

Liquid – Liquid Extraction Unit



Features

- ◆ Designed to demonstrate principle of Liquid – Liquid Extraction.
- ◆ Includes Pulsing Unit with capability to vary amplitude & frequency of Pulsation.
- ◆ Comprehensive Instrumentation Panel with all necessary measuring instruments & Safety Devices.

has been designed to demonstrate liquid-liquid extraction process, allowing an easy but exhaustive experimentation with appropriate instruments. The unit consists of a glass extraction column, distillation column, Liebig condenser, Stainless steel tanks for feed, solvent, raffinate, extract and top product. Two pumps are used for feed & solvent supply.

Detailed Operation & Maintenance Manual is provided along with the trainer.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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Liquid – Liquid Extraction Unit



Specifications

- Wheeled 30x30mm extruded aluminium sectioned frame structure
- Glass extraction column with diameter of 40-50 mm, h=600-1500 including disc agitator with speed electronic indicator
- Borosilicate glass top and bottom separators
- 2 metering pumps: feed pump with max flow rate of 1000 mL/min and solvent pump with max flow rate of 1200 mL/min
- Plastic feeding tank for the light phase, capacity of 30 L approx
- Plastic feeding tank for the heavy phase, capacity of 15-30 L approx
- Plastic tank for the extracted product, capacity of 30 L approx
- Plastic feeding tank for the refined product, capacity of 30 L approx
- Switchboard IP55 with plant synoptic and ELCB and emergency pushbutton.
- Complete and exhaustive manual, English language.

Experiment Capabilities

- ◆ Separation of two components liquid mixture by extraction using a solvent
- ◆ Determination of the extraction efficiency
- ◆ Mass balance
- ◆ Calculation of the number of theoretical stages
- ◆ Number of transfer units and height of a transfer unit

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