

Product Name :
Rotary Vacuum Filter**Product Code :**
ALABS-A155-004**Description :****Rotary Vacuum Filter**

The most common types of continuous vacuum filter is the rotary drum filter. A horizontal drum with a slotted face turns at less than 2 RPM in an agitated slurry trough. A filter medium, such as canvas, covers the face of drum, which is partly submerged in the liquid. Under the slotted cylindrical face of the main drum is a second, smaller drum with a solid surface. Between the two drums are radial partitions dividing the annular space into separate compartments, each connected by an internal pipe to one hole in the rotating plate of the rotary valve. Vacuum and air are alternately applied to each compartment as the drum rotates. The set-up consists of stainless steel drum moving in gunmetal brackets and is divided in 6 compartments, covered by a Stainless Steel mesh. A canvas filter is used for filtration. The whole assembly is fitted with a SS trough in which a agitator is provided. To make the unit a self-contained a slurry mixing and feed arrangement, receiver tanks, vacuum pump, control panel are provided.

Experimentation:

- To study the performance of a Rotary Vacuum Filter.

- To study the operation of Rotary Vacuum Filter under vacuum.
- To determine the specific cake resistance and medium resistance.

Utilities Required :

- Electric Supply: Single phase, 220 V AC, 3.5 kW.
- Water supply.
- Drain.
- Slurry required to performing experiment.

Technical Details :

Frame Dia Stainless Steel, Dia. 250 mm, Length 350 mm.

Material Stainless Steel

Canvas Cloth

No. of Zones

Drive for Drum coupled to a Reduction Gear Box

Material Stainless Steel, Compatible capacity.

Material Stainless Steel, driven by FHP motor with Reduction Gearbox.

Strainer Steel, capacity 75 Ltrs.

Gear Pump with ½ HP motor

Strainer Steel, Agitator with SS Shaft coupled to FHP motor and Reduction Gear Box

Material Stainless Steel, Capacity 10 Ltrs. (2 Nos.)

Vacuum Pump type coupled to a 1 HP Motor

Pipe and PVC size ½

Control panel Comprises of Standard make On/Off switch, Mains Indicator etc.

Instruction Manual Instruction manual will be provided along with the Apparatus

A good quality painted rigid MS Structure is provided to support all the parts.



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