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ROTARY EVAPORATOR



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Rotary Evaporator (Lab-scale)

REV100-P REV100-S

Features



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



Condenser--cooling surface 1700cm²



5L heating bath with wide temperature range from room temp. to 180°C, Water/oil heating mode can be changed only through a switch.



Boil-dry protection, automatically power off if heating without water/oil in the heating bath.



Overheating protection temperature at 220°C.



Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process.



Optional glassware with explosion proof film available.



Remote function provides PC control and data transmission.



Ejection mechanism ensures easy removal of evaporating flask.

The difference

REV100-P

Digital display of both rotation speed and heating temperature allows effective control of all distillation processes.
Automatic motor lift releases the evaporating flask to a safe position in case of power failure.

REV100-S

Manual lift combined with auxiliary lift for precise positioning of the glassware.



REV100-P



REV100-S

REV100-S heating bath independent temperature control,make it can be used separately.

Specifications

Model	REV100-P	REV100-S
Evaporating Flask Volume	50-3000ml (Standard configuration-1000ml) (Optional thickened glass axis compatible with 3L evaporating flask)	
Receiving Flask Volume	100-2000ml (Standard configuration-1000ml)	
Motor Type	Brushless DC motor	Brushless DC motor
Speed Range	20rpm-280rpm	20-200rpm
Display	LCD (speed, temperature, time)	LED (speed, temperature, time)
Clockwise and Anti-clockwise	Yes	Yes
Heating Temperature Range	Room temp. to 180℃	Room temp. to 180℃
Control Accuracy	water: ±1℃ oil: ±3℃	water: ±1℃ oil: ±3℃
Heating Power	1300W	1200W
Stroke Displacement	automatic 150mm	Manual 110mm + auxiliary100mm
Timer	Yes	Yes
Time Setting Range	1-999min	1-999min
Interval Time Setting Range	1~999s	1~999s
Dimension (D×W×H)	Main Unit:465*457*583mm	Main Unit: 440*320*450mm
	Heating Bath: 300*300*240mm	Heating Bath: 300*300*240mm
Weight	15kg	Main Unit: 7 kg Heating Bath: 3 kg
Permissible Ambient Temperature	5℃-40℃	5~40℃
Permissible Relative Humidity	80%RH	80%RH
Protection Class	IP20	IP20
USB Interface	Yes	Yes
Voltage/Frequency	100V-120V/200V-240V 50Hz/60Hz	100V~120V/200V~240V 50Hz/60 Hz
Power	1400 W	1245 W
Supporting products	REV100-P+ Diaphragm Vacuum Pump VACP-D410+Low Temperature Circulator RECL20-4.5+Vacuum Controller VACC100	

Accessories



Vertical

Cat. No.	Glassware type	Volume	Cooling surface
18900165	Evaporating flask (NS29/32) Receiving flask (KS35/20)	1000mL	1700cm ²
18900173	Evaporating flask (NS24/40) Receiving flask (KS35/20)	1000mL	1700cm ²
18900166	(COATED) Evaporating flask (NS29/32) Receiving flask (KS35/20)	1000mL	1700cm ²
18900174	(COATED) Evaporating flask (NS24/40) Receiving flask (KS35/20)	1000mL	1700cm ²
18202510	evaporating flask (NS 29/32) Receiv- ing flask (KS 35/20)	1000mL	1200cm ²
18900476	Evaporating flask (NS 24/40) Receiving flask (KS 35/20)	1000mL	1200cm ²

Diagonal

Cat. No.	Glassware type	Volume	Cooling surface
18900163	Evaporating flask (NS29/32) Receiving flask (KS35/20)	1000mL	1700cm ²
18900171	Evaporating flask (NS24/40) Receiving flask (KS35/20)	1000mL	1700cm ²
18900164	(COATED) Evaporating flask (NS29/32) Receiving flask (KS 35/20)	1000mL	1700cm ²
18900172	(COATED) Evaporating flask (NS24/40) Receiving flask (KS35/20)	1000mL	1700cm ²

Heating Bath Lid

Cat. No.	Description
18900547	Heating Bath lid for REV100-S, improve distillation efficiency & ensure personal safety from liquid splash

Foam brake

Cat. No.	Volume	Size
18300093	250ml	NS 29/32
18300207	250ml	NS 24/40

Evaporation tube

Cat. No.	Volume	Size
18100998	Glass axis	NS 29/32
18204253	Thickened glass axis	NS 29/32
18300206	Glass axis	NS 24/40
18203431	Thickened glass axis	NS 24/40

Evaporating flask

Cat. No.	Volume	Size
18300116	50mL	NS 29/32
18300117	100mL	NS 29/32
18300118	250mL	NS 29/32
18300119	500mL	NS 29/32
18300120	1000mL	NS 29/32
18300121	2000mL	NS 29/32
18300122	3000mL	NS 29/32
18300655	50mL	NS24/40
18300201	100mL	NS 24/40
18300202	250mL	NS 24/40
18300203	500mL	NS 24/40
18300204	1000m	NS 24/40
18300205	2000mL	NS 24/40
18900204	3000mL	NS 24/40

Vacuum regulator

Cat. No.	Volume
18900186	In use of control small volume, installed in a vacuum between VACC100 and vacuum system. Material: PVDF, PTFE, ABS, Borosilicate Glass, stainless Steel



Receiving flask

Cat. No.	Volume	Size
18300107	100ml	KS 35/20
18300108	250ml	KS 35/20
18300109	500ml	KS 35/20
18300110	1000ml	KS 35/20
18300111	2000ml	KS 35/20

Distilling spider with 5 flasks (without flask)

Cat. No.	Volume	Size
18900194	/	NS 29/32, NS24/29
18900177	/	NS 29/42, NS24/40

Connector

Cat. No.	Volume	Size
18300094	/	NS 29/32, NS24/29
18300095	/	NS 29/32, NS19/26
18300096	/	NS 29/32, NS14/23
18300199	/	NS24/40, NS19/22
18300200	/	NS 24/40, NS14/20
18900193	/	NS 24/40, NS 29/42

Seals and other accessories

Cat. No.	Volume
18204186	Vacuum seal (PTFE+Viton)
18204187	Evaporation bottle spring Used with 18204186
18900190	Evaporation flask clip(red)NS29/42
18900188	Evaporation flask clip(green)NS24/40

Rotary Evaporator, (Industrial Sacle)

REV200-P



Features



Patented connector for evaporat-ing flask easy & quick installation.



Large LCD digital display with heating temperature, rotation speed, clockwise and Anti-clock-wise, time information.



One-click automatic motor lifting (stroke 180mm), smooth and silent.



PTFE double sealing ring with excellent sealing performance.



Speed range from 10 to 150rpm, and interval operation in clockwise and anticlockwise directions for drying process.



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.



Water/oil heating bath with wide temperature range from room temp. to 180°C.

Specifications

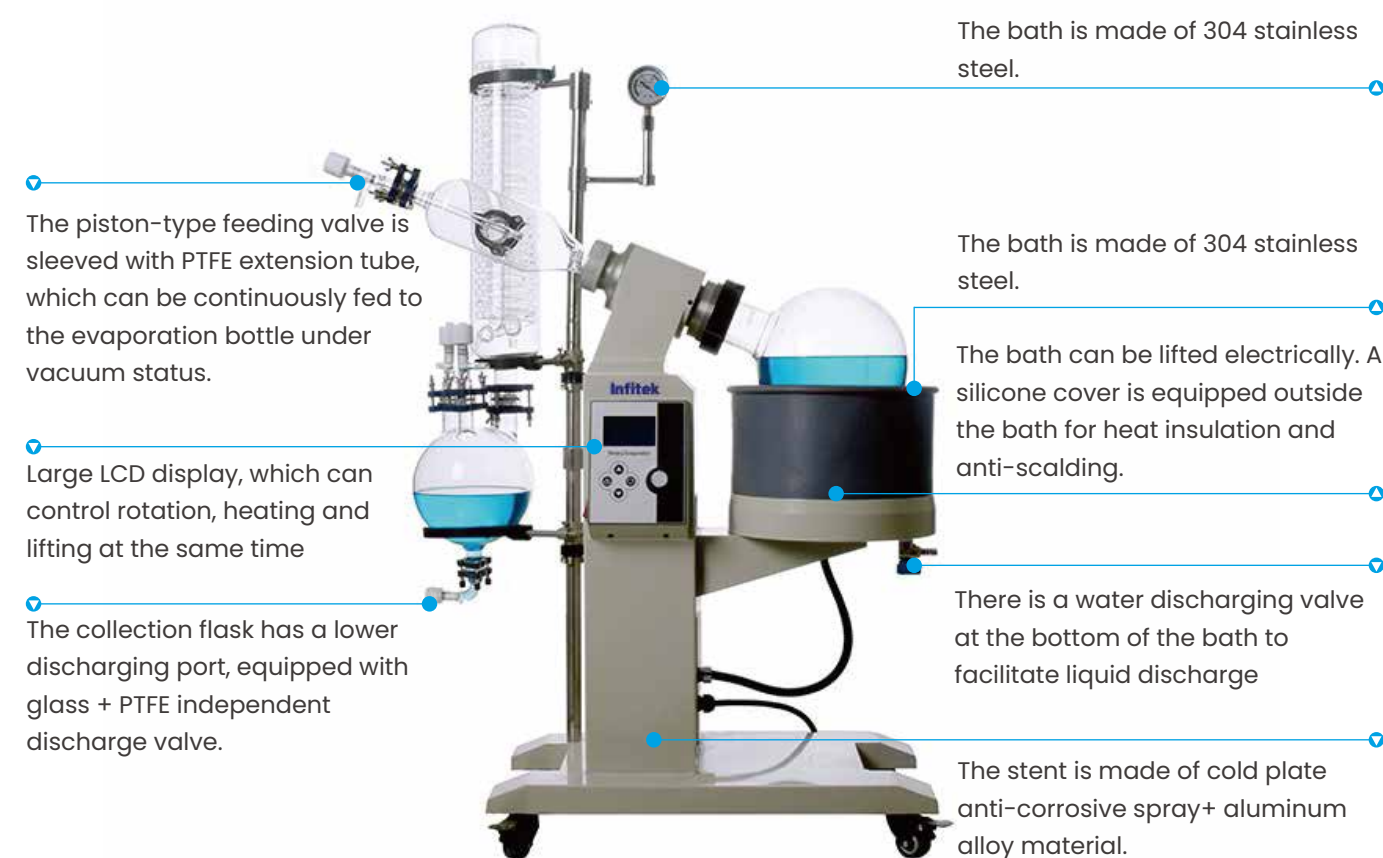
Model		REV200-P
Performance	Temperature range	Room temp. -180 °C (both water and oil)
	Control accuracy	Water: ±1°C Oil: ±3°C
	Rotation speed	10rpm~150rpm
	Evaporation capacity	Max. 4.0L/h (water vapor volume)
	Ultimate vacuum	< 2.6 hPa
function	Temperature control method	Micro processor PID control
	Display	LCD (temperature/speed/clockwise and Anti-clockwise/time)
	Stroke displacement	Automatic 180mm
constitute	Safely features	Motor over-current protection, Residual Current Device, lifting over-load protection, Boil-dry protection, over-temperature protection
	Sample flask	Round flask 20L
	Receiving flask	Round flask 10L with drain value
specifications	Condenser	Two-section vertical triple serpentine condenser, cooling surface 1.2m2
	Heating bath size	Φ450mm×240mm
specifications	Takeover caliber	Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm
	Dimension (D×W×H)	1160mm×600mm×1860mm
specifications	Power supply	220V/4600W/50Hz/60Hz

Rotary Evaporator

REV-1005II REV-1010II REV-1050II



Features



If the power is suddenly cut off while the machine is working, the machine will automatically stop heating when the power is turned on again.



The parts in contact with the material are all made of high borosilicate glass (expansion coefficient 3.3) and PTFE materials, which have stable performance and are not easy to react with the materials.



Thermostat controlled bath, with PT100 sensor + stainless steel probe at the bottom of bath



Using brushless deceleration booster motor as rotary motor, no spark and low noise. Lifting motor also uses deceleration booster motor.



Over-temperature protection function, when the actual temperature > setting temperature + 5 °C, the machine will automatically power off.



Vacuum switching valve can continuously collect and discharge materials without affecting the system vacuum and solution distillation



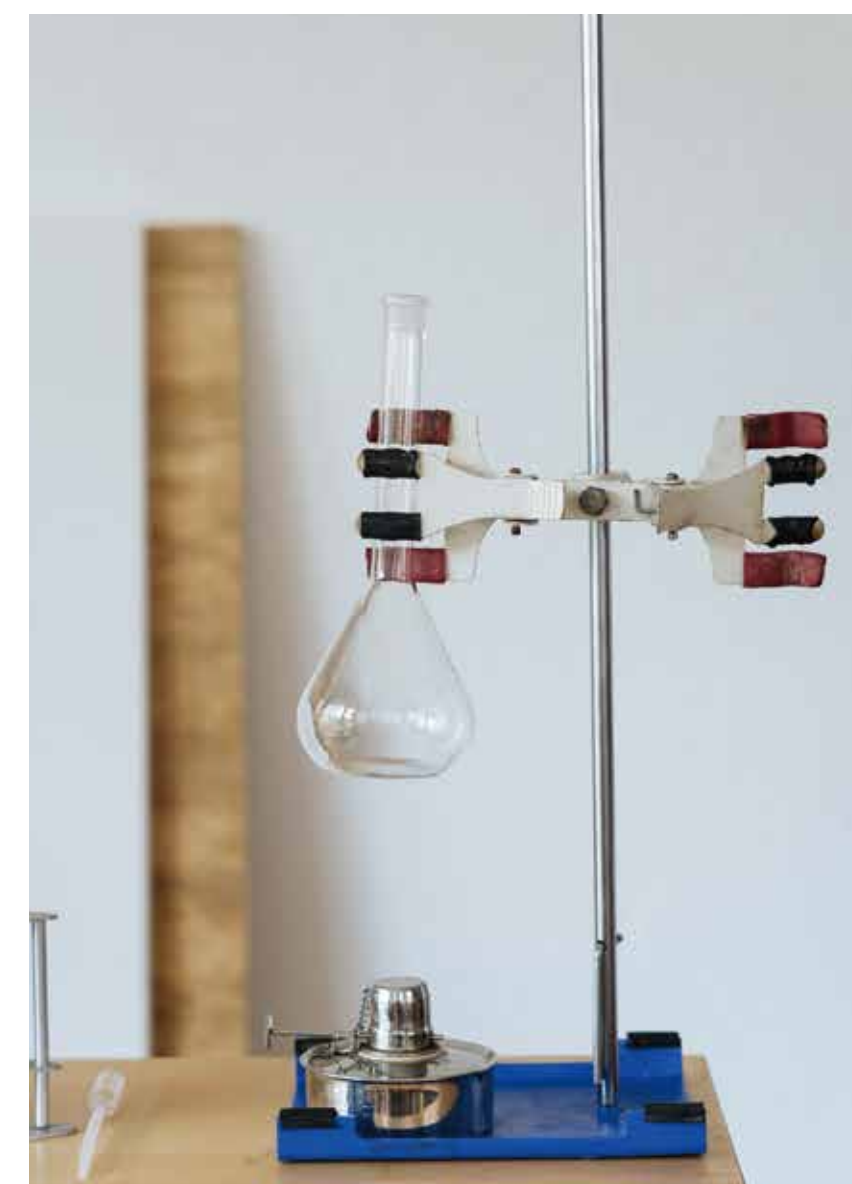
Anti-drying function, when the water level in the heating bath is lower than the heating tube, the machine will automatically power off.



The sealing system uses PTFE + fluororubber compound sealing.



Rotating and heating double fuses safety protection



The difference

REV-1005II

Upright single-layer serpentine coil as condenser.

Supporting products:

REV-1005II+Water Circulating
Vacuum PumpVACP-WC3Y+Low
Temperature Circulator RECL10-5



REV-1010II REV-1050II

Upright double-layer serpentine coil as condenser, main condensing+auxiliary condensing double condenser.



Specifications

Model	REV-1005II	REV-1010II	REV-1050II
Voltage/Frequency	220V 50Hz/110V 60Hz	220V 50Hz/110V 60Hz	220V 50Hz/110V 60Hz
Total Power	2100W	3100W	6640W
Rotary motor power	60W	60W	100W
Lifting motor power	40W	40W	40W
Heating power	2000W	3000W	6500W
Vacuum	0.095Mpa	0.095Mpa	0.095Mpa
Rotary flask volume	5L Φ230mm/ Φ80 flange port	10L Φ280mm/ Φ95 flange port	50L Φ470mm/ Φ125 flange port
Collecting flask volume	3L Φ195mm/upper Φ50 flange port×Φ35 flange port×2 pcs×lower Φ50 flange port	5L Φ230mm/upper Φ60 flange port×Φ35 flange port×2 pcs × lower Φ50flange port	20L Φ355mm/upper Φ60 flange port×Φ35 flange port×2pcs×lower Φ50 flange port
Rotary speed	0-120rpm	0-120rpm	0-120rpm
Temperature control range	Room temperature-180℃	Room temperature-180℃	Room temperature-180℃
Temperature control accuracy	±1℃	±1℃	±1℃
Bath lifting stroke	140mm	190mm	215mm
Condenser dimension	Φ120×600H(mm) side Φ50 flange port × lower Φ50 flange port	Main condenser Φ120×620H(mm), upper Φ60 flange port, lower Φ80 flange port Auxiliary condenser Φ135×475H(mm), upper Φ80 flange port, lower Φ60 flange port, side Φ60 flange port	Main condenser Φ160×835H(mm), upper Φ60 flange port, lower Φ80 flange port Auxiliary condenser Φ160×530H(mm), upper Φ80 flange port, lower Φ60 flange port, side Φ60 flange port
Condensing area	0.5 m ²	0.51(0.33+0.18) m ²	1.44(0.95+0.49) m ²
Gas cylinder	Left Φ35 flange port, side Φ50 flange port, right Φ50 flange port	Left Φ35 flange port, upper Φ35 flange port, side Φ60 flange port, right Φ60 flange port	Left Φ35 flange port, upper Φ35 flange port, side Φ60 flange port, right Φ70 flange port
Material feeding valve	Φ35 flange port, glass + PTFE valve, material feeding valve (pagoda joint) with 12mm outer diameter		
Temperature measuring port	/	Φ35 flange port, glass + PTFE valve, glass valve (pagoda joint) with 12mm outer diameter	/
Multi-function port	/	/	Φ35 flange port, glass + PTFE valve, glass valve (pagoda joint) with 12mm outer diameter
Releasing valve	Φ35 flange port×2, glass + PTFE valve, releasing valve (pagoda joint)with 12mm outer diameter		
Material discharging valve	Φ50 flange port, side discharging valve (pagoda joint) with 20mm outer diameter,		
	260mm from the ground	210mm from the ground	300mm from the ground
Vacuum nozzle	Pagoda joint with 10mm outer diameter	Φ60 flanged glass nozzle (pagoda joint)with 10mm outer diameter	Φ60 flanged glass nozzle (pagoda joint)with 10mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 16mm outer diameter		
Bath dimension/weight	Φ295×175H(mm) about 12L	Φ350×220H(mm) about 21L	Φ550×320H(mm) about 76L
Overall dimension(W*D*H)	980×480×1260mm	1130×470×1940mm	1390×700×2300mm
Net weight	46KG	64KG	97KG
Package Dimension(W*D*H)(mm)	800×450×1090 wooden package 0.39m ³	980×520×1190mm wooden package 0.61m ³	1230*630*1430
G.W.(kg)	68KG	101KG	142

Rotary Evaporator (Lab-scale)

REV-1000AX



The special bottle returning knob design makes bottle returning simple and convenient



Large screen color touch screen, multi data display, menu interface



Integrated glass rotating shaft, stable start, forward and reverse operation
Sealing parts: sealing imported PTFE special process mold synthesis

Features

- Commonly used experimental data storage, one-button start, fast distillation.
- Heating bath, Teflon coating, easy to clean, corrosion resistance, high temperature resistance.
- Built-in vacuum control system, automatic pressure relief, convenient and quick setting.
- Automatic lifting, with safety stop function, timing function design.
- With USB interface interface data export, printing function.
- Vertical, the condenser tube is designed with a drip point and an anti-backflow device.
- The heating bath is designed with a safety handle to prevent burns.



Safe operation function in unmanned mode, automatic standby after experiment.
The structure is compact and small, and it takes up less space.
Anti-dry protection, over-temperature power failure warning, automatic standby protection.

Specifications

Model	REV-1000AX
Use Range of Sample Bottle	25~1000ml
Rotation Speed	Touch screen display, 0~310rpm
Vacuum Control	Vacuum control range; 0~-0.1Mpa (0~1013mbar); precision ±1Mpa (, vacuum degree can be controlled arbitrarily. Automatic pressure release at the end of the experiment, jog/one-key pressure release function; 10-stage gradient distillation program control, step-by-step control of vacuum degree during synthesis experiment chromatography vacuum distillation; commonly used 40 kinds of experimental data storage, one-key start, fast distillation.
Evaporation Capacity	Max.25mL/min(H ₂ O)
Equipment Vacuum	The vacuum inside the equipment can reach 2mbar.
Temperature Adjustment Range	Water and oil dual-purpose bath, water bath: room temperature ~99°C, ±0.5; oil bath: room temperature ~210°C, ±2°C;
Material of Heating Bath	One-time forming Teflon coating, easy to clean, corrosion resistance, high temperature resistance; heating pot with safety handle, shell heat insulation, prevent scald, moderate volume, rapid heating; equipped with a transparent protective cover: heat preservation, energy saving, explosion-proof, anti-corrosion splash.
Bath Dimension	φ 20*11.5cm (approximately 3.5L), the sliding base of the heating bath can freely move 120mm to the right.
Sample Bottle	Forward rotation, reverse rotation, intermittent forward and reverse rotation, the intermittent time can be adjusted from 0 to 60s, which can be used for drying powder samples.
Temperature Control	Dual touch screen control system, digital display, over-temperature warning, automatic lifting, automatic pressure relief, and equipment shutdown functions.
Temperature Setting	Touch-type digital input setting, dual-screen control display, convenient and quick.
Safety Performance	Anti-dry over-temperature early warning, abnormal rotating motor early warning, automatic lifting of the sample bottle to the highest; Timing function (0~999min), when the preset time is reached, the equipment will automatically release the pressure, lift and lower the evaporating bottle automatically, and the equipment will be standby for early warning and protection.
Heater	Fully enclosed heater. Power 1kW
Sealing Parts	Imported PTFE special synthetic material is selected, and the abrasive tool is synthesized through special process technology to enhance sealing, corrosion resistance and wear resistance.
Condenser	Vertical, three-layer ball mill mouth serpentine condenser, condensation area 0.18m², with drop point and backflow design (effectively improve work efficiency).
Ambient Temperature	5~40 °C
Electricity	AC220V/50Hz
External Dimensions	55*36*64cm
Shipping Dimensions	67*50*46.5cm
G.W,	34kg
Factory Configuration	Sample bottle 1L*1; recovery bottle S35# ball mill mouth collection bottle 0.5L*1.

Rotary Evaporator (Lab-scale)

REV-2000AX REV-3000AX REV-5000AX



Rotary Evaporator With Digital Steam Sensing

Mainly used in medical and health, food, biological industry, agriculture and other industries

Features



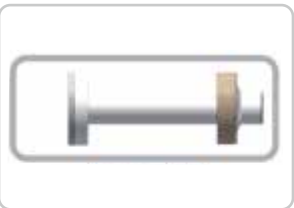
Vertical condenser with drip point design prevents backflow.



Anti-dry auto-lifting and automatic standby function.



Special design of bottle pulling switch, which is easy to disassemble the evaporation flask. (only REV-2000AX)



Vacuum protection design which prevents vapor from vacuum pump, so the vacuum pump is more durable.



Big color LCD screen with menu interface displaying several data; rotary switch easy to operate.



Heating bath with Teflon coating, which is easy to clean, anti-corrosive and high temperature resistant as well.



Sealing made up of imported PTFE with special technique.



Both touch screen control and button press type automatic lifting function



Oil and water heating bath with safe handle, whose temperature range is from room temperature to 210℃.



Intermittent positive and negative rotating function with timer function for drying process.



Unattended mode with safe operation function, which is in automatic standby mode after the experiment.



DC rotating motor of 70w power starts steadily.

Specifications

Model	REV-2000AX	REV-3000AX	REV-5000AX
Rotating Speed	Color LCD Screen; 0~310rpm	Color LCD Screen; 0~310rpm	Color LCD Screen; 0~310rpm (Evaporating flask≤ 3L) 0~200rpm (Evaporating flask≤ 5L)
Evap. Capacity	Max.25ml/min (H2O)	Max.27ml/min (H2O)	Max.43ml/min (H2O)
Temp. range/precision	Microcomputer PID controller; Water Bath: RT.-99℃±0.5℃; Oil Bath: RT.-210℃±2℃		
Bath Material	Integral Teflon compound heating bath with safe handle, which prevents from scald; the medium sized bath volume makes distillation fast.		
Bath Size	φ 23*13cm(about 5.4L)	φ 26*15cm(about 8L)	φ 29*17cm(about 11L)
Positive&Negative Rotating	Intermittent positive and negative rotating function with timing function (0-60s) for drying process.		
Lift	Automatic balance lifting which can be controlled by either button-press or Color LCD screen; the lifting length is 150mm, with fixed safety distance of 60mm, which prevents crashing.		
Temp. Set	Rotating switch coding for temperature setting with big LCD screen display.		
Safety	Anti-dry prevention function which makes flask automatic lifting; instrument will stop at the set timing (0-999min); automatic lifting and standby alarm protection in abnormal or over temperature state.		
Heater Power	1.5kW	1.5kW	1.5kW
Evaporating flask Volume	0.25~2L	0.25~3L	0.25~5L
Sealing	Imported PTFE and special complex compounded with special technique, which ensures good sealing and improves the anti-corrosion and durability property.		
Condenser	Vertical 3-layered coil condenser with big condensation area, equipped with drip point and backflow prevention, which effectively increases the evaporation efficiency.		
Condense Area	0.18㎡	0.21㎡	0.31㎡
Environment Temp	5℃~40℃		
Factory Configuration	29# grinding mouth integrated rotating shaft *1	Flange interface to 29# grinding interface*1	Flange interface to 29# grinding mouth interface *1
	Sample Bottle: 29# Eggplant bottle 1L*1	Sample Bottle: 3L flange mouth round bottom bottle *1,	Sample Bottle: F50 flange mouth round bottom bottle 5L*1,
	Recycling Bottle: S35 ball grinding mouth collection bottle 1L*1	29# eggplant bottle 1L*1; Recycling Bottle:S35 ball grinding mouth collection bottle 2L*1	29# eggplant bottle 1L*1;Recycling Bottle: S35 ball grinding mouth collection bottle 3L*1
Electricity	AC220V/50Hz		
Instrument Dimension(W*D*H)(mm)	660*420*830	700*430*860	740*440*960
Package Dimension(W*D*H)(mm)	740*670*530	710*645*790	810*710*890
G.W.(kg)	30	35	49
IP (Ingress Protection)	IP42		
Optional:	Vacuum controller for precise vacuum control.		
Warning:	The protection cap is only for water bath experiment. Please do not use in oil bath experiment.		

Rotary Evaporator

REV-2000A REV-2000B REV-2000C
REV-3000A REV-3000B REV-3000C



REV-2000A



REV-2000B



REV-2000C



REV-3000A



REV-3000B



REV-3000C

Introduction

The motor of REV-2000 series has 0-200rpm step-less speed regulation and automatic lifting function, the main body uses the aluminum alloy material, smooth, safe, and beautiful. Revolving body is consisted of a set of stable and reliable micro motors, speed motors and integrated circuit control devices. In the role of electronic speed, it can be rotated stably in 0-200rpm range.

Application



Chemical chemistry



Pharmaceutical Engineering



College experiment



Biomedical Science

Characteristics

REV-2000A: temperature digital display.
REV-2000B: temperature and speed dual-digital display.
REV-2000C: temperature and speed LCD display.

REV-3000A: temperature digital display
REV-3000B: temperature and speed dual-digital display
REV-3000C: temperature and speed LCD display

Supporting products



Specifications

Model	REV-2000A	REV-2000B	REV-2000C	REV-3000A	REV-3000B	REV-3000C
Screen	Temperature digital display	Temperature and speed dual-digital display	Temperature and speed LCD display	Temperature digital display	Temperature and speed dual-digital display	Temperature and speed LCD display
Glass material	GG-17			GG-17		
Stent material	Aluminium alloy			Aluminium alloy		
Bath material	Teflon composite pot, fully enclosed heating			Teflon composite pot, fully enclosed heating, $\varnothing 255\text{mm} \times \text{H}155\text{mm}$		
Rotary flask volume	1L 24# standard mouth,(2L optional)			3L, standard mouth		
Collecting flask volume	1L 35# ball mill mouth			2L, ball mill mouth		
Rotary power	Brush motor 40W brushless motor			Brush motor 40W brushless motor		
Rotary speed	0~200rpm			0~200rpm		
Heating power	1.2 kW			1.2kW		
Temperature control of bath	Room Temperature~99 C			Room temperature~99 C		
Temperature precision	$\pm 1\text{ C}$			$\pm 1\text{ C}$		
Elevating power	20W			20W		
Elevating stroke	120 mm			120 mm		
Voltage/frequency	220V/50Hz			220V/50Hz		
Exterior Dimension(W*D*H)(mm)	630*400*810			690*490*830		
Package Dimension (W*D*H)(mm)	640*640*500			640*640*500		
G.W.(kg)	23			27		
Supporting products	REV-2000A/REV-2000B/REV-2000C+Water Circulating Vacuum Pump VACP-WC3Y+Low Temperature Circulator RECL10-5			REV-3000A/REV-3000B/REV-3000C+Water Circulating Vacuum PumpVACP-WC3Y+Low Temperature Circulator RECL10-5		