

**SPECIFICATIONS FOR ROTARY EVAPORATOR WITH VACUUM PUMP & CHILLER
ROTAVAPOR**

- ☞ Electric/Motorized lift
- ☞ Provisions for automatic lifting of the flask in case of power failure
- ☞ Integrated digital display of Lift position.
- ☞ Rotation clockwise and counter-clockwise with speed up to 280 rpm or better with microprocessor control.
- ☞ Vertical Glass Assembly with cooling surface area of 1500 cm² with extra-large top hole on top of condenser that allows easy cleaning.
- ☞ Digital bath temperature display of both set and actual temperature simultaneously with microprocessor control ranging from ambient to 220 deg C with an accuracy of ± 1 deg C.
- ☞ Bath temperature lock to prevents accidental change of settings
- ☞ Push Button Interface for Single Centralized control of chiller, water bath, vacuum pump
- ☞ Automatic over heat cut-off protection.
- ☞ Wireless contacts on the heating bath (Kettle Technology) both for power supply and communication for better safety.
- ☞ Evaporating flask from 50-5000 ml can be used on the same joint adapter without additional connections.
- ☞ LCD-display of Heating bath that displays all operating parameters Indicates set and actual values of heating bath temperature, rotation speed and lift position
- ☞ Condenser Assembly supplied should be P+G Coated
- ☞ Protection Class IP21.
- ☞ Approvals CE / CSA
- ☞ 1 liter Evaporating Flask and Receiving Flask should be provided in standard scope of supply.

VACUUM CONTROLLER

- ☞ Vacuum controller with control knob and large graphic LCD display screen.
- ☞ Integrated solvent database of 43 solvents for convenient setting of distillation conditions.
- ☞ Centralized control of Speed control vacuum pump, Recirculating Chiller, Heating bath.
- ☞ Integrated aeration valve and precision pressure sensor.
- ☞ Timer function for process termination after pre-specified time
- ☞ Set and actual cooling temperature display, as well as working pressure display on vacuum controller.
- ☞ Woulff bottle included
- ☞ Single button operation to shut down Rotavapor, pump and re-circulating chiller at the end of distillation.
- ☞ Approvals CE / CSA

Vacuum Pump

- ☞ Single stroke Speed control vacuum pump with a vacuum capacity of 1.8 m³ /h.

- ☞ Final vacuum of 5mbar
- ☞ 2 stage chemically resistant PTFE diaphragm pump
- ☞ Soundproofing with enclosed housing and Silencer to minimize noise down between 32-57dB.
- ☞ Inspection window - A large glass window at front side should be there to observe the two pump heads and membranes for eventual cleaning of the dirt particles.
- ☞ Approvals CE / CSA

Re-circulating Chiller

- ☞ Compact and Robust Re-circulating Chiller with a cooling capacity of 900 Watts at 15 deg C and 450 Watts at 0 deg C
- ☞ Temperature Range: -10 to 25 deg C
- ☞ Power consumption (max.) 1100 W
- ☞ Temperature display resolution 0.1 °C
- ☞ Tank Volume : 4.5 L
- ☞ Flow rate 3 L/min
- ☞ Should have Temp Lock
- ☞ Coolant: CFC Free

Below items to be quoted additionally:

Vacuum Seals/ Gasket	2 No.s
Diaphragm for Vacuum Pump	1 No.s
Receiving Flask (1000ml)	1 No.s
Evaporating Flask (250ml)	2 No.s
Evaporating Flask (500ml)	1 No.s

NOTE: All accessories and spare parts including Vacuum pump, Chiller and Vacuum Controller should be from the same Make/Manufacturer.

Warranty: Three years from the date of installation.