

GPC V10

Evaporator with ascending film : simple effect

DESCRIPTION

- This unit is designed to separate a solid (solute) from a solvent or to raise the concentration of solute in the solution. This separation occurs through the complete or partial evaporation of the solvent.
- The unit can be set up to operate automatically.
- Practical examples that can utilize this unit include increasing the concentration of fruit juices, milk or for the desalination of sea water or brackish water.
- In order to operate semi-automatically, data collected by the unit is sent to a command box, which in turn transmits it to a PC containing the required software. (This software is an optional extra)



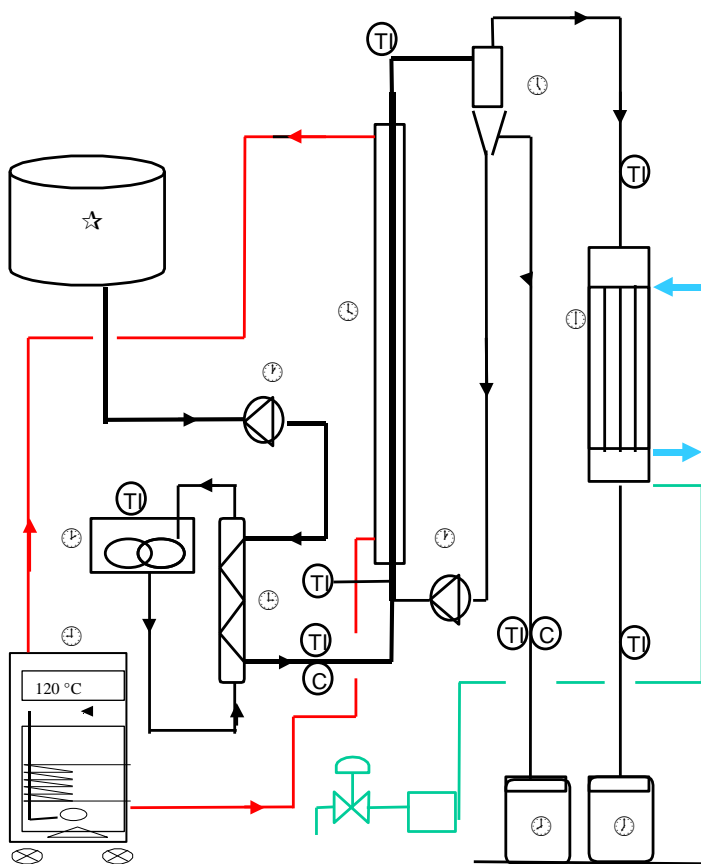
SUGGESTED APPLICATIONS

- Study of the process of evaporation
- Thermal and mass balances
- Determination of the coefficients of heat transmission
- Study of the influence of pressure and the flow rate on forced re-circulating

GPC V10

DESCRIPTION

- 1. Supply tank**
 - Polyethylene
 - V = 30 L
- 2. Diaphragm pump**
 - Flow rate 0 – 83 L/h
 - Outlet 4 – 20 mA
- 3. Thermostatic bath**
 - P = 2 000 W
 - PID regulator
- 4. Supply pre-heater**
 - Borosilicate glass
 - S = 0.2 m²
- 5. Evaporators**
 - Height : 1 200 mm
 - Diameter : 25 mm
 - Double-walled
 - Stainless steel
- 6. Centrifugal separator**
 - Stainless steel
- 7. Condenser**
 - S = 0.5 m²
 - Stainless steel
- 8. Receiver of product**
 - Borosilicate glass
 - V = 5 L
- 9. Receiver of condensate**
 - Borosilicate glass
 - V = 5 L
- 10. Pressurized water thermoregulator**
 - P = 6 kW
 - Autonomous – on wheels



UTILITES

Electricity : 400 VAC
50 – 60 Hz
Network water

DIMENSIONS

Length : 2 000 mm
Width : 1 000 mm
Height : 2 500 mm

MEASUREMENTS

T1 : 7 temperature sensors
C : 2 conductivity sensors

OPTION

Vapour making boiler – data acquisition system and schematic diagram transmitted to a PC by a software