



SHENSHENG

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5L Rotary Evaporator – R502B



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Rotary Evaporator – Model: R502B



Overview

Most popular model. Highly recommended and widely used in R&D laboratory. Performance model for most reaction.

- Capacity: 3000 ml - 5000 ml;
- Teflon seal, max vacuum <2 mbar;
- Heating bath, temperature control range: RT ~ 99°C (180 °C, Oil);
- Bath hand lift mechanism;
- Quality borosilicate glass 3.3 (BORO 3.3);
- Vertical dual coil condenser;
- LED display of rotation speed and temp.
- Rotary speed: 10 – 80 rpm;
- PTFE discharge valve;
- SUS304 frame with vacuum meter.

Model

R

5

02

B

Capacity (L)

Bath Options
B-99 °C Water
C-180 °C Oil

Technical Specification & Configuration

Parameter

Model	R502B
Evaporating Flask (L)	5L/F50
Receiving Flask (L)	3L/KS35, Bottom Discharge
Condensing Surface (m2)	0.30 Vertical
Evaporation Efficiency (H2O)	> 2.0L/h
Motor Power (W)	30W
Rotation Speed (rpm)	10 – 80
Max Vacuum Level (mbar)	< 2 mbar (-0.0998MPa)
Glass Material	Borosilicate Glass 3.3 (BORO 3.3)
Heating Power (kW)	2 kW
Temp. Control Range & Accuracy (°C)	RT - 99 (180, Oil) ±1°C
Bath Size, Capacity, Material	Φ28×17H, 10L, SUS304
Height Adjustment (cm)	Bath Hand Lift, 13cm
Dimensions (cm)	92×45×105H
Power Supply	220V/50Hz

Configurations

Model	R502B
Seal	Teflon Sealing
Heating Bath	Digital Setting
LED Digital Display	Rotation Speed, Bath Temperature
Lift Mechanism	Bath Manual Lift
Vacuum Meter	Scale
Safety Features	Over-current Protection No-spark Electronic Control
Oil Bath (180°C)	Optional
Anti-splash Trap	Optional

Features

Teflon Sealing, Vacuum Tight



Durable
Teflon/PTFE sealing
enables max
vacuum level reach
<2mbar.

Compatible with 3 – 5L Flask



3L – 5L/F50
evaporation flask is
applicable. Anti-splash
Trap is optional
against bumping.

PTFE Discharge Valve



Resistant to
corrosion and no
pollution risk to
condensate by
vacuum grease for
clean and quick
discharge.

Heating Bath, Durable



Quick, precise heats
water or oil and
covers a wide temp.
range from RT – 99
°C (180°C, Oil).
Economic and safe
lift jack to smooth
adjust bath height.

Condenser & Distribution Piece



Excellent for
solvents with low
boiling points.
Prevent reverse
flow of condensates
to evaporating flask.

Stepless Control & Induction Motor



Stepless control of
rotation speed range:
10 – 80 rpm;

LED display of actual
rotation speed;

AC induction motor,
brushless, low noise.

Rotary Evaporator Set – Laboratory Scale



Along with Rotary Evaporator, Shanghai Shensheng provides Vacuum Pump and Cooling Circulator which are designed for optimal use with Rotary Evaporator.



Cooling Circulator
DL-2005

Rotary Evaporator
R502B

Vacuum Pump
SHB-3A

Cooling Circulator



Cooling supply for condenser with lowest temperature of -15°C.

Close circulation of thermal oil to prevent imbibitions from air during cooling, which ensures the purity of thermal oil to increase its lifespan.

Outstanding safety features and performance.

Parameter

Model		DL-2005
Temp. Control Range (°C)		-15°C - RT
Temp. Control Accuracy (°C)		2°C
Flow Rate (L/min, bar)		15 L/min 0.7 bar
Cooling Power (kW)	0°C	1.5
	-10°C	1
	-15°C	0.45
Coolant		R404A
Temperature Display		Digital Display
Close Circulation		●
Dimension (cm)		40×32×65
Power Supply		220V/50Hz

Safety Features

Model		DL-2005
Compressor Over-temp. Protection		●
Error Alarm		●
Overload Protection		●
High Pressure Protection		●

Vacuum Pump

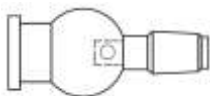
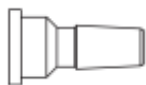


- Safe and reliable water circulation vacuum pump.
- Equipped with two independent suction nozzles for vacuum supply.
- Can be water supply for condenser.
- Oil free and water saving.

Parameter

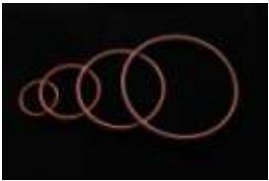
Model	SHB – 3A
Type	Water Circulation
Max Vacuum (mbar)	20 mbar
Rate (L/min)	10L/min×2
Power	180 W
Dimensions (cm)	39×28×42
Power Supply	220V/50Hz

SPARES & ACCESSORIES



Item	Description	Specification
Evaporating Flask	Flange, Round	3L/F50 5L/F50
Receiving Flask	Ball, Round, Bottom Discharge	3L/KS35
Joint Adaptor	Flange to Taper	F50 → NS29 F50 → NS24
Anti-splash Trap Adaptor	Flange to Taper, Anti-splash	F50 → NS29 F50 → NS24
Vapor Duct	Flange	Φ22/R502
Distribution Piece	Turbo	F50/KS35
Inlet Valve	Taper with Valve	NS19
Condenser	Dual Coil Condensing Surface (m ²) : 0.30m ²	Vertical

SPARES & ACCESSORIES



Item	Description	Specification
Cold Trap (Dry Ice)	Jacketed with Cover	Φ80
Main Seal	PTFE	Φ50
Discharge Valve	PTFE	F36
O Ring	FKM EPDM FEP FFKM	Φ22 Φ50
Clamp	Flange Ball Clamp	F36 F50 KS35

Factory Show - Shanghai Shensheng Biotech Co., Ltd.



Manufacture Plant in Shanghai



Quality Mechanical Parts



Experienced Glassware Maker



Fine Processing



Individual quality control for every unit



Pilot Scale Jacketed Glass Reactor



Pilot Scale Rotary Evaporator

Our Customer



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