

ULP-4040HF

For smaller ultra-low pressure systems up to 50m³/day

8-12 Bar operating pressure

Feed TDS less than 1500 mg/l

Product overview

Permatec pure water membranes utilise the latest developments in permeable thin film composite membrane technology. High performing products and quality manufacturing ensure outstanding performance and reliability every time. All Permatec products are configured as industry standard sized spirally wound elements and can be used to retrofit any system operating in the specified pressure range.

This ULP-4040HF membrane element is designed for small low pressure systems and finds application where energy saving, productivity and high permeate quality are required. It is ideal for the manufacture of pure water for laboratories, window cleaning, battery top up, steam generators and a wide range of industrial situations. It is also highly suitable for the treatment of ground and surface water to potable standard, where the removal of salinity, nitrate and pesticides is required. It is manufactured from food grade materials and is approved to drinking water standards by USA regulators NSF.

Product specification

Active membrane area	Permeate flow*	Stabilised salt rejection**	Minimum salt rejection**
100 ft ² (9.3 m ²)	10.2 m ³ /day	99.5%	99.3%

*Test conditions: 1500 mg/l NaCl, solution at 1.03 MPa applied pressure, temperature 25 °C, pH 7.5 and recovery of 15%

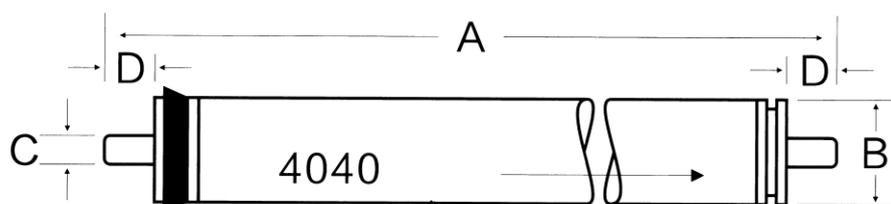
Stated performance may vary by ± 15% from the data shown

**Salt rejection is based on the chloride ion

Operating and design information

Typical operating pressure	0.8 - 1.2 MPa (8-12 Bar)
Maximum operating pressure	4.1 MPa
Maximum feedwater flow per vessel	3.6 m ³ /hour
Maximum operating temperature	45 °C
Maximum feed turbidity	1 NTU
Maximum feed SDI (15 minute)	5
Maximum differential pressure per element	0.1 MPa
Maximum free chlorine	<0.1 mg/l (dechlorination essential)
pH range continuous operation	2 - 11
pH range short term cleaning	2 - 12 (@ 35 °C max) 1 - 13 (@ 30 °C max)

Dimensions



A=1016.0mm(40") B=99.7mm(3.9") C=19.1mm(0.75") D=26.7mm(1.05")

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