NanoH$_2$O™ Membranes

Residential Reverse Osmosis (RO) Element

LG TWRO-1812 / LG TWRO-2012

Overview

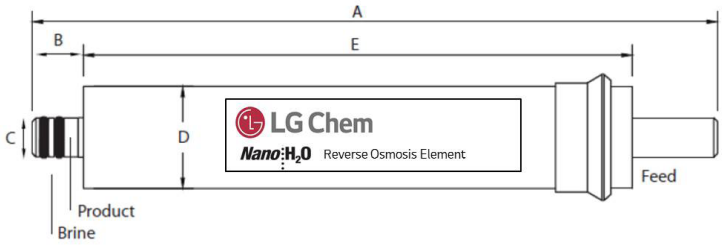
LG Chem's NanoH$_2$O™ reverse osmosis elements for residential water treatment utilize advanced thin-film nanocomposite membrane technology to safely and effectively treat water for home use. These membranes are NSF Standard 58 Certified and deliver the reliability and quality customers from around the world have come to expect from LG Chem.

All LG TWRO residential RO membranes are available in standard configurations and can easily fit into any point-of-use residential RO systems.

Product Specifications

Product Number	Permeate Flow Rate (GPD)	Minimum NaCl Rejection (%)	Stabilized NaCl Rejection (%)	Applied Pressure psig (bar)
LG TWRO-1812-35	35	96	98	60 (4.1)
LG TWRO-1812-50	50	96	98	60 (4.1)
LG TWRO-1812-80	80	96	98	60 (4.1)
LG TWRO-2012-100	100	96	98	60 (4.1)

Note: The above values are normalized to the following conditions: 250 ppm NaCl, pH7.5 controlled by $NaHCO_3$, 25°C (77°F), 60 psig (4.1 bar), 15% recovery. Permeate flows for individual elements may vary -10%.



Part Number	Total Length (A)	Front Connector Length (B)	Connector Diameter (C)	Element Diameter (D)	Element Length (E)
LG TWRO-1812-35 LG TWRO-1812-50 LG TWRO-1812-80	298 mm (11.7 in.)	18 mm (0.7 in.)	17 mm (0.7 in.)	44.5 mm (1.75 in.)	265 mm (10.4 in.)
LG TWRO-2012-100	298 mm (11.7 in.)	18 mm (0.7 in.)	17 mm (0.7 in.)	48 mm (1.89 in.)	265 mm (10.4 in.)

Operating Specifications

For more information and operating guidelines, visit www.LGwatersolutions.com

Maximum Operating Pressure:	10 bar (150 psig)
Maximum Opertating Temperature	45°C (113°F)
Maximum Feed Flow Rate	7.6 lpm (2.0 gpm)
pH Range, Continuous[1]:	2-11
Maximum Feed Silt Density Index (SDI):	5
Free Chlorine Tolerance[2]:	<0.1 ppm

1. Maximum temperature for continuous operation above pH 10 is (35°C) 95°F.
2. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, LG Chem recommends removing residual free chlorine by pretreatment prior to membrane exposure.

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