

Solid-Liquid Extraction (Bonnotto Type)



Product Categories: [Engineering Equipment](#), [Mass Transfer Lab](#)

Product Page:

<https://www.labappara.com/product/solid-liquid-extraction-bonnotto-type/>

Product Description

Solid-Liquid Extraction (Bonnotto Type)

Description: -

The setup consists of Bonnotto type extractor of slotted circular plates arranged one above the other in opposite radial opening. The solids are introduced at the top through a hopper spread over the top plate by a rack and pushed to slot to fall to the next plate below and so on to the bottom of the column. The solvent is introduced near the bottom of the column and it flow upward counter-currently to the solids. A pump supplies the solvent and flow rate is monitored by means of a Rota-meter. At the bottom of column a screw conveyor arrangement is done to remove the extracted solids driven by means of an electric motor. Solvent feed tank is kept in a bath fitted with heater and digital temperature controller is used to maintain the constant temperature.

TECHNICAL DETAILS:

Extraction Column : Material Stainless Steel Dia 150 mm, Height 750 mm (approx)

Plates : Material Stainless Steel, with Radial opening.

Mixer : Stainless Steel Impellers fitted on Stainless Steel Shaft coupled to a motor & reduction gear box.

Screw Conveyor : Material Stainless Steel, Compatible capacity, housed in GI Pipe and driven by a motor & reduction gear box.

Solvent Flow Measurement : Rotameter.

Solvent Tank : Made of Stainless Steel, Capacity 30 Ltrs. Double wall.

Feed circulation : Magnetic Pump made of Polypropylene to Circulate solvent.

Maximum working temperature is 60°C.

Heater : Ni-chrome wire heater.

Feed Hopper : Suitable capacity.

Filtration Sieve : Material Stainless Steel.

Receiving Tank for : Material Stainless Steel.

Extracted solid waste : Compatible capacity.

Temperature Sensor : RTD PT-100 type.

Digital Temp. Controller : 0-200°C, For Feed Tank