϕ 10×L800, - ϕ 125×h165 mm	69,000
SL.Sti765	, "S765", - ϕ 10×L1000, - ϕ 160×h215 mm	75,100
SL.Sti766	Stir-Shaft, "S766", #304, Rod- ϕ 12×L1100, Rotor- ϕ 190×h400 mm	84,500

SciLab® PTFE Stirring Shafts, with Stainless-steel Insert, for Lab & Industrial Overhead Stirrers, Rod ϕ 8~14×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 ϕ 8mm with ϕ 6mm Steel Insert- " ϕ 8/6", (2) OD ϕ 10mm with ϕ 8mm Steel Insert- " ϕ 10/8", (3) OD ϕ 12mm with ϕ 10mm Steel Insert- " ϕ 12/10", and OD ϕ 14mm with ϕ 12mm Steel Insert- " ϕ 14/12".
- 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> ϕ 24/- & 34/-Joint neck

(1) 2-bladed Centrifugal-type, ideal for ϕ 24/- & ϕ 34/-Joints(Narrow) Necks & Low Viscosity
with Rod ϕ 8 & 10×L500~650, Rotor ϕ 50~100 mm, and Good for Middle/High Speed

		Ea. Price, ₩
SL.StiS403	Stir-Shaft, PTFE, Rod- ϕ 8/6×L500, Swingrotor- ϕ 50×h14 mm, fit to ϕ 24/-joints	38,720
SL.StiS404	- ϕ 8/6×L500, - ϕ 70×h17 mm, fit to ϕ 24/-joints	41,300
SL.StiS405	- ϕ 8/6×L650, - ϕ 100×h24 mm, fit to ϕ 34/-joints	45,600
SL.StiS406	Stir-Shaft, PTFE, Rod- ϕ 10/8×L650, Swingrotor- ϕ 100×h24 mm, fit to ϕ 34/-joints	48,900

(2) Standard 4-bladed Propeller-type, ideal for Low/Middle Speed and High Viscosity
Good for Reactors, with Rod ϕ 8~14×L500~1100 and Rotor ϕ 50~140 mm, 45° Angled

- * Standard Stirring Shafts.
- * Designed for Efficient Mixing : from Top to Bottom of Vessel

		Ea. Price, ₩
SL.StiS410	Stir-Shaft, PTFE, Rod- ϕ 8/6×L500, Rotor- ϕ 50×h20mm	61,960
SL.StiS411	- ϕ 8/6×L500, - ϕ 70×h25mm	73,180
SL.StiS412	- ϕ 8/6×L650, - ϕ 70×h25mm	75,200
SL.StiS413	Stir-Shaft, PTFE, Rod- ϕ 10/8×L650, Rotor- ϕ 90×h35mm, Good for 5~10 Lit Vessels	88,070
SL.StiS414	- ϕ 10/8×L800, - ϕ 90×h35mm, Good for 10~20 Lit Vessels	92,200
SL.StiS415	- ϕ 10/8×L1000, - ϕ 90×h35mm, Good for 20~50 Lit Vessels	97,600
SL.StiS416.1	Stir-Shaft, PTFE, Rod- ϕ 12/10×L800, Rotor- ϕ 110×h40mm, Good for 10~20 Lit Vessels	140,500
SL.StiS416.2	- ϕ 12/10×L1000, - ϕ 110×h40mm, Good for 30~50Lit Vessels	160,800
SL.StiS416.3	- ϕ 12/10×L1000, - ϕ 140×h40mm, Good for 30~80Lit Vessels	303,500
SL.StiS417	Stir-Shaft, PTFE, Rod- ϕ 14/12×L1100, Exchangeable Rotor- ϕ 140×h40mm, Good for 50~100Lit Reactors	323,700



(2) Standard 4-bladed
Propeller-type



(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 ϕ 12 & 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- ϕ 12/10×L800, 2-Rotors of (1) Exchangeable 1st Rotor ϕ 110×h40 and (2) Bottom Rotor ϕ 110×h40mm	355,000
SL.StiS418	Stir-Shaft, PTFE, for 30~80Lit, Rod- ϕ 12/10×L1000, 2-Rotors of (1) Exchangeable 1st Rotor ϕ 110×h40 and (2) Bottom Rotor ϕ 140×h40mm	375,500
SL.StiS419	Stir-Shaft, PTFE, for 50~100Lit, Rod- ϕ 14/12×L1100, 2-Rotors of (1) Exchangeable 1st Rotor ϕ 140×h40 and (2) Bottom Rotor ϕ 140×h40mm	529,600

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<Continued From...SciLab® PTFE Stirring Shafts>

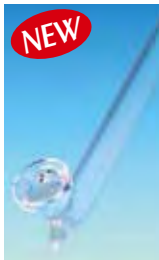


(4) Heavy-duty Anchor-type

(4) Heavy-duty Anchor-type, ideal for Middle/High Viscosity, Rod $\phi 8 \sim 12$ mm
Good for Low/Middle Speed, Rotor $\phi 80 \sim 140$ mm ■ **Made in UK.**

CW.005.340.82	Shaft, $\phi 8 \times L400$ mm Rod, $\phi 80$ mm Anchor	
CW.005.350.82	, $\phi 8 \times L500$ mm Rod, $\phi 80$ mm Anchor	
CW.005.355.2	, $\phi 10 \times L550$ mm Rod, $\phi 100$ mm Anchor	
CW.005.0365.102	, Ex-type, $\phi 10 \times L650$ mm Rod, $\phi 140$ mm Anchor	
CW.005.0375.102	, $\phi 10 \times L750$ mm Rod, $\phi 140$ mm Anchor	
CW.005.0375.122	, $\phi 12 \times L750$ mm Rod, $\phi 140$ mm Anchor	
CW.005.03100.122	, $\phi 12 \times L1000$ mm Rod, $\phi 140$ mm Anchor New	

Ea. Price, ₩
59,290
60,060
61,970
78,590
79,420
109,380
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 임펠러

* Glass Shafts : DURAN Borosilicate Glass 3.3 Rod $\phi 8$ & 10mm : Made in Korea

* PTFE Encapsulated Stainless-steel Shafts $\phi 8$ & 12mm, -200°C +280°C Stable : Made in U.K.

(1) GLASS-Shafts, $\phi 8/10$, L400~600mm

SL.StiS260	Glass-Shaft, $\phi 8$, L400mm
SL.StiS261	, L500mm
SL.StiS262	, L600mm

SL.StiS265	Glass-Shaft, ϕ 10, L400mm
SL.StiS266	, L500mm
SL.StiS267	, L600mm

(2) Cowie® PTFE/Steel Cored Shafts, $\phi 8$ & 12mm, L400~750mm, without Blade

* The Rod may be Cut to Any Length with a Hacksaw

CW.005.540.81	Shaft, PTFE, $\phi 8 \times L400$ mm
CW.005.550.81	, $\phi 8 \times L500$ mm
CW.005.555.1	, $\phi 10 \times L550$ mm

		Ea. Price, ₩
CW.005.565.1	Shaft, PTFE, $\phi 10 \times L650$ mm	42,540
CW.005.0575.101	, $\phi 10 \times L750$ mm	54,350
CW.005.0575.121	, $\phi 12 \times L750$ mm	87,720

(3) Cowie® PTFE Stir-Blades, Thick-3.2mm, Ideal for ₩24/- & ₩34/-Joint Necks

① with Square End, Fit to ₩24/-Joints

CW.002.052.1	Blade, Squ. 52×h14mm
CW.002.076.1	. 76×h19mm
CW.002.090.1	. 90×h28mm

② with Plain End, Fit to ₩34/-Joints

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

(3) PTFE Blade, with $\phi 6.5$ Connect-hole

(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, $\phi 8$ & 10, L400~650mm

* Good for Eco-Pure Work

SL.StiS206	Glass Shaft, $\phi 8 \times L400$ mm
SL.StiS207	, $\phi 8 \times L500$ mm

SL.StiS208	Glass Shaft, $\phi 10 \times L450$ mm	5,120
SL.StiS209	, $\phi 10 \times L550$ mm	5,290
SL.StiS210	, $\phi 10 \times L650$ mm	6,050

(2) PFA with Stainless-steel Insert Shafts, $\phi 8 \sim 14 \times L500 \sim 1100$ mm

* The Rod may be Cut to Any Length with a Hacksaw

* Translucent PFA, Totally Chemical Inert, -200°C +260°C

SL.StiS451	Shaft, PFA, $\phi 8/6 \times L500$ mm
SL.StiS452	, $\phi 8/6 \times L650$ mm
SL.StiS453	, $\phi 8/6 \times L800$ mm
SL.StiS454	, $\phi 10/8 \times L650$ mm

		Ea. Price, ₩
SL.StiS455	Shaft, PFA, $\phi 10/8 \times L800$ mm	67,400
SL.StiS456	, $\phi 12/10 \times L800$ mm	77,800
SL.StiS457	, $\phi 12/10 \times L1000$ mm	80,600
SL.StiS458	, $\phi 14/12 \times L1100$ mm	120,000

(1) "Screw Propeller" only $\phi 50 \sim \phi 140$ mm(2) "Turbine" Rotor Only $\phi 50 \sim \phi 150$ mm

All PTFE Adjustable / Exchangeable Rotors, for Shaft $\phi 8 \sim 16$ mm **NEW**

for Shaft $\phi 8 \sim 16$ mm, PTFE 교체형/조절식 교반 임펠러

■ The Exchangeable Rotors fit to $\phi 8 \sim 16$ mm Rods and Lock in place with Screw Nut

(1) SciLab® Exchangeable "Screw Propeller" Rotor, 45° Angled 4 Blade

* Made in Korea

SL.StiS461	Rotor- $\phi 50 \times h20$ mm, for Shaft- $\phi 8$
SL.StiS462	Rotor- $\phi 70 \times h25$ mm, for Shaft- $\phi 8$
SL.StiS463	

SL.StiS464	Rotor- $\phi 90 \times h35$ mm , for Shaft- $\phi 10$	88,400
SL.StiS465	Rotor- $\phi 110 \times h40$ mm, for Shaft- $\phi 12$	90,700
SL.StiS466	Rotor- $\phi 140 \times h40$ mm, for Shaft- $\phi 14$	130,900

(2) Cowie® Exchangeable "Turbine" Rotor only, $\phi 50 \sim 150$ mm

* Made in UK.

CW.005.90850	Rotor- ϕ 50mm, for Shaft- ϕ 8
CW.005.90875	Rotor- ϕ 75mm, for Shaft- ϕ 8
CW.005.91075	. for Shaft- ϕ 10

		Ea. Price, ₩
CW.005.910100	Rotor- ϕ 100mm, for Shaft- ϕ 10	102,810
CW.005.912100	, for Shaft- ϕ 12	108,360
CW.005.916150	Rotor- ϕ 150mm, for Shaft- ϕ 16	180,440

New Innovation LaboRactor™ 0.1 ~ 100Lit

All for Glass Reaction System for Lab & Pilot Plant

AutoLifting- / Classic- / H.Mantle-Models in Vacuum-Line, -80 °C +260 °C
with Glass Vessel / Lid or PTFE Lid, 45° DN Flange, Safety Connection, and Assembly Frame



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