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Multi Stage Water Purifiers & Spares  
Domestic | Commercial | Industrial

# Hi-Tech ES-1812-75 Dry Product Information



## SPECIFICATION

<b>Product</b>	ES-1812-75 DRY
<b>Permeate Flow Rate gpd (m<sup>3</sup>/d)</b>	75 gpd (280 l/d)
<b>Salt Rejection (%)</b>	97% (95% minimum)

## TYPE

<b>Configuration:</b>	Spiral Wound
<b>Membrane Polymer:</b>	Composite Polyamide (polyamide thin film composition)

## MAXIMUM APPLICATION LIMITS\*

<b>Operating Pressure Tap Wrapped</b>	125 psig (8.6 bar)
<b>Chlorine Concentration</b>	< 0.1 PPM
<b>Operating Temperature</b>	113 °F (45 °C)
<b>pH Range, Continuous (Cleaning)</b>	3-10 (1-12)*
<b>Feed Water Turbidity</b>	1.0 NTU
<b>Feed Water SDI (15 mins)</b>	5.0
<b>Feed Flow</b>	2 GPM (7.5 l/m)
<b>Ratio</b> (Concentrate to Permeate Flow for any Element)	5:1
<b>Pressure Drop for Each Element</b>	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:

<b>NaCl Solution</b>	2500 PPM
<b>Applied Pressure</b>	60 psi (4.1 bar)
<b>Operating Temperature</b>	77 °F (25 °C)
<b>Permeate Recovery</b>	75 gpd (280 l/d)
<b>pH Range</b>	6.5 - 7.0

# Hi-Tech ES-1812-75 Dry Product Information



**Weight :** 0.42 lbs (0.19 kg) (190 gm)

A	B	C	D	E
Length with Tube	Diameter	Tube Diameter	Diameter	Length
11.74 inch (298 mm)	3.95 inch (100.3 mm)	0.68 inch (17 mm)	1.75 inches (44.5mm)	10.0 inches (254 mm)

**DIMENSIONS**

P Permeate  
F Feed  
Cn Concentrate

**Notice:**

Permeate flow for individual elements may vary  $\pm$  20 percent.  
 Elements are packed in a sealed polyethylene bag, 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.  
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