

4" Spiral Wound Elements for Brackish Water I

Description:

Low Pressure, High Productivity:
Low or ultra low pressure application for brackish water treatment

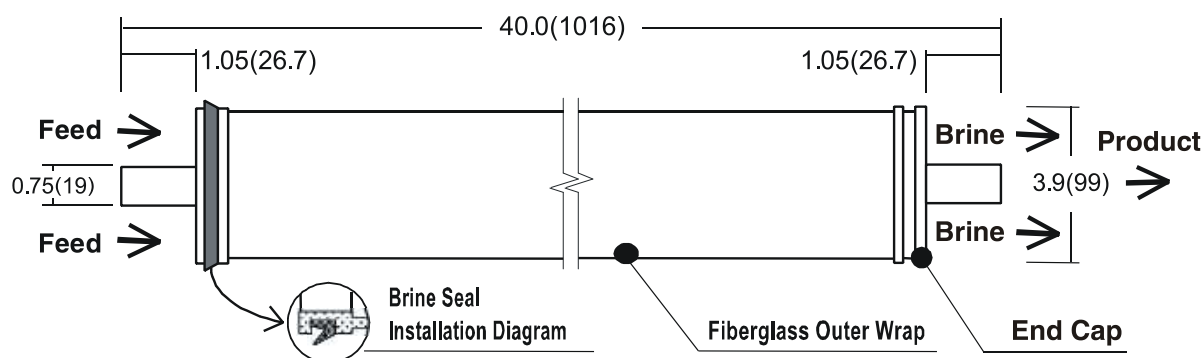
Specifications:

Model	Permeate Flow GPD(m ³ /day)	Active Membrane Area ft ² (m ²)	Stabilized Salt Rejection	Feed spacer mil(mm)	Test Conditions
BW- 4040	2400(9.1)	90(8.4)	99.5%	28(0.7)	225psi/2000ppm NaCl
BW- 4040-HT	2160(8.2)	90(8.4)	99.5%	28(0.7)	225psi/2000ppm NaCl
ULP- 4040-HF	2900(11.0)	90(8.4)	98.6%	28(0.7)	150psi/2000ppm NaCl
ULP- 4040	2500(9.5)	90(8.4)	99.0%	28(0.7)	150psi/2000ppm NaCl
ULP-4040-HR	2100(8.0)	90(8.4)	99.3%	28(0.7)	150psi/2000ppm NaCl
XULP -4040	2500(9.5)	90(8.4)	99.0%	28(0.7)	100psi/500ppm NaCl

1. All performance data are collected at 25°C (77°F), pH7.5 and 15% recovery rate.
2. Permeate flows for single element may vary ±15%.
3. HT version was designed for high TDS feed water up to 10,000ppm

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.....	3-11
pH Range for Cleaning.....	1.5-12
Chlorine tolerance.....	<0.1ppm
Maximum Feed SDI.....	5



4" Spiral Wound Elements for Brackish Water II

Description:

Low Pressure, High Productivity:
Low or ultra low pressure application for brackish water treatment

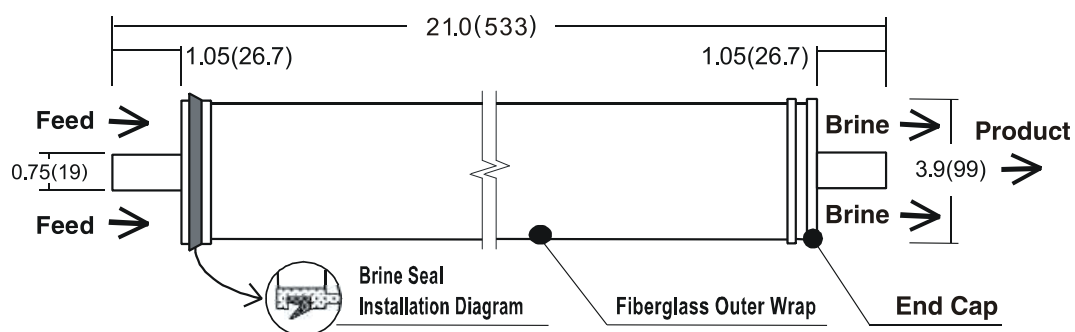
Specifications:

Model	Permeate Flow GPD(m ³ /day)	Active Membrane Area ft ² (m ²)	Stabilized Salt Rejection	Feed spacer mil(mm)	Test Conditions
BW- 4021	900(3.4)	36(3.3)	99.5%	28(0.7)	225psi/2000ppm NaCl
ULP- 4021	1050(4.0)	36(3.3)	99%	28(0.7)	150psi/2000ppm NaCl

1. All performance data are collected at 25°C (77°F), pH7.5 and 15% 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.....	3-11
pH Range for Cleaning.....	1.5-12
Chlorine tolerance.....	<0.1ppm
Maximum Feed SDI.....	5



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.

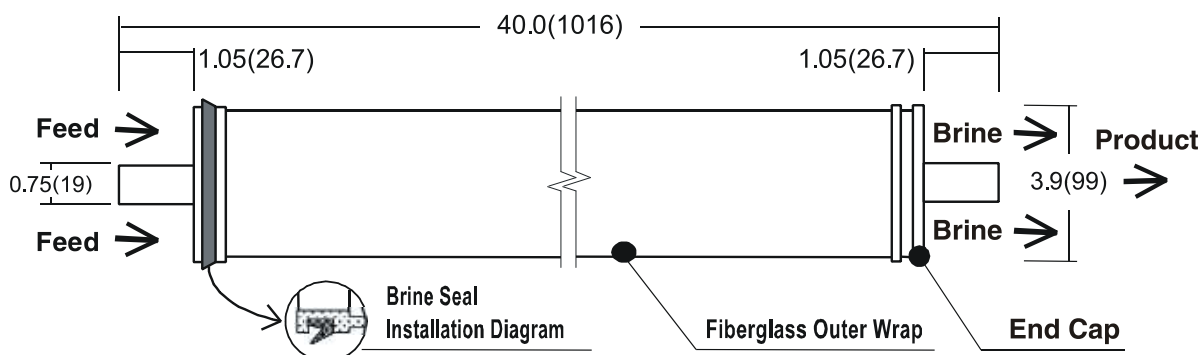
Specifications:

Model	Permeate Flow GPD(m ³ /day)	Active Membrane Area ft ² (m ²)	Stabilized Salt Rejection	Feed spacer mil(mm)	Test Conditions
FR- 4040	2400(9.1)	90(8.4)	99.5%	34(0.85)	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.....	3-11
pH Range for Cleaning.....	1.5-12
Chlorine tolerance.....	<0.1ppm
Maximum Feed SDI.....	5



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