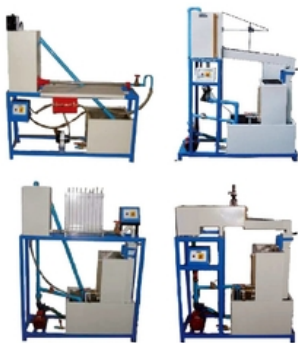


Hydrodynamic Of Trickle Bed Reactor



Product Categories: [Chemical Reaction Engineering Lab](#), [Engineering Equipment](#)

Product Page:

<https://www.labappara.com/product/hydrodynamic-trickle-bed-reactor/>

Product Description

Hydrodynamic Of Trickle Bed Reactor

Technical Description:

The set-up consists of a glass column. Arrangement is made for changing the glass column conveniently and filling it with any type of packing required. Air from a regulated pressure vessel passes through a sparker and allowed to enter in the column at the top. Liquid is feed from a tank, fitted with a pump and is distributed at the top of a column using a spray nozzle.

Set-up is fully accompanied with manometers required. Solenoid valves are provided in the feed line at the top of column for instant release and close. The flow rate can be adjusted by operating the valves provided in respective line.

Technical Specifications:

Packed Bed : Material Borosilicate Glass Dia. 80mm, Height 600mm

Packings : Glass Beads Dia. 3 mm/Rasching Rings, size 8-10 mm

Flow measurement: Rota+meter one each for water and air.

Liquid Feed Tank: Material Stainless Steel Capacity 60 Ltrs.

Feed Circulation: Centrifugal Pump capacity $\frac{1}{4}$ HP Crompton/Sharp make.

Air Tank: Compatible Capacity.

Pressure Regulator (2 Nos.): 1. Operating range 0-2 kg/cm² and 0-10 Kg/cm²

Pressure Gauge: Bourdon Type.

Mixing Chamber: Material Stainless Steel of Compatible Capacity for Air & Water.

Liquid Catch Pot: Material Stainless Steel of Compatible Capacity.

Solenoid Valve: 2 Nos. (One each at Liquid and air inlet).

Manometers: Compatible capacity.

Piping: Material Stainless Steel and PVC. ½" Line size.

Control Valves: Material Gun Metal/Brass