

"Batch" distillation with padding

DESCRIPTION

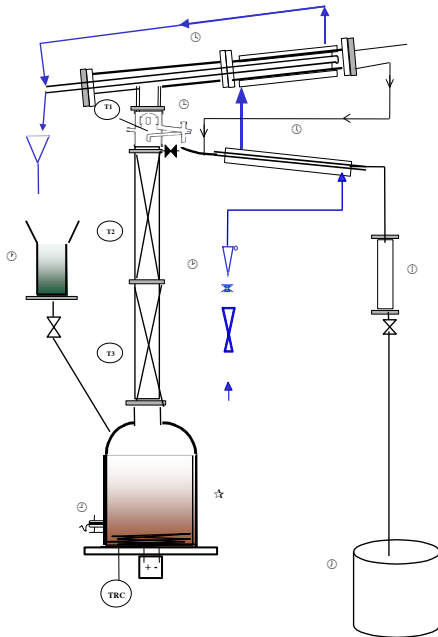
- v Permits the separation of the components of a liquid mixture because of differences in boiling points. The mixture is heated vaporizing some of the components and leaving a residue behind. The vapours are then condensed and collected.
- v Material used tolerates corrosive substances.
- This unit is made for batch rectification at atmospheric pressure or reduced pressure.
- A user manual and technical documentation are provided.



SUGGESTED APPLICATIONS

- Study of a batch process
- Thermal and material balances
- Determination of the theoretical number of fractions using the methods of Mac Cabe Thiele or Ponchon Savarit
- Result of obstruction of the column
- Computation of the minimum reflux ratio

MAIN COMPONENTS



- 1. Substructure**
 - Borosilicate glass
 - 2 kW electric heating element
- 2. Supply tank**
 - Borosilicate glass
- 3. Distilling glass DN 50**
 - Height : 1000 mm
 - Lagged
 - Ring padding of RASCHIG type
- 4. Manual reflux head**
 - Borosilicate glass
- 5. Condenser**
 - Glass and stainless 316 L
 - Exchanger : 0.3 m²
- 6. Cooling exchanger of the distillate**
 - Borosilicate glass
- 7. Receiver for the distillate**
 - Borosilicate glass
 - Volume : 0.5 L - graduated
- 8. Distillate tank**
 - Polyethylene
- 9. Low level sensor**
 - Capacitive sensor

TEMPERATURE MEASUREMENTS

- TRC** : Temperature in the reactor
T1 : Vapor temperature on the top of the column
T3, T4 : Temperature in the column

UTILITIES

Electricity : 220/380VAC – 50/60 Hz
Network water
Drain

DIMENSIONS

Length : 1200 mm
Width : 800 mm
Height : 1800 mm
Weight : 140 kg

OPTIONS

- ⇒ Different height of the column and other condenser
- ⇒ Use of a thermosiphon heating tube with an electric resistance or a thermoregulator
- ⇒ Electromagnetic reflux head