

Specification of Vacuum Pumps

Sl. No.	Item Description
1.	<p>A. Turbo molecular-drag-pump with sealing gas connection and Air / water cooling arrangement (provide nipples at inlets and outlets for fixing to 3/8" ID flexible tube) with the following specifications.</p> <p>A.1 Inlet flange: DN 160 ISO-KF, (To be provided with viton 'O' ring, centring ring and single Claw & Bolts for fixing to a bolted tapped flange of gate valve)</p> <p>A.2 Outlet flange: DN 25 ISO-KF,</p> <p>A.3 Pumping speed for Nitrogen : 450 l/s minimum</p> <p>A.4 Ultimate pressure (as per DIN 28428 standard) with backing of rotary pump: Better than 5×10^{-10} mbar</p> <p>A.5 Suitable to pump Nitrogen and Argon</p> <p>B. Power Supply /Display unit for Turbo molecular Pump:</p> <p>B.1 Input voltage: 230+/- 20 V AC, 50 Hz</p> <p>B.2 Mains cable with Indian Plug suitable for input supply.</p> <p>B.3 Output: Compatible to the pump</p> <p>B.4 Thermal cut off protection to be provided</p> <p>B.5 Interfacing cable length: 5 m minimum</p> <p>B.6 Splinter shield: To be provided for turbo pump and venting valve</p> <p>B.7 Warranty: one year</p> <p>B.8 Installation and Commissioning to be done at ASSCP Gurgaon, 25 km from Delhi Airport</p> <p>B.9 Instruction and maintenance Manual to be provided.</p>
2.	<p>Double Stage Rotary vane pump</p> <p>2.1 Pumping Speed: 25 m³ / hr</p> <p>2.2 Inlet / Outlet flange: DN 25 ISO-KF,</p> <p>2.3 Ultimate pressure : Without gas ballast : 0.005 mbar, With gas ballast : < 0.02 mbar,</p> <p>2.4 Oil requirement: 1st charge of rotary oil to be supplied along with the pump.</p> <p>2.5 Input voltage: 400+/- 10% V AC, 3 phase, 50 Hz,</p> <p>2.6 Flexible metal hose DN 25 ISO-KF length: One meter, stainless steel Clamping ring, DN 25 ISO-KF aluminum/steel for elastomer seals</p> <p>2.7 Warranty: one year.</p> <p>2.8 Installation and Commissioning to be done at ASSCP Gurgaon, 25 km from Delhi Airport.</p> <p>2.9 Instruction and maintenance Manual to be provided.</p>
	<p>NOTE:</p> <p>1.Order for item # 1 & 2 could be split.</p> <p>2. For any technical clarification please contact –</p> <p>Dr B Prasad, DGM(ASSCP) email Id : bprasad@bhel.in Shri S Bhattacharya, AGM(ASSCP) email Id : sudip@bhel.in</p>