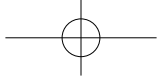




Distilling





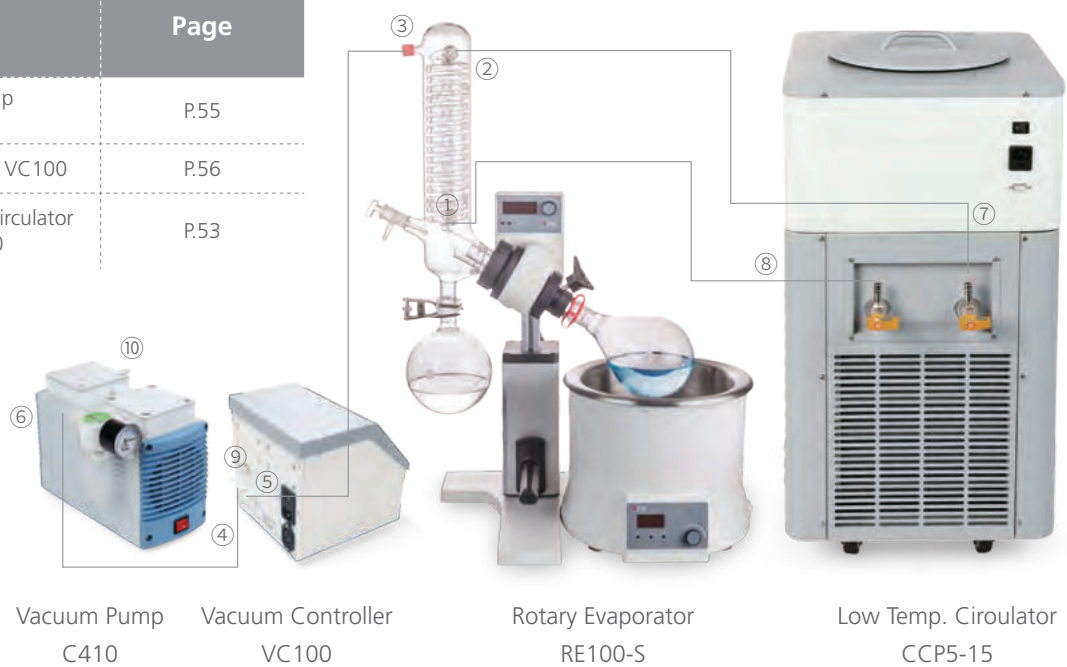
Rotary evaporator is mainly used for continuous distillation of volatile solvents under reduced pressure. It is widely used in chemical, pharmaceutical, research and food industries, etc.

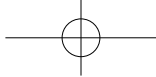
List of DLAB models:

| Series | Lab Scale Rotary Evaporator | Industrial Scale Rotary Evaporator |
|---|---|---|
| |  |  |
| Model | RE100-Pro | RE100-S |
| Evaporating Flask Volume | 50-2000ml | 50-2000ml |
| Evaporation capacity (H ₂ O) | 1.56L/h | 1.56L/h |
| Automatic lifting | YES | No (Manual lifting) |
| Display | LCD | LED |
| Page | P.49 | P.50 |

Distillation System Connection (For RE100-Pro&RE100-S):

| Model | Page |
|---------------------------------------|------|
| Vacuum Pump C410 | P.55 |
| Vacuum Controller VC100 | P.56 |
| Low Temperature Circulator CCP5-15/20 | P.53 |





RE200-Pro

20L Industrial Digital Rotary Evaporator

Large Scale LCD Digital evaporator is mainly used for continuous distillation of a large number of volatile solvents under reduced pressure. It offers an excellent distilling solution in a wide range of applications.

Features

- Large LCD digital display with heating temperature, rotation speed, clockwise and Anti-clockwise, time information
- One-click automatic motor lifting (stroke 180mm), smooth and silent
- Water/oil heating bath with wide temperature range from room temp.to 180°C
- Speed range from 10 to 150rpm, and interval operation in clockwise and anti-clockwise directions for drying process
- Three-layer high-efficiency condensing tube with large condensation area and strong evaporation capacity, ensuring efficient sample recovery
- Patented connector for evaporating flask easy&quick installation
- PTFE double sealing ring with excellent sealing performance
- A switching valve for continuous collection without compromising the system vacuum and solvent distillation



Rotary Evaporator



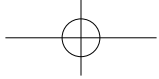
Large LCD display



Overheating protection



Chemical resistance



Double-layer high-efficiency condenser
large condensation area and strong evaporation capacity, ensuring efficient sample recovery.



Switching valve design
A switching valve for continuous collection without compromising the system vacuum and solvent distillation.



Heating bath

- Water&oil bath;
- Enhanced lifetime through exclusive use of corrosion-free stainless-steel;
- The heating bath adopts special heat insulation structure design, so that the surface temperature is far lower than the temperature in the bath, to avoid personnel burns.

Specifications

RE200-Pro

| | | |
|------------------|----------------------------|---|
| performance | Temperature range | Room temp. ~180°C (both water and oil) |
| | Control Accuracy | Water: $\pm 1^{\circ}\text{C}$ Oil: $\pm 3^{\circ}\text{C}$ |
| | Rotation Speed | 10~150rpm |
| | Evaporation capacity | Max.4.0L/h (water vapor volume) |
| | Ultimate vacuum | Less 2.6hpa |
| function | Temperature control method | Micro processor PID control |
| | Display | LCD (temperature/speed/clockwise and Anti-clockwise/time) |
| | Stroke Displacement | Automatic 180mm |
| constitute | Safety features | Motor over-current protection, Residual Current Device, lifting overload protection, Boil-dry protection, over-temperature protection |
| | Sample flask | Round flask 20L |
| | Receiving flask | Round flask 10L with drain valve |
| | Condenser | Two-section vertical triple serpentine condenser, cooling surface 1.2m ² |
| Specification | Heating bath size | $\phi 450 \times 240\text{mm}$ |
| | Takeover caliber | Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm |
| Dimension[D×W×H] | | 1160mm×600mm×1860mm |
| Power supply | | 220V/4600W/50/60Hz |

RE100-Pro

Digital Rotary Evaporator



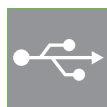
LCD Digital Rotary Evaporator is an essential instrument in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation. It offers an excellent distilling solution in a wide range of applications.

Features

- Digital display of both rotation speed and heating temperature allows for optimal control of all distillation processes
- Automatic motor lift releases the evaporating flask to a safe position in case of power failure
- 5L heating bath with wide temperature range from room temp. to 180°C, Water/oil heating mode can be changed only through a switch
- Overheating protection temperature at 220°C
- 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
- Patented condenser (cooling surface 1700cm²) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Patented double spring sealing ring made of PTFE provides an excellent sealing performance
- Remote function provides PC control and data transmission
- Optional glassware with explosion proof film available.



Large LCD display



USB connector



Chemical resistance



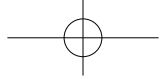
Overheating protection



Compatible with all range of glassware

Specifications

| | RE100-Pro |
|---------------------------------|---|
| Motor Type | Brushless DC motor |
| Speed Range | 20-280rpm |
| Display | LCD(speed, temperature, time) |
| Clockwise and Anti-clockwise | Yes |
| Heating Temperature Range | Room temp. to 180°C |
| Control Accuracy | water: $\pm 1^{\circ}\text{C}$ oil: $\pm 3^{\circ}\text{C}$ |
| Heating Power | 1300W |
| Stroke Displacement | automatic 150mm |
| Timer | Yes |
| Time Setting Range | 1-999min |
| Dimension[D×W×H] | 465×457×583mm |
| Weight | 15kg |
| 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 | 1400 W |



DLAB LED Digital Rotary Evaporator is a basic chemical laboratory instrument suitable for evaporation, distillation and separation of chemicals. It can be used as a multifunctional system in combination with vacuum pump, vacuum controller and circulating refrigerators to provide excellent distillation solutions in many laboratory applications.

Features

- 5L heating bath with a wide temperature range (room temp.to180°C). Independent temperature control makes 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°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 1200/1700cm² 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 RE100-Pro glassware
- Optional glassware with explosion proof film available
- OHot waming above 50°C



USB connector



Chemical resistance



Overheating protection



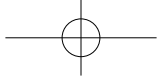
Compatible with all range of glassware

RE100-S LED Digital Rotary Evaporator



Specifications

| | RE100-S |
|---------------------------------|---|
| 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: $\pm 1^{\circ}\text{C}$ oil: $\pm 3^{\circ}\text{C}$ |
| Heating Power | 1200 W |
| Stroke Displacement | Manual 110mm + auxiliary100mm |
| Interval Time Setting Range | 1~999s |
| Dimension [D×W×H] | Main Unit: 440×320×450mm Heating Bath: 300x300x240mm |
| Weight | Main Unit: 7kg Heating Bath: 3kg |
| Permissible Ambient Temperature | $5\sim 40^{\circ}\text{C}$ |
| Permissible Relative Humidity | 80% RH |
| Protection Class | IP20 |
| USB Interface | Yes |
| Voltage/Frequency | 100~120/200~240V 50/60 Hz |
| Power | 1245 W |

**Vertical**

| Cat. No. | Glassware type | Volume | Cooling surface |
|----------|--|--------|---------------------|
| 18900165 | Evaporating flask(NS29/32) Receiving flask(KS35/20) | 1000mL | 1700cm ² |
| 18900173 | Evaporating flask(NS24/40) Receiving flask(KS35/20) | 1000mL | 1700cm ² |
| 18900166 | (COATED)Evaporatingflask(NS29/32) Receiving flask (KS35/20) | 1000mL | 1700cm ² |
| 18900174 | (COATED)Evaporatingflask(NS24/40) Receiving flask (KS35/20) | 1000mL | 1700cm ² |
| 18202410 | evaporating flask (NS 29/32) Receiving flask (KS 35/20) | 1000mL | 1200cm ² |

Diagonal

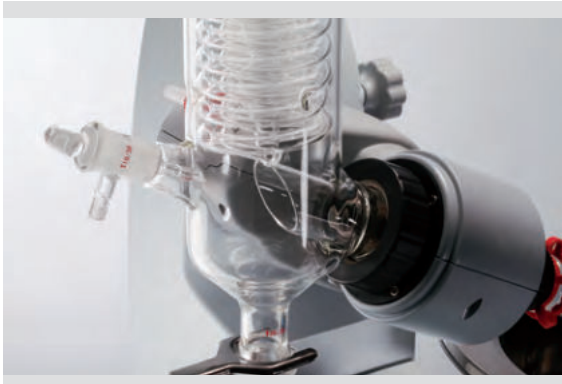
| Cat. No. | Glassware type | Volume | Cooling surface |
|----------|---|--------|---------------------|
| 18900163 | Evaporating flask(NS29/32)Receiving flask(KS35/20) | 1000mL | 1700cm ² |
| 18900171 | Evaporating flask(NS24/40)Receiving flask(KS35/20) | 1000mL | 1700cm ² |
| 18900164 | (COATED)Evaporatingflask(NS29/32)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

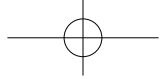
Heating Bath

| Cat. No. | Description | Volume |
|------------|---|--------|
| 18900201 | Rotary Evaporator, 220V | 5L |
| 18900202 | Rotary Evaporator, 110V | 5L |
| 6033100210 | LED heating bath, 100V-120/200-240V,50/60HZ | 5L |

Heating Bath Lid

| Cat. No. | Description |
|----------|---|
| 18900547 | heating Bath lid for RE100-S, improve distillation efficiency & ensure personnal safety from liquid splash |

New



Glassware



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 |
| 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 |



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 |

Foam brake

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



| Cat. No. | Volume | Size |
|----------|--------|----------|
| 18100998 | / | NS 29/32 |
| 18300206 | / | NS 24/40 |

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 |

