

## REVERSE OSMOSIS AND NANOFILTRATION PILOT

**REFERENCE : MP72**



*Non contractual photo*

**SERVICE : 220 V SINGLE PHASE**

**DIMENSIONS : 1500 X 830 X 1900**

**WEIGHT : 90KG**

This water treatment process is a membrane separation technique whose motive force is a pressure gradient. Its interest lies in the fact that some molecules (10<sup>-6</sup> to 10<sup>-7</sup>m) and some ions are stopped, while the molecules of the solvent pass. The energies involved are greater than those of processes with similar objectives.

This technique makes it possible to obtain a pure solvent and to concentrate in ion, hence its use in applied fields such as the desalting of seawater, the softening or the treatment of waters containing metals.

### **Technical specifications :**

- Study of the performances according to the hydraulic parameters around the cartridges.
- Study of the performances according to the nature of the polluting elements and their concentration.
- Interest of mounting two cartridges in series.
- Duration of TP: 4 hours
- Reverse osmosis spiral membrane cartridge with polyester protection
- A nanofiltration spiral membrane cartridge with polyester protection
- Multicellular centrifugal pump in vertical stainless steel
- Feed tank
- Permeate receiving tank
- 3 PVC flow meters
- 2 manometers
- Conductivity meter with probe and transmitter - regulator
- Control cabinet including pump control and protection, emergency stop, conductivity meter display, main switch
- PVC tubes, stainless steel frame with aluminum nuts