

## Drier - Evaporator

### DESCRIPTION

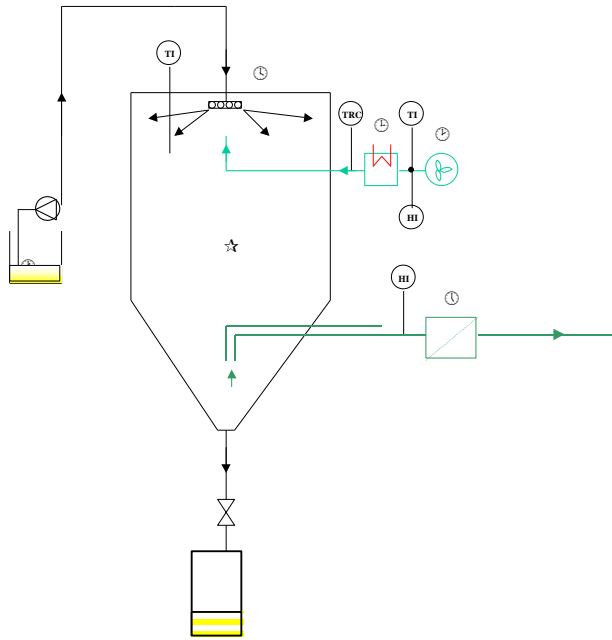
- This unit dries solid products by evaporating liquids (volatile or non-volatile) they contain.
- This unit dries solid products by blowing heated air from a turbine over the material containing moisture.
- This unit is similar to those found in industry and is designed for technical courses.



### SUGGESTED APPLICATIONS

- Drying time
- Thermal and mass balances : use of the humid air diagram
- Influence of temperature on humidity
- Industrial applications

# GPA S10



- 1- Drying chamber
  - Stainless steel 316 L
  - Evaporation rate at 250 °C : 8.4 kg/h
  - Diameter = 1000 mm / Height = 1000 mm
- 2- Supply pump
  - With membrane
  - Flow rate : 0-10 kg/h
  - Electricity : 230 V - 50 Hz
- 3- 4- : Hot air generator
  - Maximum air flow rate : 250 kg/h
  - P = 18 kW at 50 Hz
  - Maximum air temperature: 250°C at the input
- 5- Centrifugal turbine
  - Stainless steel
- 6- Filter for humid air
- 7- Rupture disk
  - Carbon
  - Adjusted at 15 absolute bar (22 psi)

## MEASUREMENTS

Temperature and humidity :  
3 Pt 100 probes  
3 thermohygrometers : -50 °C / 200 °C (accuracy  
+/- 1.5 % HR and +/- 0.3 °C)

## UTILITIES

Electricity : 230 V – 50 Hz  
Network water  
Drainage  
Compressed air - 3 bar (45 psi)

## DIMENSIONS

Length : 1200 mm  
Width : 1000 mm  
Height : 1500 mm  
Weight : 300 kg