ULTRAMAR WATER

FLEXIBILITY MEETS SUSTAINABILITY

4″ Fouling Resistant Spiral Wound Elements

Description:

Low Pressure, High Productivity:

The FR type membrane surface is more hydrophilic due to the special treatment. It is specially designed for water treatment against biological and organic fouling. With build-in FR properties, this model of elements allows for effective cleaning, renewing active membrane surface thus extending the service life in the tough water conditions.

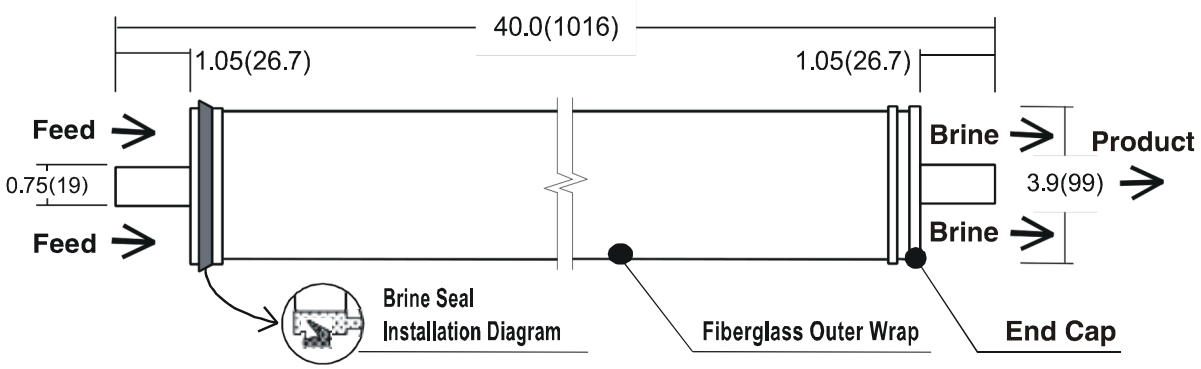
Specifications:

Model	Permeate Flow GPD(m^3/day)	Active Membrane Area ft^2(m^2)	Stabilized Salt Rejection	M inimum Salt Rejection	Feed spacer mi l (mm)	Test Conditions
FR- 4040	2400(9)	90(8.4)	99.6%	99.4%	28(0.7)	225psi/2000ppm NaCl

1. All performance data are collected at 25 C (77 F), pH7.5 and 8% recovery rate.
2. Permeate flows for single element may vary ±15%.

Element Dimension:

* Unit: Inch (mm)
  1 inch= 25.4 mm



Operating Limits for Design:

Maximum Operating Temperature..... 45°C(113°F)
Maximum Operating Pressure..... 600psi(41bar)
Maximum Pressure Drop (single element)..... 15psi(1.0bar)
pH Range for Continuous Operation..... 2-11
pH Range for Cleaning..... 1.2-12
Chlorine tolerance..... <0.1ppm
Maximum Feed SDI..... 5