

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 |

Optional Add-ons

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



C410



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 | 5 |

Noise:50dB

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 |  |
| 18901001 | Evaporation flask clip(Black) , NS24/40, Adapted to 3L/5L Evaporating flask | |
| 18901002 | Evaporation flask clip(Black) , NS29/32, Adapted to 3L/5L Evaporating flask | |
| 18900871 | Cooling water silicone hose line | |
| 18900879 | Secondary Condenser Component |  |
| 18900744 | Rotary Evaporator Protective Shield Assembly (compatible with RE100-Pro) |  |
| 18900789 | Rotary Evaporator Protective Shield (RE100-S) |  |

Regulator /Moisture

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



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 |



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, NS24/40 |
| 18900177 | / | NS 29/42, NS24/40 |

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 |

Connector

| Cat. No. | Volume | Size |
|----------|--------|--------------------|
| 18300094 | / | NS 29/32, NS24/40 |
| 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 |

