

Standard Plants

Reverse Osmosis

Esmil Process Systems offer a range of standard “skid mounted” Reverse Osmosis desalination systems for industrial applications. Designed to produce a clear, softened and low saline water, the permeate can be used for drinking water, boiler feed water or process water.

The units are designed for automatic, unattended operation - an integrated PLC operates the entire system. Shop-testing prior to shipment ensures “plug in and play” with minimal erection time. Esmil Process Systems are available for commissioning, supervision of erection and start-up.

50 - 200 m³/d Membrane Systems



200 – 1200 m³/d Membrane Systems



Similar plants are available for a wide range of process applications:
Beverage Manufacture
Laundry and Washing Processes
Textile Industry

SPECIALISTS IN PROCESS WATER TREATMENT

| Standard Reverse Osmosis Membrane Systems | | |
|--|--|--|
| | 50 – 200 m ³ /d Plants | 200 – 1200 m ³ /d Plants |
| Operating Parameters | | |
| Inlet Pressure | 2 barg | 2 barg |
| Operating Pressure | 12 – 15 barg | 12 – 15 barg |
| Operating Temperature | 4 – 29°C | 4 – 29°C |
| Process Efficiency | | |
| Salt Rejection | 95 – 98% Removal of most colloids Removal of bacteria and viruses | 95 – 98% Removal of most colloids Removal of bacteria and viruses |
| Membrane Housing | 10 cm | 20 cm |
| Membrane Elements | Spiral wound | Spiral wound |
| Feed Pump | Multi stage centrifugal pump S.S Shell and Housing | Multi stage centrifugal pump S.S Shell and Housing |
| Standard Features | High pressure St.St. pipework 5 micron pre-filter with SS housing Automatic inlet shut-off valve Automatic flush system Pressure gauges Digital permeate / concentrate flow meters Digital conductivity meter Integrated alarm system PLC control (optional) | High pressure St. St. pipework 5 micron pre-filter with SS housing Automatic inlet shut-off valve Automatic flush system Pressure gauges Digital permeate / concentrate flow meters Digital conductivity meter Integrated alarm system PLC control Modem control facilities |
| Frame | Epoxy coated carbon steel | Epoxy coated carbon steel |

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