INDUSTRIAL WATER. EVOLVED.

The Culligan IW Evo Brackish Reverse Osmosis series has been designed to meet the needs of the most demanding industrial and municipal applications.

Available in 7 models covering flow requirements of 5 to 40m³/hr (22 to 176 GPM) and capable of treating salinities up to 3000ppm of TDS.

Using an innovative modular and standardised design Culligan is able to offer the highest quality construction, fast delivery times and competitive pricing.

Using the latest reverse osmosis membrane technology over 99% of contaminants such as dissolved minerals, bacteria, particles, and other impurities are removed; producing high purity water suitable for exacting usages such as boiler feed water.

All units are assembled and tested in the Culligan factory in Italy and are skid mounted for simple installation and easy start-up.

STANDARD FEATURES

- Mounted on a frame made from galvanised steel with anti-corrosion paint coating
- Multi-stage high pressure pump with high grade AISI 316 Stainless steel, dry running protection and low noise / high efficiency IE3 motor.
- Ultra-low pressure, high rejection 8” membranes
- 5 micron pre-filtration with stainless steel housing
- All high pressure pipework in 316 Stainless steel
- Low pressure pipework in PN16 U-PVC
- Local pressure measurement
- Local flow measurement on product, reject and recirculation

BENEFITS INCLUDE:

- Skid-mounted with no assembly; plug-and-play simplicity
- Flexible, with configure to order options
- Exclusive Culligan Electronics
- Worldwide technical & service support
- Made in Italy
- Fully CE compliant
Monitor every aspect of the units operation with advanced Instrumentation options

- Conductivity**
- Inlet REDOX
- Product pH

Extend the life of the membranes using the Integrated flushing tank option. Each time the unit shuts down or during alarm conditions the unit will flush the membranes with treated product water.

Integrated Antiscalant dosing station – prevent membrane scaling with Culligan Scale-Guard Antiscalant dosed from the dosing station with auto-start/stop, and tank level functionality.

The Culligan Smart Controller automates operation, with Digital Flow Meters, Pressure Transducers and Conductivity measurements, as well as a host of other advanced functionality more commonly found in PLC controls, including:

- Monitoring of all system parameters – flow, pressure, quality
- Lighted full text display – available in 4 languages
- Membrane recovery & reject monitoring
- Programmable Alarms & actions on multiple parameters
- User selectable Flush Options & automatic control
- Connectivity options including Modbus, RS232, RS485, USB, & Profibus
- Remote display option available
- Historical data storage.

**Due to space limitations options Additional filter cartridge unit & Antiscalant station only available together on models IW16-40

*Inlet and product conductivity are included within the Smart Controller option kit.

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Place your commercial and industrial water treatment needs in the hands of a global leader.

For over 80 years, Culligan has made better water. Our global network, comprised of 900+ dealers and international licensees in over 90 countries, is dedicated to addressing your water-related problems. As a worldwide leader in water treatment, our sales representatives and service technicians are familiar with the local water conditions in your area. Being global and local position us to deliver customized solutions to commercial and industrial water issues that affect your business and your bottom line.

**SYSTEM SPECIFICATIONS**

**MODEL** | IW Evo 5 | IW Evo 8 | IW Evo 12 | IW Evo 16 | IW Evo 24 | IW Evo 32 | IW Evo 40
---|---|---|---|---|---|---|---
Nominal Flow\(^1\) m\(^3\)/h (GPM) | 5 (22) | 8 (35) | 12 (53) | 16 (70) | 23 (101) | 32 (141) | 36 (158)
Membrane Quantity | 4 | 6 | 9 | 12 | 18 | 24 | 30
Vessels x membranes per stage | 1" | 1X4 | 1X3 | 1X3 | 2X6 | 2X6 | 3X6 | 3X6
| 2" | 1X3 | 1X3 | 1X3 | 1X3 | 1X3 | 2X6 | 2X6
| 3" | | | | | | | |
Pump power (kW) | 380V ~ 50Hz-3pH | 4 | 7.5 | 11 | 15 | 15 | 22 | 22
Piping : Low Pressure | PVC | PVC | PVC | PVC | PVC | PVC | PVC
Piping : High Pressure | AISI316 | AISI316 | AISI316 | AISI316 | AISI316 | AISI316 | AISI316
Connections
Feed | 1.5" | 2" | 2" | 3" | 3" | 4" | 4"
Product | 1.5" | 1.5" | 2" | 2.5" | 3" | 3" | 3"
Reject | 1" | 1" | 1.5" | 2" | 2" | 2" | 2"
Dimensions mm (inches) | A | B | C | A | B | C | A | B | C | A | B | C | A | B | C
| 4678x | 184.1x | 74.8 | 1195x | 47x | 1900 | 47x | 3720x | 146.5x | 47x | 1195x | 47x | 1940 | 76.3 |
| 3720x | 146.5x | 47x | 1195x | 47x | 1940 | 76.3 | 1895x | 76.3 | 1985x | 78.1 | 1250x | 83.8 | 2130 |
| 6750x | 265.7x | 101.4 | 1565x | 62.6 | 2340x | 92.4 | 1250x | 83.8 | 2130 |
| 1250x | 49.2x | 38.1 | 2340x | 92.4 | 2130 |
| 1250x | 49.2x | 38.1 | 2130 |
| 1250x | 49.2x | 38.1 |
| 1250x | 49.2x | 38.1 |
| 1250x | 49.2x | 38.1 |
Weight KG (lb) | 650 (1433) | 710 (1655) | 950 (2095) | 1280 (2821) | 1370 (3020) | 1600 (3527) | 1850 (4080)

1 Under standard design limits - Nominal capacity based on new RO membranes operating at 75% recovery on a properly pre-treated feed water of 1500 ppm TDS as NaCl, 20 oC, Silt Density index (SDi) below 3, and supplying water to atmosphere.

**MATERIALS OF CONSTRUCTION**

- **Frame**
  - Epoxy painted galvanised Steel

- **Membrane Elements**
  - Hydranautics ESPA Max ultra low pressure, high rejection 8" membranes

- **Membrane Housing**
  - FRP

- **Low Pressure Pipe**
  - U-PVC PN16

- **High Pressure Pipe**
  - Stainless Steel 316

- **Cartridge filter housing**
  - Stainless Steel 316

Contact your local Culligan representative for more details.

Culligan reserves the right to change any technical or design specifications for the models shown in this brochure.