

Technical Specifications of Rotary Vacuum Evaporator

Rotary Evaporator

1. Manual quick – action jack hand lifting for simple raising and lowering of the flask by hand case of power failure.
2. Rotavapor should have arm and handle for physically visualisation and movement.
3. Rotation speed up to 280 rpm or better with microprocessor control.
4. Shielded thermostatic bath.
5. Heating bath for temperature of 20 – 95 dec C with an accuracy of ± 2 deg C.
6. Digital bath temperature display of both set and actual temperature simultaneously.
7. Over-temperature protection power cut off when actual temperature exceeds set temperature or by rapid temperature increase.
8. Bath guidance Integrated in the Rotavapor® base allows to easily position the heating bath along the guidance (sideways) when various evaporating flasks are used.
9. Evaporating flask from 50-4000 ml can be used on the same joint adapter without additional connections.
10. Vertical Glass Assembly with high quality, inert 3.3 grade borosilicate glass with 2.1 mm inner wall thickness & Continuous Vapor Ducting.
11. Cooling surface of vertical glass assembly 1400 cm² or better.
12. 1-liter Evaporating Flask and 1 liter Receiving Flask should be provided in standard scope of supply.
13. Automatic overheat cut-off protection.
14. Lift extension Up to 100 mm allows use of bump traps and glass extenders.
15. Multifunctional Combi-Clip tool for evaporating flask fixation and removal as well as vapor duct release.
16. Ingress Protection (IP) Class should be 20 or better.

Vacuum Controller

1. Modular (not integrated) vacuum Controller with Digital display 4" Colour screen.
2. Measuring range: 1400- 1 mbar.
3. Control range: 1100- 1 mbar.
4. Measuring principle: capacitive, independent of gas type, absolute pressure gauge / sensor made from aluminum oxide-ceramic.
5. Measuring accuracy: ± 2 mbar (± 1 digit) - after calibration at constant temperature.
6. Hysteresis: Automatic or 1 – 500 mbar
7. Display: Digital, monochrome, 4.0 in
8. Protection class: IP20

Vacuum Pump

1. Single stroke, 2 stages PTFE Chemically resistant Diaphragm Vacuum Pump with a flow rate of 1.5 m³ /h.
2. Ultimate vacuum – less than 10 mbar (± 2 mbar)
3. The pump should consume less electrical power and works under reduced stress so that overall maintenance costs will be reduced over the lifetime of the pump.

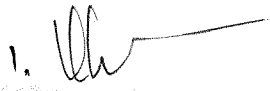
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Recirculating chiller

1. Temperature Range: -10° to +100°C
2. Temperature stability: +/- 0.02 K
3. Heating capacity: 2000 W
4. Cooling Capacity: 240 W
5. Water bath volume up to 6 Liters
6. Max. pressure 300 mbar
7. Flow rate 17 Lit/ min
8. Simple operation via new navigator with large full-text display
9. Temperature settings can be calibrated on each Real temperature adjustment system.
10. Auto-restart option after power breakdown.
11. Timer option with real-time clock.
12. Adjustable pump speeds for flow or bath agitation.
13. Safety class: 1 (NFL)
14. UPS: 3 KVA
15. Warranty: 3 years

Important Note

Vendor should clearly mention make and model, also enclose Catalogue/Data sheet of the Model quoted in support of the above-mentioned Specifications otherwise their bids will be rejected. No letter head justifications will be accepted.

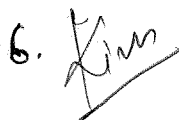
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