








Distilling



Evaporation Solutions!
Leading Laboratory & Industrial Rotary evaporator

Rotary evaporator is an indispensable equipment for processes of evaporation, concentration, crystallization, drying, separation, and solvent recovery in many fields, and it is mainly used for continuous distillation of large amounts of volatile solvents under reduced pressure. It can be applied in different areas such as biological, pharmaceutical, chemical and even food & beverage industries.

DLAB Rotary Evaporator models:

| Series | Image | Evaporating Flask Volume | Evaporation capacity | Temperature range | Automatic lifting | Display | Page |
|-----------|---|--------------------------|--------------------------------|-------------------|---------------------|---------|------|
| RE100-Pro |  | 50-3000mL | Max.1.56L/h (H ₂ O) | RT-180°C | YES | LCD | p.90 |
| RE100-S |  | 50-3000mL | Max.1.56L/h (H ₂ O) | RT-180°C | No (Manual lifting) | LCD | p.91 |
| RE200-Pro |  | 20L | Max.4.5L/h (75% Alcohol) | RT-180°C | YES | LCD | p.88 |
| RE500-E |  | 5L | Max.2L/h (75% Alcohol) | 20-100°C | YES | LCD | p.95 |
| RE1000-E |  | 10L | Max.3.8L/h (75% Alcohol) | 20-100°C | YES | LCD | p.95 |
| RE2000-E |  | 20L | Max.5L/h (75% Alcohol) | 20-100°C | YES | LCD | p.95 |
| RE5000-E |  | 50L | Max.11L/h (75% Alcohol) | 20-100°C | YES | LCD | p.95 |

RE200-Pro

20L Industrial Digital Rotary Evaporator

A promise of safety, reliability & highest level of efficiency for large volumes



Features

- Large LCD digital display with heating temperature, rotation speed, clockwise&anticlockwise and time information
- One-click automatic motor lifting (stroke 180mm), smooth and silent
- Water/ oil heating bath with wide temperature range from RT to 180 °C
- Speed range from 10 to 150rpm, and interval operation in clockwise and anticlockwise directions for drying process
- Two-section vertical triple coil condensing tube with large area and strong evaporation capacity ensuring high-efficiency sample recovery
- The connector device allows for easy and quick installation of the evaporating flask
- PTFE double sealing ring with excellent sealing performance
- Switch valve for continuous collection without compromising the system vacuum and solvent distillation

Applications

Suitable for pilot-scale production, large-scale application in biology engineering, pharmaceutical industry, chemical industry, beauty industry, medical industry and food processing.



Large LCD display



Overheating protection



Chemical resistance



Two-section vertical triple coil condenser

large condensation area and strong evaporation capacity ensuring high efficient sample recovery



Switching valve design

switch 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
- It adopts special heat insulation structure design so 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 (water and oil bath) |
| | Temperature control accuracy | Water: ±1°C Oil: ±3°C |
| | Rotation Speed | 10~150rpm |
| | Ultimate vacuum | Less 2.6mbar |
| | Evaporation capacity | Max.4.5L/h(75% Alcohol) |
| function | Temperature control | Micro processor PID control |
| | Display | LCD (temperature/speed/clockwise and Anti-clockwise/time) |
| | Time Setting Range | 0-999min |
| | Lift stroke | Motorized 180mm |
| | Safety features | Motor over-current protection, earth-leakage protection lifting overload protection, Boil-dry protection, Overheating protection |
| components | Evaporation flask | Round flask 20L |
| | Receiving flask | Round flask 10L with drain valve |
| | Condenser | Two-section vertical triple coil condenser, cooling surface 1.2m ² |
| specification | Heating bath size | Ø 450×240mm |
| | Hose connection | Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm |
| Dimension[D×W×H] | | 1160×600×1860mm |
| Voltage/Frequency | | 220V/50/60Hz |
| Power | | 4600w |
| Heating Power | | 4400w |

RE100-Pro

Digital Rotary Evaporator

It is highly used in chemical industries, pharmaceutical industries and also higher learning institution

Features

- Digital LCD 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 temperature 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
- Condenser (cooling surface 1700cm²) with excellent cooling effect
- Ejection mechanism ensures easy removal of evaporating flask
- Double spring sealing ring made of PTFE provides an excellent sealing performance
- 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 |
|---------------------------------|--|
| Evaporating Flask Volume | 50-3000mL (Optional Thickened glass axis compatible with 3L evaporating flask) |
| Motor Type | Brushless DC motor |
| Speed Range | 20-280rpm |
| Display | LCD (speed, temperature, time) |
| Direction of Rotation | Clockwise and counterclockwise |
| Heating Temperature Range | Room temp. to 180°C |
| Control Accuracy | water: ±1°C oil: ±3°C |
| Evaporation capacity | Max. 1.56L/h (H ₂ O) |
| Heating Power | 1300W |
| Lift stroke | Motorized 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, 50/60Hz |
| Power | 1400W |

RE100-S

LED Digital Rotary Evaporator

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 low temperature circulators 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 just 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
- Condenser (cooling surface 1200/1700cm² for selection), speeding up the flow rate of liquid with excellent cooling effect
- Ejection mechanism ensures easy exchange of evaporating flask
- Adjustable immersion angle
- Double spring sealing ring which is made of PTFE provides an excellent sealing performance
- Compatible with the entire range of RE100-Pro glassware
- Optional glassware with explosion proof film available
- High temperature warning when above 50°C



Chemical resistance



Overheating protection



Compatible with wide range of glassware



| Specifications | RE100-S |
|---------------------------------|---|
| Evaporating Flask Volume | 50-3000mL(Optional Thickened glass axis compatible with 3L evaporating flask) |
| Motor Type | Brushless DC motor |
| Speed Range | 20-200rpm |
| Display | LED(speed, temperature, time) |
| Direction of Rotation | Clockwise and counterclockwise |
| Heating Temperature Range | Room temp. to 180°C |
| Control Accuracy | water: $\pm 1^{\circ}\text{C}$ oil: $\pm 3^{\circ}\text{C}$ |
| Evaporation capacity | Max.1.56L/h(H ₂ O) |
| Heating Power | 1200W |
| Lift stroke | Manual 110mm+auxiliary 100mm |
| 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, 50/60Hz |
| Power | 1245W |

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 |
| 18900476 | Evaporating flask (NS 24/40) Receiving flask (KS 35/20) | 1000mL | 1200cm ² |

Diagonal

| Cat. No. | Glassware type | Volume | Cooling surface |
|----------|---|--------|---------------------|
| 18900163 | Evaporating flask(NS29/32)Receiving flask(KS35/20) | 1000mL | 1700cm ² |
| 18900171 | Evaporating flask(NS24/40)Receiving flask(KS35/20) | 1000mL | 1700cm ² |
| 18900164 | (COATED)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 | Heating bath for Rotary Evaporator RE100-Pro, 220V | 5L |
| 18900202 | Heating bath for Rotary Evaporator RE100-Pro, 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 personal safety from liquid splash |

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 |
| 18300122 | 3000mL | NS29/32 |
| 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 |
| 18900204 | 3000mL | NS24/40 |
| 18900563 | 20L | RE200-Pro |



Foam brake

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



Glass axis

| Cat. No. | Volume | Size |
|----------|----------------------|----------|
| 18100998 | Glass axis | NS 29/32 |
| 18203431 | Thickened glass axis | NS24/40 |
| 18300206 | Glass axis | NS 24/40 |
| 18204253 | Thickened glass axis | NS29/32 |



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 |
| 18900564 | 10L | RE200-Pro |



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 |

Optional Add-ons

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



C410 Chemistry-design diaphragm pump


Specifications

Maximum Vacuum:13mbar
Work Mode: Continuous Operation
Nozzle Size:8mm, Power: 95W
Motor speed:1450rpm
Flow Rate:

| | | | | | | |
|-------|------|-----|-----|-----|-----|-----|
| mbar | 1000 | 880 | 750 | 600 | 480 | 280 |
| L/min | 25 | 22 | 20 | 12 | 7.5 | 50 |

Noise:50dB

Regulator /Moisture

| Cat. No. | Description |
|----------|--|
| 18900186 | Material: PVDF, PTFE, ABS, Borosilicate Glass, Stainless Steel  |

Seals and other accessories

| Cat. No. | Description | |
|----------|--|---|
| 18204186 | vacuum seal (PTFE+Viton) |  |
| 18204187 | Evaporation bottle spring Used with 18204186 |  |
| 18900190 | Evaporation flask clip(red) NS29/42 |  |
| 18900188 | Evaporation flask clip(green) NS24/40 |  |
| 18900744 | Rotary Evaporator transparent safety shield(RE100-Pro) |  |
| 18900789 | Rotary Evaporator transparent safety shield(RE100-S) |  |
| 18204228 | Flask holder(50mL-1000mL) |  |
| | Flask holder(1L-20L) |  |

RE500-E&RE1000-E& RE2000-E&RE5000-E





Pilot Scale Digital Control Rotary Evaporator

Features

- LCD digital display with intuitive interface for operation and control.
- PID controller, precise control, fast setting.
- Stepless automatic motor lifting of the heat bath, smooth and silent.
- The reciprocation rotation function is the most useful for concentration of sample with power or solid particles.
- Double-layer high-efficiency condenser with anti-backflow design, large condensation surface area, strong evaporation capacity is a guarantee of high efficient sample recovery.
- Professional air tightness system design with PTFE sealing ring, featured with heat/corrosion resistance, and high durability.
- Optional vacuum controller to control the vacuum degree freely.
- Keep the outer surface of the heat bath at mild temperature with proprietary heat insulation design to avoid accidental personnel burn injury.
- Equipped with automatic switching valve, continuous collection can be carried out without affecting the negative pressure index of the system and solvent distillation.
- Optional water bath/oil bath heating mode (standard water bath).
- Solution can be continuously fed into evaporating flask.
- Digital display steam temperature sensing device can feed back the solvent steam temperature in real time



Specification

| | | | | |
|---|---|---|---|---|
| Photos |  |  |  |  |
| Model | RE500-E | RE1000-E | RE2000-E | RE5000-E |
| Evaporating flask volume | 5L | 10L | 20L | 50L |
| Speed range | 20-180 | 20-130 | 20-130 | 20-130 |
| Display | LCD | | | |
| Evaporation Capacity (Max.L/h) For 75% Alcohol | 2 | 3.8 | 5 | 11 |
| Ultimate vacuum | 9 mbar | | | |
| Timer | Yes | | | |
| Temperature range | 20-100°C | | | |
| Temperature control accuracy [°C] | ±1 | | | |
| Heating Power [W] | 2000 | 3000 | 4000 | 5000 |
| Temperature Display | LCD | | | |
| Lifting mode | Motorized | | | |
| Lifting Stroke [mm] | 130 | 200 | 180 | 253 |
| Time Setting Range | 0-999min | | | |
| Voltage | 220V | | | |
| Frequency [Hz] | 50/60 | | | |
| Motor | Brushless DC motor | | | |
| Heat Bath | Teflon coating | | | |
| Protection Class | IP20 | | | |
| Dimension[D×W×H] | 600*290*720 | 790*480*1130 | 900*490*1320 | 1030*510*1370 |
| Permissible ambient temperature [°C] | 5-40 | | | |
| Permissible ambient humidity | ≤80% | | | |
| Safety features | Motor over current protection, earth leakage protection, dry heating protection, overheat protection function | | | |

Vertical

| Cat. No. | Glassware type & Volume | Cooling surface |
|----------|-------------------------|--------------------|
| 18900674 | 5L Main condenser | 0.28m ² |
| 18900639 | 10L Main condenser | 0.49m ² |
| 18900640 | 10L Secondary condenser | |
| 18900688 | 20L Main condenser | 1.29m ² |
| 18900689 | 20L Secondary condenser | |
| 18900648 | 50L Main condenser | 1.75m ² |
| 18900649 | 50L Secondary condenser | |

**Evaporating flask**

| Cat. No. | Volume | Size |
|----------|--------|----------|
| 18900677 | 5L | RE500-E |
| 18900643 | 10L | RE1000-E |
| 18900690 | 20L | RE2000-E |
| 18900650 | 50L | RE5000-E |

**Receiving flask**

| Cat. No. | Volume | Size |
|----------|--------|----------|
| 18900678 | 3L | RE500-E |
| 18900644 | 5L | RE1000-E |
| 18900691 | 10L | RE2000-E |
| 18900651 | 20L | RE5000-E |

**Three way bottle**





| Cat. No. | Volume | Size |
|----------|--------|----------------------------|
| 18900676 | — | RE500-E |
| 18900642 | — | RE1000-E/RE2000-E/RE5000-E |

**Rotation axis**

| Cat. No. | Volume | Size |
|----------|--------|----------------------------|
| 18204087 | — | RE500-E |
| 18204034 | — | RE1000-E/RE2000-E/RE5000-E |



Other accessories

| Cat. No. | Description | Size | Photograph |
|----------|-----------------------------------|--------------------------|---|
| 18900683 | 5L Locking clamp | 30# |  |
| 18900682 | | 40# | |
| 18900655 | | 50# | |
| 18900656 | | 60# | |
| 18900657 | | 80# | |
| 18204035 | 5L Vacuum sealing ring | Teflon + fluorine rubber |  |
| 18203979 | 10L/20L/50L Vacuum sealing ring | | |
| 18204228 | Flask holder (50mL-1L and 1L-20L) | 90mm |  |
| | | 160mm |  |



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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