

# **7**PIGNAT

# **Evaporation crystallization**

Référence: CRV/3000



# Synthesis, dissolution, crystallization with concentration by evaporation

#### **GENERAL SPECIFICATIONS**

#### **Evaporation concentration**

- 20 L polyethylene tank.
- Dosing pump.
- ND 200 glass reactor, 10 L, glass double jacket, 0,1m2 stainless steel coil.
- Cover, ND200.
- Stirring.
- Reflux ratio head with manual setting.
- ND 50 glass condenser, SS coil.
- · SS condensate coolant.

- Graduated glass receiver, 5 L.
- 1 L funnel, glass, graduated.

#### Cristallization

- ND 150 glass crystallizer, 5 L capacity.
- Cover with loading hatch for feeding.
- SS coil with setting valve.
- Stirring.
- Cold water circuitry
- Control vacuum circuitry

**Dim**: 220 x 100 x 230 cm – 200 kg SS tubular framework 40 x 40mm

Categories: Chemical processing Crystallization Educational Engineering

Reference: CRV/3000

## **DESCRIPTION**

### Study the evaporation process

Mass balance on the evaporator

Thermal balance on condenser

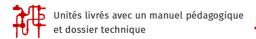
## Study of crystallisation by cooling process

Seeding of supersaturated solution.

Monitoring of cooling rate by thermal balance

Mass balance on crystal production

# Implement a batch process and a continuous process





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