



# MemTech™ XLP

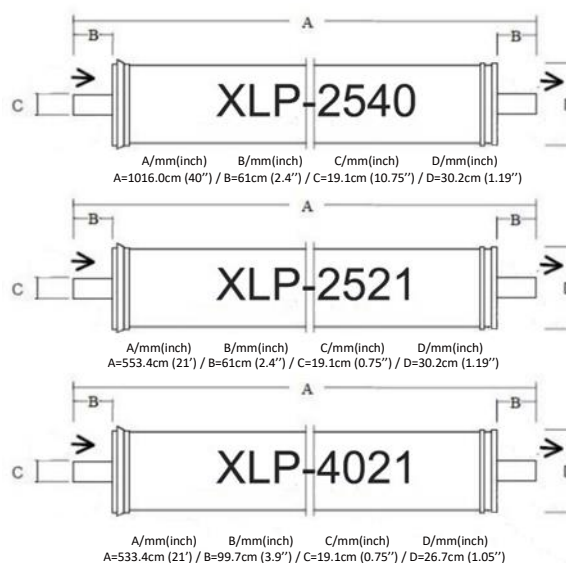
KEY FEATURES	Applications
<p>The <b>XLP</b> has key features of:</p> <ul style="list-style-type: none"><li>➤ Low operation pressure 100 Psi,</li><li>➤ <b>High salt rejection</b></li><li>➤ High permeate flow,</li><li>➤ These membranes are designed for domestic/commercial water treatment applications, such as the treatment of low salinity waters for home, residence, hospital, laboratory, shop, store</li></ul>	<p>The <b>XLP</b> series of low-pressure elements is generally suitable for treating:</p> <ul style="list-style-type: none"><li>➤ Domestic water</li><li>➤ Tap water</li><li>➤ Low salinity Brackish water,</li><li>➤ Laboratory</li><li>➤ Shop, Store</li><li>➤ Hospital</li></ul>

## Typical Properties

Product	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Permeate Flow Rate GPD (m <sup>3</sup> /d)	Stabilized Salt Rejection %
XLP-2521	14 (1.3)	2800	99.5
XLP-2540	30(2.8)	3500	99.5
XLP-4021	36(3.3)	3000	99.5

1. Test conditions: 1000 ppm NaCl, 100 psig (6 bar), pH 8, 77°F (25°C), 15 % recover.
2. Minimum salt rejection is 99 %.
3. Individual elements may have different permeate flows by +/-15%.

## Element Dimensions



## Operation Specifications and cleaning limits\*

Membrane Materials	Polyamide Thin-Film Composite
Maximum Operating Temperature <sup>a</sup>	113° F (45° C)
Maximum Operating Pressure	400 psi (28 bar)
Maximum Feed Flow Rate	16 gpm (3.6 m <sup>3</sup> /h)
Maximum Pressure Drop	15 psig (1.0 bar)
pH Range	2 - 11
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance	< 0.1 ppm

1. Over pH 10, the maximum continuous temperature is 95° F (35° C).
2. In certain conditions, free chlorine and other oxidizing agents can cause premature membrane failure.



## General Information

1. After initial wetting, keep elements moist at all times
2. The limited warranty will be null and void if the operating limits and guidelines are not strictly followed.
3. For the purpose of preventing biological growth during prolonged system operation shutdowns, membrane elements should be immersed in a preservative solution
4. The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements
5. The maximum pressure drop across an entire pressure vessel (housing) is 50 psi (3.4 bar).
6. Always avoid static backpressure on the permeate side
7. The permeate obtained from the first hour of operation should be discarded.
8. Make sure there are no abrupt changes in pressure or crossflow
9. During start-up, shutdown, cleaning, or other sequences, spiral elements should be protected from damage. It is recommended to gradually transition from a standstill to an operating state during startup:
10. The feed pressure should be gradually increased over a 30-60-minute period
11. The crossflow velocity should be gradually increased over 15-20 seconds to reach the set operating point.
12. It is crucial that the system is designed and operated correctly in order to reduce cysts and pathogens effectively.
13. The permeate obtained from the first hour of operation should be discarded.

## Important Information

14. To prevent membrane damage due to overfeeding or hydraulic shock, it is essential to start up reverse osmosis water treatment systems properly. As a result of following the proper start-up sequence, system water quality and productivity goals can also be achieved.
15. Pretreatment of the membrane, loading of the membrane elements, instrument calibration, and other system checks should be completed before starting the system

## Regulatory Note

Please check the application status of this product before using or selling it; some countries may restrict the use of this product in drinking water.



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