

Product Name :
Solid Liquid Extraction (Packed Bed Type)

Product Code :
ALABS-A153-016



Description :

Solid Liquid Extraction (Packed Bed Type)

This setup is designed to study the performance characteristics of solvent extraction of a particular component from a packed bed of solid material. The apparatus allows study of such systems as water / inorganic salts, water/sugar bed, methylene chloride / vegetable oil etc.

The set up consists of a glass column, feed tank, receiving tanks and piping. Rotameter are provided for flow measurement. The glass column is fitted with SS mesh to support the solid material.

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. Solvent feed tank is kept in a bath fitted with heater. A digital temperature controller is used to control and measure the temperature of feed

Experiment :

- To study the effect of various system parameters like, solvent temperature, solvent rate and particle on the % recovery of oil from solid

Features :

- Stainless Steel tanks and wetted parts
- Superb Painted structure
- Simple to operate & maintain
- Compact & stand alone set up

Utilities Required :

- Electricity Supply: 1 Phase, 220 V AC, 1.5kW.
- Solvent: 30ltrs
- Solid: 10kg.
- Table for setup support



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