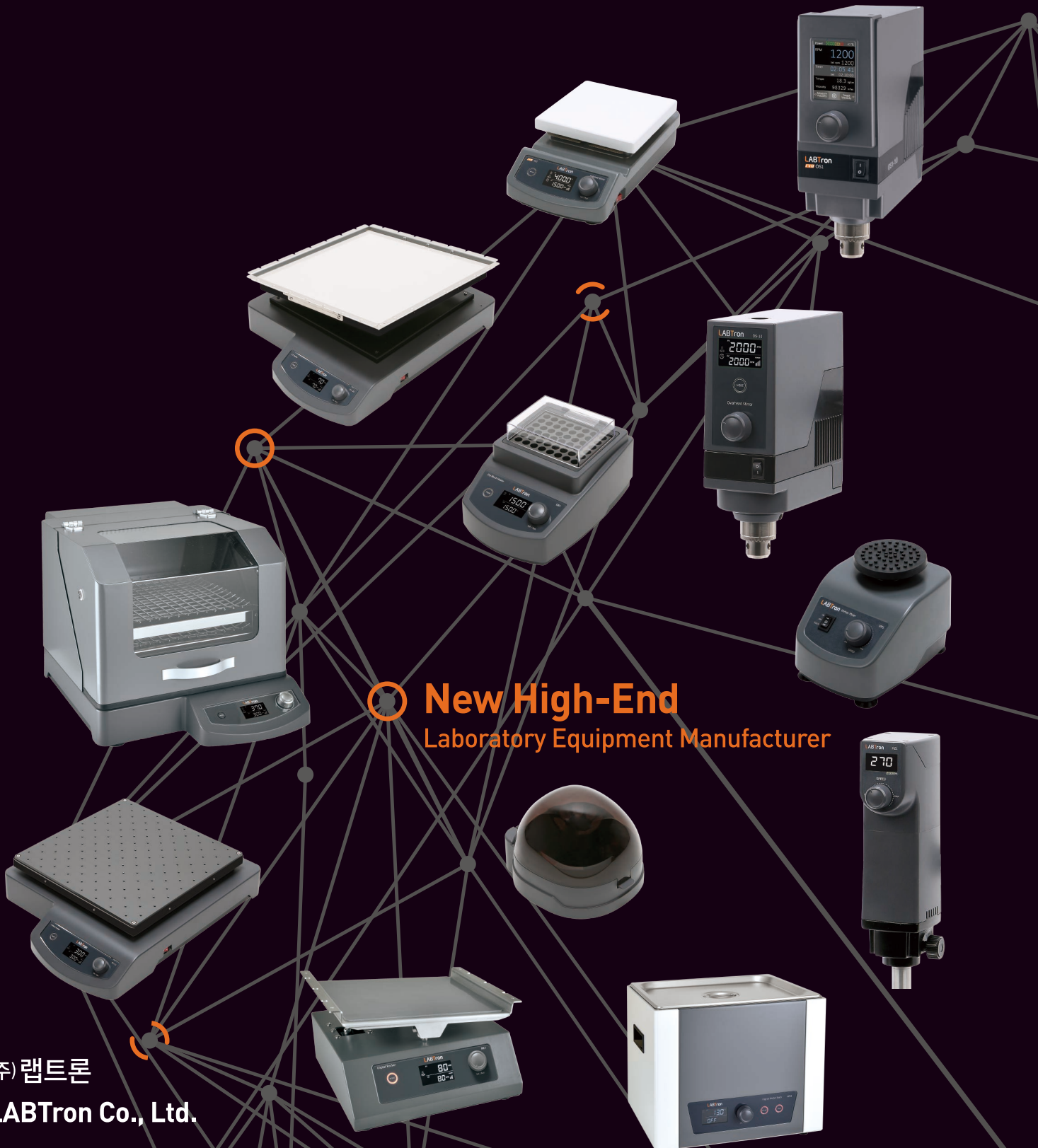


LABTron

Good Partner in your LAB!



New High-End
Laboratory Equipment Manufacturer

Product Guide

Superior Hotplate Stirrer | EVO HS1
Hotplate | EVO HP1
Magnetic Stirrer | EVO MS1



Superior Digital Hotplate Stirrer / Hotplate/Magnetic Stirrer

Anti Step Out Function /
Fine Control Mode for Oil Sample
Digital Fuzzy Controller with
Touch Button / High Fidelity LCD /
Convenient Jog Dial /
Highly Durability and Resistance /
Safety Platform
Max. 400°C, 80 to 1,500rpm,
Brushless DC Motor, 20Lit.
180 x 180mm Plate.

Analog Hotplate Stirrer/ Hotplate/Magnetic Stirrer

Fine & Durable Analog models,
PWM control in heat control
Stepless in speed control.
Max. 400°C, Max. 1,500rpm,
Brushless Shade Motor, 20Lit.
180 x 180mm Plate.



Homogenizer | HZ1



Digital Homogenizer

Accurate stirring speed display and control /
Over Heat Protection
Stepless Control
2,000 to 27,000rpm / Max. Vol 2,500ml

Analog Homogenizer

Fine & Durable Analog models /
Over Heat Protection
Stepless Control
Max. about 27,000rpm / Max. Vol 2,500ml



Overhead Stirrer | EVO OS1 OS1-10/15/20

Viscosity measuring Overhead Stirrer EVO OS1

Torque Measuring Function /
Viscosity Calculation /
Target Viscosity Operation
Digital Fuzzy Controller with Touch Button /
Overload & Over Heat Protection
Anti-Trembling / Safe & Durable Chuck
Max. Capacity(H2O) : 25 / 40 / 60Lit.
Max. Viscosity : 70,000 / 100,000 /
150,000 mPas
Max. Torque : 130 / 195 / 293 Ncm
Speed Range : 30 to 2,000 /
20 to 1,200 / 15 to 800 rpm



Digital Overhead Stirrer

Real Time Monitoring by USB port
Digital Fuzzy Controller with Touch Button /
Overload & Over Heat Protection
Anti-Trembling / Safe & Durable Chuck
Max. Capacity(H2O) : 25 / 40 / 60Lit.
Max. Viscosity : 70,000 / 100,000 /
150,000 mPas
Max. Torque : 200 / 300 / 450 Ncm
Speed Range : 100 to 2,000 /
80 to 1,200 / 50 to 800 rpm

Analog Overhead Stirrer

Fine & Durable Analog models /
Stepless control /
Over Heat Protection
Anti-Trembling / Safe & Durable Chuck
Max. Capacity(H2O) : 25 / 40 / 60Lit.
Max. Viscosity : 70,000 / 100,000 /
150,000 mPas
Max. Torque : 200 / 300 / 450 Ncm
Speed Range : ab. 100 to 2,000 /
ab. 80 to 1,200 / ab. 50 to 800 rpm



Vortex Mixer | VM1

Vortex Mixer

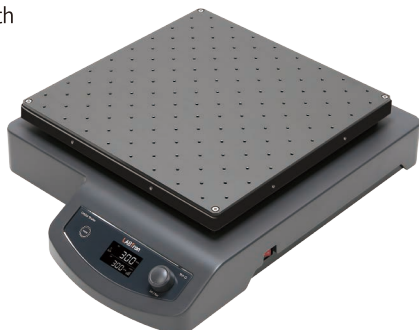
Various Sample Application /
Multifunction Switch – 3-position Touch or continuous Operation /
Variable Speed Control /
Stable Platform Brushless Shade Motor
Max. about 3,300rpm / Circular Orbit, 4.0mm Dia. /
Speed Control : Stepless / All Accessories included.



Shaker | SH1

Digital Shaker /Orbital or Reciprocating

Digital Fuzzy Controller with Touch Button / Programmable Function / High Fidelity LCD / Convenient Jog Dial / 10 to 300 rpm / w350×d350mm Base



Rocker | RK1

Digital Rocker – Rocking motion

Digital Fuzzy Controller with Touch Button / Programmable Function / High Fidelity LCD / Convenient Jog Dial / Rocking operation / 5 to 80rpm



Shaking Incubator | SH11



Digital Shaking Incubator

Digital Fuzzy Controller with Touch Button / Programmable Function / High Fidelity LCD / Convenient Jog Dial Forced-air / 53L / 10 to 300 rpm / w350×d350mm Base / up to 50°C

Centrifuge | CF8

Mini Centrifuge – 8 Holes

High Speed & Capacity 6,200 rpm, 1.5ml/2.0ml * 8 holes / One Touch Shift for Rotor exchanging / Multiple Usage 0.5ml/0.2ml Strip tube / All Accessories included.



Dry Bath | DB1

Digital Dry Bath – with PC cover lid.

Digital Fuzzy Controller with Touch Button / High Fidelity LCD / Convenient Jog Dial / Apply Molding Heater for Long Life Cycle / up to 150°C



Shaker 3D | SH1-3D



Digital Shaker – 3D motion

Digital Fuzzy Controller with Touch Button / Programmable Function / High Fidelity LCD / Convenient Jog Dial / 3D operation / 10 to 70 rpm / w350×d350mm Base

Water Bath | WB1

Digital Water Bath – with SUS304 Flat Lid

Digital PID Controller with Touch Button / High Fidelity LCD / Convenient Jog Dial / 6, 11, 22 Liter / up to 120°C



Superior Hotplate Stirrer | **EVO HS1**



✓ Fine Control Mode for Oil Sample

Offer two control option for “Water” and “Oil” as different thermal conductivity sample with External temps sensor equipment.

✓ Powerful, Soft and Long Life Cycle

The strong magnetism drive realize precision work also realized soft and stable operation by “Slow Start function” Brushless Motor equipped BLDC motor does not need ordinary maintenance works and the expected lifetime.

✓ Anti Step Out Function

Detached magnet detection during operation and “Auto recovery function” from when magnetic bar failure in stirring.

✓ High Safety

Over-Heat, Over-Load, Over Current Protection to secure the safety of products and sample

✓ Touch Button

Excellent design focused on the convenience of users

✓ Highly Durability and Uniformity

High chemical resistance and specially designed heat line realize good temperature uniformity

✓ High Fidelity LCD Display

Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

Hotplate **EVO HP1**
Magnetic Stirrer **EVO MS1**



Precise operation on Digital Hotplate and Magnetic Stirrer.

Analog Models **HS1-A**
HP1-A
MS1-A



Fine & Durable Analog models PWM control in heat control Stepless in speed controlw

Specification & Ordering

EVO Models



Ordering No.	Model Name	Description
LT.HS02010	EVO HS1	Precision Hotplate Stirrer, Digital, 18cm x 18cm, Max. 400°C, 1,500rpm, 230V, 50/60Hz
LT.HS02011		Precision Hotplate Stirrer, Digital, 18cm x 18cm, Max. 400°C, 1,500rpm, 120V, 50/60Hz
LT.HS02012	EVO HS1-Set	Package Set, Precision Hotplate Stirrer with External Temp. Probe-set, Digital, 18cm x 18cm, 400°C, 1,500rpm, 230V, 50/60Hz
LT.HS02013		Package Set, Precision Hotplate Stirrer with External Temp. Probe-set, Digital, 18cm x 18cm, 400°C, 1,500rpm, 120V, 50/60Hz
LT.HP02010	EVO HP1	Superior Hotplate, Digital, 18x18cm, 400°C, 230V, 50/60Hz
LT.HP02011		Superior Hotplate, Digital, 18x18cm, 400°C, 120V, 50/60Hz
LT.HP02012	EVO HP1-Set	Package Set, Superior Hotplate with External Temp. Probe-set, Digital, 18x18cm, 400°C, 230V, 50/60Hz
LT.HP02013		Package Set, Superior Hotplate with External Temp. Probe-set, Digital, 18x18cm, 400°C, 120V, 50/60Hz
LT.MS02010	EVO MS1	Superior Magnetic Stirrer, Digital, 18x18cm, 1,500rpm, 230V, 50/60Hz
LT.MS02011		Superior Magnetic Stirrer, Digital, 18x18cm, 1,500rpm, 120V, 50/60Hz

Model	EVO HS1	EVO HS1-Set	EVO HP1	EVO HP1-Set	EVO MS1
Plate Dimension	180 x 180mm				
Stirrer Speed Range	80 to 1,500rpm				80 to 1,500rpm
Speed control resolution	5 rpm				5 rpm
Maximum Stirring Volume (H ₂ O)	20Lit.				20Lit.
Heating Temperature	Max. 400°C				
Temp Accuracy	±0.3°C				
Temp Resolution	Display	0.1°C			
	Control	0.1°C			
Controller	Digital Fuzzy Controller with Touch Button & Jog Dial				
Timer	99hr 59min				
Display	Full Digital LCD Display with Back-Light Function				
Heating Output	600 W				
Motor Type	Brushless DC Motor				Brushless DC Motor
Others - Special function	Anti Step Out Function / Fine Control Mode for Oil Sample				
Permissible Temp. & Humidity	5°C~40°C, <80%				
Maximum Magnetic Stirrer Bar	50mm				50mm
Safety Devices	Over Temp Protection				
Material	Plate	Ceramic Coated Aluminum			
	Body	Powder Coated Aluminum			
Power Consumption	650W		620W		50W
Dimensions (w x d x h) & Net Weight	180 x 325 x 110mm, 3.43Kg	180 x 325 x 110mm, 3.9Kg	180 x 325 x 110mm, 3.43Kg	180 x 325 x 110mm, 3.43Kg	180 x 325 x 110mm, 3.43Kg
Packing Size (w x d x h) & Gross Weight	285 x 400 x 170mm, 4.13Kg	285 x 400 x 170mm, 4.6Kg	285 x 400 x 170mm, 4.13Kg	285 x 400 x 170mm, 4.6Kg	285 x 400 x 170mm, 4.13Kg
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ				

Analog Models



Ordering No.	Model Name	Description
LT.HS01110	HS1-A	Hotplate Stirrer, Analog, 18x18cm, 400°C, 1,500rpm, 230V, 60Hz
LT.HS01111		Hotplate Stirrer, Analog, 18x18cm, 400°C, 1,500rpm, 120V, 60Hz
LT.HS01112		Hotplate Stirrer, Analog, 18x18cm, 400°C, 1,500rpm, 230V, 50Hz
LT.HP01110	HP1-A	Hotplate, Analog, 18x18cm, 400°C, 230V, 50/60Hz
LT.HP01111		Hotplate, Analog, 18x18cm, 400°C, 120V, 50/60Hz
LT.MS01110	MS1-A	Magnetic Stirrer, Analog, 18x18cm, 1,500rpm, 230V, 60Hz
LT.MS01111		Magnetic Stirrer, Analog, 18x18cm, 1,500rpm, 120V, 60Hz
LT.MS01112		Magnetic Stirrer, Analog, 18x18cm, 1,500rpm, 230V, 50Hz

Model	HS1 - A	HP1 - A	MS1 - A
Plate Dimension	180 x 180mm		
Stirrer Speed Range	Max. 1,500rpm		Max. 1,500rpm
Maximum Stirring Volume (H ₂ O)	20Lit.		20Lit.
Heating Temperature	Max. 400°C		
Heat Control	Fine PWM Controller		
Speed Control	Stepless		Stepless
Heating Output	600W		
Motor Type	Brushless Shade Motor		Brushless Shade Motor
Permissible Temp. & Humidity	5°C~40°C, <80%		
Maximum Magnetic Stirrer Bar	50mm		
Material	Plate	Ceramic Coated Aluminum	
	Body	Powder Coated Aluminum	
Power Consumption	650W	620W	50W
Dimensions (w x d x h) & Net Weight	180 x 325 x 110mm, 3.13Kg	180 x 325 x 110mm, 3.13Kg	180 x 325 x 110mm, 3.13Kg
Packing Size (w x d x h) & Gross Weight	285 x 400 x 170mm, 3.83Kg	285 x 400 x 170mm, 3.83Kg	285 x 400 x 170mm, 3.83Kg
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ		

Accessories



HSTP



HSTTP



HSSR



HSHC

Ordering No.	Model Name	Description
LT.HS00010	HSTP	Temp. Probe for Digital
LT.HS00011	HSTTP	Teflon Temp. Probe for Digital

Ordering No.	Model Name	Description
LT.HS00020	HSSR	Stand Rod
LT.HS00030	HSHC	Holder/Clamp/for Temp. Probe

Superior Multi Hotplate Stirrer I

EVO HS1-M

✓ Multi Hotplate Stirrers

Independent heating and stirring control is possible with 3 or 6 places Multi Hotplate Stirrers that can experiment with various samples and conditions at once.

✓ Anti Step Out Function

Detached magnet detection during operation and “Auto recovery function” from when magnetic bar failure in stirring.



✓ Powerful, Soft and Long Life Cycle

The strong magnetism drive realize precision work also realized soft and stable operation by “Slow Start function” Brushless Motor equipped BLDC motor does not need ordinary maintenance works and the expected lifetime.

✓ Fine Control Mode for Oil Sample

Offer two control option for “Water” and “Oil” as different thermal conductivity sample with External temps sensor equipment.

✓ High Safety

Over-Heat, Over-Load, Over Current Protection to secure the safety of products and sample

✓ Highly Durability and Uniformity

High chemical resistance and specially designed heat line realize good temperature uniformity

✓ High Fidelity LCD Display

Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

✓ Touch Button

Excellent design focused on the convenience of users

Specification & Ordering

EVO Models



EVO HS1-M3 / EVO HS1-M3S



EVO HS1-M6

Ordering No.	Model Name	Description
LT.HS02020	EVO HS1-M3	Superior Multi Hotplate Stirrer, Digital, 14x14cm, 3Plate, 350°C, 1,500rpm, 230V, 50/60Hz
LT.HS02021	EVO HS1-M3	Superior Multi Hotplate Stirrer, Digital, 14x14cm, 3Plate, 350°C, 1,500rpm, 120V, 50/60Hz
LT.HS02022	EVO HS1-M3S	Package Set, Superior Multi Hotplate Stirrer with External Temp. Probe-set, Digital, 14x14cm, 3Plate, 350°C, 1,500rpm, 230V, 50/60Hz
LT.HS02023	EVO HS1-M3S	Package Set, Superior Multi Hotplate Stirrer with External Temp. Probe-set, Digital, 14x14cm, 3Plate, 350°C, 1,500rpm, 120V, 50/60Hz
LT.HS02024	EVO HS1-M6	Superior Multi Hotplate Stirrer, Digital, 14x14cm, 6Plate, 350°C, 1,500rpm, 230V, 50/60Hz
LT.HS02025	EVO HS1-M6	Superior Multi Hotplate Stirrer, Digital, 14x14cm, 6Plate, 350°C, 1,500rpm, 120V, 50/60Hz

Model	EVO HS1-M3 / EVO HS1-M3S	EVO HS1-M6
Stirrer Speed Range	80 to 1,500rpm	
Speed control resolution	5 rpm	
Maximum Stirring Volume (H ₂ O)	20Lit.	
Plate Dimension	140 x 140mm X 3 Place	140 x 140mm X 6(2X3) Place
Heating Temperature	Max. 350°C	
Temp Accuracy	±0.3°C	
Temp Resolution	Display	0.1°C
	Control	0.1°C
Controller	Digital Fuzzy Controller with Touch Button & Jog Dial	
Timer	99hr 59min,	
Display	Full Digital LCD Display with Back-Light Function	
Heating Output	400W X 3	400W X 6
Motor Type	Brushless DC Motor	
Power Consumption	1,300W	2,600W
Permissible Temp. & Humidity	5°C~40°C, <80%	
Safety Devices	Over Temp Protection	
Material	Plate	Ceramic Coated Aluminum
	Body	Powder Coated Steel
Dimensions (w x d x h) & Net Weight	500x240xh110 7.3kg	500x430xh130 12.9kg
Packing Size (w x d x h) & Gross Weight	590x310xh150 8.1kg	590x500xh170 13.8kg
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ	

Accessories - Available for EVOHS1-M3S models only.



HSTP



HSTTP



HSSR



HSHC

Ordering No.	Model Name	Description
LT.HS00010	HSTP	Temp. Probe for Digital
LT.HS00011	HSTTP	Teflon Temp. Probe for Digital

Ordering No.	Model Name	Description
LT.HS00020	HSSR	Stand Rod
LT.HS00030	HSHC	Holder/Clamp/for Temp. Probe

Viscosity Measuring Overhead Stirrer | **EVO OS1**



✓ Torque Measuring Function

Can measure Torque during operation in real time.

✓ Viscosity Calculation

Can be carried out immediately via a easy in use menu. The provided Impeller for precise work in torque and viscosity measurement.

✓ Target Viscosity Operation

More useful and convenient in experiment. You can set the target viscosity in EVE OS1 and then it will operate until reach target viscosity properly.

✓ High Fidelity Touch Color LCD Display

The wide display enable users a convenient checking on current range of set values for the operation of the product.

✓ High Reliability

Upgraded in DC Motor power for powerful stirring.

✓ High Safety

Over-Heat, Over-Load, Over Current Protection to secure the safety of products and sample

✓ Powerful and Soft Supports various viscosity

Belt type gear system with powerful motor realize soft and powerful operation 3 ratio of gear applied products cover wide range of sample

✓ High Durable

“Anti-Trembling” function for Impeller

✓ High Durable

Chrome-Plated “Anti-Rust Chuck”.

Full Range covered Various Models

EVO OS1-10

Viscosity 70,000mPas 2,000rpm

EVO OS1-15

Viscosity 100,000mPas 1,200rpm

EVO OS1-20

Viscosity 150,000mPas 800rpm

Specification & Ordering

EVO Models



Model	EVO OS1-10	EVO OS1-15	EVO OS1-20
Stirring Capacity	Max. 25 Lit. (H ₂ O)	Max. 40 Lit. (H ₂ O)	Max. 60 Lit. (H ₂ O)
Maximum Viscosity	70,000 mPas	100,000 mPas	150,000 mPas
Maximum Torque	130 Ncm	195 Ncm	293 Ncm
Gear Rate	2.0:1	3.0:1	4.5:1
Speed Range	30 to 2,000rpm	20 to 1,200rpm	15 to 800rpm
Motor Rating(Input / Output)	200W / 160 W		
Timer	99hr 59min		
Display	Touch Color LCD		
Controller	Digital PID Feedback Control High Performance MCU		
Viscosity Measurement Range	10,000 to 100,000 mPas (15% Deviation)		
Max. Impeller Shaft Diameter	10 mm		
Others – Special function	Torque Measuring Function in real time Viscosity Calculation Target Viscosity Operation Real Time Monitoring by USB port		
Permissible Temp. & Humidity	0 ~ 40°C, 80%		
Safety Device	Overload & Heat Protector for Motor Error Code Display		
Material	ABS and Aluminum		
Power Consumption	280 W		
Dimensions (w x d x h) & Net Weight	80 X 194 X 245mm, 3.95Kg	80 X 194 X 245mm, 4.0Kg	80 X 194 X 245mm, 4.6Kg
Packing Size (w x d x h) & Gross Weight	310 X 365 X 135mm, 4.57Kg	310 X 365 X 135mm, 4.62Kg	310 X 365 X 135mm, 4.68Kg
Power Supply & Cord Plug	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ, with Cord/Plug		

Ordering No.	Model Name	Description
LT.OS02010	EVO OS1-10	Viscosity MeasuringOverhead Stirrer, Digital, Viscosity 70,000, 2,000rpm, 230V
LT.OS02011	EVO OS1-10	Viscosity MeasuringOverhead Stirrer, Digital, Viscosity 70,000, 2,000rpm, 120V
LT.OS02012	EVO OS1-10-Set	EVO OS1-10 Package, with OSIP010, OSHC010, OSSR010, 230V
LT.OS02013	EVO OS1-10-Set	EVO OS1-10 Package, with OSIP010, OSHC010, OSSR010, 120V
LT.OS02020	EVO OS1-15	Viscosity MeasuringOverhead Stirrer, Digital, Viscosity 100,000, 1,500rpm, 230V
LT.OS02021	EVO OS1-15	Viscosity MeasuringOverhead Stirrer, Digital, Viscosity 100,000, 1,500rpm, 120V
LT.OS02022	EVO OS1-15-Set	EVO OS1-15 Package, with OSIP020, OSHC010, OSSR010, 230V
LT.OS02023	EVO OS1-15-Set	EVO OS1-15 Package, with OSIP020, OSHC010, OSSR010, 120V
LT.OS02030	EVO OS1-20	Viscosity MeasuringOverhead Stirrer, Digital, Viscosity 150,000, 900rpm, 230V
LT.OS02031	EVO OS1-20	Viscosity MeasuringOverhead Stirrer, Digital, Viscosity 150,000, 900rpm, 120V
LT.OS02032	EVO OS1-20-Set	EVO OS1-20 Package, with OSIP030, OSHC010, OSSR010, 230V
LT.OS02033	EVO OS1-20-Set	EVO OS1-20 Package, with OSIP030, OSHC010, OSSR010, 120V

Accessories – All items are included in standard delivery.



OSSR010



OSHC010

Ordering No.	Model Name	Description
LT.OS00001	OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod and Silicon Pad
LT.OS00003	OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod

Impellers, Stirring Tools with Exchangeable Blades for Overhead Stirrers

Ordering No.	Model Name	Description
LT.OS00010	OSIP010	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø50 mm blade
LT.OS00011	OSIP011	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø60 mm blade
LT.OS00012	OSIP012	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø80 mm blade
LT.OS00013	OSIP013	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø100 mm blade

Ordering No.	Model Name	Description
LT.OS00020	OSIP020	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø70 mm blade
LT.OS00021	OSIP021	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00022	OSIP022	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø110 mm blade
LT.OS00030	OSIP030	Diamond, 4 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00031	OSIP031	Diamond, 4 x bladed, Ø8 L500 mm rod, Ø110 mm blade
LT.OS00040	OSIP040	Centrifugal, 2 x bladed, Ø8 L500 mm rod, Ø100 mm blade
LT.OS00050	OSIP050	Centrifugal, Teflon-coated, 2 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00051	OSIP051	Centrifugal, Teflon-coated, 2 x bladed, Ø8 L500 mm rod, Ø120 mm blade
LT.OS00060	OSIP060	Anchor, 2 x bladed, Ø8 L500 mm rod, Ø70 mm blade
LT.OS00061	OSIP061	Anchor, 2 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00111	OSIP111	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø60 mm blade
LT.OS00112	OSIP112	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø80 mm blade
LT.OS00113	OSIP113	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø100 mm blade
LT.OS00121	OSIP121	Propeller, 4 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00122	OSIP122	Propeller, 4 x bladed, Ø10 L650 mm rod, Ø110 mm blade
LT.OS00131	OSIP131	Diamond, 4 x bladed, Ø10 L650 mm rod, Ø110 mm blade
LT.OS00161	OSIP161	Anchor, 2 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00162	OSIP162	Anchor, 2 x bladed, Ø10 L650 mm rod, Ø140 mm blade

Overhead Stirrer | OS1



✓ Powerful and Soft Supports various viscosity

Belt type gear system with powerful motor realize soft and powerful operation 3 ratio of gear applied products cover wide range of sample

✓ High Durable

Chrome-Plated
Anti-Rust Chuck

✓ High Safety

Over-Heat, Over-Load, Over Current
Protection to secure the safety of
products and sample

✓ High Stability

Anti-Trembling function for Impeller

✓ Touch Button

Excellent design focused
on the convenience of users

✓ High Fidelity LCD Display

Operation Icon of high intuitiveness and
Easy-to-read backlit LCD are equipped

Full Range covered Various Models

OS1-10
Viscosity 70,000, 2,000rpm

OS1-15
Viscosity 100,000, 1,200rpm

OS1-20
Viscosity 150,000, 800rpm

Analog Models OS1-10-A OS1-15-A OS1-20-A



Fine & Durable Analog models
Stepless in speed control
Over Heat Protector for motor

Specification & Ordering

Digital Models



Model	OS1-10	OS1-15	OS1-20
Stirring Capacity	Max. 25 Lit. (H ₂ O)	Max. 40 Lit. (H ₂ O)	Max. 60 Lit. (H ₂ O)
Maximum Viscosity	70,000 mPas	100,000 mPas	150,000 mPas
Maximum Torque	120 Ncm	180 Ncm	270 Ncm
Gear Rate	2.0:1	3.0:1	4.5:1
Speed Range	100 to 2,000rpm	80 to 1,200rpm	50 to 800rpm
Motor Rating(Input / Output)	110W / 85 W		
Timer	99hr 59min		
Display	Digital LCD Display with Back-Light Function		
Controller	Digital Fuzzy Controller with Touch Button & Jog Dial		
Max. Impeller Shaft Diameter	10 mm		
Permissible Temp. & Humidity	0 ~ 40°C, 80%		
Safety Device	Overload & Heat Protector for Motor		
Material	ABS and Aluminum		
Power Consumption	180 W		
Dimensions (w x d x h) & Net Weight	80 X 194 X 245mm, 3.95Kg	80 X 194 X 245mm, 4.0Kg	80 X 194 X 245mm, 4.6Kg
Packing Size (w x d x h) & Gross Weight	310 X 365 X 135mm, 4.57Kg	310 X 365 X 135mm, 4.62Kg	310 X 365 X 135mm, 4.68Kg
Power Supply & Cord Plug	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ, with Cord/Plug		

Analog Models



Model	OS1-10-A	OS1-15-A	OS1-20-A
Stirring Capacity	Max. 25 Lit. (H ₂ O)	Max. 40 Lit. (H ₂ O)	Max. 60 Lit. (H ₂ O)
Maximum Viscosity	70,000 mPas	100,000 mPas	150,000 mPas
Maximum Torque	120 Ncm	180 Ncm	270 Ncm
Gear Rate	2.0:1	3.0:1	4.5:1
Speed Range	100 to 2,000rpm	80 to 1,200rpm	50 to 800rpm
Motor Rating(Input / Output)	110W / 85 W		
Speed Control	Stepless		
Max. Impeller Shaft Diameter	10 mm		
Permissible Temp. & Humidity	0 ~ 40°C, 80%		
Safety Device	Over Heat Protector for Motor		
Material	ABS and Aluminum		
Power Consumption	180 W		
Dimensions (w x d x h) & Net Weight	80 X 194 X 245mm, 3.82Kg	80 X 194 X 245mm, 3.87Kg	80 X 194 X 245mm, 3.93Kg
Packing Size (w x d x h) & Gross Weight	281 X 460 X 172mm, 4.44Kg	281 X 460 X 172mm, 4.49Kg	281 X 460 X 172mm, 4.59Kg
Power Supply & Cord Plug	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ, with Cord/Plug		

Ordering No.	Model Name	Description
LT.OS01010	OS1-10	Overhead Stirrer, Digital, Viscosity 70,000, 2,000rpm, 230V
LT.OS01011		Overhead Stirrer, Digital, Viscosity 70,000, 2,000rpm, 120V
LT.OS01012	OS1-10-Set	OS1-10 Package, with OSIP010, OSHC010, OSSR010, 230V
LT.OS01013		OS1-10 Package, with OSIP010, OSHC010, OSSR010, 120V
LT.OS01020	OS1-15	Overhead Stirrer, Digital, Viscosity 100,000, 1,200rpm, 230V
LT.OS01021		Overhead Stirrer, Digital, Viscosity 100,000, 1,200rpm, 120V
LT.OS01022	OS1-15-Set	OS1-15 Package, with OSIP020, OSHC010, OSSR010, 230V
LT.OS01023		OS1-15 Package, with OSIP020, OSHC010, OSSR010, 120V
LT.OS01030	OS1-20	Overhead Stirrer, Digital, Viscosity 150,000, 800rpm, 230V
LT.OS01031		Overhead Stirrer, Digital, Viscosity 150,000, 800rpm, 120V
LT.OS01032	OS1-20-Set	OS1-20 Package, with OSIP030, OSHC010, OSSR010, 230V
LT.OS01033		OS1-20 Package, with OSIP030, OSHC010, OSSR010, 120V

Ordering No.	Model Name	Description
LT.OS01110	OS1-10-A	Overhead Stirrer, Analog, Viscosity 70,000, 2,000rpm, 230V
LT.OS01111		Overhead Stirrer, Analog, Viscosity 70,000, 2,000rpm, 120V
LT.OS01112	OS1-10-A-Set	OS1-10-A Package, with OSIP010, OSHC010, OSSR010, 230V
LT.OS01113		OS1-10-A Package, with OSIP010, OSHC010, OSSR010, 120V
LT.OS01120	OS1-15-A	Overhead Stirrer, Analog, Viscosity 100,000, 1,200rpm, 230V
LT.OS01121		Overhead Stirrer, Analog, Viscosity 100,000, 1,200rpm, 120V
LT.OS01122	OS1-15-A-Set	OS1-15-A Package, with OSIP020, OSHC010, OSSR010, 230V
LT.OS01123		OS1-15-A Package, with OSIP020, OSHC010, OSSR010, 120V
LT.OS01130	OS1-20-A	Overhead Stirrer, Analog, Viscosity 150,000, 800rpm, 230V
LT.OS01131		Overhead Stirrer, Analog, Viscosity 150,000, 800rpm, 120V
LT.OS01132	OS1-20-A-Set	OS1-20-A Package, with OSIP030, OSHC010, OSSR010, 230V
LT.OS01133		OS1-20-A Package, with OSIP030, OSHC010, OSSR010, 120V

Accessories – All items are included in standard delivery.



OSSR010



OSHC010

Ordering No.	Model Name	Description
LT.OS00001	OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod and Silicon Pad
LT.OS00003	OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod

Impellers, Stirring Tools with Exchangeable Blades for Overhead Stirrers

Ordering No.	Model Name	Description
LT.OS00010	OSIP010	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø50 mm blade
LT.OS00011	OSIP011	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø60 mm blade
LT.OS00012	OSIP012	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø80 mm blade
LT.OS00013	OSIP013	Propeller, 3 x bladed, Ø8 L500 mm rod, Ø100 mm blade

Ordering No.	Model Name	Description
LT.OS00020	OSIP020	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø70 mm blade
LT.OS00021	OSIP021	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00022	OSIP022	Propeller, 4 x bladed, Ø8 L500 mm rod, Ø110 mm blade
LT.OS00030	OSIP030	Diamond, 4 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00031	OSIP031	Diamond, 4 x bladed, Ø8 L500 mm rod, Ø110 mm blade
LT.OS00040	OSIP040	Centrifugal, 2 x bladed, Ø8 L500 mm rod, Ø100 mm blade
LT.OS00050	OSIP050	Centrifugal, Teflon-coated, 2 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00051	OSIP051	Centrifugal, Teflon-coated, 2 x bladed, Ø8 L500 mm rod, Ø120 mm blade
LT.OS00060	OSIP060	Anchor, 2 x bladed, Ø8 L500 mm rod, Ø70 mm blade
LT.OS00061	OSIP061	Anchor, 2 x bladed, Ø8 L500 mm rod, Ø90 mm blade
LT.OS00111	OSIP111	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø60 mm blade
LT.OS00112	OSIP112	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø80 mm blade
LT.OS00113	OSIP113	Propeller, 3 x bladed, Ø10 L650 mm rod, Ø100 mm blade
LT.OS00121	OSIP121	Propeller, 4 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00122	OSIP122	Propeller, 4 x bladed, Ø10 L650 mm rod, Ø110 mm blade
LT.OS00131	OSIP131	Diamond, 4 x bladed, Ø10 L650 mm rod, Ø110 mm blade
LT.OS00161	OSIP161	Anchor, 2 x bladed, Ø10 L650 mm rod, Ø90 mm blade
LT.OS00162	OSIP162	Anchor, 2 x bladed, Ø10 L650 mm rod, Ø140 mm blade

Homogenizer | HZ1

✓ Super High Speed

Up to 27,000 rpm

✓ High Safety

Overheat-Heat and Current Protection function prevent malfunction of motor

✓ Safe & Fine Compatibility in Tools

Useful for All Dispersing and Homogenizing Applications and realize fine homogenizing



✓ High Fidelity FND Display

Easy-to-read backlit LCD for display

✓ Convenient Speed Set Knob

Easy to use Speed Set Knob for quick and convenient selection of mixing speed

Ordering No.	Model Name	Description
LT.HZ01010	HZ1	Homogenizer, 1~2500ml, Digital, without Dispersing Tool, 230V
LT.HZ01011	HZ1-SetA	HZ1 Package, with HZ1018, OSHC010, OSSR010, 230V
LT.HZ01012	HZ1-SetB	HZ1 Package, with HZ1025, OSHC010, OSSR010, 230V
LT.HZ01016	HZ1-SetC	HZ1 Package, with HZ1008, OSHC010, OSSR010, 230V
LT.HZ01017	HZ1-SetD	HZ1 Package, with HZ1010, OSHC010, OSSR010, 230V
LT.HZ01013	HZ1	Homogenizer, 1~2500ml, Digital, without Dispersing Tool, 120V
LT.HZ01014	HZ1-SetA	HZ1 Package, with HZ1018, OSHC010, OSSR010, 120V
LT.HZ01015	HZ1-SetB	HZ1 Package, with HZ1025, OSHC010, OSSR010, 120V
LT.HZ01018	HZ1-SetC	HZ1 Package, with HZ1008, OSHC010, OSSR010, 120V
LT.HZ01019	HZ1-SetD	HZ1 Package, with HZ1010, OSHC010, OSSR010, 120V
LT.HZ01110	HZ1-A	Homogenizer, 1~2500ml, Analog, without Dispersing Tool, 230V
LT.HZ01111	HZ1-A-SetA	HZ1-A Package, with HZ1018, OSHC010, OSSR010, 230V
LT.HZ01112	HZ1-A-SetB	HZ1-A Package, with HZ1025, OSHC010, OSSR010, 230V
LT.HZ01116	HZ1-A-SetC	HZ1-A Package, with HZ1008, OSHC010, OSSR010, 230V
LT.HZ01117	HZ1-A-SetD	HZ1-A Package, with HZ1010, OSHC010, OSSR010, 230V
LT.HZ01113	HZ1-A	Homogenizer, 1~2500ml, Analog, without Dispersing Tool, 120V
LT.HZ01114	HZ1-A-SetA	HZ1-A Package, with HZ1018, OSHC010, OSSR010, 120V
LT.HZ01115	HZ1-A-SetB	HZ1-A Package, with HZ1025, OSHC010, OSSR010, 120V
LT.HZ01118	HZ1-A-SetC	HZ1-A Package, with HZ1008, OSHC010, OSSR010, 120V
LT.HZ01119	HZ1-A-SetD	HZ1-A Package, with HZ1010, OSHC010, OSSR010, 120V

Specification & Ordering

Model	HZ1	HZ1-A
Speed Range	2,000 to 27,000rpm(without load)	Max. 60 Lit. (H ₂ O)
Maximum Volume (H ₂ O)	2,500ml	
Motor Rating(Input/Output)	400W / 300W	
Speed Control	Stepless	
Display	3 Digit FND	
Safety Devices	Over Heat Protector	
Permissible Temp. & Humidity	5°C~40°C, <80%	
Usable Dispersing Tool	Ø8mm Stator "HZ1008", Ø10mm Stator "HZ1010" Ø18mm Stator "HZ1018", Ø25mm Stator "HZ1025"	
Material	ABS & Aluminum Stainless Steel(#304)-Tool	
Extension Arm Size	Ø12.7 X L250mm	
Power Consumption	400W	
Dimensions (w x d x h) & Net Weight	70 x 120 x 210mm, 1.73Kg	70 x 120 x 210mm, 1.69Kg
Packing Size (w x d x h) & Gross Weight	275 x 275 x 125mm, 2.2Kg	275 x 275 x 125mm, 2.16Kg
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ	

Analog Models HZ1-A

Fine & Durable
Analog models
Stepless in speed
control Over Heat
Protector for motor



Accessories



Ordering No.	Model Name	Description
LT.OS00001	OSSR010	Standard Plate Stand, for Overhead Stirrer and Homogenizer, 25x37cm Plate, with Rod and Silicon Pad
LT.OS00003	OSHC010	Clamp for Overhead Stirrers and Homogenizers, up to Ø23mm Rod

Dispersing Tool for Homogenizer

LT.HZ00010	HZ1008	Homogenizer Tool, Rotor Φ6.1, Stator Φ8, 1~50 ml
LT.HZ00011	HZ1010	Homogenizer Tool, Rotor Φ7.5, Stator Φ10, 1~100 ml
LT.HZ00012	HZ1018	Homogenizer Tool, Rotor Φ12.7, Stator Φ18, 10~1000 ml
LT.HZ00013	HZ1025	Homogenizer Tool, Rotor Φ17, Stator Φ25, 50~2500 ml

Vortex Mixer | VM1

✓ Various Sample Application

Various Shapes, Sizes and Materials of the Head allows for mixing

✓ Soft “Touch On” Control

Differentiated a pop-up mechanism realize soft “Touch On” Control

✓ Multifunction Switch

3-position Power Switch Operates with Continuous Action or "Touch On" Control



✓ Soft and Long Life Cycle

Brushless Motor equipped

✓ High Safety

Overheat-Heat and Current Protection function prevent malfunction of motor

✓ Variable Speed Control

Variable Speed Control Allows Slow Speed Shaking Action up to 3,300 rpm with powerful motor

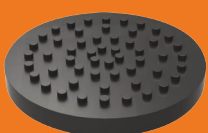
✓ Powerful Mixing Stable Platform

The strong motor realizes the stable movement and Tough Metal Housing Provides a Stable Platform for all types of Mixing

Ordering No.	Model Name	Description
LT.VM01010	VM1	Vortex Mixer, incl. "VM1RP", "VM1PC" & "VM1RA", 230V, 50Hz
LT.VM01011		Vortex Mixer, incl. "VM1RP", "VM1PC" & "VM1RA", 120V, 50Hz
LT.VM01012		Vortex Mixer, incl. "VM1RP", "VM1PC" & "VM1RA", 230V, 60Hz
LT.VM01013		Vortex Mixer, incl. "VM1RP", "VM1PC" & "VM1RA", 120V, 60Hz

Specification & Ordering

Model	VM1
Type of movement	Orbital
Speed Range	0 to 3,300rpm
Operating Modes	Touch or continuous
Orbit diameter	Circular Orbit, 4.0mm Dia.
Speed Control	Stepless
Safety Devices	Overheat-Heat and Current Protection function
Construction Material	Powder Coated Aluminum
Driving Motor	Brushless Shade motor
Permissible Temp. & Humidity	5°C~40°C, <80%
Max. Load & Power	0.5Kg, 30W
Dimensions (w x d x h) & Net Weight	131 x 185 x 125mm, 2.64Kg
Packing Size (w x d x h) & Gross Weight	190 x 250 x 215mm, 2.94Kg
Power Supply	AC 120V, 60Hz or AC 230V, 50/60Hz



VM1RP



VM1PC

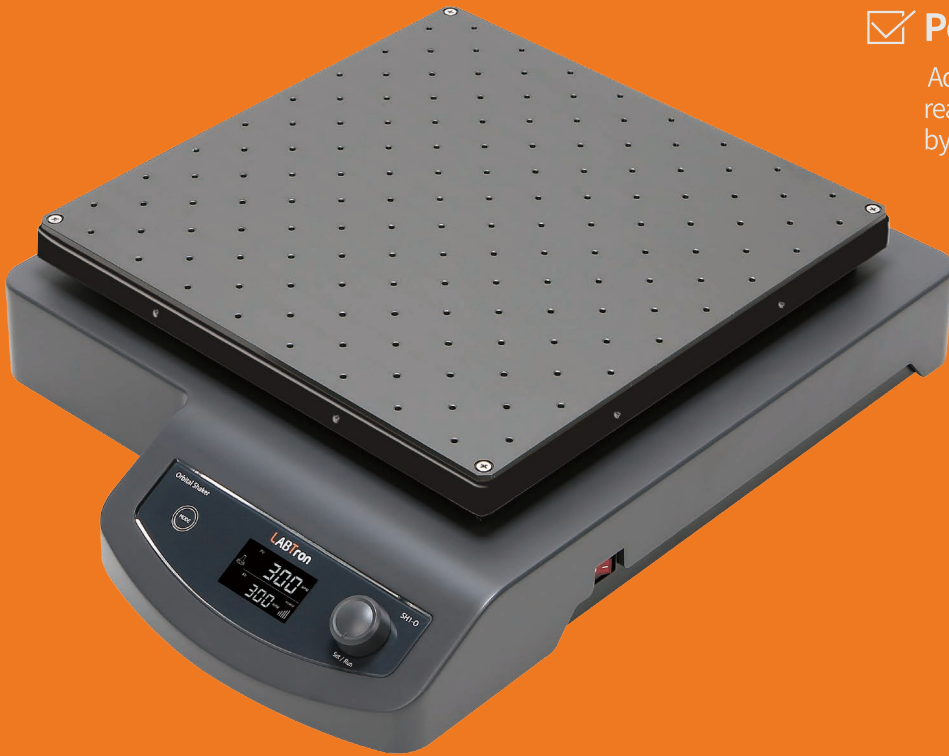


VM1RA

Accessories – All items are included in standard delivery.

Ordering No.	Model Name	Description
LT.VM00010	VM1RP	3inch Rubber Platform Head
LT.VM00020	VM1PC	Pop-off Cup Head
LT.VM00030	VM1RA	Remove Applicator

Shaker | SH1



✓ Powerful and Soft

Advanced Mechanism Driving station realized soft and stable operation by "Slow Start Function"

✓ Soft and Long Life Cycle

BLDC motor does not need ordinary maintenance works and the expected lifetime

✓ High Safety

Over-Load, Over Current Protection

※ Universal Platform in the photo is not included as a standard delivery. Please select the platform to be used when ordering.

✓ Program Operating

Applies program function realize complex experiment to one time

✓ Waterproofing in controller board

It is realized "High Safety" against big difference in temperature and humidity as lab. Refrigerator usage

✓ Touch Button

Excellent design focused on the convenience of users

✓ High Fidelity LCD Display

Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

Shaker – Orbital / Reciprocating

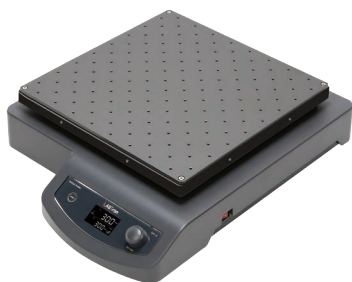
SH1-O Orbital / SH1-R Reciprocating models

Maxi. Capacity with 16ea 250ml Flask



Specification & Ordering

Digital Models

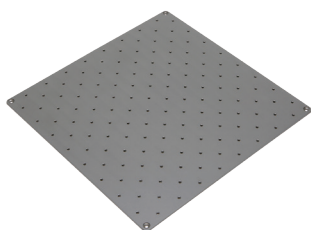


Ordering No.	Model Name	Description
LT.SH01010	SH1-O	Shaker, Digital, Orbital, 10 to 300 rpm, without Platform, 230V
LT.SH01011		Shaker, Digital, Orbital, 10 to 300 rpm, without Platform, 120V
LT.SH01012	SH1-R	Shaker, Digital, Reciprocating, 10 to 300 rpm, without Platform, 230V
LT.SH01013		Shaker, Digital, Reciprocating, 10 to 300 rpm, without Platform, 120V

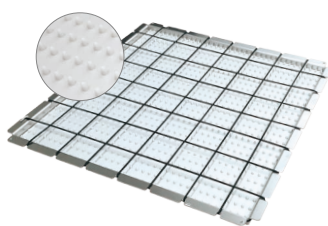
※ Universal Platform in the photo is not included as a standard delivery. Please select the platform to be used when ordering.

Model	SH1-O	SH1-R
Shaking action	Orbital	Reciprocating
Base Platform dimensions (w x d)	350 X 350 mm	
Speed range	10 to 300rpm	
Orbit/amplitude	20mm	
Controller	Digital Fuzzy Controller with Touch Button & Jog Dial	
Timer	99hr 59min., ±1 min. increments	
Display	Full Digital LCD Display with Back-Light Function	
Programmable Function	6 Program, 10 Steps	
Maximum load	10Kg	
Motor Type	Brushless DC Motor	
Power Consumption	45W	
Permissible Temp. & Humidity	5°C~40°C, <80%	
Safety Devices	Overload Protector for Motor	
Optional Platform Size	Universal Platform (w x d)	350 x 350 mm
	Rubber mat platform (w x d)	370 x 370 mm
Dimensions (w x d x h) & Net Weight	403 x 503 x 117mm, 13.7Kg	
Packing Size (w x d x h) & Gross Weight	485 x 595 x 195mm, 15.7Kg	
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ	

Accessories



Universal Platform



Rubber Mat Platform,
Two Side Mat, incl. Fixing Band,
w370×d370mm



Spring Rack



ABS Flask Holder

Ordering No.	Model Name	Description
LT.SH00010	SHUP35	Universal Platform, w350×d350mm(Max. 20ea 100ml Flask, 16ea 250ml Flask and 9ea 500ml Flask)
LT.SH00011	SHRP37	Rubber Mat Platform, Two Side Mat, incl. Fixing Band, w370×d370mm
LT.SH00013	SHSR35	Spring Rack, w350×d350mm x h100mm
LT.SH00040	SHFH100A	ABS Flask Holder for 50-100ml Flask
LT.SH00041	SHFH250A	ABS Flask Holder for 200-300ml Flask
LT.SH00042	SHFH500A	ABS Flask Holder for 500-1000ml Flask

Shaking Incubator | SHI1



✓ Powerful and Soft

Advanced Mechanism Driving station realized soft and stable operation by "Slow Start Function"

✓ High Uniformity

Dual Fan applied for High Uniformity Performance.

✓ Soft and Long Life Cycle

BLDC motor does not need ordinary maintenance works and the expected lifetime

※ Spring Rack in the photo is not included as a standard delivery.
Please select the platform to be used when ordering.

✓ High Safety

Over-Load & Heat,
Over Current Protection

✓ Program Operating

Applies program function realize
complex experiment to one time

✓ Touch Button

Excellent design focused on the
convenience of users

✓ High Fidelity LCD Display

Operation Icon of high intuitiveness and
Easy-to-read backlit LCD are equipped

Flexible Design

Maxi. Capacity with
16ea 250ml Flask



Specification & Ordering

Digital Models

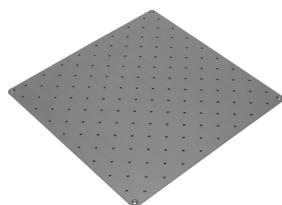


Ordering No.	Model Name	Description
LT.SH02010	SH11	Shaking Incubator, Orbital, Forced-air, 53L, 10 to 300 rpm, up to 50°C, without Platform, 230V
LT.SH02011		Shaking Incubator, Orbital, Forced-air, 53L, 10 to 300 rpm, up to 50°C, without Platform, 120V

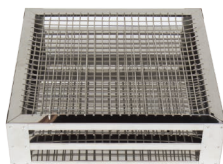
※ Spring Rack in the photo is not included as a standard delivery.
Please select the platform to be used when ordering.

Model		SH11
Shaking action		Orbital
Base Platform dimensions (w x d)		350 X 350 mm
Chamber Volume (L)		53
Speed range		10 to 300rpm
Orbit/amplitude		20mm
Circulation Type		Forced-air Flow
Temp. Range		Ambient Temperature +5°C to 50°C
Temp Accuracy		±0.3°C
Heat-up Time		25min. to 37°C, 40min. to 50°C
Recovery Time (Door open 30sec)		8min. to 37°C, 12min. to 50°C
Temp	Resolution	0.1°C-Display, 0.1°C-Control
	Fluctuation	±0.2°C at 37°C, ±0.3°C at 50°C
	Variation	±0.6°C at 37°C, ±1.0°C at 50°C
Controller		Digital Fuzzy Controller with Touch Button & Jog Dial
Timer		99hr 59min., ±1 min. increments
Display		Full Digital LCD Display with Back-Light Function
Programmable Function		3 Program, 10 Steps
Maximum load		10Kg
Motor Type		Brushless DC Motor
Heating Output		300W
Power Consumption		400W
Permissible Temp. & Humidity		5°C~40°C, <80%
Safety Devices		Overload Protector for Motor, Overheat Protection for Sample
Optional Platform Size	Universal Platform (w x d)	350 x 350 mm
	Rubber mat platform (w x d)	370 x 370 mm
Dimensions (w x d x h) & Net Weight		403 x 603 x 365mm, 21.7Kg
Packing Size (w x d x h) & Gross Weight		690 x 500 x 550mm, 27.0Kg
Power Supply		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Accessories



Universal Platform



Spring Rack



ABS Flask Holder

Ordering No.	Model Name	Description
LT.SH00010	SHUP35	Universal Platform, w350×d350mm(Max. 20ea 100ml Flask, 16ea 250ml Flask and 9ea 500ml Flask)
LT.SH00012	SHRP35	Rubber Mat Platform, Two Side Mat, incl. Fixing Band, w370×d370mm
LT.SH00013	SHSR35	Spring Rack, w350×d350mm x h100mm
LT.SH00040	SHFH100A	ABS Flask Holder for 50-100ml Flask
LT.SH00041	SHFH250A	ABS Flask Holder for 200-300ml Flask
LT.SH00042	SHFH500A	ABS Flask Holder for 500-1000ml Flask

Shaker 3D | SH1-3D



✓ Powerful and Soft

Powerful Driving station realized soft and stable operation by "Slow Start Function"

✓ Soft and Long Life Cycle

BLDC motor does not need ordinary maintenance works and the expected lifetime

✓ High Safety

Over-Load, Over Current Protection

※ Rubber Mat Platform in the photo is not included as a standard delivery. Please select the platform to be used when ordering.

✓ Program Operating

Applies program function realize complex experiment to one time

✓ Touch Button

Excellent design focused on the convenience of users

✓ Waterproofing in controller board

It is realized "High Safety" against big difference in temperature and humidity as lab. Refrigerator usage

✓ High Fidelity LCD Display

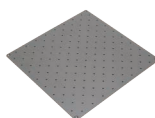
Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

Ordering No.	Model Name	Description
LT.SH03010	SH1-3D	Shaker, 3D operation, Digital, 10 to 70 rpm, without Platform, 230V
LT.SH03011		Shaker, 3D operation, Digital, 10 to 70 rpm, without Platform, 120V

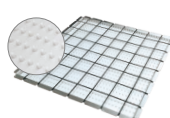
Specification & Ordering

Model		SH1-3D
Shaking action		3D Orbital
Base Platform dimensions (w x d)		350 X 350 mm
Speed range		10 to 70rpm
Angle		6° Tilt Angle
Controller		Digital Fuzzy Controller with Touch Button & Jog Dial
Timer		99hr 59min., ±1 min. increments
Display		Full Digital LCD Display with Back-Light Function
Programmable Function		6 Program, 10 Steps
Maximum load		10Kg
Motor Type		DC Motor
Power Consumption		50W
Permissible Temp. & Humidity		5°C~40°C, <80%
Safety Devices		Overload Protector for Motor
Optional Platform Size	Universal Platform (w x d)	350 x 350 mm
	Rubber mat platform (w x d)	370 x 370 mm
Dimensions (w x d x h) & Net Weight		403 x 503 x 190mm, 11.2Kg
Packing Size (w x d x h) & Gross Weight		485 x 595 x 268mm, 13.5Kg
Power Supply		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Accessories



Universal Platform



Rubber Mat Platform, Two Side Mat, incl. Fixing Band, w370×d370mm



Spring Rack

Ordering No.	Model Name	Description
LT.SH00010	SHUP35	Universal Platform, w350×d350mm(Max.20ea 100ml Flask, 16ea 250ml Flask and 9ea 500ml Flask)
LT.SH00011	SHRP37	Rubber Mat Platform, Two Side Mat, incl. Fixing Band, w370×d370mm
LT.SH00013	SHSR35	Spring Rack, w350×d350mm x h100mm
LT.SH00014	SHPI	Pillars for Additional Platform, Ø8*100mm 4EA

Rocker | RK1



※ Rubber Mat Platform in the photo is included as a standard delivery. If additional is required, please select when ordering.

Wide Range of Speed

Realize 5 to 80 rpm

High Safety

Over-Load,
Over Current Protection

Program Operating

Applies program function realize complex experiment to one time

Touch Button

Excellent design focused on the convenience of users

High Fidelity LCD Display

Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

Waterproofing in controller board

It is realized "High Safety" against big difference in temperature and humidity as lab. Refrigerator usage



Rocking Motion for Gentle Mixing

Ordering No.	Model Name	Description
LT.RK01010	RK1	Rocker, Digital, 10 to 70 rpm, incl. rubber mat platform, 230V
LT.RK01011		Rocker, Digital, 10 to 70 rpm, incl. rubber mat platform, 120V

Specification & Ordering

Model	RK1
Base Platform dimensions (w x d)	290 X 200 mm
Speed range	5 to 80rpm
Angle	9° Tilt Angle
Controller	Digital Fuzzy Controller with Touch Button & Jog Dial
Timer	99hr 59min., ±1 min. increments
Display	Full Digital LCD Display with Back-Light Function
Programmable Function	6 Program, 10 Steps
Maximum load	10Kg
Motor Type	DC Motor
Power Consumption	15W
Permissible Temp. & Humidity	5°C~40°C, <80%
Safety Devices	Overload Protector for Motor
Dimensions (w x d x h) & Net Weight	290 x 280 x 155mm, 4.3Kg
Packing Size (w x d x h) & Gross Weight	390 x 330 X 225mm, 5.5Kg
Power Supply	1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Ordering No.	Model Name	Description
LT.RK00010	RKAP	Additional Platform for RK1, incl. "SHPI" 4ea Pillars, w290 X 200 mm
LT.SH00014	SHPI	Pillars for Additional Platform, Ø8*100mm 4EA

Dry Bath / Heating Block | DB1



✓ High Uniformity & Long Life Cycle

Apply Molding Heater to heating system

✓ High-Quality Insulation

Realize Stable Condition and Protection of Test Sample

✓ Clear Type Poly Carbonate Lid

Realize Stable Condition and Protection of Test Sample with Clear View

✓ High Safety

Over-Load & Heat, Over Current Protection

※ 48 Holes Block in the picture is not included as a standard delivery. Please order the included set model or select the block to be used.

✓ Touch Button

Excellent design focused on the convenience of users

✓ High Fidelity LCD Display

Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

Flexible Design

Maxi. Capacity with 48ea 2.0ml Micro Centrifuge tubes



Specification & Ordering

Digital Models



Ordering No.	Model Name	Description
LT.DB01010	DB1	Dry Bath, Digital, up to 150°C, without Heating Block, 230V
LT.DB01011		Dry Bath, Digital, up to 150°C, without Heating Block, 120V
LT.DB01012	DB1-Set	Package Set, Dry Bath with Heating Block(DBCT48), for 48 hole x 1.5/2.0ml tubes, 230V
LT.DB01013		Package Set, Dry Bath with Heating Block(DBCT48), for 48 hole x 1.5/2.0ml tubes, 230V

48 Holes Block in the picture is not included as a standard delivery. Please order the included set model or select the block to be used.

Model		DB1	DB1-Set
Temp.	Range	Ambient +5 to 150°C	
	Accuracy	±0.1°C at 37°C ±0.2°C at 90°C ±0.4°C at 135°C	
	Resolution	0.1°C-Display, 0.1°C-Control	
Heat up Speed		Approx. 5°C/min	
Controller		Digital Fuzzy Controller with Touch Button & Jog Dial	
Timer		99hr 59min., ±1min. increments	
Display		Full Digital LCD Display with Back-Light Function	
Permissible Temp. & Humidity		5°C~40°C, <80%	
Heater		Molded Heater	
Power Consumption		300W	
Material	Unit Case	ABS	
	Block Case	PPS	
	Block	Anodized Aluminum	
Others		Incl. PC Cover for sample	
Safety Devices		Over Temp Protection, Over Current Protector, Sensor Error Detector	
Dimensions (w x d x h) & Net Weight		165 X 250X 145mm, 1.6Kg	165 X 250X 145mm, 2.4Kg
Packing Size (w x d x h) & Gross Weight		230 x 310 x 260mm, 2.2Kg	230 x 310 x 260mm, 3.0Kg
Power Supply		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ	

Accessories



DBCT48

Ordering No.	Model Name	Description
LT.DB00010	DBCT96	Micro centrifuge tubes Block for 0.2ml Tubes, Ø6 x 96 hole (h16mm)
LT.DB00011	DBCT63	Micro centrifuge tubes Block for 0.5ml Tubes, Ø7.7 x 63 hole (h29.5mm)
LT.DB00012	DBCT48	Micro centrifuge tubes Block for 1.5ml Tubes, Ø11 x 48 hole (h36mm)
LT.DB00013	DBCT48E	Micro centrifuge tubes Block for 2.0ml Tubes, Ø11 x 48 hole (h38.7mm)
LT.DB00020	DBCT15	Conical bottom centrifuge tubes Block for 15ml Tubes, Ø16 x 15 hole (h47mm)
LT.DB00021	DBCT8	Conical bottom centrifuge tubes Block for 50ml Tubes, Ø28.7 x 8 hole (h47mm)
LT.DB00030	DBTT48	Standard test tubes Block, Ø12 x 48 hole (h35mm)
LT.DB00031	DBTT30	Standard test tubes Block, Ø13 x 30 hole (h47mm)
LT.DB00032	DBTT30E	Standard test tubes Block, Ø15 x 30 hole (h47mm)
LT.DB00033	DBTT24	Standard test tubes Block, Ø16.5 x 24 hole (h47mm)
LT.DB00034	DBTT24E	Standard test tubes Block, Ø18 x 24 hole (h47mm)
LT.DB00040	DBET	Block Extraction tool

Centrifuge | CF8



✓ Multiple Usage

0.5ml/0.2ml Strip tube is available with standard offered rotor and tube adaptor

✓ One Touch Shift

The readiest way to do exchanging rotor
- No need tool

✓ High Speed & Capacity

6,200 rpm,
1.5ml/2.0ml * 8 holes

✓ Stable Platform

The structure designed as low center of gravity and the bottom composed of rubber

Ordering No.	Model Name	Description
LT.CF01010	CF8	Centrifuge, Micro, 6,200rpm, incl. "CFR8", "CFR32S", "CFTA02" & "CFTA05", 230V
LT.CF01011		Centrifuge, Micro, 6,200rpm, incl. "CFR8", "CFR32S", "CFTA02" & "CFTA05", 120V

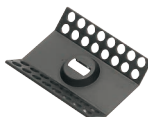
Specification & Ordering

Model		CF8
Speed		6,200 rpm (speed adjustments unavailable)
Max. RCF		1,800 x g
Capacity		8 x 0.2/0.5/1.5/2.0mL tubes , 4 x 0.2ml PCR 8 tube strips
Rotor	Angle Type	8 Holes Circular Fixed-Angle rotor for 0.5/1.5/2.0 Tubes
	Strip Type	32 Holes Strip Rotor for 0.2ml PCR Strip or individual Tubes
Speed control		Automatic/constant speed
Driving Motor		DC motor
Permissible Temp. & Humidity		5°C~40°C, <80%
Rotating Direction		Clockwise
Adapter		0.2/0.5ml
Power Consumption		8W
Safety Device		Door Limit Switch
Material	Lid	PC (Polycarbonate)
	Body	ABS
	Rotor	ABS
Dimensions (w x d x h) & Net Weight		155 x 183 x 125mm, 1.34Kg
Packing Size (w x d x h) & Gross Weight		190 x 250 x 215mm, 1.60Kg
Power Supply		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ

Accessories – All items are included in standard delivery.



Fixed Angle Rotor



Fixed Angle Rotor for PCR strip



Adaptors for 0.2ml and 0.4/0.5ml tubes

Ordering No.	Model Name	Description
LT.CF00010	CFR8	Rotor, for CF8, 8 x 1.5/2.0ml tubes
LT.CF00011	CFR32S	Rotor, for CF8, 32 x 0.2ml strip tubes, 8strip x 4 Line
LT.CF00020	CFTA02	Tube Adapter, 8 x 0.2ml for CF8
LT.CF00021	CFTA05	Tube Adapter, 8 x 0.5ml for CF8

Water Bath | WB1



☑ Highly Durability

Provide excellent appearance and tight sealing designed by stainless steel processed by press

☑ High Safety

Over-Heat, Over-Load, Over Current Protection to secure the safety of products and sample

☑ Drain

Convenient to discharge solution as drain valve is installed
- Only for WB1-22 model

☑ Touch Button

Excellent design focused on the convenience of users

☑ High Fidelity LCD Display

Operation Icon of high intuitiveness and Easy-to-read backlit LCD are equipped

Ordering No.	Model Name	Description
LT.WB01010	WB1-6	Water Bath, 6Lit., Digital, up to 120°C, with SUS304 Flat Lid, 230V
LT.WB01011		Water Bath, 6Lit., Digital, up to 120°C, with SUS304 Flat Lid, 120V
LT.WB01012	WB1-11	Water Bath, 11Lit., Digital, up to 120°C, with SUS304 Flat Lid, 230V
LT.WB01013		Water Bath, 11Lit., Digital, up to 120°C, with SUS304 Flat Lid, 120V
LT.WB01014	WB1-22	Water Bath, 22Lit., Digital, up to 120°C, with SUS304 Flat Lid, 230V
LT.WB01015		Water Bath, 22Lit., Digital, up to 120°C, with SUS304 Flat Lid, 120V

Specification & Ordering

Model		WB1-6	WB1-11	WB1-22
Capacity		6 Lit.	11 Lit.	22 Lit.
Temp.	Range	Ambient +5°C to 99°C		
	Accuracy	±0.2 °C at 37.0°C		
	Uniformity	±0.8°C at 37.0°C		
	Sensor	PT100		
Resolution		0.1°C-Display, 0.1°C-Control		
Heating Power		600 W	1 kW	1.5 kW
Controller		Digital PID Controller with Jog Dial		
Timer		99hr 59min., ±1 min. increments		
Display		Full Digital LCD Display with Back-Light Function		
Safety Circuit		Over-Temp./-Current protection, Sensor Error Detection		
Lid		Included Stainless steel Flat Lid, Optional Dome Lid		
Drain Valve		None		Yes
Material		Polished Seamless Stainless Steel (#304)-Internal, Epoxy Powder Coated Steel-External		
Permissible Temp. & Humidity		5°C~40°C, <80%		
Dimension (wxdxh)	Effective Space	300x155x110mm	300x240x110mm	500x300x110mm
	Internal	300x155x150mm	300x240x150mm	500x300x150mm
	External	340x200x270mm	340x285x270mm	545x345x270mm
Dimensions (w x d x h) & Net Weight		7kg	8kg	11kg
Packing Size (w x d x h) & Gross Weight		7.5kg	8.5kg	13kg
Power Supply		1 Phase, AC 120V, 60Hz or AC 230V, 50/60 HZ		

Accessories



Dome Type Lid

Ordering No.	Model Name	Description
LT.WB00020	WBDL6	Dome Type Lid, SUS304 for WB1-6
LT.WB00021	WBDL11	Dome Type Lid, SUS304 for WB1-11
LT.WB00022	WBDL22	Dome Type Lid, SUS304 for WB1-22
LT.WB00030	WBRC6	Ring Cover 2 Sets, 330 X 182 X h20mm, SUS304 for WB1-6
LT.WB00031	WBRC11	Ring Cover 2 Sets, 330 X 269 X h20mm, SUS304 for WB1-11
LT.WB00032	WBRC22	Ring Cover 6 Sets, 540 X 334 X h20mm, SUS304 for WB1-22

LABTron

New High-End

Laboratory Equipment Manufacturer

(주)랩트론

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In various experimental equipment for various purposes, the accumulated know-how of LABTron Co., Ltd. has achieved high convenience and reliability by achieving commonization and systematization of the methods of use. We, LABTron Co., Ltd. pursues customer satisfaction as the best value, We will do our best to implement steadily. Thank you.

22 Mar. 2022