

**Product Name :**  
Distillation Column

**Product Code :**  
ELAB-ENG-11-0008



### Description :

Distillation Column

### Technical Specification :

The column is made of Stainless Steel material with seven sieve trays. An electrically heated reboiler is installed at the bottom of the column. The bottom product is collected in the tank. The vapours from the top of column are condensed in the shell and tube type condenser by cooling water supplied by laboratory overhead tank. The condensate is divided into reflux and distillate by automatic reflux divider and R/D Ratio can be varied. Reflux is fed back to the column and distillate is received in a receiving tank. The complete column is insulated for minimizing the heat loss. Instrumentation is provided for pressure & temp. measurement wherever necessary.

### Experimentation:

To estimate the batch curves for a binary system and verify the binary distillation equation for a known number of theoretical plates.

To operate the column under total reflux condition and estimate the number of theoretical plates required.

