

# **Controled continuous distillation**

Référence : DRI/4000



# Separation industrial process implementation

Continuous distillation study under atmospheric pressure

GENERAL SPECIFICATIONS

- 30L polyethylene tank. Draining valve.
- 2 gear pumps SS/PEEK head, with integrated safety valve.
- SS preheater.
- 6L max. glass thermosiphon boiler, SS heating element.
- Glass column, removable insulating, glass bubble cap trays, SS intermediary trays.
- Glass condenser, SS coil.
- Glass refrigerant, sampling valve.
- 2 graduated glass vessels, solenoid valve.
- 2 polyethylene tank, 10L.
- Cold water circuit.
- SS spill containment tray, draining valve.

#### Safety

- Venting thermostate.
- Pressure relief on the heating line.

### Instrumentation

- Temperature probes Pt  $100\Omega$ .
- 1 safety thermostat.
- 1 vane flow transmitter.
- 1 water flow transmitter.
- 1 ethanol flow transmitter.
- 3 electronic relative pressure transmitters.
- 1 electronic differential pressure transmitter.
- 3 level detectors.

**Dim** : 230 x 175 x 300 cm – 500 kg SS tubular framework 40 x 40mm

Categories: Chemical processing Distillation Educational Engineering

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# DESCRIPTION

## **Operating training learning**

Unit start study

Determination of an operating point

Controls configuration

Transitory phase study

Study of the different types of control : level, temperature, flow, pressure

### Influence of the operating parameters

- Heating power Feed rate Feeding solution concentration Feeding level
- Reflux ratio

### Perfom a continuous process

### Mass and thermal balance, yield



Unités livrés 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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