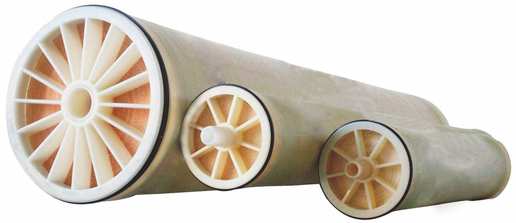
Nomenclature for Industrial Element



L 1－80 40－400

Active Membrane Area (Square Feet)
－400 400 Square Feet
－365 365 Square Feet
－380 380 Square Feet
－330 300 Square Feet

Length of Membrane Element in inch

Diameter of Membrane Element in inch (to be multiplied by 0.1)
－2514 Diameter 2.5 inch, Length 14 inch
－2521 Diameter 2.5 inch, Length 21 inch
－4021 Diameter 4.0 inch, Length 21 inch
－2540 Diameter 2.5inch, Length 40 inch
－4040 Diameter 4.0inch, Length 40 inch

Rejection Rate
The sequence of 1~3 represents the gradual increase of rejection rate

Nomenclature for Residential Element



ULP 18 12 －50

Permeated Flow in GPD
－50 50 GPD
－75 75 GPD
－100 100 GPD

Length of Membrane Element in inch

Diameter of Membrane Element in inch (to be multiplied by 0.1)
－1812 Diameter 1.8 inch, Length 12 inch
－2012 Diameter 2.0inch, Length 12 inch
－2812 Diameter 2.8inch, Length 12 inch
－3012 Diameter 3.0inch, Length 12 inch
－3020 Diameter 3.0inch, Length 20inch

Main Products



ULP Residential Membrane Elements

ULP residential membrane elements are mainly applicable to various small-sized systems, like household water purifier and water purifying devices in hospital and laboratory.

U Industrial Membrane Elements

Working under the conditions of ultra-low operating pressure，OV-U series offer good salt-rejection with 30% lower pressures compare to regular low pressure composite membrane, the desalination rate is up to 99.5%. It provides good water purity with low energy consumption and lower cost.

X Industrial Membrane Elements

Working under the conditions of extreme-low pressure，OV-X series membrane is perfect with the situation of low-salinity source and undemanding output water quality. The desalination rate of OV-X series membrane elements is 98.0%.

L Industrial Membrane Elements

L series is applicable to brackish water desalination with reliable operation and production of high quality water. It offers high performance at low pressure, high productivity and excellent salt-rejection. It delivers excellent silica, TOC and soluble salts rejection. OV-L series membrane is ideal for the electrical and electronic industry.

SW Industrial Membrane Elements

SW series membrane elements are applicable for seawater desalination. It enhances permeated flux per unit by improved structure design and thus decreases the number of elements installed. OV-SW series membrane elements are featured by high desalination rate, stable performance, low operation costs and low investment in equipment . It makes output seawater drinkable after one-pass RO treatment.

FR Industrial Membrane Elements

FR series is applicable to grey-water reuse and highly polluted surface water as feed water. Aim at poor water conditions, OV-FR series membrane elements is designed to be easily-clean with a wider inlet conduit net. A special surface treatment deal with the smoothness and electricity of surface is resulting in the increasing of the membrane surface hydrophilicity, and reducing of the contaminants and microbial contamination deposited on the membrane surface. Therefore, the special design improves cleaning effect, reduces the membrane fouling rate and extends the service life.

Specification of Residential Membrane

Series	Models	Stabilized Salt Rejection %	Permeated Flow Rate GPD(m^3/d)	Application	Testing Condition		
					Testing Pressure psi(Mpa)	Testing Solution Concentration NaCl(ppm)	Recovery Rate %
ULP	ULP 1812-50	97.5	50 (0.19)	applicable for small-sized systems, like household water purifier and water purifying devices in hospital and laboratory devices	60 (0.41)	250	15
	ULP 1812-75	97.5	75 (0.28)				
	ULP 2012-100	95.0	100 (0.38)				
	ULP 2008-50	96.0	50(0.19)				
	ULP 2812	97.0	200 (0.76)	applicable for commercial RO systems with high flux requirement such as RO drinking fountain and vending machines	100 (0.69)	500	15
	ULP 3012	97.0	240 (0.91)				
	ULP 3020	97.0	420 (1.60)				

Temperature of Testing Solution: 25℃ pH Value of Testing Solution:7.5

Specification of Industrial Membrane

Series	Models	Stabilized Salt Rejection %	Permeated Flow Rate GPD(m^3/d)	Application	Testing Condition		
					Testing Pressure psi(Mpa)	Testing Solution Concentration NaCl(ppm)	Recovery Rate %
U L X	L-8040-365	99.5	9600 (36.3)	applicable for brackish water	225 (1.55)	2000	15
	L-8040-400	99.5	10500 (39.7)				
	L1-4040	99.5	2400 (9.1)				
	X1-4040	98.0	2000 (7.6)	applicable for undemanding output water standard, working under extremely low pressure	100 (0.69)	500	15
	U1-8040	98.0	13200 (49.9)	applicable for low-salinity source under ultra-low pressure	150 (1.03)	1500	15
	U2-8040	99.0	12100 (45.7)				
	U3-8040	99.5	10500 (39.7)				
	U1-4040	98.0	2700 (10.6)				
	U2-4040	99.0	2400 (9.1)				
	U3-4040	99.4	1900 (7.2)				
	U1-4021	98.0	1000 (3.8)	applicable for water purifying devices in hospital and laboratory devices under ultra-low pressure	150 (1.03)	1500	8
	U2-4021	99.0	950 (3.6)				
	U3-4021	99.4	850 (3.2)				
	U-2521	99.0	300 (1.1)				
	U-2540	99.0	750 (2.8)				15
SW	SW-8040 -330	99.7	6000 (22.7)	applicable for seawater desalination	800 (5.5)	32800	8
	SW-8040 -380	99.7	6800 (25.7)				
	SW-4040	99.5	1600 (6.1)				
	SW-2540	99.2	600 (2.3)	applicable for small- sized brackish water desalination systems under high operating pressure, especially in marine			4
	SW-4021	99.2	800 (3.0)				
	SW-2521	99.2	250 (0.9)				
	SW-2514	99.2	130 (0.5)				2
FR	FR-8040 -365	99.5	9600 (36.3)	applicable to highly polluted surface water as feed water and grey-water reuse, lower membrane fouling rate and longer service life	225 (1.55)	2000	15
	FR-8040 -400	99.5	10500 (39.7)				
	FR-4040	99.5	2200 (8.3)				

Temperature of Testing Solution: 25℃ pH Value of Testing Solution:7.5