EXPLOSION PROOF ROTARY EVAPORATOR

EXRDS-1050

50L Dual Set-up Explosion Proof Rotary Evaporator

Built for large-scale solvent recovery, concentration, and purification in laboratories and production facilities, this dual set-up rotary evaporator pairs a 50L evaporation flask with a 20L collection flask. Brushless motors and enclosed internals keep flammable liquids away from internal components, while GG-17 borosilicate glassware offers excellent thermal stability and chemical resistance.

- **Explosion-proof build.** Brushless motors and enclosed internals guard against flammable liquids.
- **High evaporation rates.** ≥ 13 L/h for water and ≥ 27 L/h for alcohol.
- **Dual condenser area.** 0.91 m² × 2 main plus 0.52 m² × 2 auxiliary.
- **Precise bath control.** Room temp to 180°C with ±1°C accuracy in a 77 L bath.
- **Electric lift.** Electric lift with 20-120 RPM digital step-less rotation.

MODEL EXRDS-1050



50 L	20 to 120 rpm	180 °C	77 L	0.91 m²
EVAPORATION FLASK CAPACITY	ROTATION SPEED	MAX BATH TEMPERATURE	WATER BATH VOLUME	MAIN CONDENSER AREA, ×2

Technical Specifications

Model **EXRDS-1050**

ROTATION

Rotary speed	20-120 RPM (digital step-less)
Motor	250 W
Motor type	Brushless motor

HEATING BATH

Temperature range	Room Temp to 180°C / 356°F
Control accuracy	±1°C
Heater	22,000 BTU
Bath volume	77 L
Bath fluid	Water/oil bath

OPERATION

Lifting mechanism	Electric lift
Achievable vacuum	399.9 Pa (depends on pump, seals, and operating conditions)
Evaporation (water)	≥ 13 L/h (subject to process variables)
Evaporation (alcohol)	≥ 27 L/h (subject to process variables)

GLASSWARE AND CONDENSER

Glass material	GG-17 Borosilicate Glass
Evaporation flask	50L
Collection flask	20L
Main condensing area	0.91 m² × 2
Auxiliary condensing area	0.52 m² × 2
Connections	Optimized barb sizes for secure connections

ELECTRICAL

Power supply	220-240V 50-60Hz 30A Single Phase
Power connection	Hardwired only, to quick disconnect panel
Acceptable voltage	219V - 253V
208V compatibility	Not compatible with 208V power input
Conduit end thread	M30×1.5
Conduit bushing / fitting	Not included

DIMENSIONS

Dimensions (L×W×H)	52" × 45" × 84"
Measured size (L×W×H)	35 × 48 × 54 in
Weight	426 lb

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	ELECTRICAL
EXRDS-1050	50L Dual Set-up Explosion Proof Rotary Evaporator 50L evaporation flask, 20L collection flask	220-240V 50-60Hz 30A Single phase, hardwired only

IDEAL APPLICATIONS

Botanical extraction · Pharmaceutical development · Chemical processing · Academic research · Solvent recovery · Concentration and purification

usalab.com 734-855-4890 sales@usalab.com

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