



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076

Purchase Requisition No. 1000011139 (SRM/REFX No. 6100000167)

Technical Specifications:

Turbo molecular pump

1. Inlet flange CF 100 or equivalent
2. Pumping speed ca.250 lps for N₂
3. Corrosive resistant
4. Compatible for NH₃, H₂S and PH₃
5. Air cooled and automated venting valve
6. Computer interfaceable controller unit, Rack mount compatible (19 inch)
7. Permanent magnetic bearing at high vacuum side and oil lubricated ceramic bearing at the bottom side
8. All necessary cables to run the turbo should be provided

Double stage rotary vacuum pump

1. Double stage rotary vane vacuum pump (ca.5m³/h)
2. Corrosive resistant
3. Oil mist filter and oil return unit with high speed, high vacuum safety valve
4. Extra pump oil and connecting components like clamp and centering ring
5. with Magnetic coupling

Vacuum gauge

1. Atmosphere to UHV
2. Pirani/Cold cathode measurement
3. Sensor cable length 300 m
4. Tungsten filament & Mo anode

Gauge controller

1. Ambient temperature (10-55⁰C)
2. I/O interfaces
3. Measurement rate > 90 Hz