

Ref. **MMRO2012-100**

**RO element for residential use**

**SPECIFICATIONS:**

General Features	
Permeate flow rate:	100 GPD (379 L/day)
Nominal salt rejection:	98,0 %
Effective membrane area:	6 ft <sup>2</sup> (0,56 m <sup>2</sup> )

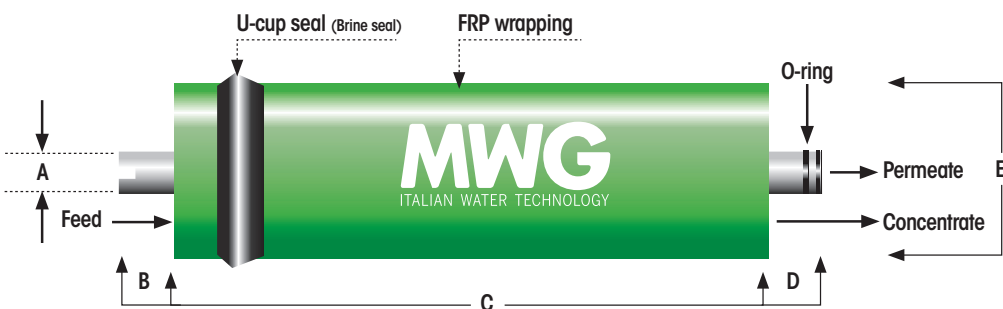
- The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:
  - 250 mg/L NaCl solution at 60 psig (0,41 MPa) applied pressure
  - 15% recovery
  - 77 °F (25 °C)
  - pH 7,5 - 8,0
- Permeate flow rate for each element may vary +/- 15 %.
- Dry elements are packaged in a polyethylene bag.

Membrane type:	Thin-Film Composite
Membrane material:	Polyamide (PA)
Element configuration:	Spiral-Wound, FRP Wrapping

Operating Limits	
Max. pressure Drop / Element	10 psi (0,07 MPa)
Max. Operating Pressure	150 psi (1,03 MPa)
Max. Operating Temperature	45 °C (113 °F)
Operating pH Range	3,0-10,0
pH Range of Feed Water During Chemical Cleaning	2,0-12,0
Max. SDI (15 min)	5,0
Max. Chlorine Concentration	< 0,1 mg/L

**DIMENSIONS:**

Model Name	A	B	C	D	E
RO2012-100	0,67 inch (17 mm)	0,5 inch (12 mm)	11,7 inch (298 mm)	0,9 inch (23 mm)	1,9 inch (48 mm)



**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.
- 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.