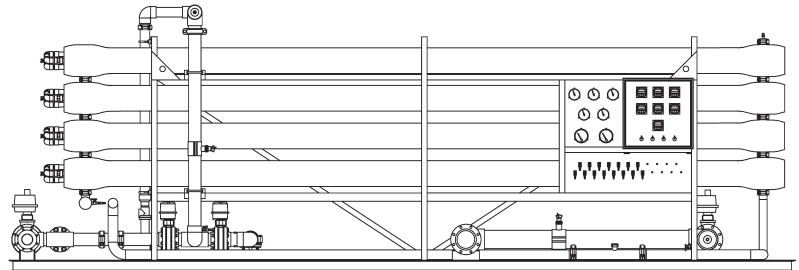


SPECIFICATION DATA SHEET

**250,000 US gallons per day
SWRO Membrane Module
Standard Seawater TDS**



Description

The 250 Series Seawater Reverse Osmosis Membrane Modules are available for three seawater salinity ranges:

- Low Salinity: 30,000 – 35,000 mg/l TDS
- Standard Salinity: 35,001 – 40,000 mg/l TDS
- High Salinity: 40,001 – 45,000 mg/l TDS

The product water from this system complies with World Health Organization (WHO) standards for potable water (<500 mg/l TDS). The equipment is offered as a base unit with customer-applied modifications (see www.desalt.net). Various options are available. Equipment is supplied tested and complete. Please see proposal package for detailed drawings and information.

Module Options:

- Air Bleeds
- Motorized Valves
- Cabinet Lamp
- Enclosure Heater
- Premium Instrument Package
- Duplex 2205 / Zeron® 100 Piping
- 316SS Pipe Coupling Hardware
- Customization available upon request

**TESTED
PREPACKAGED
WARRANTIED**

| ARRANGEMENT | |
|---------------------------------|----------------|
| Nominal Capacity (Usgpd / m3/d) | 250,000 / 946 |
| Frame Size | 3 |
| Maximum Length (in/cm) | 286 / 726 |
| Maximum Width (in/cm) | 56 / 142 |
| Maximum Height (in/cm) | 103 / 262 |
| Dry Weight (lbs/kg) | 5,430 / 2,463 |
| Flooded Weight (lbs/kg) | 10,820 / 4,908 |
| Feed Connection (in/mm) | 6" / DN 150 |
| Brine Connection (in/mm) | 6" / DN 150 |
| Product Connection (in/mm) | 4" / DN 100 |
| Vessels | 11 |
| Membranes | 66 |
| Type | Spiral |
| Energy Recovery Type | Turbine |
| Membrane Vessel Size | 8" |

| DESIGN PARAMETERS | |
|-----------------------------------|---|
| Piping Materials | 316SS, 2205, Zeron® 100 |
| Hardware Materials | 316SS |
| Skid Material | Structural Steel, Closed Full Seam Welded |
| Finishes | Blasted White, 12 mil Coal Tar Epoxy |
| Seawater TDS Range (mg/l) | 35,001 – 40,000 |
| Inlet SDI | < 5.0 |
| Design Temperature (C) | 25 |
| Conversion (%) | 45 |
| Feed Flow (Usgpm / m3/hr) | 386 / 88 |
| Brine Flow (Usgpm / m3/hr) | 212 / 48 |
| Product Flow (Usgpm / m3/hr) | 174 / 39 |
| Design Fouling Factor (%) | 70 |
| Operating Pressure (nominal 3 yr) | 900 psig / 62 bar |