

Product Name :
Fluidized Bed Charcterstics

Product Code :
Transfer0017



Description :

Fluidized Bed Charcterstics

Technical Specification :

Fluidized Bed Charcterstics

The setup consists of a glass column with fluidizing material i.e. beads, S.S. mesh to support the beads and with calming section. Pressure drop across fluidization can be measured

by manometer. The setup studies in fluidization characteristics and relationship between the velocity of the fluid and pressure drop per unit length. The apparatus is close circuit type provided with suitable capacity tank, FHP pump, necessary pipeline valves and a Rotameter to measure the flow rate of fluid. The setup is fitted on a MS frame painted with good quality paint.

Experimentation:

- To study fluidization characteristics.
- To study relationship between velocity of fluid and pressure drop per unit length.
- Utilities Required :
- Electricity 500 watts, 220 V, 1 Phase.
- Floor Area 0.75 m x 0.75 m.

Technical Details :

- Column : Material Borosilicate Glass.
- Packing : Glass Beads
- Water tank : Material Stainless Steel, Capacity 30 Ltrs.
- Water Circulation : FHP Pump, Crompton/Sharp make.
- Flow Measurement : Rotameter for water
- Pr. Drop Measurement : Manometer

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