

# RE1812-24

RO elements for residential use (1.8 inch diameter)



## SPECIFICATIONS:

### General Features

Model Name	Permeate Flow Rate GPD (L/day)	Salt Rejection %
RE1812-24	24 (90.8)	98.0%

1. 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

2. Dry type elements are vacuum leak tested using the San Diego Protocol.

3. Permeate flow rate for each element may vary but will be no more than 15%.

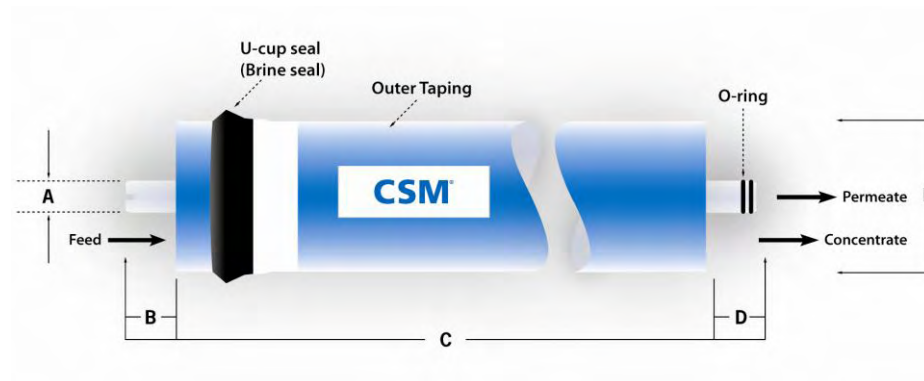
4. Dry elements are packaged in a polyethylene bag

⌘ Wet elements are packaged in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution.

<b>Membrane type:</b>	Thin-Film Composite
<b>Membrane material:</b>	Polyamide (PA)
<b>Element configuration:</b>	Spiral-Wound, Tape Wrapping

## Dimensions

Model Name	A	B	C	D	E
RE1812-24	0.67 inch (17mm)	0.87 inch (22mm)	11.73 inch (298mm)	0.98 inch (25mm)	1.77 inch (45mm)



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## APPLICATION DATA:

### Operating Limits

• Max. Operating Pressure	125 psi (0.86 MPa)
• Max. Feed Flow Rate	2 gpm (0.45 m <sup>3</sup> /hr)
• Max. Operating Temperature	113 °F (45 °C)
• Operating pH Range	3.0–10.0
• Max. Turbidity	1.0 NTU
• Max. SDI (15 min)	5.0
• Max. Chlorine Concentration	< 0.1 mg/L

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## 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. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- 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.

- Keep elements moist at all times after initial wetting.

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