

09.1.4



WATER TREATMENT

# CONTAINERIZED ROVERSE OSMOSIS PLANT 300M<sup>3</sup>/H



# 09.1.4



## WATER TREATMENT

# CONTAINERIZED ROVERSE OSMOSIS PLANT 300M<sup>3</sup>/H

### WHAT ABOUT

The 300 M<sup>3</sup>/H ROVERSE OSMOSIS CONTAINERIZED PLANT. This plant is suitable for conductivity reduction, desalination and elimination of complex matrix of pollutants from water. Composed by 8 containers.

### MAIN CHARACTERISTICS

- Input TDS: 5.000 ppm Output TDS: 1.000 ppm
- Flow rate produced: 300 m<sup>3</sup>/h
- Inlet pressure: 2-4 bar
- Raw water temperature: 15-35 °C
- SDI < 3
- Operating pH: 2-11
- Free chlorine: <0,1 mg/l

### PROPOSED INSTALLATION

- Coagulant dosage.
- Filters system
- Chemical dosage
- Microfiltration
- High-pressure pumping
- Vessels & membranes
- Specific automation
- Flushing and chemical cleaning system

### REVERSE OSMOSIS SET

- N° of steps: 1
- Configuration: 40×6 – 5×6
- N° total of modules: 45
- Design pressure: 21 bar
- N° of membranes: 270
- Membranes: Hydranautics, Lenxess or similar
- Inlet SDI: <3
- Design temperature: 5-35 °C
- Inlet flow: 412,0 m<sup>3</sup>/h
- Production flow: 300,0 m<sup>3</sup>/h
- Concentrate flow: 112,0 m<sup>3</sup>/h
- Conversion rate: 72,8 %
- Pumps: Caprari or similar
- Dosing pumps: ITC or similar
- Instrumentation: Telemecanique or similar
- Automation: Schneider or similar
- HMI screen: Schneider or similar

