

Product Specifications

Membrane Element XLP-4040

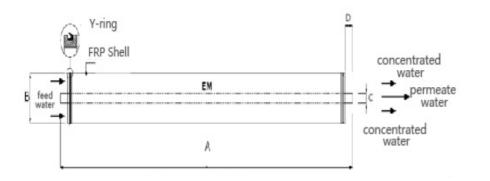
Description	E-MEM XLP membrane can separate salts from water and are produced with an
	advanced technology that ensures precision ,consistency,and reliability. It is widely
	used in the fields of pure water manufacturing, boiler water supply, food processing
	and pharmaceutical manufacturing. It is suitable for desalination treatment of low
	salinity water source with low desalination rate.
	1 With years of proven performance.
	2 High performance and long element life at low pressure.
	3 XLP type delivers high quality permeate water while minimizing unit cost
	Spiral-wound element with polyamide thin-film composite membrane
Product Type	

Product Specifications

E-MEM [®] Element	Active Area ft ² (m ²)	Feed spacer Thickness (mil)	Permeate Flow GPD (m ³ /d)	Salt Rejection	
	11- (111-)	THICKNESS (IIII)	OPD (III ² /d)	(70)	
XLP-4040	90.4 (8.4)	28	2400 (9.1)	98.0	
	1. Permeate flow and salt (NaCl) rejection based on the following standard test conditions				
	500 ppm N	aCl, 100 psi (6.9 bar), 77°	F (25°C), pH 7.5, 15% red	covery.	
	2. Flow rates for individual elements may vary but will be no more than 20% below the				
	value show	n.			
	3. Stabilize	d salt rejection is generally	y achieved within 24-48 h	ours of continuous use;	
	depending upon feed water characteristics and operating conditions.				
	4. Sales spe	ecifications may vary as de	esign revisions take place.		

5. Active area guaranteed \pm 3%

Element Dimensions



E-MEM [®] Element	А	В	С	D
	In. (mm)	In. (mm)	In. (mm)	In. (mm)
XLP-4040	40.0 1016	3.9 100	0.75 19.1	1.05 26.7

1. Refer to the design guidelines for E-MEM when designing multi-component systems $_{\circ}~1$ inch=25.4 mm

2. The components are fitted with pressure vessels with nominal inner diameter of 4 inches (102 mm).

Operating	Maximum operating temperature	113°F (45℃)		
	Maximum operating pressure	600 psig (41 bar)		
limit	Maximum pressure drop	15 psig (1.0 bar)		
	pH range, continuous operation	3-10		
	pH range, short-term cleaning (30 minutes)	2-12		
	Maximum Influent SDI	5		
	Free chlorine tolerance	<0.1 ppm		
	a When pH > 10, the maximum allowable temperature $^{\circ}F$ (35 $^{\circ}C$).	re for continuous operation is 95		
	 b For more information, please refer to the "Cleaning Steps" in the E-MEM Guidance Manual c Under certain conditions, the presence of free chlorine and other oxidants will lead to premature failure of membranes. Therefore, it is recommended that the inlet water be 			
	pretreated to remove residual free chlorine before water comes into contact with			
	membranes.			
	Before using or storing, check these additionate	l information for important		
Other	information:			
	• Guidelines for the Use of E-MEM [®] RO Mer	mbrane Elements		
information	• System operation: initial start-up			

When the membrane system is ready to be put into operation, it is necessary to start the reverse osmosis water treatment system correctly in order to prevent the damage of membrane components caused by water supply overflow or hydraulic impact. Following the correct start-up guide sequence helps to ensure that the system operating parameters conform to the design specifications, so that the water quality and quantity of the system can achieve the established design objectives.

Before the initial start-up procedure of the membrane system, the
pre-processing system debugging, the filling of membrane components,
the calibration of instruments and other system checks should be
completed.

In order to prevent potential membrane damage during start-up, shutdown, cleaning or other processes, any sudden pressure or cross-flow changes in the coiled components should be avoided. During the start-up process, we recommend that the following process be used to gradually put into operation from the static state:

• Feed water pressure should gradually increase in the time range of 30 to 60 seconds.

• The value of cross-flow velocity rising to design should gradually reach within 15-20 seconds.

• The product water should be released within the first hour.

• Once the membrane element is wetted, it should always remain wet.

• Limited warranty will be cancelled if the user fails to strictly comply with the operating restrictions and responsibilities stipulated in this Code.

• When the system shuts down for a long time, the membrane elements should be put into the protective fluid. Prevent microbial growth.

• Users should be responsible for the effects of incompatible chemicals and lubricants on membrane components.

• Back pressure should be avoided at all times.

WarrantyWhen the use and operation parameters of the product are refused or notStatementprovided to E-MEM, the buyer waives all other terms and conditions of
quality assurance except that the terms of material, manufacturing and
initial performance assurance are still valid.

Essential insurance clause excludes any indirect, joint and several, special, punitive and punitive liability for damages.

Important hints The use of E-MEM products does not guarantee the removal of cysts and pathogens in water. The effective removal rate of cysts and pathogens depends on the design and operation of the whole system.