

Product Name :
Vapor Liquid Equilibrium Apparatus**Product Code :**
ALABS-A56-014**Description :****Vapor Liquid Equilibrium Apparatus**

The set-up is designed to demonstrate and study the vapor-liquid equilibrium. As basic data of any distillation problem is the equilibrium between the liquid and vapor phases of the system subjected to distillation. Hence it is of great importance to study the VLE.

The set-up consists of distillation still with a heating element, shell & tube condenser, reflux & distillate section. A tank with pump is provided to circulate cold water to condenser. Flow rates can be regulated through control valve fitted. Instrumentation is done to measure the temperatures at different points.

A Digital Temp. Controller is connected to heating element for precisely controlling & varying heat input. The vapors from the top of column are condensed in the shell and tube type condenser by circulating cooling water. The condensate is collected in reflux drum and feedback to column as reflux

Experiments:

To determine the vapour Liquid Equilibrium curve for CCl_4 and Toluene or any other mixture

Features:

- Superb Painted structure
- Simple to operate & maintain
- Compact & stand alone set up

Utilities Required:

- Water Supply & Drain
- Electricity Supply: 1Phase, 220 V AC, 1.5 kW
- Refractrometer for Analysis
- Required Chemicals

Technical Details:

DISCILLATOR 1 Ltrs. Capacity. Insulated by ceramic wool & Nichrome wire Heating Mental

Condenser Tube type

Cooling Water Tank Steel, Capacity 20 litre

Water Circulation Arrangement is done to vary & measure the flow rate.

Temp. Measurement Sensor

Control panel Controller 0-199.9°C for

Distillation still, Digital Temp. Indicator: 0-199.9°C, with multi channel switch, On/off switch, Mains Indicator etc.



Equipments Exporters

Website: www.equipmentsexporters.com, **Email:** sales@equipmentsexporters.com

Address: 75, Lajpat Nagar-IV, New Delhi-110024 **Phone:** +91-9311469084