

PRESSURE DROP THROUGH PACKED BED (EE-1648)

DESCRIPTION

The set-up consists of a glass column packed with packing material i.e. Rasching rings, SS mesh to support the packing and with calming section. Pressure drop across packed bed can be measured by a manometer. The apparatus is close circuit type provided with tank, Pump, necessary piping, valves and Rotameter to measure the flow rate of fluid. The set-up is fitted on a MS frame and painted with good quality corrosion resistant paint.

SCOPE OF EXPERIMENTATION

- To study relationship between velocity of fluid and pressure drop per unit packed length.

UTILITIES REQUIRED

- Electricity 500 watts, 220 V, 1 Phase.
- Floor Area 0.75 m x 0.75 m.
- Manometric Fluid : 250 ml.

TECHNICAL DETAILS

- Packed Column : Material Borosilicate Glass with both end made of Stainless Steel
- Packing : Material Borosilicate Glass Rasching rings Size 8-10mm approx.
- Water tank : Material Stainless Steel, Capacity 30 Ltrs
- Water Circulation : FHP Pump Kirloskar/Standard make
- Flow Measurement : Rotameter for water
- Pr. Drop Measurement : Manometer
- Instruction manual will be provided along with the Apparatus.
- The whole set-up is well designed and arranged in a good quality painted structure.

