



Hi-Tech ES-8040 Product Information

A wish for wellness...



SPECIFICATION	Product	ES-8040
	Active Area ft ² (m ²)	400 ft ² (37.1 m ²)
	Permeate Flow Rate gpd (m ³ /d)	12000 gpd (45.4 m ³ /d)
	Salt Rejection (%)	99% (98% minimum)
TYPE	Configuration:	Spiral Wound (dry element)
	Membrane Polymer:	Composite Polyamide (polyamide thin film composition)
MAXIMUM APPLICATION LIMITS*	Operating Pressure Tap Wrapped	600 psig (41 bar)
	Chlorine Concentration	< 0.1 PPM
	Operating Temperature	113 °F (45 °C)
	pH Range, Continuous (Cleaning)	2-10 (1-12)*
	Feed Water Turbidity	1.0 NTU
	Feed Water SDI (15 mins)	5.0
	Feed Flow	75 GPM (17.0 m ³ /h)
	Ratio (Concentrate to Permeate Flow for any Element)	5:1
Pressure Drop for Each Element	10 psi	

* The limitations shown here are for general use. For specific projects, operating at more conservative values may ensure the best performance and longest life of the membrane. For more detail on operation limits, cleaning pH, and cleaning temperatures consult technical Guidance note.

TESTING PARAMETERS	The stated performance is initial (data taken after 30 minutes of operation), based on the following conditions:	
	NaCl Solution	1500 PPM
	Applied Pressure	150 psi (10.34 bar)
	Operating Temperature	77 °F (25 °C)
	Permeate Recovery	15 %
	pH Range	6.5 - 7.0

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DIMENSIONS	Weight :	32 lbs (14.5 kg)			
	A Length	B Diameter	C Core Tube Dia.	D Feed Side	E Conc. Side
	40.0 inch (1016 mm)	7.9 inch (201 mm)	1.125 inch (29 mm)	1.05 inches (26.7mm)	1.05 inches (26.7 mm)

Notice:

Permeate flow for individual elements may vary \pm 20 percent. All membrane elements are supplied with a brine seal, interconnector, and o-rings.

Elements are packed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfate solution and 10% propylene glycol, and then packaged in a cardboard box.

Guideline :

Permeate obtained from first hour of operation should be discarded.

Avoid static permeate – side back pressure at all time.

These membrane may be subject to drinking water application restrictions in some countries. Please check the application status before use and sale.

For element loading use only glycerin to lubricate o-ring and brine seal.

The customer is fully responsible for the effects of incompatible chemicals on elements . the presence of free chlorine and other oxidizing agents will cause membrane failures, the damage is not covered under warranty.

The information and data contained herein are accurate and as per Hi-tech's internal testing. The information and data are offered in good faith, but without guarantee as conditions, system design and methods of use of our products can makes a difference. Hi-tech takes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of products for specific end uses.

No performance warranties are given; all implied warranties of merchantability or fitness for a particular purpose are expressly excluded.

Consult factory for detailed warranty information.

We reserve the right to modify of amend specification without prior notice.