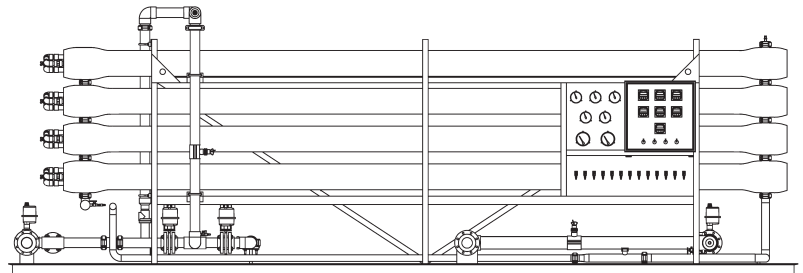


SPECIFICATION DATA SHEET

**140,000 US gallons per day
SWRO Membrane Module
High Seawater TDS**



Description

The 140 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)	140,000 / 530
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)	3,820 / 1,733
Flooded Weight (lbs/kg)	7,230 / 3,279
Feed Connection (in/mm)	4" / DN 100
Brine Connection (in/mm)	4" / DN 100
Product Connection (in/mm)	3" / DN 80
Vessels	7
Membranes	42
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)	40,001 - 45,000
Inlet SDI	< 5.0
Design Temperature (C)	25
Conversion (%)	40
Feed Flow (Usgpm / m3/hr)	243 / 55
Brine Flow (Usgpm / m3/hr)	146 / 33
Product Flow (Usgpm / m3/hr)	97 / 22
Design Fouling Factor (%)	70
Operating Pressure (nominal 3 yr)	900 psig / 62 bar