

E-MEM Membrane	E-MEM XLP (Extra Low Pressure) membrane can achieve the same high-water flux
	and high desalination rate as conventional low-pressure membrane under extremely
XLP-8040	low operating pressure. Its operating pressure is about 1/2 of that of conventional
	low-pressure composite membrane, thus reducing the investment cost of related
	pumps, pipelines, containers and other equipment and the operating cost of reverse
	osmosis system, and improving economic benefits. XLP series membrane elements
Description	are suitable for the treatment of low salinity water sources with low desalination rate
	requirements, such as surface water, groundwater, tap water and municipal water with
	salinity below 1000ppm. Mainly used in various scales of pure water, boiler supply
	water, food processing and other fields.
	Offering proven performance
	1 With years of proven performance.
	2 High performance and long element life.
Product Type	3 BW type can offer the most effective cleaning performance durability.
	4 BW type delivers high quality permeate water while minimizing unit cost.
Membrane Element XLP-8040	Spiral-wound element with polyamide thin-film composite membrane

## **Product Specifications**

E-MEM <sup>®</sup> Element	Active Area	Feed spacer	Permeate Flow	Salt Rejection
	$ft^2$ (m <sup>2</sup> )	Thickness (mil)	$GPD  (m^3/d)$	(%)
XLP-8040	400 (37)	28	9500 (36.1)	98.0
	1. Permeate flow and salt (NaCl) rejection based on the following standard test conditions:			
	500 ppm NaCl, 100 psi (6.9 bar), 77°F (25°C), pH 7.5, 15% recovery.			
	2. Flow rates for individual elements may vary but will be no more than $\pm$ 20% compare with the value shown.			
	3. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use;			
	<ul><li>depending upon feed water characteristics and operating conditions.</li><li>4. Sales specifications may vary as design revisions take place.</li></ul>			
	5. Active area guaranteed $\pm$ 3%.			
Element Dimensions	Y-ri FRP	ng Shell	0	
	feed water	EM	concentrated water permeate	
	feed water	A	concentrated water	

E-MEM <sup>®</sup> Element	А	В	С
	In. (mm)	In. (mm)	In. (mm)
XLP-8040	40.0 1016	7.9 200	1.12 28.6

1. Refer to the design guidelines for E-MEM when designing multi-component systems。 1 inch=25.4 mm

2. The components are fitted with pressure vessels with nominal inner diameter of 8 inches (203 mm).

Operating	Maximum operating temperature	113°F (45°C)
1	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 $\mathbb{F}$ (35 °C).	e for continuous operation is 95
	b For more information, please refer to the "Cleaning Manual	Steps" in the E-MEM Guidance
	c Under certain conditions, the presence of free chlorin	ne and other oxidants will lead to
	premature failure of membranes. Therefore, it is recon	nmended that the inlet water be
	pretreated to remove residual free chlorine before wate	er comes into contact with
	membranes.	
	Before using or storing, check these additional	information for important
Other	information:	
	• Guidelines for the Use of E-MEM <sup>®</sup> RO Memb	prane Elements
information	System operation. Initial state up	
	Operation, custody and storage	
	When the membrane system is ready to be necessary to start the reverse osmosis water tre	
Operation	order to prevent the damage of membrane co- supply overflow or hydraulic impact. Follo	
guide	sequence helps to ensure that the system opera the design specifications, so that the water q system can achieve the established design object	uality and quantity of the

E-MEM <sup>®</sup> environmental technology	
	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.
	<ul> <li>The product water should be released within the first hour.</li> <li>Once the membrane element is wetted, it should always remain wet.</li> <li>Limited warranty will be cancelled if the user fails to strictly comply with the operating restrictions and responsibilities stipulated in this Code.</li> <li>When the system shuts down for a long time, the membrane elements should be put into the protective fluid. Prevent microbial growth.</li> <li>Users should be responsible for the effects of incompatible chemicals and lubricants on membrane components.</li> </ul>
	• Back pressure should be avoided at all times.
Warranty Statement	When the use and operation parameters of the product are refused or not provided 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.
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