Jain Laboratory Instruments

Product Code . JL-FMAHLE-7321

Solid Liquid Extraction Packed Bed Type

Description

Solid-Liquid Extraction Packed Bed Type

Description:-

This setup is designed to study the performance characteristics of solvent extraction of a particular component from a packed bed of solid material.

The glass column is fitted with SS mesh to support the solid material.

The apparatus allows the study of such systems as water/inorganic salts, water/sugar bed, methylene chloride/vegetable oil etc.

The solvent is introduced near the bottom of the column and it flows upward counter-currently to the solids.

Solvent feed tank is kept in a bath fitted with a heater and digital temperature controller is used to maintain the constant temperature.

A pump supplies the solvent and flow rate is monitored by means of a Rota meter.

Specifications:-

Extraction Column: Material Borosilicate Glass.

Solvent Flow Measurement: Rota meter.

Heater: Nichrome wire heater

Temperature Sensor: RTD PT-100 Type.

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

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

Electricity Supply: 1 Phase, 220 V AC, 1.5 kW.

Digital Temp. Controller: 0-199.9 deg C (For Hot Water Bath).

The whole set-up is ingeniously designed and schematically arranged on a powder-coated rigid structure.

Solvent Flow Measurement: Rota Meter.