

# Rotary Evaporator



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## Laboratory Desktop Rotary Evaporator

### 1. RE-201D 0.5~1L Rotary evaporator, digital RPM display, water bath manual lifting

#### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and biopharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.



#### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type sensor at the bottom of the pot + stainless steel probe, fast and accurate temperature transmission
- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

#### Specification parameters:

Model	RE-201D
Glass Material	GG-17
Bracket Material	Stainless steel
Material of pot shell	Spraying anticorrosion 370*300*260mm

Material of Pan gallbladder	Stainless steel 240*160mm
plate size	255*330mm
Rotating bottle volume	Eggplant shape 1L
Collect bottle volume	Spherical shape 1L
vacuum degree	0.098Mpa
Rotating power	30W
Rotating speed	0-120rpm
heating power	1.2KW
Temperature control range of bathtub	0-400°C
Rotating bottle volume	±1°C
Voltage/frequency(V/Hz)	220V/50Hz
Lifting trip	120mm
Shape size(mm)	760*300*800
Packing dimensions(mm)	890*460*420
Packing weight (KG)	21
Speed regulation mode	e-cvt
Speed display mode	digital display
Temperature display mode	K Type 1 sensor digital display
temperature control	Intelligent Temperature Control
Sealing method	Tetrafluoro Component Sealing
condenser	Vertical condenser80*370mm Ball mill mouth label
Lifting mode	Manual lifting of bathtub
Continuous Feeds	19#Label feeding valve
Vacuum display mode	Vacuum meter

## 2. RE-52A 0.5~1L Rotary evaporator with water bath, 120rpm, digital display, manual lifting



### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and biopharmaceuticals.
- The evaporation flask rotates at a constant speed and the water bath is heated at a constant temperature. Under these conditions: the material forms a large area of uniform thin film on the inner wall of the evaporation flask and evaporates quickly. The evaporation efficiency can be improved under vacuum conditions (a vacuum device needs to be connected). The solvent vapor passes through the glass condensation plate. The tube is cooled into liquid (need to be connected to a cooling device) and recovered in the collection bottle.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum

pump) and a cooling circulation device to form a system device.

### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type sensor at the bottom of the pot + stainless steel probe, fast and accurate temperature transmission
- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

### RE-52A Technical parameters of rotary evaporator

Model	RE-52A
Glass Material	GG-17
Bracket Material	Spraying anticorrosion
Material of pot shell	Spraying anticorrosion 250*365*150mm
Material of Pan gallbladder	Stainless steel 240*120mm
Rotating bottle volume	1L 24#Standard mouth
Collect bottle volume	0.5L 24#Standard mouth

Basic parameters	vacuum degree	0.098Mpa
	Rotating power	30W
	Rotating speed	0-120rpm
	heating power	1KW
	Temperature control range of bathtub	0-99°C
	control accuracy	±1°C
	Lifting trip	120mm
	Voltage/frequency (V/Hz)	220V/50Hz
	Shape size (mm)	700*440*1005
	Packing dimensions (mm)	590*460*460 0.12square
Packing weight (KG)	21	
Function Configuration	Speed regulation mode	e-cvt
	Temperature display mode	CU50 Type D Sensor Digital Display
	temperature control	Intelligent Temperature Control
	Sealing method	Tetrafluoro Component Sealing
	condenser	Vertical condenser 85*460mm 29# Standard mouth
	Lifting mode	Manual lift
Continuous Feeds	19# Label feeding valve	

### 3. RE-52AA 0.5~1L Rotary evaporator with water bath, 120rpm, digital display, auto lifting



#### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The evaporation flask rotates at a constant speed and the water bath is heated at a constant temperature. Under these conditions: the material forms a large area of uniform thin film on the inner wall of the evaporation flask and evaporates quickly. The evaporation efficiency can be improved under vacuum conditions (a vacuum device needs to be connected). The solvent vapor passes through the glass condensation plate. The tube is cooled into liquid (need to be connected to a cooling device) and recovered in the collection bottle.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

#### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type sensor at the bottom of the pot + stainless steel probe, fast and accurate temperature transmission
- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

#### Specification parameters:

Basic parameters	Model	RE-52AA
	Glass Material	GG-17
	Bracket Material	Spraying anticorrosion
	Material of pot shell	Spraying anticorrosion 250*365*150mm
	Material of Pan gallbladder	Stainless steel 240*120mm
	Rotating bottle volume	1L 24#Standard mouth
	Collect bottle volume	0.5L 24#Standard mouth
	vacuum degree	0.098Mpa
	Rotating power	30W

	Rotating speed	0-120rpm
	heating power	1KW
	Temperature control range of bathtub	0-99°C
	Rotating bottle volume	±1°C
	Lifting power	15W1/15
	Lifting trip	120mm
	Voltage/frequency(V/Hz)	220V/50Hz
	Shape size(mm)	700*440*1005
	Packing dimensions(mm)	590*460*460 0.12square
	Packing weight (KG)	21
Function Configuration	Speed regulation mode	e-cvt
	Temperature display mode	CU50Type 1 sensor digital display
	temperature control	Intelligent Temperature Control
	Sealing method	Tetrafluoro Component Sealing
	condenser	Vertical condenser85*460mm 29#Standard mouth
	Lifting mode	Host automatic lifting
	Continuous Feeds	19#Label feeding valve



## 4. RE-5299 0.5~1L Rotary evaporator water bath, 120rpm, digital display, auto



cooling circulation device to form a system device.

### lifting

#### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a

#### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type sensor at the bottom of the pot + stainless steel probe, fast and accurate temperature transmission
- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

#### Specification parameters:

Basic parameters	Model	RE-5299
	Glass Material	GG-17
	Bracket Material	Spraying anticorrosion
	Material of pot shell	Spraying anticorrosion 265*310*80mm
	Material of Pan gallbladder	Stainless steel 250*140mm
	Rotating bottle volume	1L 24#Standard mouth
	Collect bottle volume	0.5L 24#Standard mouth
	vacuum degree	0.098Mpa
	Rotating power	30W
	Rotating speed	0-120rpm

	heating power	1KW
	Temperature control range of bathtub	0-99°C
	Rotating bottle volume	±1°C
	Lifting power	15W1/15
	Lifting trip	120mm
	Voltage/frequency(V/Hz)	220V/50Hz
	Shape size(mm)	770*440*1005
	Packing dimensions(mm)	590*460*460 0.12square
	Packing weight (KG)	21
Function Configuration	Speed regulation mode	e-cvt
	Temperature display mode	CU50Type 1 sensor digital display
	temperature control	Intelligent Temperature Control
	Sealing method	Tetrafluoro Component Sealing
	condenser	Vertical condenser 85*460mm 29#Standard mouth
	Lifting mode	Host automatic lifting
	Continuous Feeds	19#Label feeding valve

## 5. RE-2010 1L Rotary evaporator with water bath, digital display, 20~195rpm, (Optional 500-3000ml)



### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

### Features

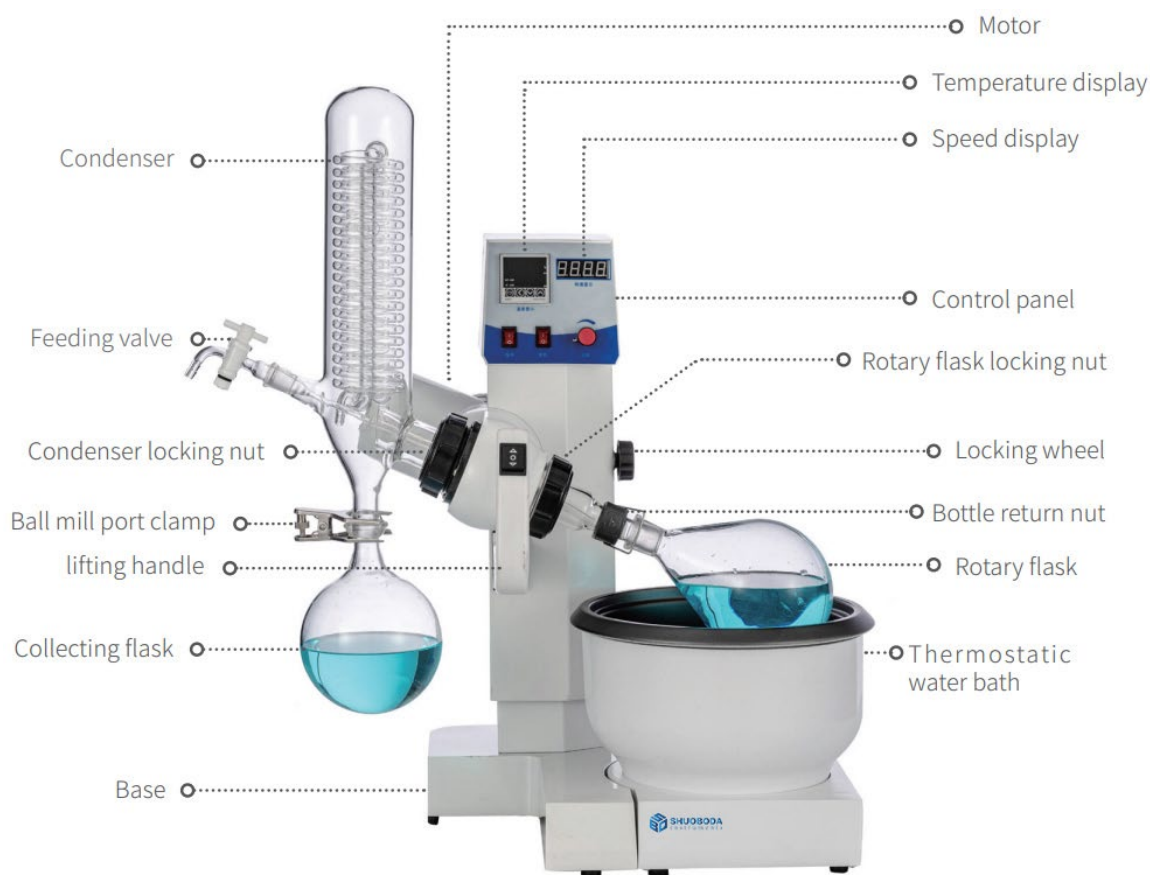
- The parts in contact with the materials are all made of high borosilicate glass (expansion coefficient 3.3) and PTFE materials, which have stable performance and are not easy to react with materials, making it convenient and safe to use.
- The main bracket is made of aluminum alloy material, and the water bath liner is made of 304 stainless steel, which is durable and beautiful.
- Adopting a PTFE+ fluor rubber composite sealing system, which can maintain a high vacuum degree.
- The piston type feeding valve is sleeved with a PTFE extension pipe, which can continuously feed material into the evaporation flask under vacuum, making it convenient to use.
- Integrated condenser with upright double- layer serpentine coil ensures high recovery rate.
- Rotating heating controlled by power switch, convenient operation with the ON-OFF button.
- Electronic & stepless speed regulation, with fine adjustment by knob and digital display of speed, simple and easy to operate.
- Temperature digital display on bath, PT100 sensor at the bottom + stainless steel probe, fast and accurate temperature transmission.
- The main machine can be manually lifted, and the sliding lifting and manual lifting functions can be selected according to needs.
- The rotating and heating dual fuse have high safety protection performance.
- Equipped with a transparent organic glass protective cover to prevent hot liquid splashing out of the bath, ensuring safe operation.

### Specification parameters:

Model	RE-2010
Glass Material	GG-17
Bracket Material	Aluminum alloy
Material of Pan gallbladder	Aluminum alloy + Teflon composite pot, fully closed heating
Rotating bottle volume	1L 29 #Standard mouth (Optional 500-3000ml)
Collect bottle volume	1L 35#Ball mill
vacuum degree	0.098Mpa
Rotating power	40W
Rotating speed	20-195rpm

heating power	1.5KW
Evaporating capacity	20ml/min (water)
Temperature range	0-99°C ±1°C
Lifting trip	100mm+150mm(Sliding Lift + Manual Lift)
Voltage/frequency(V/Hz)	220V/50Hz
Shape size(mm)	550*400*780 (1040)
Packing dimensions(mm)	720*525*385
Packing weight (KG)	16
Speed regulation mode	e-cvt
Temperature display mode	PT100sensordigital display
temperature control	Intelligent Temperature Control
Sealing method	Teflon + Fluorine Rubber Double Seal Ring
condenser	Manual Weight Balance Square
Lifting mode	Vertical condenser $\varnothing$ 85*430mm, Optional Inclined condenser
Continuous Feeds	19#Label feeding valve
Security function	Overload Protection Function (Safety Pipe)

## 6. RE-2000 series 1L Rotary evaporator with Teflon water bath, 0-180rpm, auto lifting, temperature LCD display



Schematic diagram of RE-2000B rotary evaporator  
(Digital display of temperature&speed)

### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.



RE-2000B controller  
(Digital display of temperature&speed)



RE-2000A controller  
(Digital display of temperature)

- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.
- RE-2000 series rotary evaporator is the latest intelligent rotary evaporator developed by our company. The device uses two-line large-capacity blue backlight liquid crystal display as the human-machine interface of the device. In the control part, the high-performance single chip computer is used as the main control chip, and the control object is formulated. Using special control program, the whole machine is beautiful

and graceful, stable performance, and the device is reserved. Upgrade the interface, according to different customer needs, by upgrading the software can meet user requirements. Host shock button, fast automatic lifting, lifting distance 0-150 mm



RE-2000E controller  
(LCD display of temperature&speed)

## Features

- Low-noise design makes the working environment quiet and comfortable.
- A reliable sealing system, using a combination of TFE + fluor rubber sealing to maintain a high vacuum degree.
- Mechanism design for quick assembly and disassembly of rotating flask.
- High borosilicate glass (expansion coefficient 3.3), with high strength, high temperature resistance, and corrosion resistance.
- The rotating and heating dual fuse have high safety protection performance.
- Electric lifting of the main unit.
- Integrated condenser with upright double-layer serpentine coil to ensure high recovery rate.

R E - 2 0 0 0 B

①                      ②

① Model code

② A:Digital display of temperature;

B:Digital display of temperature&speed;

E:LCD display of temperature&speed;

## Specification parameters:

Basic parameters	Model	RE-2000A/ RE-2000B/ RE-2000E
	Glass Material	GG-17
	Bracket Material	Aluminum alloy
	Material of Pan gallbladder	Teflon composite pot, fully closed heating
	Rotating bottle volume	1L 24#Standard mouth
	Collect bottle volume	1L 35#Ball mill
	vacuum degree	40W
	Rotating power	0-180rpm
	Rotating speed	1.5KW
	heating power	0-99°C
	Temperature control range of bathtub	±1°C
	Lifting power	15W
	Lifting trip	120mm
	Voltage/frequency(V/Hz)	220V/50Hz
	Shape size(mm)	660*420*830
	Packing dimensions(mm)	630*560*540 0.19square
	Packing weight (KG)	26
Function Configuration	Speed regulation mode	e-cvt
	Temperature Display Square	PT100 sensor digital display
	Temperature display mode	Intelligent Temperature Control
	temperature control	Teflon Seal
	Sealing method	Host automatic lifting
	condenser	Vertical condenser85*430mm
Lifting mode	19#Label feeding valve	
Optional configuration	Heating square	Oil bath 0-400°C
	Material of bathtub	whole304Stainless steel
	Splash-proof device	Transparent cover for bathtub

Our laboratory glass and experimental instruments are all independently developed and can be tailored to the actual requirements of customers.

## 7. RE-2S-VD 1L Water Bath Rotary Evaporator, Rotovap, 180rpm, double LCD display, Slide lift + Manual lift



### Brief description:

The rotating evaporator manufacturer RE-2S-VD was developed using the principle of vacuum negative pressure, constant temperature heating, and thin film evaporation. The imported high-end frequency converter is used to control the stepless speed adjustment to make the glass rotating bottle rotate at a constant speed. The material forms a large area of uniform film on the wall of the bottle, and then the controlled constant warm water bath is evenly heated to the rotating bottle and evaporates at high speed under vacuum conditions. The solvent vapor is cooled by an efficient glass double condenser and recovered in a collection bottle. The instrument is also equipped with a feed interface and a discharge mechanism to facilitate automatic and continuous work during evaporation.

### Specifications:

model	RE-2S-VD
Glass	GG-17
Support Material	aluminium alloy
Boil material	Aluminum alloy + Teflon composite pot, fully enclosed and heated
Rotary bottle volume	1L
Collection bottle volume	1L
Rotary power	40W
Spin speed	10-180rpm
Evaporation capacity	20ml/min (Evaporation of water )
vacuum	0.098Mpa
Heating power	1.5KW
Bath temperature range	0-99°C
Temperature control accuracy	±1°C
Elevation stroke	100mm+150mm (Slide lift + Manual lift )
Voltage / Frequency (V/Hz)	220V/50Hz
Shape Size	560*320*660mm
Bile size in water bath pan	Φ260*h140
weight	10KG
Speed regulating mode	Electronic stepless speed adjustment LCD display
Temperature Display	LCD display
Temperature control method	Smart temperature control
Seal way	Teflon + Fluoride Double Seal Ring
Lift mode manual	Manual Weight Balancing
condenser	Vertical Condenser Double Snake Tube
Continuous Feeds	19# Label feeding valve
Safety function	Overload Protection Function (Safety Pipe)

## 8. RE-100S 1~3L Rotary Evaporator, 20~200rpm, 180C, LED, manual lifting



USB connector



Chemical resistance



Overheating protection



Compatible with all range of glassware

RE-100S LED Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. It can be combined with vacuum pump, vacuum controller and circulating chiller to provide excellent distilling solutions in a wide range of applications.

### Features:

- 5L heating bath with a wide temperature range (room temp.to180°C), independent temperature control, make it can be used separately. Water/ oil heating mode can be changed only through a switch.
- Manual lift combined with auxiliary lift for precise positioning of the glassware.
- PID control ensures high temperature accuracy at  $\pm 1^{\circ}\text{C}$  (water).
- Overheating protection temperature at  $220^{\circ}\text{C}$
- Boil-dry protection, automatically power off if heating without water/oil in the heating bath.
- Speed range from 20 to 200rpm, timing interval operation in clockwise and anticlockwise directions for drying process.
- Patented condenser (cooling surface 1200/1700cm<sup>2</sup> for selection), double helix condensing tube + center circular arc design to speed up the flow rate of liquid with excellent cooling effect.
- Ejection mechanism ensures easy exchange of evaporating flask
- Adjustable immersion angle
- Patented double spring sealing ring which is made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission.
- Compatible with the entire range of RE-100P glassware.
- Optional glassware with explosion proof film available



- High temperature warning when above 50°C

### Specifications:

Model	RE-100S
Motor Type	Brushless DC motor
Speed Range	20-200rpm
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 110mm + auxiliary100mm
Interval Time Setting Range	1~999s
Dimension [D×W×H]	Main Unit 440×320×450mm Heating Bath 300×300×240mm
Weight	Main Unit 7kg, Heating Bath 3kg
Permissible Ambient Temperature	5~40°C
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Voltage/Frequency	100~120/200~240V 50/60 Hz
Power	1100 W

### Standard configuration of RE-100S

Model	Descriptions
RE-100S	Rotary Evaporator with one set of glassware vertical (1000ml) or diagonal (1000ml)

RE-100S Rotary Evaporator is a complete system include glassware and heating bath ready for work

### Spare parts of RE-100S

Cat. No.	Descriptions	Volume
23900165	Glassware vertical, including condenser, evaporating flask (NS 29/32) and receiving flask (KS 35/20)	1000ml
23900173	Glassware vertical, including condenser, evaporating flask (NS 24/40) and receiving flask (KS 35/20)	1000ml
23900163	Glassware diagonal, including condenser, evaporating flask (NS 29/32) and receiving flask (KS 35/20)	1000ml
23900171	Glassware diagonal, including condenser, evaporating flask (NS 24/40) and receiving flask (KS 35/20)	1000ml
23900201	Heating Bath of Rotary Evaporator, 220V	5L
23900202	Heating Bath of Rotary Evaporator, 110V	5L

### Flasks

Cat. No.	Descriptions	Volume	Size
18300116	Evaporating flask	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
18300655		50ml	NS24/40
18300201		100ml	NS 24/40
18300202		250ml	NS 24/40
18300203		500ml	NS 24/40
18300204		1000ml	NS 24/40
18300205		2000ml	NS 24/40
18300107	Receiving flask	100ml	KS 35/20
18300108		250ml	KS 35/20
18300109		500ml	KS 35/20
18300110		1000ml	KS 35/20
18300111		2000ml	KS 35/20
18300094	Connector	/	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
23900193		/	NS 24/40, NS 29/42
18300093	Foam brake	250ml	NS 29/32
18300207		250ml	NS 24/40
18100998	Vapor tube	/	NS 29/32
18300206		/	NS 24/40
23900194	Distillation spider for simultaneous distillation from 5 evaporating flasks (Without flasks)	50mL	NS 29/32
23900177		50mL	NS24/40

### Optional items

Cat. No.	P/N	Descriptions	Power supply
18202027		Rubber ring with airtight lip-seal from a PTFE compound with a built-in stainless-steel spring	
23900362		Full fluorine ether rubber ring with airtight lip-seal from a PTFE compound with a built-in stainless-steel spring	
23900190		Evaporation flask clip(red)	CS002440
23900188		Evaporation flask clip(green)	CS002942
23900186		Vacuum regulator /moisture trap (including the vacuum meter and pressure regulating valve)	
23900254	DP-0.5II	Anti-corrosion Diaphragm vacuum pump	220V/50Hz
23900260	LCC400	Closed Circulation Chiller (-15°C)	220V/50Hz

## 9. RE-100P 1~3L Digital Rotary Evaporator, 20~280rpm, 180°C, oil bath, Electric Rotovap

LCD Digital Rotary Evaporator is an essential instrument in organic and pharmaceutical labs to remove low boiling solvents from a flask and to get the requested compound out of the solution by heating a rotating flask that contain the user sample in a reduced pressure environment.



### Features

- Easy to read large digital LCD screen displays heating temperature, rotation speed and timing
- Speed range from 20 to 280 rpm
- Large 5L water-oil heating bath with heating temperature range of RT to 180°C
- Heating bath with precise temperature control and adjustable safety circuit
- Designed a detachable operating panel allows remote control

Patented condenser(cooling surface 1,500 cm<sup>2</sup>) with excellent cooling effect

- Motorized lift with quick-action, automatic release evaporating flask to top position in case of power failure
- Adjustable final position recognition to protect operator and sample against breakage
- Evaporating flask with an ejector, convenient to remove
- Available with timer function to precise control processing
- Chemical-resistant double PTFE system and patented pressure spring provide excellent sealing
- PC can control and document all parameters via USB

### Specifications:

Voltage [VAC]	100-120/200-240
Frequency [Hz]	50/60
Power [W]	1400
Motor Principle	DC brushless motor
Speed Range [rpm]	20-280
Speed Display	LCD
Reversible Direction of Rotation	Yes
Heating Temperature Range [°C]	RT-180
Heat Control Accuracy [°C]	±1
Heat Output [W]	1300
Temperature Display	LCD
Lift	Motor
Stroke [mm]	150

Timer	Yes
Timer Display	LCD
Time Setting Range [min]	1-999
Overall Dimensions [ D×W×H mm]	465×457×583
Weight	15kg
Permissible Ambient Temperature	5-40°C
Permissible Relative Humidity	80%
Protection Class acc. To DIN EN60529	IP20
USB	Yes

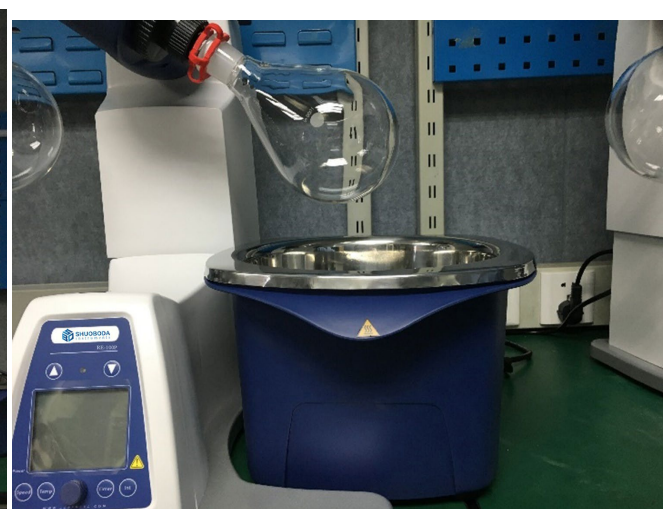
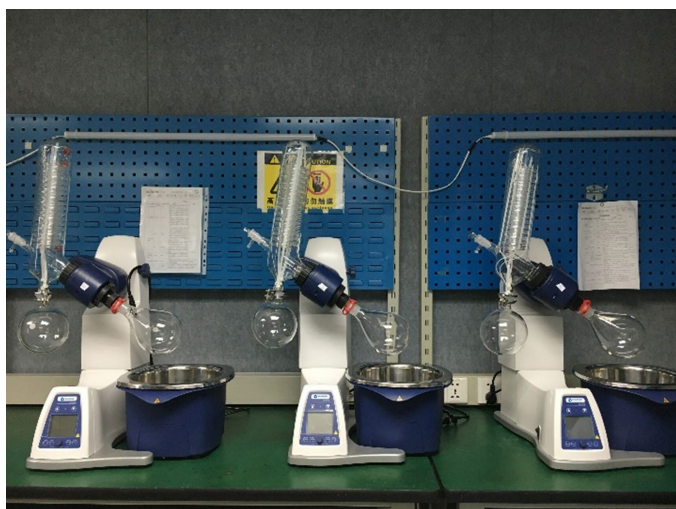
## Standard configuration

Model	Descriptions
RE-100P	Rotary Evaporator with one set of glassware vertical (1000ml) or diagonal (1000ml)

## Optional items

Cat. No.	Descriptions	Volume	Size
18300117	Evaporating flask	100ml	NS 29/32
18300118		250ml	NS 29/32
18300119		500ml	NS 29/32
18300120		1000ml	NS 29/32
18300121		2000ml	NS 29/32
18300107	Receiving flask	100ml	KS 35/20
18300108		250ml	KS 35/20
18300109		500ml	KS 35/20
18300110		1000ml	KS 35/20
18300111		2000ml	KS 35/20
18300094	Connector	/	NS 29/32, NS24/29
18300095		/	NS 29/32, NS19/26
18300096		/	NS 29/32, NS14/23
18300093	Foam brake	250ml	NS 29/32
18100998	Vapor tube	/	NS 29/32
18100200	Glassware dry ice	1000ml	
18100201	Additional set of glassware vertical	a set	include condenser, Evaporator flask and receiving flask
18100202	Additional set of glassware diagonal	a set	
18100203	Additional set of glassware dry ice	a set	
18100204	Additional set of glassware vertical coated	a set	
18100205	Additional set of glassware diagonal coated	a set	
18100206	Additional set of glassware dry ice coated	a set	

## Product Show



## 10.RE-301 0.5L~3L Rotary evaporator with water bath manual lifting, digital display, Teflon double seal



### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

### Features

1. Condenser suction nozzle is lower, which is safer after connecting with vacuum tube.
2. Modular design with strong expansibility
3. Easy lifting operation, smooth upward and downward movement, and easy locking.
4. Special motor, worm gear and worm drive smoothly
5. Speed display, easy to operate and intuitive
6. Temperature is controlled by PID, and temperature is controlled accurately.
7. Bath and host are separated for flexible configuration.



### Specifications:

Model	RE-301(RE-301EX)
Glass Material	GG-17
Bracket Material	Stainless steel
Material of pot shell	Spraying anticorrosion 290*296*240mm
Material of Pan gallbladder plate size	Stainless steel 255*170mm 350*330mm
Rotating bottle volume	3L $\phi$ 50Flange mouth
Collect bottle volume	2L 35#Ball mill
Vacuum degree	0.098Mpa
Rotating power	40W
Rotating speed	0-120rpm
Heating power	2KW
Temperature range of bath	0-400°C
Rotating bottle volume	$\pm$ 1°C
Voltage/frequency(V/Hz)	220V/50Hz
Lifting trip	120mm
Shape size(mm)	660*330*970mm



Packing dimensions(mm)	1000*460*450 0.21square
Packing weight (KG)	38
Speed regulation mode	e-cvt
Speed display mode	digital display
Temperature display mode	K Type 1 sensor digital display
Temperature control	Intelligent Temperature Control
Sealing method	Tetrafluoro Component Sealing
Condenser	100*510mm
Lifting mode	Manual lifting of bathtub
Continuous Feeds	19#Label feeding valve
Vacuum display mode	Vacuum meter



Note: All models can be equipped with ex-proof options. The ex-proof type is equipped with ex-proof motors, ex-proof frequency converters, ex-proof control meters, and ex-proof tube with cable. Other parameters are consistent with the common model, except the motor power varies.

## 11. RE-3000 series 3L Rotary evaporator with water bath, 0~180rpm



### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

### Features

- The parts in contact with the materials 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 materials, making it convenient and safe to use.
- The main bracket is made of aluminum alloy material, and the water bath liner is made of 304 stainless steel, which is durable and beautiful.
- Adopting a PTFE+ fluor rubber composite sealing system, which can maintain a high vacuum degree.
- The piston type feeding valve is sleeved with a PTFE extension pipe, which can continuously feed material into the evaporation flask under vacuum, making it convenient to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotating heating controlled by power switch, convenient operation with the ON-OFF button.
- Electronic & stepless speed regulation, with fine adjustment by knob and digital display of speed, simple and easy to operate.
- Temperature digital display on bath, PT100 sensor at the bottom + stainless steel probe, fast and accurate temperature transmission.
- The main machine can be manually lifted, and the sliding lifting and manual lifting functions can be selected according to needs.
- The rotating and heating dual fuse have high safety protection performance.
- Equipped with a transparent organic glass protective cover to prevent hot liquid splashing out of the bath, ensuring safe operation.

### Specifications:

Model	RE-3000A	RE-3000B	RE-3000E
<b>Glass Material</b>	GG-17		
<b>Bracket Material</b>	Aluminum alloy		
<b>Material of Pan</b>	Aluminum alloy+Teflon composite pot, fully closed heating,250*130mm		
<b>Rotating bottle volume</b>	3L $\varnothing$ 50Flange mouth		



Collect bottle volume	2L 35#Ball mill		
vacuum degree	40W		
Rotating power	0-180rpm		
Rotating speed	1.5KW		
heating power	0-99°C		
Temperature control range	± 1°C		
Lifting power	15W		
Lifting trip	120mm		
Voltage/frequency(V/Hz)	220V/50Hz		
Shape size(mm)	660*420*830		
Packing dimensions(mm)	630*560*540 0.19square		
Packing weight (KG)	30		
e-cvt Display mode	N/A	digital display	LCD screen
Speed display mode	digital display		
Temperature display mode	PT100 sensor digital display		
temperature control	Intelligent Temperature Control		
Sealing method	TFL+FL Bidirectional Seal		
condenser	Host automatic lifting		
Lifting mode	Vertical condenser100*510mm		
Continuous Feeds	19#Label feeding valve		



## 12. RE-501 5L Rotary evaporator with water bath manual lifting, digital display, 120rpm



### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

### Specifications:

Parameters	Model	RE-501	
Basic parameters	Glass Material	GG-17	
	Bracket Material	Stainless steel	
	Material of pot shell	Spraying anticorrosion 310*320*240mm	
	Material of Pan gallbladder	Stainless steel 280*170mm	
	plate size	350*330mm	
	Rotating bottle volume	5L $\phi$ 50Flange mouth	
	Collect bottle volume	3L 35#Ball mill	
	vacuum degree	0.098Mpa	
	Rotating power	40W	
	Rotating speed	0-120rpm	
	heating power	2KW	
	Temperature of bath	0-400°C control, 0~180°C heating	
	Rotating bottle volume	$\pm$ 1°C	
	Voltage (V/Hz)	220V/50Hz	
	Lifting trip	150mm	
	Shape size(mm)	700*335*1009mm	
	Packing dimensions(mm)	1040*620*410 0.26square	
	Packing weight (KG)	38	
	Function Configuration	Speed regulation mode	e-cvt
		Speed display mode	digital display
Temperature display mode		KType 1 sensor digital display	
temperature control		Intelligent Temperature Control	
Sealing method		Tetrafluoro Component Sealing	
condenser		Vertical condenser100*590mm	
Lifting mode		Manual lifting of bathtub	
Continuous Feeds		19#Label feeding valve	

Discharge square	Tetrafluoride discharge valve ∅ 50Flange mouth
Vacuum display mode	Vacuum meter

### 13. RE-501EX 5L Explosion-proof Rotary evaporator with water bath, electric lifting, 120 rpm



#### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

#### Functions and characteristics

- The main support adopts 304 stainless steel + aluminum alloy with reasonable structure and exquisite material.
- The sealing system is composed of PTFE and imported fluoro rubber, which can maintain high vacuum.
- Vacuum pressure gauge shows real-time vacuum with a vacuum of 0.098Mpa.
- The glass parts are all made of high borosilicate glass (GG-17), which is high temperature resistant and corrosion resistant.
- Continuous feeding is convenient for customers. Valve feeding pipe is socketed with tetrafluoroethylene pipe.
- Vertical double-layer serpentine coil condenser ensures high recovery and additional material pipes.
- Microcomputer ON-OFF power switch control.
- Digital display of bathtub, intelligent constant temperature control, KType 1 sensor to transfer temperature quickly and accurately.
- Electronics Poleless Speed Regulation (0-120 rpm), Speed Digital Display, Torsion Setting, Easy to operate.
- Fuse safety protection.
- Quality 304 stainless steel is used for pot gall bladder, which is anti-corrosion and durable.
- Rise and fall of bathtub handwheel.
- The collecting bottle is equipped with a feeding device to facilitate the collection and feeding of evaporative extracts.
- Explosion-proof speed regulating box EXDIIBT4
- The collecting bottle is equipped with a feeding device to facilitate the collection and feeding of evaporative extracts.
- Explosion-proof speed regulating box EXDIIBT4

### Technical parameter

Model	RE-501EX
Power supply voltage	220V/50HZ (customizable 110V/60HZ)
Motor power	EX90W explosion-proof mark EXDIIBT4
Heating power	2KW
Vacuum	0.098 Mpa
Rotary bottle capacity	5000ML 230mm/50mm flange
Collection bottle capacity	3000ml 195mm/35 ball mill
Rotation speed	0-120 rpm/min
Temperature Control Range	0-400 degrees Celsius
Temperature Control Accuracy	+1
Lifting trip	0-150 (mm)
Condenser size	100*590H(mm)
Feeding Valve	19 # Mark
Discharge valve	50mm flange outlet Tetrafluoride discharging valve
Bath pot size capacity	280 * 170H (mm) about 8.6L
The size of pot shell	310L x 320W x 240H (mm)
Baseplate size	350L * 330W (mm)
Shape size	700L * 335W * 1009H (mm)
Packing dimensions	1010L * 610W * 470H (mm) wooden box 0.29m.
Packing weight	41KG

## 14. RE-5000 3~5L water/oil bath Rotary Evaporator, auto lift



disassembly and clean.

### Features:

- Water bath and oil bath dual use.
- Temperature range: room temperature -180 °C.
- Heating power, 1500w
- The temperature is higher than the set temperature, the heating tube

[www.shuoboda.com](http://www.shuoboda.com)

### Bath pot features:

- Transparent shield, thermal insulation, energy saving, explosion-proof, splash-proof, rust-proof, anti-pollution, improve safety performance.
- The water bath pot, small size, rapid warming. Heating pot using Teflon composite pot, easy to clean. Steam guide rail combines the advantages of rotary sealing system abroad.
- RE-5000 model is the integrated oil bath and water bath dual used rotary evaporator developed by our factory. The whole design elegant, reasonable and compact, simple and convenient for operation, precise temperature control and reliable performance. Strong, durable. Specially designed steam pipe, vacuum sealing system consist of PTFE composite materials, long life, good sealing effect, processed by a special process technology to enhance sealing, corrosion resistance and abrasion resistance. Steam sealed tube with integrated design, to prevent cross-contamination, and extremely easy to



automatically stop heating.

- 8-liter capacity water bath pot can use 3000ML-5000ML flask.
- Rocker type electric up and down, fast automatic up and down, 0-150 mm
- Evaporating flask rotate speed 0-200 r / min, power 40W
- The instrument total power: 1.5KW, Voltage: 220V50HZ Cooler: vertical, inclined, cold pit
- High temperature resistance qualified glass double reflux integrated standard mouth condenser pipe with standard mouth collected bottles, easy to configure.
- Feeder: Valve type feeding tube with tetrafluoroethylene tube, tetrafluoroethylene pipes and water retaining ring.
- Sealing ring: PTFE vacuum sealing ring
- Rocker type buttons: Upper rocker pressing the host machine to up, lower rocker pressing the host machine to down.
- Nut with ring: rotate clockwise automatically fasten the bottle, rotate anticlockwise fast to shirk the rotating bottle. Stepless speed control by Knob.
- When the host machine adjusting the angle: Loosen or tighten with the Knob.
- The host machine using stainless steel, rust-proof aluminum, special engineering plastics, compact, attractive appearance, durable, and practical.
- Equipped with air duct type cooling device.



## Technical parameter

Model	RE-5000
Voltage & Frequency V/Hz	220/50 110/60
Total power W	1560
Rotating motor power W	40 (Brushless DC motor)
Lifting motor power W	20
Heating power W	1500
Control panel	L CD display of t emperature & speed
Vacuum Mpa	0.098
Rotary flask capacity L	5L Φ230mm
Collecting flask capacity L	3L Φ195mm
Rotating speed rpm	0-250
Temperature control range °C	RT-99(RT-180 °C can be customized)
Temperature control accuracy °C	±1
Lifting stroke of the main machine mm	90
Condensing area m <sup>2</sup>	0.26
Water bath capacity mm/L	Φ275 × 160H About 9.5L
Overall dimension mm	690W × 440D × (825-915) H
Net weight KG	30

## Standard configuration:

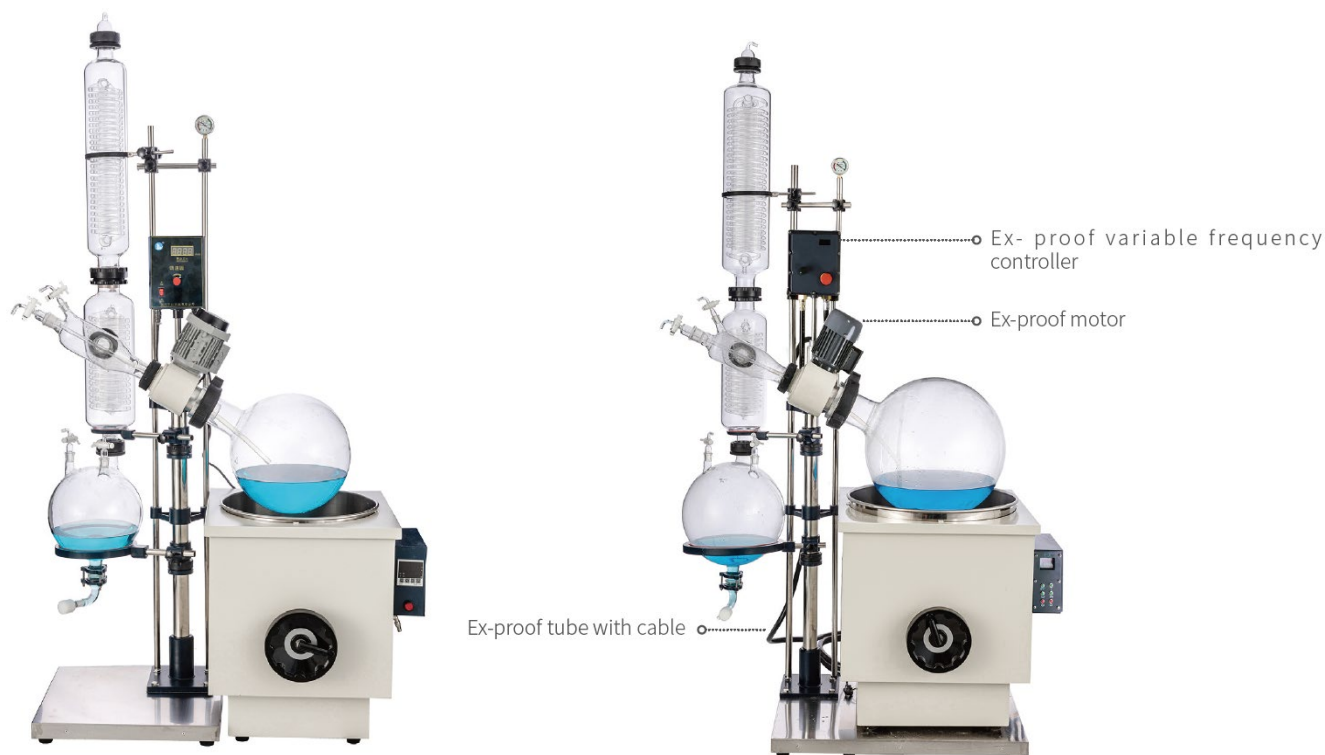
collection bottle 1 L, 2 L each one

Rotating bottle 2 L, 3 L each one

## Pilot-stage rotary evaporator

### 1. RE-1002 10L Rotary evaporator with water bath, Manual lifting digital display

#### Rotovap



#### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

#### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.

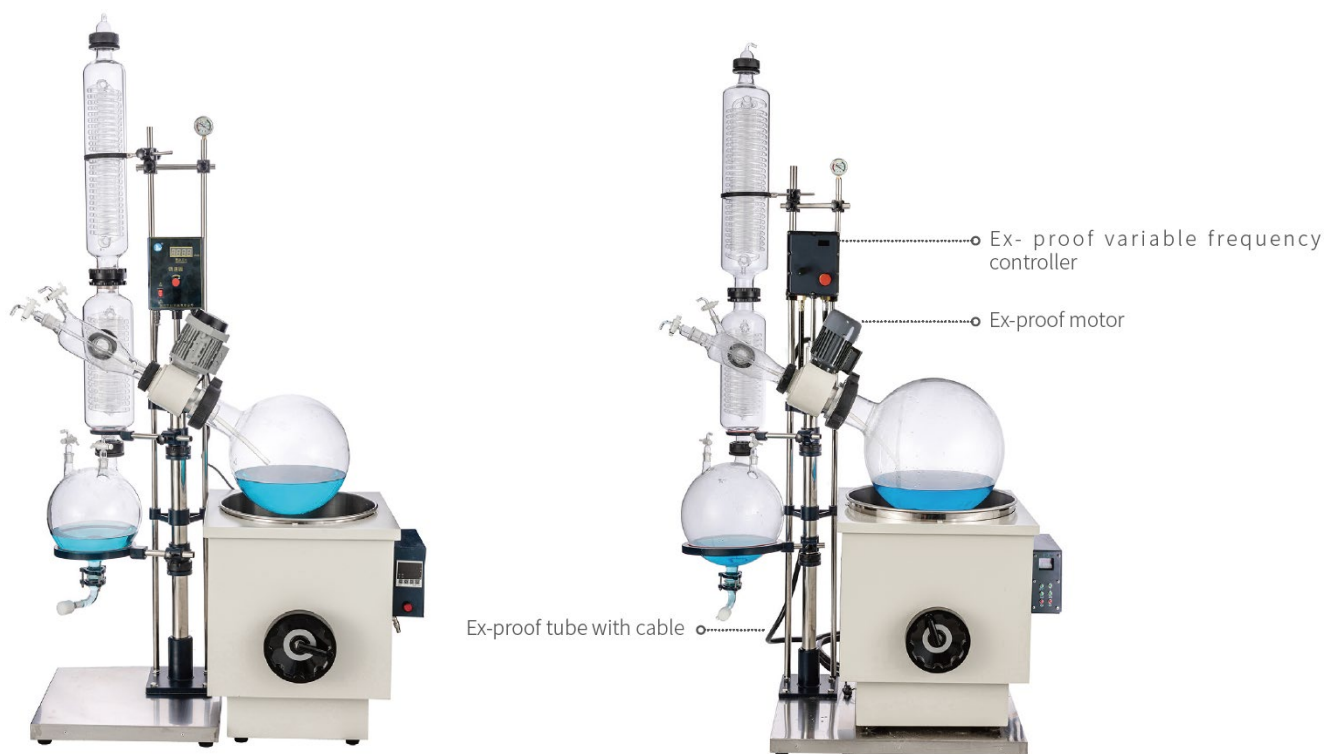
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type sensor at the bottom of the pot + stainless steel probe, fast and accurate temperature transmission
- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

### Technical parameter

Basic parameters	Model	RE-1002	RE-1002EX explosion-proof
	Glass Material	GG-17	GG-17
	Bracket Material	Stainless steel	304Stainless steel
	Material of pot shell	Spraying anticorrosion 490*430*540mm	Spraying anticorrosion 490*430*540mm
	Material of Pan gallbladder	Stainless steel 350*220mm	304Stainless steel 350*220mm
	plate size	474*474mm	474*474mm
	Rotating bottle volume	10L $\varnothing$ 95Flange mouth	10L $\varnothing$ 95Flange mouth
	Collect bottle volume	5L $\varnothing$ 50Flange mouth	5L $\varnothing$ 50Flange mouth
	vacuum degree	0.098Mpa	0.098Mpa
	Rotating power	120W	explosion-proof Electric machinery 120W explosion-proof sign EXDIIBT4
	Rotating speed	0-110rpm	0-110rpm
	heating power	3KW	3KW
	Temp. control range of bath	0-400°C	0-400°C
	Voltage/frequency(V/Hz)	220V/50Hz	220V/50HzOptional380V
	Lifting trip	180mm	180mm
	Shape size(mm)	970*480*1950mm	970*480*1950mm
	Packing dimensions(mm)	1350*350*400 1280*570*660 0.67square	1350*350*400 1280*570*660 0.67square
	Packing weight (KG)	100	100
Function Configuration	Speed regulation mode	frequency control	explosion-proof frequency control explosion-proof sign EXDIIBT4
	Speed display mode	digital display	digital display
	Temperature Display	KType 1 sensor digital display	KType 1 sensor digital display
	temperature control	Intelligent Temperature Control	Intelligent Temperature Control explosion-proof EXDIIBT4
	Sealing method	Tetrafluoro Component Sealing	Tetrafluoro Component Sealing
	condenser	Vertical High Efficiency Three-Reflux Condenser, Main cooling120*640, Pay cold 135*470	Vertical High Efficiency Three-Reflux Condenser, Main cooling120*640, Pay cold135*470
	Continuous collection	Check valve control	Check valve control
	Lifting mode	Manual lifting of bathtub	Manual lifting of bathtub
	Temperature measuring device	19#Standard mouth	19#Standard mouth
	Continuous Feeds	34#Label feeding valve	34#Label feeding valve
	Discharge square	Tetrafluoride discharge valve, $\varnothing$ 50Flange mouth	Tetrafluoride discharge valve, $\varnothing$ 50Flange mouth
	Vacuum display mode	Vacuum meter	Vacuum meter

## 2.RE-2002 20L Water bath Rotary evaporator, Manual lifting digital display

### Rotovap



### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type sensor at the bottom of the pot + stainless steel probe, fast



and accurate temperature transmission

- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

### Technical parameter

Model	RE-2002	RE-2002EX
Glass Material	GG-17	GG-17
Bracket Material	Stainless steel	Stainless steel
Material of pot shell	Spraying anticorrosion 630*534*638mm	Spraying anticorrosion 630*534*638mm
Material of Pan gallbladder	Stainless steel 450*250mm	Stainless steel 450*250mm
plate size	534*504mm	534*504mm
Rotating bottle volume	20L $\varnothing$ 95Flange mouth	20L $\varnothing$ 95Flange mouth
Collect bottle volume	10L $\varnothing$ 60Flange mouth	10L $\varnothing$ 60Flange mouth
vacuum degree	0.098Mpa	0.098Mpa
Rotating power	120W	explosion-proof120W
Rotating speed	0-110rpm	0-110rpm
heating power	5KW	5KW
Temperature control range of bathtub	0-400°C	0-400°C
Rotating bottle volume	$\pm 1^\circ\text{C}$	$\pm 1^\circ\text{C}$
Voltage/frequency(V/Hz)	220V/50Hz	220V/50Hz
Lifting trip	180mm	180mm
Shape size(mm)	1170*540*2200	1170*540*2200
Packing dimensions(mm)	1370*700*680 700*680*740 1square	1370*700*680 700*680*740 1square
Packing weight (KG)	123	123
Speed regulation mode	frequency control	explosion-proof frequency control
Speed display mode	digital display	digital display
Temperature Display Square	KType 1 sensor digital display	KType 1 sensor digital display
temperature control	Intelligent Temperature Control	Intelligent Temperature Control explosion-proof
Sealing method	Tetrafluoro Component Sealing	Tetrafluoro Component Sealing
condenser	Vertical High Efficiency Three-Reflux Condenser, Main cooling130*680, Pay cold160*530	Vertical High Efficiency Three-Reflux Condenser, Main cooling130*680, Pay cold160*530
Continuous collection	Check valve control	Check valve control
Lifting mode	Manual lifting of bathtub	Manual lifting of bathtub
Temperature measuring device	19#Standard mouth	19#Standard mouth
Continuous Feeds	34#Label feeding valve	34#Label feeding valve

Discharge square	Tetrafluoride discharge valve, $\varnothing$ 60Flange mouth	Tetrafluoride discharge valve, $\varnothing$ 60Flange mouth
Vacuum display mode	Vacuum meter	Vacuum meter

### 3. RE-3002 30L Rotary evaporator with bath

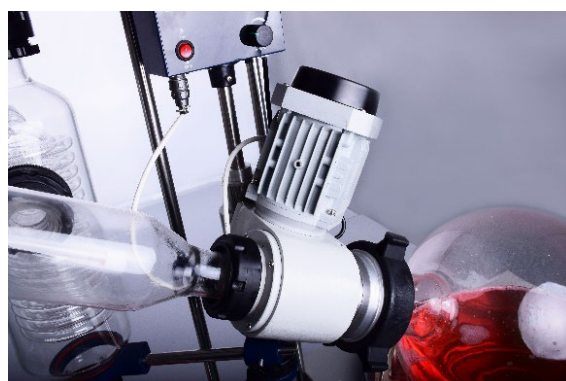


#### Description

- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

#### Features

- All parts in contact with the material are made of high-grade silica glass (expansion coefficient 3.3) and polytetrafluoroethylene, which have stable performance and are not prone to chemical reactions with the material, making it easy and safe to use.
- The main bracket is made of cold plate anti-corrosion spray plastic + aluminum alloy material, which has strong anti-corrosion and anti-oxidation characteristics. The pot bladder is made of stainless steel, with compact structure, durability and beautiful appearance.
- The sealing system adopts polytetrafluoroethylene + fluor rubber compound sealing, which can maintain high vacuum.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is connected to the PTFE extension tube, which can continuously feed the material to the evaporation bottle under vacuum, making it convenient for customers to use.
- Integrated condenser with upright double-layer serpentine coil ensures high recovery rate.
- Rotation and heating power switch control, tilt button (ON-OFF) for easy operation
- Electronic stepless speed regulation, fine adjustment by turning the knob, digital display of speed, simple and easy to operate.
- Digital display of constant temperature bath temperature, K-type



sensor at the bottom of the pot + stainless steel probe, fast and accurate temperature transmission

- The water bath has a hand wheel for lifting and lowering, which is convenient for lifting and lowering.
- Rotating and heating double fuses with high safety protection performance

### Technical parameter

Model	RE-3002(RE-3002EX)
Glass material	GG-17
Bracket material	stainless steel
Shell material	Spray anti-corrosion 710*620*700mm
Pot material	Stainless steel 500*280mm
Floor size	804*574mm
Rotating bottle volume	30L $\phi$ 125 flange mouth
Collecting bottle volume	20L $\phi$ 60 flange mouth
Vacuum degree	0.098Mpa
spinning speed	0-110rpm
Rotating power	180W 220V/50Hz
Bath heating power	8KW 380V/50Hz
Temperature range	0-400 $^{\circ}$ C
Temperature accuracy	$\pm$ 1 $^{\circ}$ C
Lifting stroke	180mm
Dimensions (mm*mm*mm)	1520*620*2470
Packing size (mm*mm*mm)	1480*380*480 1180*830*710 790*750*850 1.46CBM
Package weight (KG)	(47+76+56)179
Speed mode	Frequency
Speed display mode	Digital Display
Temperature display mode	K-type sensor digital display
Temperature control	Intelligent temperature control
Sealing method	PTFE assembly seal
Condenser	Vertical high efficiency three-return condenser, main cold 160*840, cold 160*530
Continuous collection	Check valve control
Lifting method	Bath pot manual lifting
Temperature measuring	19# standard port
Continuous feeding	40# standard inlet valve
Discharge valve	PTFE, $\phi$ 60 flange mouth
Vacuum display mode	Vacuum gauge
<b>Optional</b>	
Lifting method	Automatic lifting
Collecting device	Double collection bottle
Explosion proof	Explosion-proof inverter, explosion-proof motor EX180W
Frame part	Spray or spray PTFE
Bath material	All 304 stainless steel

## 4. RE-5003 50L Classic Rotary evaporator, water bath manual lifting Rotovap



### Description

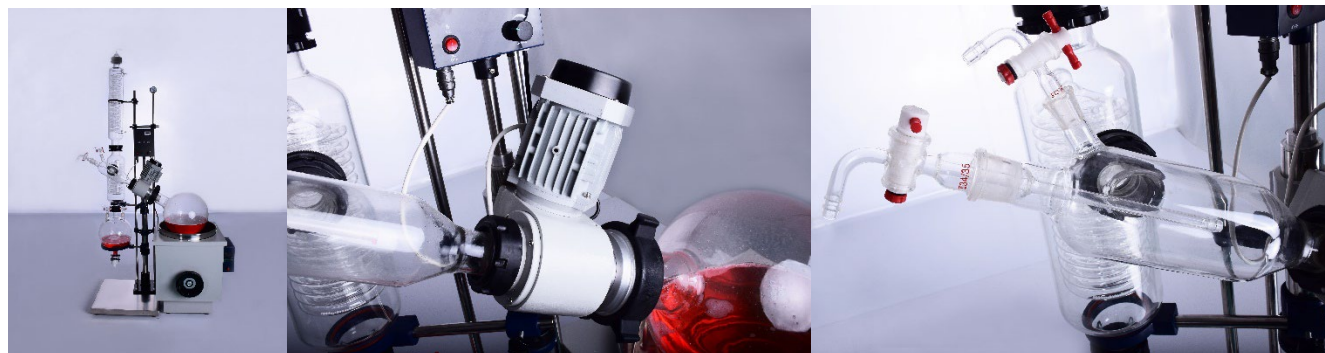
- Rotary evaporators are mainly used for concentration, crystallization, drying, separation, and solvent recovery in industries, such as pharmaceuticals, chemicals, and bio-pharmaceuticals.
- The working principle is to heat the rotating flask at a constant temperature under vacuum conditions, making it rotate at a constant speed. The material forms a large area thin film on the inner wall and then evaporates quickly. The solvent vapor is cooled by glass condenser and recycled into a collection flask, greatly improving evaporation efficiency.
- It needs to be equipped with a vacuum device (circulating water type, rotary vane type, diaphragm type, etc. vacuum pump) and a cooling circulation device to form a system device.

### Features

- The parts in contact with the materials are all made of high borosilicate glass (expansion coefficient 3.3) and polytetrafluoroethylene materials, which are stable in performance and difficult to chemically react with the materials.
- The main frame is made of cold plate anti-corrosion spray + aluminum alloy material, and the pot is made of stainless steel.
- The sealing system adopts PTFE + fluorine rubber compound combination seal.
- The vacuum pressure gauge displays real-time vacuum and the pointer displays.
- The piston-type feeding valve is sleeved with a polytetrafluoroethylene extension tube, which can continuously feed to the evaporation flask under vacuum.
- Vertical three-layer serpentine coil condenser, main cooling + sub cooling double condenser.
- Inverter speed regulation, tilt button (ON-OFF) switch, fine-tuning by twisting, digital display of speed.
- Constant temperature bath temperature digital display, with lock button switch control, K-type sensor at the bottom of the pot + stainless steel probe.
- Handwheel lifting of bath pot.
- Rotating, heating double fuse safety protection.
- The collection bottle has a lower discharge port and is equipped with a glass + PTFE independent discharge valve.
- The bottom of the pot is equipped with a water drain valve, which is convenient for draining liquid.
- The vacuum switching valve can continuously collect and discharge materials without affecting the system vacuum and solution distillation.

## Specifications

<b>Model</b>	<b>RE-5003/RE-5003EX</b>
Voltage frequency	Rotating 220V/50HZ, heating pot 380V/50HZ
Rotating motor power	180W
heating power	8000W
Vacuum	0.095Mpa
Rotating bottle capacity	50L, $\Phi$ 470mm/ $\Phi$ 125 flange mouth
Collection bottle capacity	20L, $\Phi$ 355mm upper $\Phi$ 60 flange mouth 24# standard mouth 24# standard mouth Lower $\Phi$ 50 flange mouth
spinning speed	0-120rpm/min
Temperature range	Room temperature -180 $^{\circ}$ C
Temperature accuracy	$\pm$ 1 $^{\circ}$ C
Bath tub lifting stroke	180mm
Condenser size	Main condenser $\Phi$ 160 $\times$ 835H(mm) upper $\Phi$ 60 flange mouth lower $\Phi$ 80 flange mouth
Condensation area	Sub-condenser $\Phi$ 160 $\times$ 530H(mm) Upper $\Phi$ 80 flange mouth lower $\Phi$ 60 flange mouth side $\Phi$ 60 flange mouth
Gas cylinder	1.44(0.95+0.49)m <sup>2</sup>
Feeding valve	Left 40# standard port upper 19# standard port side $\Phi$ 60 flange port right $\Phi$ 70 flange port
Multi-function port	40# standard plug valve feed nozzle (pagoda joint) outer diameter 12mm
Release valve	19# standard plug valve glass nozzle (pagoda joint) outer diameter 12mm
Discharge valve	24# standard plug valve 2 vent nozzle (pagoda joint) outer diameter 12mm
Vacuum pump head	$\Phi$ 50 flange mouth side discharge nozzle (pagoda joint) outer diameter 20mm 320mm from the ground
Condensing coil inlet/outlet	$\Phi$ 60 flange glass suction head suction nozzle (pagoda joint) outer diameter 10mm
Pot size and capacity	Outer diameter of pagoda joint 16mm
Size of machine	$\Phi$ 550 $\times$ 320H(mm), 76L
Net weight(W*D*H)	1330 $\times$ 730 $\times$ 2340mm
Package Size	119.5KG (82+37.5)
Package weight	1420 $\times$ 820 $\times$ 720mm 830 $\times$ 730 $\times$ 910mm Two wooden boxes 1.39m <sup>3</sup>



## 5. 5~50L Large Capacity Rotary Evaporator RE-L Series

5 ~ 50Liters/ Electric Lift/ Teflon + FV rubber, fluorinated rubber double seal/ TOP1 Quality



### Description

RE-L series 5~50L rotary evaporators have large capacity, diameter rotary evaporator flask, evaporation area, vacuum water bath, it can heat while rotating, with high evaporation solution diffusion efficiency,. It can be used for biological, pharmaceutical, chemical, food and other small-scale areas, Chinese and production.

The rotary evaporators can be equipped with recycled water multi-use vacuum pumps, diaphragm pumps, low temperature cycle (vacuum) pumps, circulating cooler, constant temperature circulator, low temperature cooling liquid circulating pump and other devices supporting component systems.

### Features:

- Teflon (PTFE) and fluorine rubber dual rotating seal, patented technology to ensure high vacuum.
- the introduction of foreign advanced frequency control system, temperature control system, accurate and reliable.
- a vacuum switching valve, without affecting the system vacuum distillation of the situation and the solution can be continuously collected.
- water bath electric lift and manual lift support, easy to use.
- PTEE discharge valve, corrosion resistance, pollution-free.

### Explosion-proof motors:

- According to the mixing material viscosity, Adjust motor power
- Explosion-proof grade dIIBT4
- Motor power has 180W, 90W, 370W
- run without sparks



### Explosion-proof control section:

- Using high-quality steel welding
- High-voltage electrostatic spray
- Bus and outlet increased safety structure
- Control since the development of design
- Over voltage, under voltage, over current protection
- Overload, overheat protection
- Explosion-proof grade dIIBT4
- Speed digital display
- Temperature digital display, online testing
- Promise speed



- Explosion-proof flexible connecting pipe with fire-resistant, corrosion-resistant erosion, water, anti-aging
- Temperature PID control, room temperature to 99 degrees
- Can be made to room temperature to 180 degrees high temperature bath

## Explosion-proof electric heating tube is a tubular heater that consumes electrical energy converted into heat to heat the object to be heated.

- Cold-welded stainless steel
- High-voltage electrostatic spray
- Bus and outlet increased safety structure
- Explosion-proof grade dIIBT4
- Corrosion, water, oil, anti-aging
- Voltage 220V, 380V
- Power 3KW, 4.5KW, 6KW, 8KW
- Stainless steel SUS304
- Good thermal conductivity
- Insulation is good, leakage current is small
- Long life

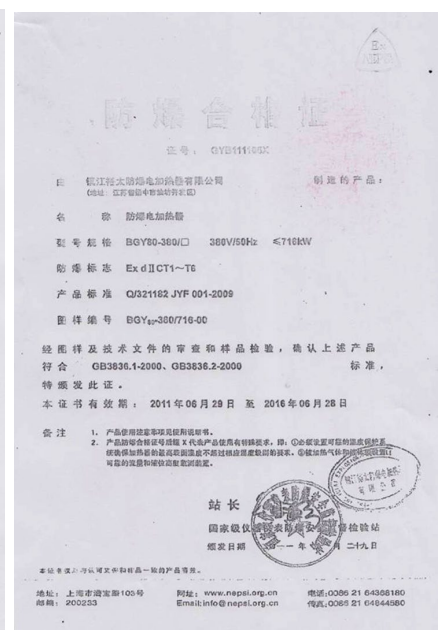
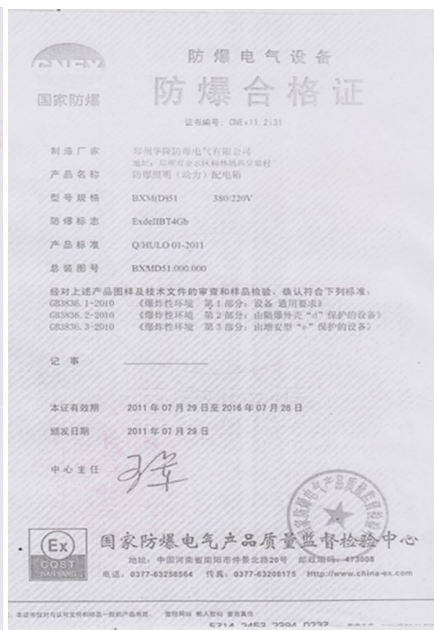
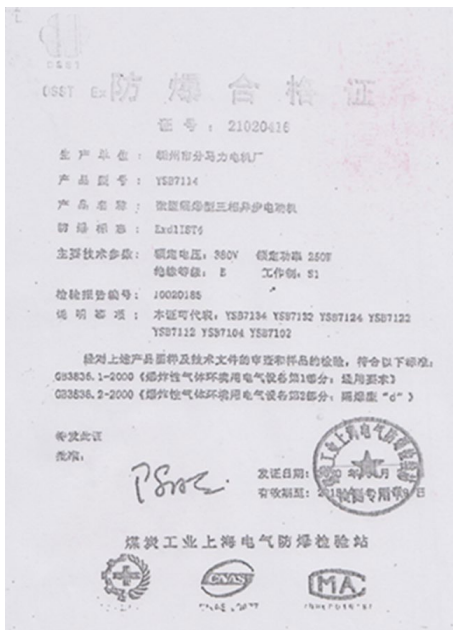


## Explosion-proof standard GB3836

- Explosion-proof mark dIIBT4, on behalf of: Explosion-proof electrical products for the type of explosion-proof, is the use of Class IIB place (Class) Do not, the ignition temperature of explosive gases T4 group.
- Flameproof d GB3836.2 isolated ignition source exists
- Explosion-proof electrical equipment, in accordance with the maximum test safety clearance (MESG) or minimum ignition current (MICR) to distinguish, Class II electrical equipment is divided into: IIA, IIB, IIC three categories.
- According to the difference of ignition temperature of explosive gas mixture, the group is divided into six kinds of T1, T2, T3, T4, T5 and T6. The ignition temperature is expressed in t (°C).
- T4 is: 135 °C < t ≤ 200 °C; T1 is: 450 °C < t; T6 is: 85 °C < t ≤ 100 °C



## Certificate of Explosion-proof



## Spare Parts



Main Condenser



Auxiliary condenser



Three-way bottle

### Rotary bottle:

- Large diameter, diameter 100mm
- Easy to take and wash
- Rotary bottle capacity of 1L, 5L, 10L, 20L, 50L
- Bottle collection:
- Volume: 1L, 3L, 5L, 10L, 20L



### High borosilicate glass:

(Also known as hard glass, GG17, borosilicate glass 3.3) is a special glass material with low expansion rate, high and low temperature resistance, high strength, high hardness, high light transmittance and high chemical stability. Has a very low coefficient of thermal expansion, temperature resistance of 200 degrees Celsius. Silicon content of more than 80% strain temperature of 520 °C annealing temperature of 560 °C. The thermal expansion coefficient (20-300 °C)  $3.3 \times 10^{-6}K^{-1}$ , based on silicon oxide (NA<sub>2</sub>O), Boron oxide (B<sub>2</sub>O<sub>2</sub>), silica (SiO<sub>2</sub>) as a basic ingredient of a glass. Anti-acid and alkali, anti-corrosion. Has good thermal stability, impact resistance, chemical stability, and electrical properties and so on.

### Flange seal, automatic switching valve:

- Imported PTFE materials
- Corrosion-resistant, pollution-free
- Maintenance, easy to clean
- High vacuum



Flange seal



Receive Bottle

Rotary Bottle

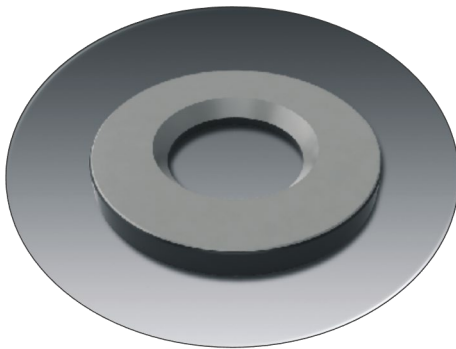


## Vacuum automatically switch

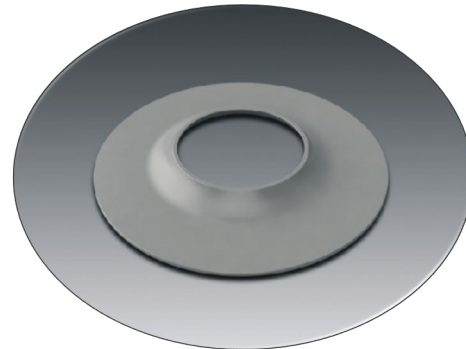
- Feeding does not affect vacuum production
- Will not reduce the degree of vacuum
- Continuous production



Automatic switching valve



Teflon seal ring (main)



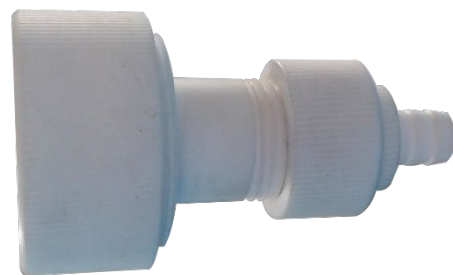
Teflon seal ring (auxiliary)

## National patent products

- PTFE (polytetrafluoroethylene) and fluorine rubber double rotary seal, patented technology.
- Ensure high vacuum, durability, acid and alkali resistance, anti-organic solvents
- High temperature, wear-resistant, high strength, long service life

## Discharge valve:

- Feeding operation is simple
- Imported PTFE materials
- Corrosion-resistant, pollution-free
- Maintenance, easy to clean
- High vacuum
- long life



## Rotary shaft, Bath:

- Rotary axis CNC machining and high concentric bottle rotation
- Bath for the production of professional manufacturers, wall thickness 0.8-1mm, sheet polishing, cleaning convenient.
- SUS304, GB grade 06Cr18Ni9 is a chromium-nickel stainless steel with good corrosion resistance, heat resistance, low temperature strength and mechanical properties.





### High-precision vacuum gauge:

- Pointer display, accuracy of 0.002
- Display range 0 to -0.1Mpa
- Equipped with tee adapter
- Metal surface treatment corrosion

### Aluminum flange complete:

- Surface chemical nickel treatment
- Connect the glass flange mouth
- easy and convenient
- SUS hexagonal screw

### Suction, Feed port:

- Connect pipeline with glass
- vacuum and circulating water pipe connection
- Ensure vacuum or pipeline sealing performance

## Specification

Model	RE-L5	RE-L10	RE-L20	RE-L50
Capacity of Rotary Bottle	5L	10L	20L	50L
Flanged diameter	Φ50mm	Φ95mm	Φ95mm	Φ125mm
Capacity of Collecting bottle	3L	5L	10L	20L
Rotary control	LCD display, frequency conversion stepless			
Rotary speed	20 ~ 140r/min	20 ~ 130r/min	20 ~ 130r/min	20 ~ 110r/min
Power of rotary motor(W)	250W	250W	250W	250W
Condensing tube	Vertical double serpentine tube	Vertical, main + auxiliary cooling and highly efficient three circulating		
Water Bath	SS304 Stainless steel water bath with coating layer			
Temp. Range	LCD Digital display, RT~180°C			
Vacuum degree	399.9Pa (below 3mmHg)			
Evaporating capability	Water≥2L/h Alcohol≥5.4L/h	Water≥3.2L/h Alcohol≥8.6L/h	Water≥5L/h Alcohol≥14.3L/h	Water≥9L/h Alcohol≥24.5L/h
Elevating mode	Electric	Electric	Electric	Electric & Manual
Elevating stroke	0~150mm	0~160mm	0~190mm	0~180mm
Power supply	220-240V/50Hz/60Hz		380V/50Hz/60Hz	
Power	2.3KW	3.8KW	6.3KW	6.3KW
Dimensions(mm)	765L*400W*1070H	920L*550W*1700H	1250L*600W*2100H	1320L*770W*2340H
Weight	35kg	61kg	90kg	140kg

## Ex-proof type

Model	RE-L5Ex	RE-L10Ex	RE-L20Ex	RE-L50Ex
Capacity of Rotary Bottle	5L	10L	20L	50L

Flanged diameter	Φ50mm	Φ95mm	Φ125mm	Φ125mm
Capacity of Collecting bottle	3L	5L	10L	20L
Rotary control	Frequency conversion stepless			
Rotary speed	10 ~ 140r/min	10 ~ 130r/min	10 ~ 130r/min	10 ~ 110r/min
Power of rotary motor(W)	40W	90W	180W	370W
Explosion-proof grade	ExdIIBT4	ExdIIBT4	ExdIIBT4	ExdIIBT4
Condensing tube	Vertical double serpentine tube	Vertical, main + auxiliary cooling and highly efficient three circulating		
Water Bath	SS304 Stainless steel water bath with coating layer			
Temp. Range	LCD Digital display, RT~180°C ±1°C			
Vacuum degree	399.9 Pa (below 3mmHg)			
Vacuum seal	Teflon – fluorinated rubber double seal			
Evaporating capability	Water≥2L/h Alcohol≥5.4L/h	Water≥3.2L/h Alcohol≥8.6L/h	Water≥5L/h Alcohol≥14.3L/h	Water≥9L/h Alcohol≥19L/h
Elevating mode	Manual	Manual	Manual	Manual
Elevating stroke	0~150mm	0~160mm	0~190mm	0~180mm
Power supply	220-240V/50Hz/60Hz		380V/50Hz/60Hz	
Power	3.1KW	3.8KW	6.3KW	8.3KW
Host dimensions(mm)	835L*400W*1090H	920L*550W*1700H	1250L*600W*2100H	1320L*770W*2140H
Control box dimensions (mm)	500L*455W*985H	500L*455W*985H	500L*455W*985H	500W*455D*985H
Weight	118kg	143kg	173kg	200kg

## Typical Application



## Actual product details:



Factory View



## Customer Site



## 6. 5L, 10L, 20L, 50L Rotary Evaporator, Explosion-proof optional



### Usage

5L, 10L, 20L, 50L Rotary Evaporator rotary evaporators have large capacity, diameter rotary evaporator flask, evaporation area, vacuum water bath, it can heat while rotating, with high evaporation solution diffusion efficiency,. It can be used for biological, pharmaceutical, chemical, food and other small-scale areas, Chinese and production. The rotary evaporators can be equipped with recycled water multi-use vacuum pumps, diaphragm pumps, low temperature cycle (vacuum) pumps, circulating cooler, constant temperature circulator, low temperature cooling liquid circulating pump and other devices supporting component systems.

### Product Description

Rotary evaporator uses stepless speed regulation to make the glass rotating bottle rotate at constant speed. Material forms a large area of uniform film on the wall of the bottle. Then the rotating bottle is heated uniformly by an intelligent constant temperature water bath pot. It evaporates at high speed in vacuum. Solvent vapor is cooled by a high-efficiency glass condenser and recycled into the collecting bottle.

### Functions and characteristics

- The main bracket is made of stainless steel and aluminum alloy with reasonable structure and exquisite materials.
- The glass parts are all made of high borosilicate glass (GG-17), which is high temperature resistant and corrosion resistant.
- The sealing system adopts imported fluor rubber and Teflon(PTFE) two-way combination seal, which has long corrosion resistance and high vacuum.
- Vacuum pressure gauge shows real-time vacuum and oil performance is vibration-proof.
- Vertical three-layer serpentine coil condenser ensures high recovery.
- Continuous feeding is convenient for customers. Valve feeding valve is sleeved with tetrafluoroethylene pipe.
- The collecting bottle is equipped with a feeding device to facilitate the collection and feeding of evaporative extracts.
- Check valve control, continuous feeding, machine in working state, vacuum switching.
- All valves adopt the latest integrated handwheel valves with good sealing and easy operation.
- Microcomputer power switch control.
- LCD full screen display, temperature, speed dual digital display, bathtub intelligent constant temperature control, PT100Type 1

sensor fast and accurate temperature transfer.

- Brushless DC deceleration motor, stable rotation, no spark, deceleration and force increase.
- Bath pot electric lifting, lifting part using deceleration booster motor, the lifting process is more stable.
- High quality 304 stainless steel is used for pot gall. It is corrosion resistant and durable. The outer layer of pot gall is coated with silica gel. It is safer to use at high temperature.
- Over-temperature safety protection function, when the actual temperature exceeds the set temperature of 5 degrees Celsius, the machine heating will automatically power off.
- Anti-drying function, when the water level in the heating pot is lower than the heating pipe, the machine will automatically power off.
- When the power supply is switched on again, the machine will automatically stop heating if the power is suddenly cut off during the operation of the machine.

**Product picture (below is the standard configuration of the factory). If there is special customization, the following picture is for reference**

### Product Details



Exhaust valve



Discharge valve



Head part



Heating tube in pot



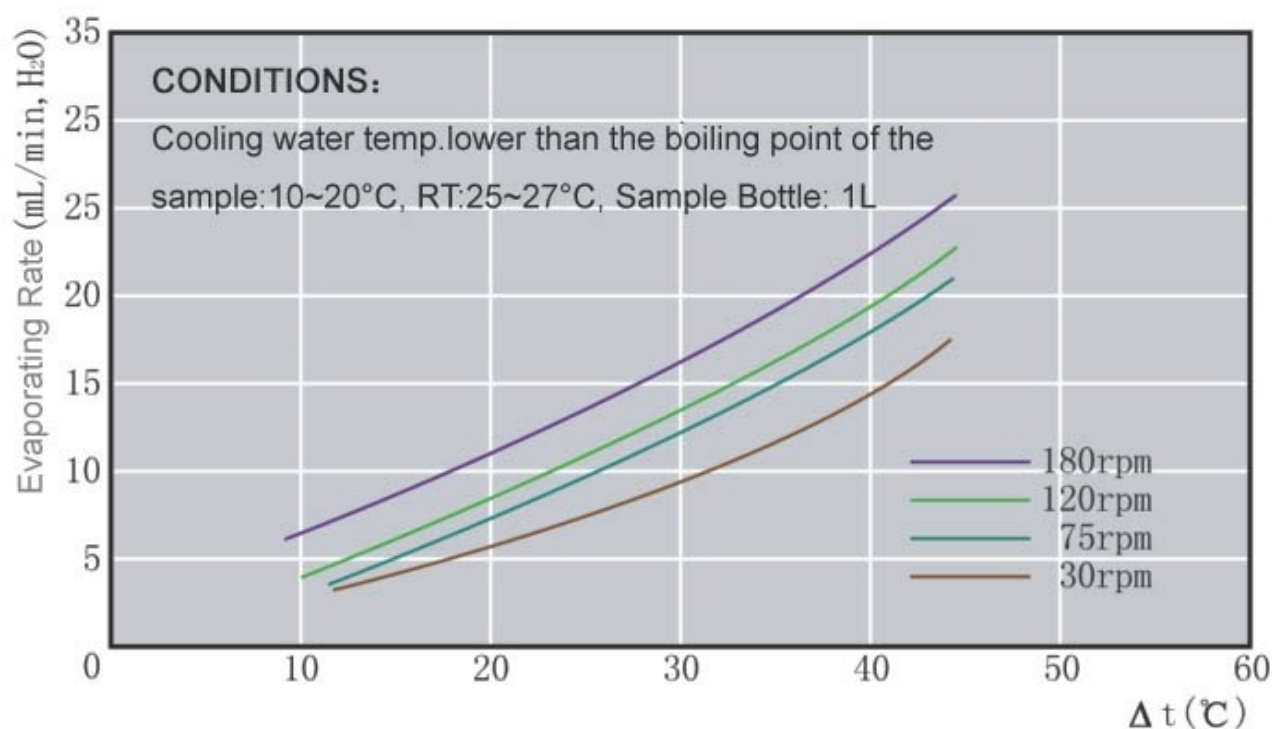


Oiliness Vacuum meter



Base part

$\Delta t$  : Difference of water bath temp. and sample boiling point



**Specifications:**

Model	RE-LA-5	RE-LA-10	RE-LA-20	RE-LA-50
Capacity of Rotary Bottle	5L	10L	20L	50L
Flanged diameter	Φ50mm	Φ95mm	Φ95mm	Φ125mm
Capacity of Collecting bottle	3L	5L	10L	20L
Rotary control	LCD display, frequency conversion stepless			
Rotary speed	20 ~ 140r/min	20 ~ 130r/min	20 ~ 130r/min	20 ~ 110r/min
Power of rotary motor(W)	250W	250W	250W	250W
Condensing tube	Vertical double serpentine tube	Vertical, main + auxiliary cooling and highly efficient three circulating		
Water Bath	SS304 Stainless steel water bath with coating layer			

Temp. Range	LCD Digital display, RT~99°C			
Vacuum degree	399.9Pa (below 3mmHg)			
Evaporating capability	Water≥2L/h Alcohol≥5.4L/h	Water≥3.2L/h Alcohol≥8.6L/h	Water≥5L/h Alcohol≥14.3L/h	Water≥9L/h Alcohol≥24.5L/h
Elevating mode	Electric	Electric	Electric	Electric & Manual
Elevating stroke	0~150mm	0~160mm	0~190mm	0~180mm
Power supply	220-240V/50Hz/60Hz		380V/50Hz/60Hz	
Power	2.3KW	3.8KW	6.3KW	6.3KW
Dimensions(mm)	765L*400W*1070H	920L*550W*1700H	1250L*600W*2100H	1320L*770W*2340H
Weight	35kg	61kg	90kg	140kg

## Ex-proof type

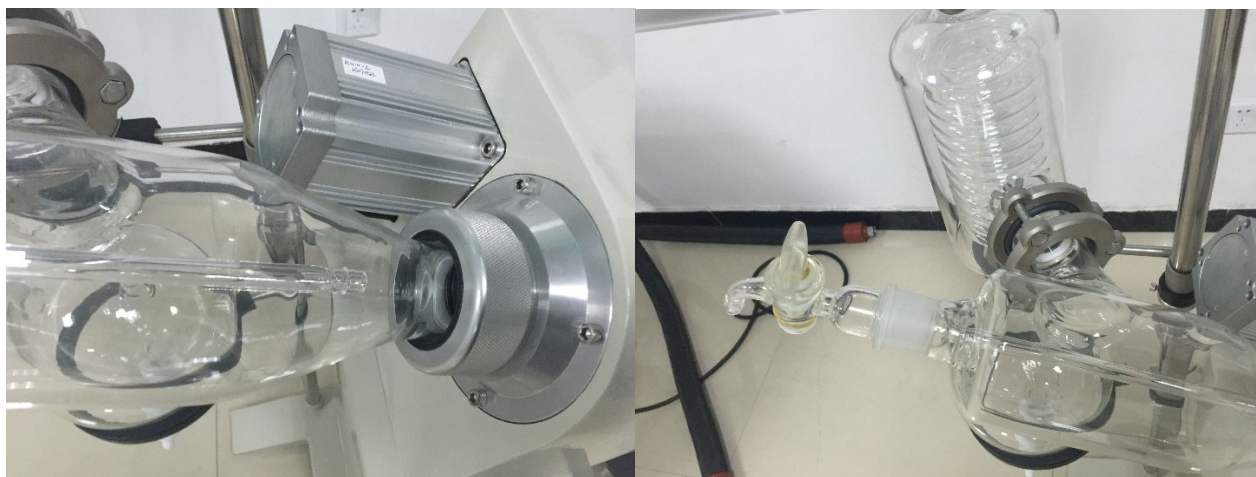
Model	RE-LA-5Ex	RE-LA-10Ex	RE-LA-20Ex	RE-LA-50Ex
Capacity of Rotary Bottle	5L	10L	20L	50L
Flanged diameter	Φ50mm	Φ95mm	Φ125mm	Φ125mm
Capacity of Collecting bottle	3L	5L	10L	20L
Rotary control	Frequency conversion stepless			
Rotary speed	10 ~ 140r/min	10 ~ 130r/min	10 ~ 130r/min	10 ~ 110r/min
Power of rotary motor(W)	40W	90W	180W	370W
Explosion-proof grade	ExdIIBT4	ExdIIBT4	ExdIIBT4	ExdIIBT4
Condensing tube	Vertical double serpentine tube	Vertical, main + auxiliary cooling and highly efficient three circulating		
Water Bath	SS304 Stainless steel water bath with coating layer			
Temp. Range	LCD Digital display, RT~99°C ±1°C			
Vacuum degree	399.9 Pa (below 3mmHg)			
Vacuum seal	Teflon - fluorinated rubber double seal			
Evaporating capability	Water≥2L/h Alcohol≥5.4L/h	Water≥3.2L/h Alcohol≥8.6L/h	Water≥5L/h Alcohol≥14.3L/h	Water≥9L/h Alcohol≥19L/h
Elevating mode	Manual	Manual	Manual	Manual
Elevating stroke	0~150mm	0~160mm	0~190mm	0~180mm
Power supply	220-240V/50Hz/60Hz		380V/50Hz/60Hz	
Power	3.1KW	3.8KW	6.3KW	8.3KW
Host dimensions(mm)	835L*400W*1090H	920L*550W*1700H	1250L*600W*2100H	1320L*770W*2140H
Control box dimensions (mm)	500L*455W*985H	500L*455W*985H	500L*455W*985H	500W*455D*985H
Weight	118kg	143kg	173kg	200kg

## Typical Application



## Actual product details:





Factory View



## 7. RE-L-100 100L Large Capacity Rotary Evaporator



### Description

100L Rotary Evaporator, this equipment is mainly used for concentration, crystallization, drying, separation and solvent recovery in the pharmaceutical, chemical and biopharmaceutical industries. The principle is that under vacuum condition, the temperature is heated at a constant temperature, so that the rotating bottle rotates at a constant speed, and the material forms a large-area film on the bottle wall, and evaporates efficiently. The solvent vapor is cooled by a high-efficiency glass condenser and recovered in a collection bottle to greatly increase the evaporation efficiency. It is especially suitable for the concentration and purification of biological products that are easily decomposed and deformed at high temperatures.

### Features:

- Multi-composite sealing of PTFE and fluororubber, new design, can maintain high vacuum.
  - High efficiency double main and auxiliary condensers ensure high recovery.
  - Really internal and external accessories are industrial standard components.
- Rotating motor speed digital frequency conversion speed control.
  - Oil water bath temperature sensor built-in probe, digital thermostat control.
  - The mechanical structure is made of stainless steel and aluminum alloy in large quantities, and the glass parts are all made of high temperature resistant high boron glass.
  - Import of key electrical components. All rubber seals adopt international standards, which is convenient for users to purchase and replace.
  - Microcomputer control: The microcomputer is equipped with high-precision control and various safety features; the operation is simple and intuitive.
  - P.I.D. Control: Exclude external factors that affect the accuracy of temperature adjustment, and reduce the error.

### Specifications:

Model	RE-L-100
Evaporation bottle	100L
Collection bottle	50L+10L double collection bottle
Glass material	High borosilicate GG17
Support material	Stainless steel 304
Condenser	Vertical triple, main condenser 2 square feet 230*950, sub-condenser 0.8 square feet 230*550
Rotating power	370W 220/50HZ
Speed mode	Inverter control, programmable
Rotating speed	0-120RPM inverter digital display
Bath pot	15kw 380/50HZ
Bath temperature control range	0-400 ° C
Bath pot temperature control accuracy	±1°C

Temperature display mode	Digital Display
sensor type	K
Lifting method	Bath electric lift
Lifting power	1000W 220/50HZ
Lifting mileage	220MM
shell material	Spray anti-corrosion
Dimensions (mm)	1700×830×2800
Package weight	480kg
power supply	380V 3L+P+E
Long-lasting seal	PTFE + fluoro rubber combination multiple seal
Advantage design	Collection bottle with automatic switching valve to prevent vacuum dip
Continuous collection	Full PTFE thimble valve control
Discharge piston	PTFE thimble valve
Non-sparking electronic control system	Have
Feed valve	All PTFE filling valve
Vacuum display mode	Stainless steel vacuum gauge
Glass interface style	Full flange
Flange card	Patent quick opening card, patent number

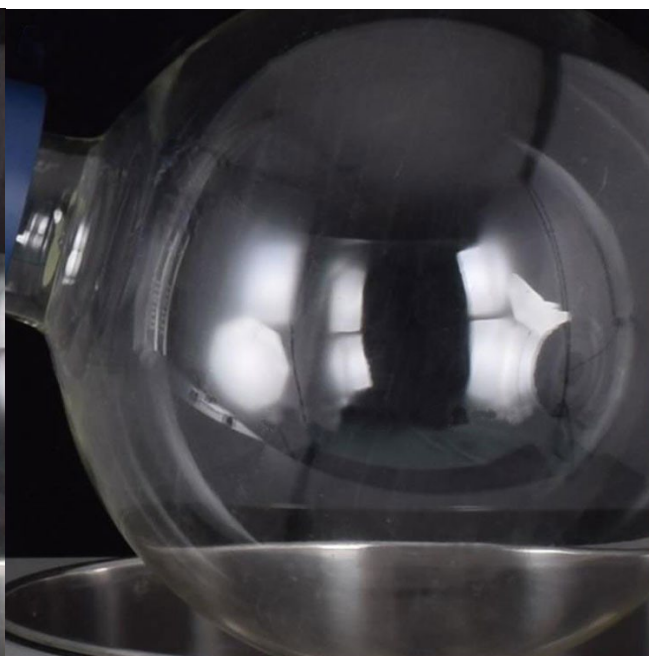
## RE-L-100EX Explosion-proof type



## Regular Configuration



RE-L-100 Rotovap + Circulation Chiller + Vacuum Pump









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