

Product Name :
Solid/Liquid Extraction Unit Complete**Product Code :**
ELAB-ENG-11-0001**Description :**

Solid/Liquid Extraction Unit Complete

Technical Specification :

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 Rotameter. 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.

Experimentation/Learning Objectives:

To determine the efficiency of a continuous counter-current Solid-Liquid Extraction system.

Utilities Required Electricity Supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp combined socket with earth connection.

Earth voltage is less than 5 volts.

Water supply

Floor area required:

Solvent : 50 ltrs.

Solid : 30 kg.

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