

Plate & Frame Filter Press



Product Categories: [Engineering Equipment](#), [Mechanical Operation Lab](#)

Product Page: <https://www.labappara.com/product/plate-frame-filter-press/>

Product Description

Plate & Frame Filter Press

Description:

Pressure filters can apply a large pressure differential across the septum to give economically rapid filtration with viscous liquids or fine solids. The most common types of pressure filters are filter press. A filter press contains a set of plates designed to provide a series of chambers or compartments in which solids may collect. The plates are covered with a filter medium such as canvas cloth. Slurry is admitted to each compartment under pressure; passes through the canvas cloth and out a discharge pipe, leaving a wet cake of solids behind. Plates and frames sit horizontally in a metal rack, with cloth covering the face of each plate, and are squeezed tightly together by a screw. Slurry enters at one end of the assembly of plates and frame. It passes through a channel running lengthwise through one corner of assembly. The set up consists of 7 plates and 6 frames. Frames are covered with filter cloth. Feed is fed by gear pump at the top and filtrate collected at the bottom from each plate by operating the cock. After removing cake, washing and cleaning can be done by water provided by overhead tank. Inlet & outlet pressures are measured by pressure gauges. Rate of filtrate removals is measured

by calibrated tank provided.

Technical detail:

No. of frame : 6

No. of Plates : 7

Size : 200 mm x 200 mm.

Material : Acrylic

Screw Jack arrangement for tightening and removing of frames easily.

Filter Medium : Filter Cloth

Filtrate collection tray : Material Stainless Steel, Suitable size.

Slurry Feed tank : Material Stainless Steel, Capacity 40 Ltrs.

Slurry Tank Agitator : Stainless Steel Impeller with SS Shaft coupled to

FHP

Motor and Reduction Gear Box.

Slurry Feed Pump : Gear Pump with FHP motor.

Piping system : GI and PVC.

Filtration rate measurement : Using measuring tank. Material Stainless Steel

Pressure Measurement : Bourdon type pressure gauge.

Overhead water tank : Material Stainless Steel , Capacity 25 Ltrs.

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

Instruction Manual : An ENGLISH instruction manual will be provided

along

with the Apparatus