

09.1.1



WATER TREATMENT

CONTAINERIZED ROVERSE OSMOSIS PLANT 50M³/H



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WHAT ABOUT

The 50 M3/H ROVERSE OSMOSIS CONTAINERIZED PLANT. This plant is suitable for conductivity reduction, desalination and elimination of complex matrix of pollutants from water. Composed by 2 containers.

MAIN CHARACTERISTICS

- Input TDS: 5.000 ppm Output TDS: 1.000 ppm
- Flow rate produced: 50 m3/h
- Inlet pressure: 2-4 bar
- Raw water temperatura: 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
- Specific Instrumentation

REVERSE OSMOSIS SET

- N° of steps: 1
- Configuration: 8x6 (non-final configuration)
- N° total of modules: 8
- Design pressure: 21 bar
- N° of membranes: 45
- Membranes: Hydranautics, Lenxess or similar
- Inlet SDI: <3
- Design temperature: 5-35 °C
- Inlet flow: 68,5 m3/h
- Production flow: 50,0 m3/h
- Concentrate flow: 18,49 m3/h
- Conversion rate: 73,0 %
- Pumps: Caprari or similar
- Dosing pumps: ITC or similar
- Instrumentation: Telemecanique or similar
- Automation: Schneider or similar
- HMI screen: Schneider or similar

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