

# ROTARY EVAPORATOR



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Rotary Evaporator is an essential instrument in laboratory for the efficient and gentle removal of solvents from samples by evaporation. Besides, it provides excellent distilling solution in a wide range of applications. It can be used as a multi-functional system in combination with vacuum pump, vacuum controller and circulating refrigerators which makes it an unique choice for the laboratory.

Used in Evaporation, Distillation, Separation of chemicals, Drying, Extraction, Recovery, Chemical Laboratory, Biological Laboratory, Pharmaceutical.

Also known as Rotovap, Rotavapor, Laboratory Rotary Evaporator, Laboratory Rotovap.

## REV11-150D ROTARY EVAPORATOR

Water/oil heating mode can be changed only through a switch.

Safety: Motor over-current protection, Residual Current Device, lifting overload protection, Boil-dry protection, over-temperature protection.

Timing interval operation in clockwise and anticlockwise directions for drying process.

Excellent cooling effect.

Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance.



## SPECIFICATIONS

Model	REV11-150D
Motor Type	Brushless DC motor
Motor Lift	Automatic
Speed Range	20-280 rpm
Display	LCD(speed, temperature, time)
Temperature control method	PID control
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180°C
Control Accuracy	water: $\pm 1^{\circ}\text{C}$ oil: $\pm 3^{\circ}\text{C}$
Heating Power	1300 W
Stroke Displacement	Automatic 150 mm
Adjustable Immersion Angle	No
Condenser	Patented (cooling surface 1700 cm <sup>2</sup> )
Timer	Yes
Time Setting Range	1-999 min
Heating Bath Size	5 L
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20
Over Protection Temperature	220°C
USB Interface	Yes

Dimension[L×W×H]	465×457×583 mm
Weight	15 kg
Voltage / Frequency	100-120/200-240 V 50/60 Hz
Power	1400 W
Notes	Ejection mechanism ensures easy removal of evaporating flask. Remote function provides PC control and data transmission.

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Power	Type	Volume
LS52011	Vacuum Controller		100/220 V 50/60 Hz		
LS52024	Chemical Resistant Vacuum Pump		110/220 V, 50/60 Hz		
LS52037	Chemistry Design Diaphragm Pump		100/120 V, 200-230V 50/60 Hz		
LS52050	Vacuum Pump		220 V/50 Hz		
LS54589	Glassware	Including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54601	Glassware	With anti-explosion film, including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54613	Glassware	Including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 24/40) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54625	Glassware	Including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Diagonal	1000 ml
LS54637	Glassware	Including condenser(1700cm <sup>2</sup> ), evaporating flask (NS 24/40) and receiving flask (KS 35/20)		Diagonal	1000 ml
LS54697	Heating Bath	5 L	220 V		
LS54709	Heating Bath	5 L	110 V		
LS54721	Evaporating Flask	NS 29/32			50 ml
LS54733	Evaporating Flask	NS 29/32			100 ml
LS54745	Evaporating Flask	NS 29/32			250 ml
LS54757	Evaporating Flask	NS 29/32			500 ml
LS54769	Evaporating Flask	NS 29/32			1000 ml
LS54781	Evaporating Flask	NS 29/32			2000 ml
LS54793	Evaporating Flask	NS24/40			50 ml
LS54805	Evaporating Flask	NS 24/40			100 ml
LS54817	Evaporating Flask	NS 24/40			250 ml
LS54829	Evaporating Flask	NS 24/40			500 ml
LS54841	Evaporating Flask	NS 24/40			1000 ml
LS54853	Evaporating Flask	NS 24/40			2000 ml
LS54865	Receiving Flask	KS 35/20			100 ml
LS54877	Receiving Flask	KS 35/20			250 ml
LS54889	Receiving Flask	KS 35/20			500 ml
LS54901	Receiving Flask	KS 35/20			1000 ml

LS54913	Receiving Flask	KS 35/20			2000 ml
LS54925	Connector	NS 29/32, NS24/29			
LS54937	Connector	NS 29/32, NS19/26			
LS54949	Connector	NS 29/32, NS14/23			
LS54961	Connector	NS24/40, NS19/22			
LS54973	Connector	NS 24/40, NS14/20			
LS54985	Connector	NS 24/40, NS 29/42			
LS54997	Foam Brake	NS 29/32			250 ml
LS55009	Foam brake	NS 24/40			250 ml
LS55021	Vapor Tube	NS 29/32			
LS55033	Vapor Tube	NS 24/40			
LS55045	Distillation Spider Flask	NS 29/32			50 ml
LS55057	Distillation Spider Flask	NS24/40			50 ml
LS55069	Rubber Ring				
LS55081	Ether Rubber Ring				
LS55093	Evaporation Flask Clip				
LS55105	Evaporation Flask Clip				
LS55117	Vacuum Regulator				
LS55129	Low Temperature Circulator		220 V, 50/60 Hz		
LS55141	Low Temperature Circulator		110/220 V, 50/60 Hz		

## REV12-180D ROTARY EVAPORATOR

Water/oil heating mode can be changed only through a switch.

Safety: Motor over-current protection, Residual Current Device, lifting overload protection, Boil-dry protection, over-temperature protection.

Timing interval operation in clockwise and anticlockwise directions for drying process.

Excellent cooling effect.

Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance.



## SPECIFICATIONS

Model	REV12-180D
Evaporation Capacity	Max.4.0 L/h (water vapor volume)
Motor Lift	Automatic
Ultimate Vacuum	Less 2.6 hpa
Rotation Speed	10-150 rpm
Display	LCD (temperature/speed/clockwise and Anti-clockwise/time)
Temperature control method	Micro processor PID control
Heating Temperature Range	Room temp. to 180°C (both water and oil)
Control Accuracy	water: ±1°C oil: ±3°C

Stroke Displacement	Automatic 180 mm
Sample Flask	Round flask 20L
Receiving Flask	Round flask 10 L with drain valve
Adjustable Immersion Angle	No
Condenser	Two-section vertical triple serpentine condenser, cooling surface 1.2 m <sup>2</sup>
Takeover Caliber	Cooling/suction nozzle outer diameter 16 mm, vacuum pump nozzle outer diameter 16 mm
Heating Bath Size	φ450×240 mm
Dimension[L×W×H]	1160x600x1860 mm
Voltage / Frequency	220 V/ 50/60 Hz
Power	4600 W
Notes	Three-layer high-efficiency condensing tube with large condensation area and strong evaporation capacity, ensuring efficient sample recovery. A switching valve for continuous collection without compromising the system vacuum and solvent distillation.

## REV13-110D ROTARY EVAPORATOR

Water/oil heating mode can be changed only through a switch.

Safety: Motor over-current protection, Residual Current Device, lifting overload protection, Boil-dry protection, over-temperature protection.

Timing interval operation in clockwise and anticlockwise directions for drying process.

Excellent cooling effect.

Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance.



## SPECIFICATIONS

Model	REV13-110D
Motor Type	Brushless DC motor
Motor Lift	Manual
Speed Range	20-200 rpm
Display	LED(speed, temperature, time)
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180°C
Control Accuracy	water: ±1°C oil: ±3°C
Heating Power	1010 W
Stroke Displacement	Manual 110 mm + auxiliary 100 mm
Adjustable Immersion Angle	Yes
Condenser	Patented (cooling surface 1200/1700 cm <sup>2</sup> for selection), double helix condensing tube + center circular arc design to speed up the flow rate of liquid.
Interval Time Setting Range	1~999 s
Heating Bath Size	5 L
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20

Over Protection Temperature	220°C
USB Interface	Yes
Dimension[L×W×H]	440x320x450 mm Heating Bath: 300x300x240 mm
Weight	7 kg Heating Bath: 3 kg
Voltage / Frequency	100~120/200~240 V 50/60 Hz
Power	1100 W
Notes	Ejection mechanism ensures easy exchange of evaporating flask. Remote function provides PC control and data transmission.

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Power	Type	Volume
LS52011	Vacuum Controller		100/220 V 50/60 Hz		
LS52024	Chemical Resistant Vacuum Pump		110/220 V, 50/60 Hz		
LS52037	Chemistry Design Diaphragm Pump		100/120 V, 200-230V 50/60 Hz		
LS52050	Vacuum Pump		220 V/50 Hz		
LS54589	Glassware	Including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54601	Glassware	With anti-explosion film, including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54613	Glassware	Including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 24/40) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54625	Glassware	Including condenser(1700 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Diagonal	1000 ml
LS54637	Glassware	Including condenser(1700cm <sup>2</sup> ), evaporating flask (NS 24/40) and receiving flask (KS 35/20)		Diagonal	1000 ml
LS54649	Glassware	Including condenser(1200 cm <sup>2</sup> ), evaporating flask (NS 29/32) and receiving flask (KS 35/20)		Vertical	1000 ml
LS54673	LED Heating Bath	5 L	220 V		
LS54685	LED Heating Bath	5 L	110 V		
LS54721	Evaporating Flask	NS 29/32			50 ml
LS54733	Evaporating Flask	NS 29/32			100 ml
LS54745	Evaporating Flask	NS 29/32			250 ml
LS54757	Evaporating Flask	NS 29/32			500 ml
LS54769	Evaporating Flask	NS 29/32			1000 ml
LS54781	Evaporating Flask	NS 29/32			2000 ml
LS54793	Evaporating Flask	NS24/40			50 ml
LS54805	Evaporating Flask	NS 24/40			100 ml
LS54817	Evaporating Flask	NS 24/40			250 ml
LS54829	Evaporating Flask	NS 24/40			500 ml
LS54841	Evaporating Flask	NS 24/40			1000 ml
LS54853	Evaporating Flask	NS 24/40			2000 ml

LS54865	Receiving Flask	KS 35/20			100 ml
LS54877	Receiving Flask	KS 35/20			250 ml
LS54889	Receiving Flask	KS 35/20			500 ml
LS54901	Receiving Flask	KS 35/20			1000 ml
LS54913	Receiving Flask	KS 35/20			2000 ml
LS54925	Connector	NS 29/32, NS24/29			
LS54937	Connector	NS 29/32, NS19/26			
LS54949	Connector	NS 29/32, NS14/23			
LS54961	Connector	NS24/40, NS19/22			
LS54973	Connector	NS 24/40, NS14/20			
LS54985	Connector	NS 24/40, NS 29/42			
LS54997	Foam Brake	NS 29/32			250 ml
LS55009	Foam brake	NS 24/40			250 ml
LS55021	Vapor Tube	NS 29/32			
LS55033	Vapor Tube	NS 24/40			
LS55045	Distillation Spider Flask	NS 29/32			50 ml
LS55057	Distillation Spider Flask	NS24/40			50 ml
LS55069	Rubber Ring				
LS55081	Ether Rubber Ring				
LS55093	Evaporation Flask Clip				
LS55105	Evaporation Flask Clip				
LS55117	Vacuum Regulator				
LS55129	Low Temperature Circulator		220 V, 50/60 Hz		
LS55141	Low Temperature Circulator		110/220 V, 50/60 Hz		



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