

09.1.2



WATER TREATMENT

CONTAINERIZED ROVERSE OSMOSIS PLANT 100M³/H



WATER TREATMENT

WHAT ABOUT

The 100 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 3 containers

MAIN CHARACTERISTICS

- Input TDS: 5.000 ppm Output TDS: 1.000 ppm
- Flow rate produced: 100 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: 10×6 – 5×6
- N° total of modules: 15
- Design pressure: 21 bar
- N° of membranes: 90
- Membranes: Hydranautics, Lenxess or similar
- Inlet SDI: <3
- Design temperature: 5-35 °C
- Inlet flow: 138,1 m³/h
- Production flow: 100,0 m³/h
- Concentrate flow: 38,1 m³/h
- Conversion rate: 72,4 %
- 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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