

# GPB OS1

## Reverse osmosis



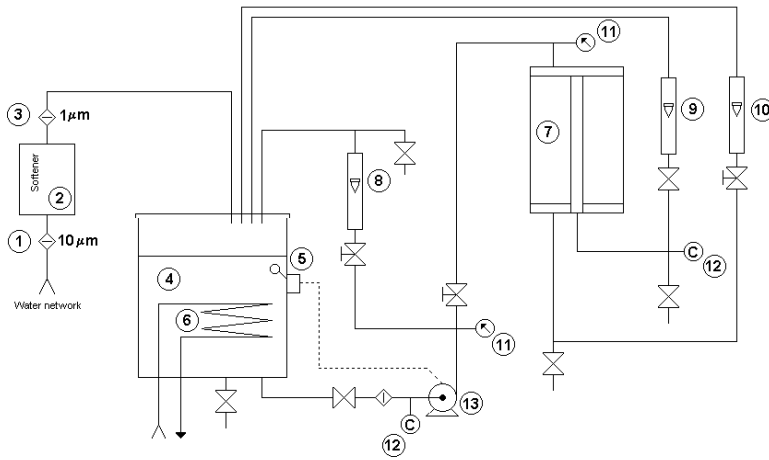
### DESCRIPTION

- The unit is delivered complete with instrumentation, technical documentation, and instructions.
- Designed and manufactured to industrial standards.
- Application: Desalination of salt water through a membrane.

### SUGGESTED APPLICATIONS

- Study of the characteristics of the reverse osmosis modulus : desalted water, flow rates and conductivity measurements, flow rate/pressure diagrams
- Determination of the osmotic pressure in an aqueous liquid
- Determination of the retaining rate of the membrane
- Study of the filtration at a constant retaining rate

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## UTILITES

Electricity : 400 V triphase– 50 Hz – 3 kW

Cooling water : 10 L/ maximum

Drainage

## DIMENSIONS

Length : 1600 mm

Width : 850 mm

Height : 1850 mm

Weight : 250 kg

- 1- Cartridge filter - 10µm at the input of network water
- 2- Ion exchanger softener - duplex with salt nose
- 3- Cartridge filter - 1 µm at the input of soft water
- 4- Polypropylene tank of 100 litres with emptying valve
- 5- Sensor for minimum level of water
- 6- Temperature exchanger for a constant temperature of the water to be filtered
- 7- Reverse osmosis modulus
- 8- Flow meter on recirculation – scale 4000 L/h
- 9- Flow meter on the permeate – scale 500 L/h
- 10- Flow meter on the concentrate – scale 150 L/h
- 11- Manometer 25 relative bar
- 12- Conductivity meter
- 13- Vertical multicell pump 2.5 m<sup>3</sup>/h to 165 mCE