



Batch continuous distillation

Référence : DVI/3000



Operate a continuous distillation process

Operate a batch distillation process

GENERAL SPECIFICATIONS

- Metering pump.
- Electrical pre-heater.
- 3 feeding level on the column.
- 6 L glass shell heater equipped with a resistance overflow tube.
- Glass Column with Multiknit packing and SS Sampling flange.
- Glass reflux head, with reflux dividing solenoid valve.
- SS & glass coil condenser.
- 2 graduated glass receivers, 1 L.

Safety

– Venting thermostat.

– Pressure relief on the preheater.

Instrumentation

- Temperature probes Pt100Ω.
- 1 differential pressure transmitter.
- 1 flowmeter.
- 1 level sensor.
- 1 touch screen with data acquisition.

Dim : 150 x 70 x 240 cm – 150 kg

Categories: Chemical processing Distillation Educational Engineering

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DESCRIPTION

Distillation or rectification:

The distillation process separates several volatile liquids, simple or complex mixtures, by a series of vaporisation and condensation steps.

A number of liquids may be separated in this way if their boiling points are sufficiently different.

Continuous distillation separates a mixture into fractions: a volatile fraction, the distillate extracted at the column head and a heavy fraction, the residue extracted at the bottom of the column.

Characterization of a distillation efficiency

Determination of the theoretical

Number of plates

Influence of the operating parameters

Preheating temperature

Feed rate

Reflux ratio

Column pressure drop



Unités livrées avec un manuel pédagogique
et dossier technique



Possibilité d'adapter les unités à vos
besoins



Mise en service, formation des
formateurs

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