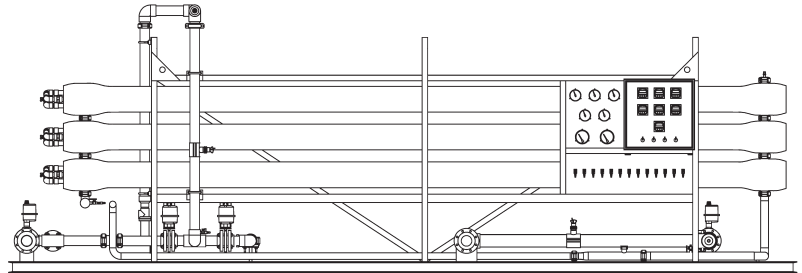


SPECIFICATION DATA SHEET

**160,000 US gallons per day
SWRO Membrane Module
Low Seawater TDS**



Description

The 160 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) | 160,000 / 606 |
| Frame Size | 2 |
| Maximum Length (in/cm) | 286 / 726 |
| Maximum Width (in/cm) | 40 / 102 |
| Maximum Height (in/cm) | 103 / 262 |
| Dry Weight (lbs/kg) | 3,450 / 1,565 |
| Flooded Weight (lbs/kg) | 6,430 / 2,917 |
| Feed Connection (in/mm) | 4" / DN 100 |
| Brine Connection (in/mm) | 4" / DN 100 |
| Product Connection (in/mm) | 3" / DN 80 |
| Vessels | 6 |
| Membranes | 36 |
| 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) | 30,000 – 35,000 |
| Inlet SDI | < 5.0 |
| Design Temperature (C) | 25 |
| Conversion (%) | 45 |
| Feed Flow (Usgpm / m3/hr) | 247 / 56 |
| Brine Flow (Usgpm / m3/hr) | 136 / 31 |
| Product Flow (Usgpm / m3/hr) | 111 / 25 |
| Design Fouling Factor (%) | 70 |
| Operating Pressure (nominal 3 yr) | 900 psig / 62 bar |