

RE1812-HR+ (80)

High rejection RO element for residential use

CSM®

SPECIFICATIONS

General Features

Permeate Flow Rate GPD (L/Day)	80 GPD (303L/day)
NaCl Rejection %	99% (Minimum 97.5%)
Membrane Type	Thin-Film Composite
Membrane Material	Polyamide (PA)
Element Configuration	Spiral-Wound, Tape Wrapping

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 60 psig (0.41 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 97.5%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

Model Name	A	B	C	D	E
RE1812-HR+	0.67 inch (17 mm)	0.87 inch (22 mm)	11.73 inch (298 mm)	0.87 inch (22mm)	1.77 inch (45 mm)



APPLICATION DATA

Operating Limits

Max. Operating Pressure	150 psi (1.03 MPa)
Max. Feed Flow Rate	2 gpm (0.45 m³/hr)
Max. Operating Temperature	113°F (45°C)
Operating pH Range	2.0 – 11.0
Max. Turbidity	1.0 NTU
Max. SDI (15 min)	3.0
Max. Chlorine Concentration	< 0.1 mg/L

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at a ll times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.



Certified to
NSF/ANSI 58

Toray Advanced Materials Korea Inc.

For more information on our products, company and regional contacts, please visit our website at www.csmfilter.com.

Product Specification Sheet / Model RE1812-HR+

V.2.0 (22)

RE1812-HR+ (105)

High recovery RO element for residential use

CSM®

SPECIFICATIONS

General Features

Permeate Flow Rate GPD (L/Day)	105 GPD (398L/day)
NaCl Rejection %	96% (Minimum 95%)
Membrane Type	Thin-Film Composite
Membrane Material	Polyamide (PA)
Element Configuration	Spiral-Wound, Tape Wrapping

The stated product performance is based on data taken after 30 minutes of operation at the following test Conditions: 200 mg/L NaCl solution at 80 psig (0.55 MPa) applied pressure; 60% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +20 / -20%; Minimum salt rejection is 95.0%; All elements are vacuum leak tested using the CSM integrity test; Elements can be supplied as dry or wet-type. Wet-tested elements are soaked in a preservative solution (1.0% food grade SBS) and vacuum sealed in a poly bag. All elements are individually boxed.

Dimensions

Model Name	A	B	C	D	E
RE1812-HR+	0.67 inch (17 mm)	0.87 inch (22 mm)	11.73 inch (298 mm)	0.87 inch (22mm)	1.77 inch (45 mm)



APPLICATION DATA

Operating Limits

Max. Operating Pressure	150 psi (1.03 MPa)
Max. Feed Flow Rate	2 gpm (0.45 m³/hr)
Max. Operating Temperature	113°F (45°C)
Operating pH Range	2.0 – 11.0
Max. Turbidity	1.0 NTU
Max. SDI (15 min)	3.0
Max. Chlorine Concentration	< 0.1 mg/L

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.



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V.2.0 (22)