

# Infitek

## 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.



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



Overheating protection temperature at 220°C.



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<br>(Standard configuration-1000ml)<br>(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



VACP-D410 VACC100 REV100-S RECL20-4.5 VACP-D410 VACC100 REV100-P RECL20-4.5

Vertical

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

Diagonal

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

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 |



18204186

18204187

18900190

18900188

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<br>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                                                                                                                   |

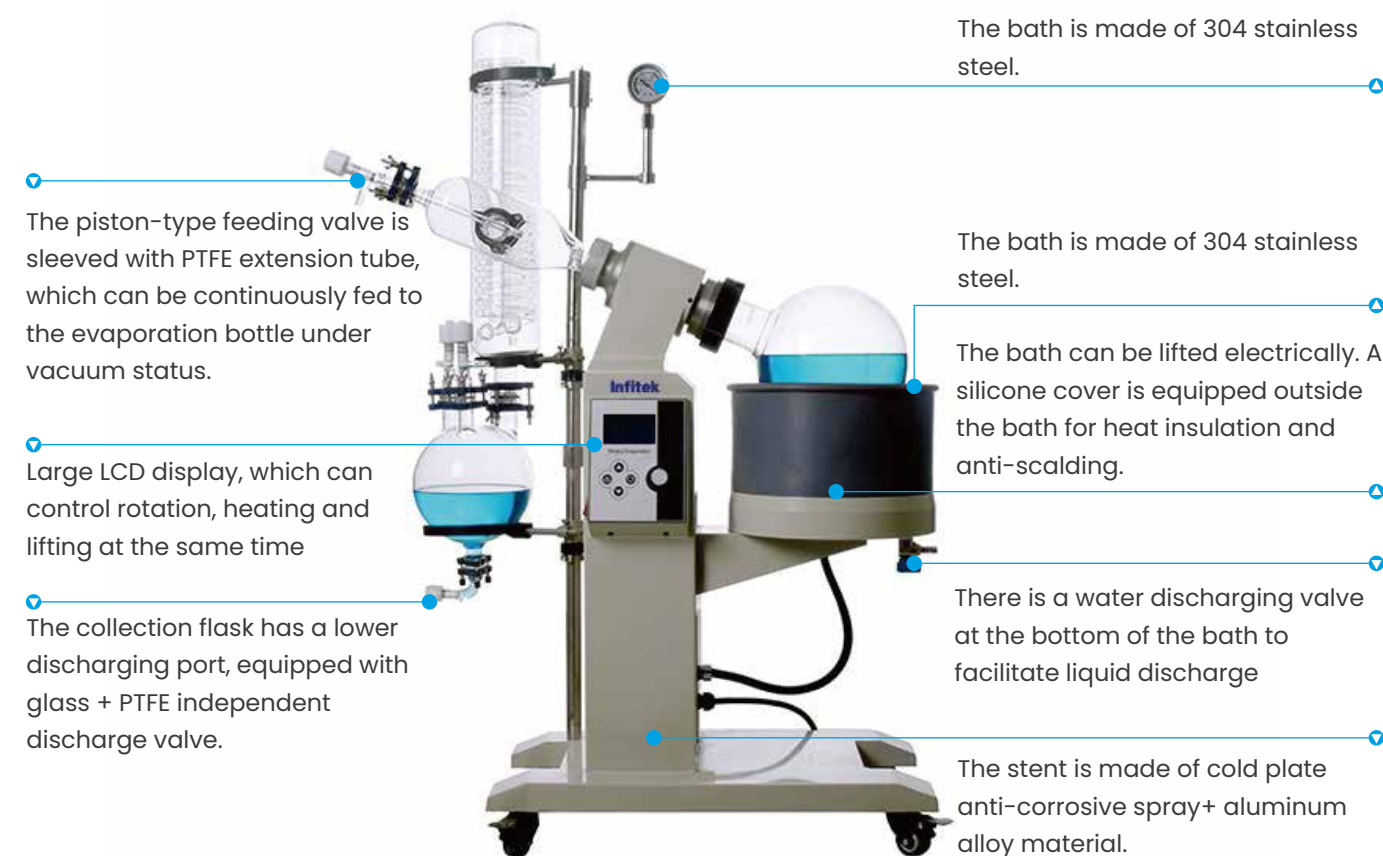


# Rotary Evaporator

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



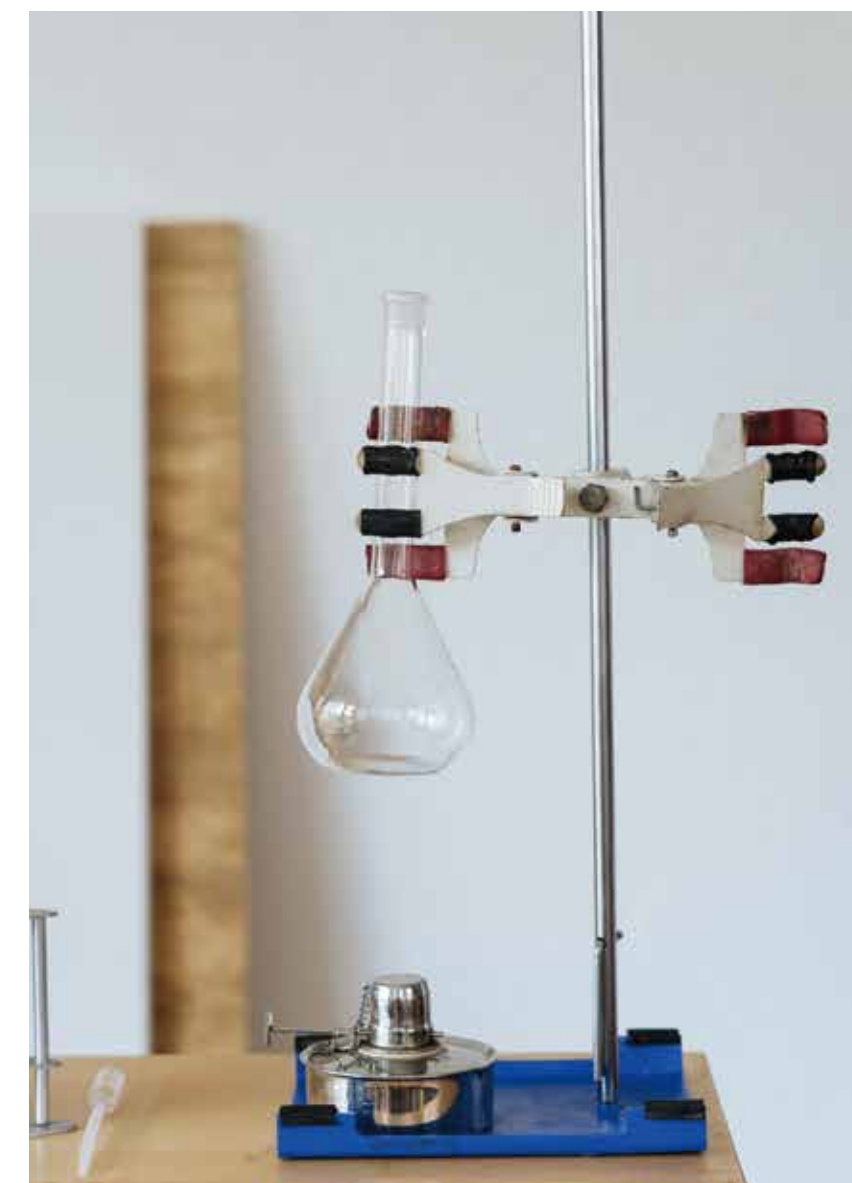
Anti-drying function, when the water level in the heating bath is lower than the heating tube, the machine will automatically power off.



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<br>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<br>Auxiliary condenser Φ160×530H(mm), upper Φ80 flange port, lower Φ60 flange port, side Φ60 flange port |
| Condensing area                                 | 0.5 m <sup>2</sup>                                                                                  | 0.51(0.33+0.18) m <sup>2</sup>                                                                                                                                                      | 1.44(0.95+0.49) m <sup>2</sup>                                                                                                                                                      |
| 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 <sup>3</sup>                                                      | 980×520×1190mm wooden package 0.61m <sup>3</sup>                                                                                                                                    | 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 <sub>2</sub> 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;<br>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



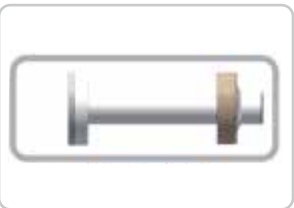
Vertical condenser with drip point design prevents backflow.



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;<br>0~310rpm (Evaporating flask≤ 3L)<br>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-2000B REV-2000C  
REV-3000B REV-3000C



REV-2000B



REV-2000C



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-2000B                                                                                                 | REV-2000C                         | REV-3000B                                                                                                | REV-3000C                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------|
| Screen                        | Temperature and speed dual-digital display                                                                | Temperature and speed LCD 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         | $\pm 1^{\circ}\text{C}$                                                                                   |                                   | $\pm 1^{\circ}\text{C}$                                                                                  |                                   |
| 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 |                                   |



# Rotary Evaporator

REV-3000AC



- Evaporating Flask Volume: 250~3000mL
- Rotation Speed: 0 ~310rpm
- Evaporation Capacity: Max. 27mL/min (H2O)
- Water/Oil dual-purpose bath with moderate volume and fast heating

## Features



LCD color display with intuitive menu interface and knob control;

Touch & handle dual-button electric lifting for safer operation;

Automatic unattended safe operation with auto-standby mode after experiment completion;



Heating Bath: Teflon coating for easy cleaning, excellent corrosion and high-temperature resistance;

Heating bath features safety handles and an insulated outer shell to prevent burns;

Water/Oil dual-purpose bath with moderate volume and fast heating;



Condenser designed with drip point and anti-back flow device;

Quick-release flask ejection knob for effortless and convenient flask replacement;

Programmable interval rotation (clockwise/anti-clockwise) ideal for drying processes;



Optional vacuum system for precise vacuum control;



Sealing unit: Imported PTFE molded via special process;



70W DC motor for smooth start-up and high torque;



Specification

| Model                     |  | REV-3000AC                                                                                                   |
|---------------------------|--|--------------------------------------------------------------------------------------------------------------|
| Rotation Speed            |  | 0 ~310 rpm (LCD color display)                                                                               |
| Evaporation Capacity      |  | Max. 27mL/min (H2O)                                                                                          |
| Vacuum Control (Optional) |  | Built-in vacuum controller (adjustable vacuum degree as required);                                           |
|                           |  | Setting range: -0.1~0MPa (0 ~1013mbar);<br>Accuracy: ±1mbar                                                  |
| Temperature Range         |  | Water & Oil dual-purpose bath:                                                                               |
|                           |  | Water bath: Room temperature ~ 99 ℃ (±0.5 ℃)                                                                 |
|                           |  | Oil bath: Room temperature ~ 210 ℃ (±2 ℃)                                                                    |
| Heating Bath Design       |  | Integrated Teflon coating for easy cleaning, corrosion & high-temp resistance                                |
|                           |  | Size: φ26 × 15 cm (approx. 8 L).<br>Equipped with safety handles and insulated outer shell to prevent burns. |

Specification

| Model                    |  | REV-3000AC                                                                                                                                             |
|--------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Cover (Optional)  |  | Transparent PC protective cover (Water bath only): Heat preservation, energy saving, explosion-proof, and splash-proof.                                |
| Rotation Mode            |  | Interval rotation (Clockwise/Counter-clockwise) with adjustable pause (0–60s); suitable for drying powder samples.                                     |
| Lifting System           |  | Electric lift with touch & handle dual-mode; Stroke: 150 mm. Features a 60 mm safety distance at the lower limit to prevent flask collision.           |
| Temperature Control      |  | Microcomputer PID controller with digital display                                                                                                      |
| Temperature Setting      |  | ① Knob encoder ② Rotary input setting ③ Large LCD screen for easy and quick operation                                                                  |
| Safety Performance       |  | Timer function (0~999 min); Automatic stop and standby mode upon completion.                                                                           |
| Heating Element          |  | Fully enclosed integrated heater; Power: 1.5 kW                                                                                                        |
| Evaporating Flask Volume |  | 250~3000mL                                                                                                                                             |
| Sealing Unit             |  | Imported PTFE and special synthetic materials processed with special technology, providing improved sealing, corrosion resistance and wear resistance. |
| Condenser                |  | Vertical three-layer ball-joint serpentine condenser with large condensing area.                                                                       |
| Condensing Area          |  | 0.21m2, with drip point and anti-back flow design for enhanced efficiency.                                                                             |
| Ambient Temperature      |  | 5 ℃ ~ 40 ℃                                                                                                                                             |
| Electricity              |  | AC 220V/50Hz                                                                                                                                           |
| External Dimensions      |  | 710*645*790mm                                                                                                                                          |
| Package Dimensions       |  | 700*430*860mm                                                                                                                                          |
| Gross Weight             |  | 35kg                                                                                                                                                   |
| Standard Configuration   |  | 3L Flange Round-bottom Flask*1;                                                                                                                        |
|                          |  | 29# 1L Eggplant-shaped Flask*1;                                                                                                                        |
|                          |  | Flange to 29# Ground Joint Adapter*1;                                                                                                                  |
|                          |  | S35 Ball-Ground Joint 2L Collection Flask*1;                                                                                                           |
| Supporting Products      |  | Rotary Evaporator REV-3000AC+Diaphragm Vacuum Pump VACP-D20+Low Temperature Circulator RECL20-2X                                                       |