HotPlate Stirrers







Features

Brushless shade motor

- Powerful and precise stirring function by strong magnetic drive Stable and long-life cycle by "Slow start function"

High durability and uniformity

- : High chemical resistance and specially designed heat line realize good temp, uniformity
- "Water" and "Oil" HS1 offers 2 control modes for
 - : Affords different thermal conductivity samples

HS1-A also offers visibility of heating output

- As heating output is being increased blinking interval of pilot lamp becomes longer and stopped finally at max, temp. and illuminance of pilot lamp is getting brighter
- HS1 offers Jog-Dial controller w/electrostatic touch-type mode button and High fidelity LCD display (Graphic icons for each mode)
- Safety functions
- : Over-heat/load/current protection for safety of products and samples
- Made in Korea

Model		HS1 Digital Hotplate Stirrer	HS1-Set Digital Hotplate Stirrer Set	HS1-A Analogue Hotplate Stirrer			
Plate Size		180 x 180 mm					
Operation mode		Water or Oil mode available					
Motorial	Plate		Ceramic coated aluminum				
Material	Body	Powder coated aluminum					
Stirring capacity			Max 20 Lit				
Motor			Brushless shade motor				
Speed range			80 to 1,500 rpm				
Speed resolution		5 rj	om	Should State			
Temp. range / accuarcy		Max. 400℃	C / ±0.3℃	Max. 400°C			
Temp. resolution		0.1℃-display, 0.1℃-control					
Heating output /	consumption	600W / 650W					
Timer / Alarm		99hr 59min/Error status, Timer-end					
Display		High fidelity LCD with					
Controller		Digital fuzzy control Touch butto	Fine PMW/Heat Stepless/Speed				
Stirring bar usable		up to 50mm					
Permissible temp. / RH%		ambient +5 ~ 40°C/80% RH					
Safety device		Over-heat/load/current protection					
Dimension / Weight		180x325x110mm/3.43kg	180x325x110mm/3.9kg	180x325x110mm/3.13kg			
Packing size / Gross weight		285x400x170mm/4.13kg 285x400x170mm/4.6kg		285x400x170mm/3.83kg			
Power supply		AC120V,60Hz or AC230V, 50/60Hz, 1P					
Standard accessories			External temp, probe Stand rod/Clamp holder				

Digital Overhead Stirrer-High speed/torque



OS1-10-Set





Features

Belt-type gear system

"Belt-type gear" system with powerful motor realize soft and powerful operation 3-ratio of gear enables various range of viscosity-max. 70,000mPas

High durability

: Chrome-plated anti-rust chuck

High stability : "Anti-trembling" function for impeller

High fidelity LCD display (Graphic icons for each mode)

Jog-Dial controller and electrostatic touch-type mode button

Safety functions

: Over-heat/load/current protection for safety of products and samples

Made in Korea

Model		OS1-10-Set			
Stirring Capacity		Max. 25 Lit (H2O)			
Maximum Visco	sity	70,000 mPas			
Maximum Torqu	he	120 Ncm			
Coood	Range	2.0 : 1			
Speed	Resolution	100 ∼ 2,000 rpm			
Grear rate		5 rpm-display/5 rpm-control			
Motor		Direct driven DC motor			
Motor rating (Input / Output)		110/85W			
Timer / Alarm		99hr 59min/Error status, Timer-end			
Controller		Digital fuzzy controller w/Electrostatic Touch button+Jog-dial			
Display		High fidelity LCD with Back-Light function			
Max. impeller s	haft diameter	10mm			
Permissible temp. / RH%		0 ~ 40°C/80% RH			
Material		ABS and Aluminum			
Safety Device		Over-heat/load/current protection			
Power Consumption		150W			
Dimension / Weight		80x194x245mm/10.39kg			
Packing size / Gross weight		290x800x180mm/12.14kg			
Power supply		AC120V,60Hz or AC230V,50/60Hz, 1P			
Standard accessories		Imeller 3-blade/Standard plate stand/Clamp			

Vortex Mixer



Features

Brushless Shade motor

: Soft and long life cycle

Various sample application

Soft "Touch-On" mechanism

Variable speed control

Multi-function switch enables continuous or Touch-on control

Safety functions

: Over-heat/load/current protection for safety of products and samples

Made in Korea



Model	VM1			
Speed Range	$0\sim3,300~ ext{rpm}$			
Shaking Motion	Orbital (Circuit orbit 4.0mm)			
Operation Mode	Touch or Continuous			
Speed Control	Stepless			
Motor	Brushless Shade motor			
Head (Included)	Pop-off cup head and Ø76mm Platform head			
Max Load / Power	0.5kg/30W			
Material	Aluminum die-casting with powder coating			
Safety Device	Over-heat/load/current protection			
Permissible Temp./RH %	5 ~ 40℃/80% RH			
Dimensions / Weight	131x185x125mm/2.64kg			
Packing Size / Gross Weight	190x250x215mm/2.94kg			
Power Supply	AC120V, 60Hz or AC230V, 50/60Hz, 1P			

Autoclave



JSAT









Stainless Steel 304 Self-Balance Door with Silicone Gasket an Safety Interlock

Features

Program control

: Fully automatic sterilization cycle

: Maximum sterile temp, and pressure up to 123°C and 0,13Mpa

Construction

: Vertical loading chamber with light weight self-balanced door

: Stainless steel 304 chamber, lid and top platek

Safety door Inter-Locking system

: Lock the door during operation which integrated with temp., pressure in the chamber and in case of electric cut-off

Convenience utility

 Two steam collection bottles remove most of steam generated during operation for comfortable laboratory environment

Made in Korea

Model		JSAT-45	JSAT-65	JSAT-85	JSAT-105	
Capacity		45 L	65 L	85 L	105 L	
	Inner	Ø350xH490mm	Ø350xH680mm	Ø450xH535mm	Ø450xH665mm	
Dimension	Outer	555x670x955mm	555x670x1105mm	655x780x1010mm	655x780x1110mm	
	Basket	Ø330xH195mm	Ø330xH280mmm	Ø430xH220mm	Ø430xH270mm	
	Range	Maximum 123℃				
Temp	Accuarcy		±0.5 a	ıt 121℃		
	Uniformity		±2.0℃	at 121℃		
Pressure			up to 0.12 N	∕lpa at 121°C		
Controller		Fully Automatic Sterilization Process Microprocessor PID Control				
		Auto start/stop timer				
Display		Digital LED				
Timer / Alarm		99hr 59min/Error status, Timer-end				
Sensor		Class A Pt-100 Ohm sensor				
Safety		Safety door lock/Over-temp./pressure/current cut-off				
Material Body Chamber		Epoxy powder coated steel				
		Stainless steel #304				
Service Basket		Stainless steel #304 wire basket x 2				
Heater Capacity		2.0 kW	3.0 kW	4.0 kW	5.0 kW	
Power Rating		9.2 Amp	13.7 Amp	18.2 Amp	22.8 Amp	
Packing Size		740x650x1130mm	740x650x1280mm	850x750x1180mm	850x750x1280mm	
Gross Weight		98.0 kg 107.0 kg 130.0 kg 138.0 kg				
Power Supply		AC 120V, 60Hz or AC 230V, 50/60Hz, 1P				
Power Plug		CEE 7/7 Schuko	CEE 7/7 Schuko	30 AMP	30 AMP	

Biological Safety Cabinet Class II Type A2



JSCB







Features

BSC Class II Type A2 protects operator, samples and laboratory environment from pollution sources classified Biosafety level 1,2,3

PRE-PURGE function

: When blower ON, it operated 30 sec. automatically and purify potentially polluted chamber environment through HEPA filter then notify operation—ready to operator by buzzer alarming

POST-PURGE function

- : When blower OFF, it operated 30 sec. automatically and purify potentially polluted chamber environment through HEPA filter to make up clean chamber atmosphere for next experiment
- 3° sloped front and ergonomic elbow-rest make it comfortable to operator
- LED light enables high-illuminance and no flickering
- Perfect sealed front glass door enables perfect protection of UV-light
- Graphic icons for each mode
- Made in Korea

Model		JSCB-900SB	JSCB-1200SB	JSCB-1500SB	JSCB-1800SB		
Dimension	Inner	830x550x585mm	1205x550x585mm	1490x550x585mm	1790x550x585mm		
	Outer	900x800x1970mm	1275x800x1970mm	1560x800x1970mm	1860x800x1970mm		
Safety-type			BSC Class	∥ Type A2			
Air Circulation		Vertical laminar air stream (70% re-circulation/30% exhaust) Downdraft air velocity: 0.3 m/sec Inlet air velocity: 0.5 m/sec					
Purifying Ef	ficiency	HI Ul	EPA : 99.993% to 99.9 _PA : 99.999% for part	95% for particles >0.3 ticles >0.12 um (option	um al)		
Controller		Integrated Digital Microprocessor Control System UV coated Touch-panel features Electrostatic Touch button 10-steps Velocity control Fan ON/OFF function LED light ON/OFF function UV light ON/OFF function HEPA filter running time/exchange time display					
Display		High fidelity LCD display (Back-Light function)					
Noise Level		⟨ 65 dB					
	Inner	Stainless-steel #304					
Material	Outer	Epoxy powder coated steel					
	Door		Tempered glass 5.0mm				
LED Light (1510	Lux)	11 W x 2 ea	15 W x 2 ea	20 W x 2 ea	20 W x 2 ea		
UV Lamp (253.7nm)		20 W	30 W	30 W	40 W		
Utility Devices		220V water-proof outlet x 2, Gas cock x 1, Air cock x 1					
Safety		Over-current protector/UV lamp auto-off when door is opened					
Net Weight		130.0 kg	182.0 kg	200.0 kg	267.0 kg		
Packing Size		950x940x1650mm	1330x940x1650mm	1610x940x1650mm	1940x940x1650mm		
Gross Weight		180.0 kg	213.0 kg	250.0 kg	290.0 kg		
Power Consumption		200 W 350 W 350 W 375 W					
Power Supply		AC120V, 60Hz or AC230V, 50/60Hz, 1P					



Forced Convection Incubator

JSGI







Features

Integrated Digital Microprocessor Control System

Graphic LCD display (Back-Light function)

UV coated Polycarbonate touch-panel features Electrostatic Touch button + Jog-Dial

: 3-zone PID algorithm/3-point calibration/1-point offset

Construction and material

Seamless chamber construction is easy to clean and strong for pollution

: Durable Epoxy powder coating for outer body

User-friendly

Inner tempered glass enables observing samples

Cable port in chamber affords external power source or sensors

Graphic icons for each mode

Safety

: Independently operated Dual over-heat protection system

Made in Korea

Model		JSGI-050T	JSGI-100T	JSGI-150T	JSGI-250T	
Capacity		50 L	100 L	150 L	250 L	
Circulation		Forced-convection type				
Dimension	Inner	400x300x400mm	400x400x600mm	500x500x600mm	500x500x1000mm	
Dimension	Outer	580x535x720mm	580x635x920mm	680x735x920mm	680x735x1320mm	
	Range		ambient +5	℃ ~ +70℃		
Temp	Accuarcy		±0.2℃	at 37.0℃		
	Uniformity	±0.5°C at 37.0°C				
Sensor			Class A Pt-10	00 Ohm sensor		
Control Resolution	n		0.	1℃		
Heat-up time 37.0°C		15 min	15 min	15 min	20 min	
Heater		150 W	200 W	250 W	400 W	
Controller		Integrated Digital Microprocessor Control System UV coated Touch-panel features Electrostatic Touch button + Jog-Dial 3-zone PID algorithm/3-point calibration/1-point offset				
Display		High fidelity LCD display (Back-Light function)				
Timer/Alarm		99hr 59min/Error status, Timer-end				
Safety		Over-temp./pressure/current cut-off				
Cable Port		1 ea				
Inner		Stainless-steel #304				
Material	Outer	Epoxy powder coated steel				
	Inner Door	Tempered glass 5.0mm				
Packing Size		560x600x860mm	660x610x1060mm	760x720x1070mm	760x720x1480mm	
Gross Weight		48.0 kg	62.0 kg	76.0 kg	111.0 kg	
Power Consumption		160 W	210 W	260 W	410 W	
Power Supply		AC120V, 60Hz or AC230V, 50/60Hz, 1P				

Scientific International

Forced Convection Oven

JSOF







Features

- Integrated Digital Microprocessor Control System
 - Graphic LCD display (Back-Light function)
 - UV coated Polycarbonate touch-panel features Electrostatic Touch button + Jog-Dial
 - 3-zone PID algorithm/3-point calibration/1-point offset

Construction and material

- Seamless chamber construction is easy to clean and strong for pollution
- Durable Epoxy powder coating for outer body
- : Aluminum wrapped 50mm thick insulation enables high efficiency

- Viewing window-double tempered glass-is provided as standard Graphic icons for each mode

: Independently operated Dual over-heat protection system

Made in Korea

Model		JSOF-050	JSOF-100	JSOF-150	JSOF-250		
Capacity		50 L	100 L	150 L	250 L		
Circulation		Forced-convection type					
Dimonsion	Inner	400x300x400mm	500x400x500mm	560x450x600mm	600x600x700mm		
Dimension	Outer	560x605x710mm	660x705x810mm	720x755x910mm	760x905x1010mm		
	Range		ambient +10°C ∼ +250°C				
Temp	Accuarcy		±0.2℃	at 120℃			
	Uniformity		±1.0°C at 120°C				
Sensor			Class A Pt-10	00 Ohm sensor			
Control Resolution	on	0.1℃					
Heat-up time 120℃		10 min	12 min	13 min	13 min		
Heater		1.0 kW	1.5 kW	1.7 kW	2.5 kW		
Controller		Integrated Digital Microprocessor Control System UV coated Polycarbonate touch—panel features Electrostatic Touch button + Jog-Dial 3-zone PID algorithm/3-point calibration/1-point offset					
Display		High fidelty LCD display (Back-Light function)					
Timer/Alarm		99hr 59min/Error status, Timer-end					
Safety		Over-temp./pressure/current cut-off					
Viewing Window	1	Standard					
	Inner	Stainless-steel #304					
Material	Outer	Epoxy powder coated steel					
	Insulation	Aluminum wrapped Mineral wool 50mm					
Packing Size		640x590x850mm	750x710x950mm	780x740x1050mm	950x790x1160mm		
Gross Weight		55.0 kg	75.0 kg	87.0 kg	112.0 kg		
Power Consumption		1.1 kW	1.6 kW	1.8 kW	2.6 kW		
Power Supply		AC 120V, 60Hz or AC 230V, 50/60Hz, 1P					