

1. Rotation Speed up to 280 RPM, Vertical condenser with Condenser surface area of 2200 cm² or more.
2. It should have integrated control panel with digital LCD display in front of main machine to control and adjust rotation and heating temperature.
3. Rotary Evaporator with condenser having 1 litre Evaporating flask and 1 litre receiving flask.
4. Hand Lift with brushless DC motor with electronic speed control, Evaporating flask should lift automatically during power failure, should be having the option to adjust height by press of a button.
5. There should be standby function and residual heat warning at heating bath temperatures above 50°C.
6. There should be two separate knobs with dynamic control for setting the rotation speed and heating bath temperature.
7. The Accidental changing of the values can be prevented by the lock function & the locking function of the knobs prevents unintentional adjustment of the values.
8. The universal heating bath temperature should be 20-210 Degree Centigrade or wider range starting from 20 degree C.
9. Bath Temperature Accuracy $\pm 1^\circ\text{C}$.
10. Heating bath should accommodate 5litre flask as a standard and allows for 200mm horizontal extension and height adjustment of at least 155mm.
11. Heating bath should have safety handles and drain spout available
12. Heating bath should have cut-off at 5 Degree Centigrade over set temperature and Secondary over temperature cut-off of 250 Degree Centigrade.
13. Protection Class: IP20
14. All parts which are in contact with the media should consist of GRAPHITE filled PTFE Vacuum seal.
15. The control panel should be in accordance with IP 42 to protect electronics control panel from water splash and the optional extension cable to allow placing the control panel outside closed laboratory hoods.

Vacuum Pump and Controller (Qty. 01):-Two stage valve control vacuum pump with suction capacity of 0.75m³/h or better. Ultimate vacuum range is within ≤ 12 mbar. Chemically resistant diaphragm made of PTFE. Pump should be supplied with manual or digital vacuum controller. Pressure range from 0 to 1,020 mbar in 50 mbar increments.

Chiller (Qty. 01):-Compact and Robust Re-circulating Chiller with a cooling capacity of 600 Watts or better at 20 °C. Temperature Range: -10 °C to ambient temperature or more. Tank volume: 4 litres or more. Temperature fluctuation range: ± 1 °C or better. Flow limit of the pump: flow range 8 to 10 l/min or better. Coolant: CFC Free

Accessories: -

1. Woulff Bottle
2. cooling tube
3. 10L non-flammable thermal fluid for heating and low temp. Range
4. Foam brake with flask clamp
5. Vacuum seal PTFE/FFKM
6. Tube Set
7. Ventilation valve
8. Extension cable which allows quick and easy operation even outside closed fume hoods