

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. to 180°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
- Patented 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
- Patented 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
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: $\pm 3^\circ\text{C}$
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)Evaporating flask(NS29/32) Receiving flask (KS35/20)	1000mL	1700cm ²
18900174	(COATED)Evaporating flask(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)Evaporating flask(NS29/32) Receiving flask (KS 35/20)	1000mL	1700cm ²
18900172	(COATED)Evaporating flask(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
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
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, NS24/29
18900177	/	NS 29/42, NS24/40

Foam brake

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



Evaporation tube

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



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

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) CS002942	
18900188	Evaporation flask clip(green) CS002440	
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)	