

# **Zhengzhou Elab Instrument Co., Ltd.**

## **R-1010 (New 10L Rotary Evaporator)**

### **Features and Technical Parameters**

#### **Description:**

Rotary evaporator is a device used in chemical laboratories for the efficient and gentle removal of solvents from samples by evaporation.

Rotary evaporator is the use of stepless speed control glass rotating bottle constant speed rotation, the material in the bottle wall to form a large area uniform film, and then by the intelligent constant temperature water bath on the rotating bottle of uniform heating, vacuum conditions, high-speed evaporation, Efficient glass condenser cooling, recovery in the collection bottle.

#### **Feature:**

1. The main body of the use of stainless steel + aluminum alloy, reasonable structure, materials stress.
2. Glass parts are all high borosilicate glass (GG-17), high temperature, anti-corrosion.
3. Sealing system imported fluorine rubber and Teflon two-way combination of sealed, corrosion-resistant long life, to maintain high vacuum.
4. Vacuum pressure gauge shows real-time vacuum, oily table with anti-vibration characteristics.
5. Vertical three-tier serpentine coil condenser, the main cold + cold dual condenser to ensure high recovery rate.
6. Can be continuous feeding for customers to use, valve-type feeding valve sets of tetrafluoroethylene tube.
7. Collection of bottles with a discharge material to facilitate the evaporation of the

collection of extract, discharge.

8. Check valve control, continuous discharge, the machine in the working state, can be vacuum switch.
9. All valves with the latest one hand wheel valve, good sealing, the operation is more simple and convenient
10. Microcomputer power switch control.
11. LCD full screen display, temperature, speed double digital display, bath pot thermostat control, PT100 sensor fast and accurate delivery temperature.
12. DC brushless motor, rotating stability, no spark, slow increase force.
13. Bath electric lift, lift part of the use of slowdown power motor, lifting process more smoothly.
14. pot gallbladder with high quality 304 stainless steel, corrosion and durable, pot gallbladder outer layer of silicone layer, high temperature use more secure.
15. Over-temperature safety protection function, when the actual temperature exceeds the set temperature of 5 °C, the machine will automatically turn off the power.
16. anti-dry function, heating pot water level below the heating pipe, the machine will automatically power off.
17. If the machine is suddenly powered off and the power is turned on again, the machine will automatically stop heating.

## Product Picture



**Pictures are for reference only, subject to actual availability.**

## Main Technical Parameters

<b>Model</b>	R-1010
Voltage/Frequency	220V/50HZ
Whole power	3100W
Rotary power	60W 1/5
Lifting power	40W 1/12.5
Heating power	3000W
Vacuum degree	0.0095Mpa
Rotary flask volume	10L,Φ280mm/Φ95 Flange port
Receiving flask volume	5L,Φ230mm/ upper with Φ60 *Φ35 flange port*2*down with Φ50 flange port
Rotary speed	0-120rpm/min
Temp.controlling range	room temperature -180°C
Temp. accuracy	±1°C
Flask lifting distance	190mm
Condenser size	The main condenser Φ120*620H(mm) upper with Φ60 flange port * down with Φ80 flange port The assisted condenser Φ135*475H(mm) upper with Φ80 flange port* down with Φ60 flange port*side with Φ60 flange port
Condensation area	0.51(0.33+0.18)m <sup>2</sup>
Air guide bottle	Left with Φ35 flange , upper with Φ35flange , side with Φ60 flange , right with Φ60 flange
Charging valve	Φ35 flange ,glass+PTFE valve ,feed nozzle (pagoda-shape connectors) outer diameter 12mm
Multi-function port	Φ35 flange , glass+PTFE valve, glass nozzle (pagoda-shape connectors) outer diameter 12mm

Vacuum suction nozzle	Φ60 flange glass exhaust pipe suction nozzle (pagoda-shape connectors), outer diameter 10mm
Condensing coil in and out circulation nozzle	Pagoda-shape connectors, outer diameter 16mm
Vent valve	Φ35 flange port*2, glass+PTFE valve, vent nozzle (pagoda-shape connectors), outer diameter 12mm
Baiting valve	Φ50 flange port, side discharging nozzle(pagoda-shape connectors), outer diameter 20mm, 210mm from the floor
Pot bravery size	Φ350*220H(mm) about 21L
Overall dimensions (W*L*H)	1130*470*1940mm
Net weight	64kg
Packing dimensions	980*520*1190 ,0.61m <sup>3</sup>
Packing weight	101kg