

Membrane product manuals



Qicheng (Jiangsu) Purification Technology Co., Ltd.

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Address: Small and medium enterprise industrial park, Jiangdu economic development zone, Yangzhou city, Jiangsu province, China. Tel.:0514-86276799



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Company Profile

Qicheng (Jiangsu) Purification Technology Co., Ltd., located in Yangzhou City, Jiangsu Province, is a professional high-tech company, which is engaged in research and development, production, sales and after-sales service of separation membrane products. The company is committed to the innovation and application of water treatment technology and separation membrane materials, and provides comprehensive water treatment technology, produces and sells mainly industrial and household reverse osmosis membranes, nano-filtration membranes and ultra-filtration membranes. The company has first-class research and development team, modern laboratories, and signed technical development cooperation agreements with Tsinghua University, and made important breakthroughs in the field of research and development of thigh-performance low-pressure reverse osmosis membranes. At the same time, the company owns advanced production equipment and skilled technical workers, and strictly implement 150 9001 standard quality management system in product production and quality control to ensure the quality of every product manufactured.

manufactured.

Qicheng brackish water desalination membrane components, ultra-low pressure membrane components, anti-pollution membrane components, seawater desalination membrane, nano-filtration membrane and ultra-filtration membrane have been widely used in municipal water supply, power plants, chemical plants, electronics factories, phoramaceutical factories, food and beverage and household water supply industries, improving the quality of industrial products and improving human survival environments, improving the quality of life of consumers. Qicheng membrane products sell well in nearly 30 provinces, municipalities and autonomous regions, and are exported to North America, Europe, the Middle East, Southeast Asian countries. They are widely recognized and preferred by users at home and abroad. All employees of Qicheng Company are willing to continue upholding the tenet of "honesty, pragmatism and innovation" to provide better products and better service to customers both nationwide and overseas.



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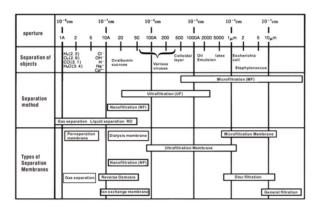






Selection Guidelines and Performance Specifications

Naming Rules and Selection Guidelines for Membrane Components





2. Classification of membrane products

- LP: Standard Brackish Water Reverse Osmosis Membrane Component
 FR: High Pollution Resistance Desalination Reverse
- ULP: Ultra Low Pressure Desalination and Desalination Reverse Osmosis Membrane Component
 XLP: Extreme Low Pressure Desalination Freshwater
 Reverse Osmosis Membrane Component
- NF: Nanofiltration Membranes with 50%, 70% or 90%
- HS: Anti-fouling High Salt Membrane Component
 UF: Industrial Ultrafiltration Membrane Component







Membrane	Membrane	Stable	Minimum		Operating	Test conditions		
components classification	Component Model	desalin- ation rate (%)	desalin- ation rate (%)	water GPD (m ¹ /d)	Pressure and Appli- cable Scope	Test pressure	Test solution concentration NaCl (ppm)	Recovery rate (%)
					3.04	psi (MPa)	maci (ppm)	(%)
	QC-LP-8040-365	99.5	99.3	9500(35.9)		225 (1.55)	2000	15
Brackish Water Membrane	QC-LP-8040-400	99.5	99.3	10500(39.7)	Low pressure operation,			
	QC-LP-4040	99.5	99.3	2400(9.1)	suitable for brackish water or high concentration brackish water			
Component	QC-LP-8040-365FR	99.3	99	9000(34.1)		25(25)		
	QC-LP-8040-400FR	99.3	99	9500(35.9)				
	QC-LP-4040FR	99.3	99	2200(8.3)				
Ultra-low pressure Membrane Component	QC-ULP-8040-400	99.2	99	10000(37.9)		150 (103)	1500	
	QC-ULP-8040-440	99.2	99	11000(41.6)	Ultra-low pressure operation, suitable for low salinity water source			15
	QC-ULP-4040	99.2	99	2400(9.1)				
	QC-ULP-4021	99	98.5	1000(3.8)				
	QC-ULP-2540	99	98.5	750 (2.8)				8
	QC-ULP-2521	99	98.5	300(1.13)				
	QC-XLP-8040-400	99	98.5	9500(35.9)		100 (0.69)	500	15
	QC-XLP-8040-440	99	98.5	10500(39.7)	low pressure operation, suitable for			
Extreme Low Pressure	QC-XLP-4040	99	98.5	2400(9.1)	low salinity water source and second-			
Membrane Component	QC-XLP-4021	99	98.5	1000(3.8)	level reverse osmosis system			
	QC-XLP-2540	99	98.5	750 (2.8)				
	QC-XLP-2521	99	98.5	300 (1.13)				
Anti-fouling High Salt	QC-FRHS-8040	98.5	98	7300 (27.6)	Medium pressure operation, suitable for water sources	320 (2.21)	12000	10
Membrane Component	QC-FRHS-4040	98.5	98	1800 (6.8)	with high salinity and the TDS below 20000 ppm.			



Membrane	Membrane	omponent desalin- water G	Average yield	Operating	Test conditions			
components classification	Component Model		water GPD	ter GPD Pressure /d) and Appli-	Test pressure	Test solution	Recovery	
				cable Scope	psi (MPa)	concentration NaCl (ppm)	rate (%)	
	QC-1812-50	97	50(0.19)	Extremely low pressure operation, suitable for suitable for purifier and commercial water purifier			35	
	QC-1510-50	97	50(0.19)					
	QC-1812-75	97	75(0.28)					
	QC-1510-75	97	75(0.28)		65(0.45)	250		
Household	QC-1812-90	96	90(0.34)					
Reverse Osmosis Membrane Components	QC-2012-100	96	100(0.38)					
	QC-2012-125	96	125(0.47)				33	
	QC-2012-130	96	130(0.5)					
	QC-2012-150	96	150(0.57)					
	QC-2012-200	96	200(0.76)					
	QC-2812-200	97	200(0.76)					
	QC-3012-300	97	300(1.14)		75(0.52)		35	
	QC-3012-400	97	400(1.52)					
Commercial	QC-3013-400	96	400(1.52)					
Reverse Osmosis Membrane	QC-3013-600	96	600(2.00)					
Components	QC-3213-600	96	600(2.00)					
	QC-3213-800	97	800(3.0)					
	QC-3413-800	97	800(3.0)		90(0.63)			
	QC-3413-1000	97	1000(3.8)	1				

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Qicen LP Series 4/8 inch Reverse Osmosis Membrane Components for Brackish Water Desalination



Performance characteristics:

LP series reverse oumosis membrane components are polyamide composite membranes developed by Oicheng Company for desalination of brackish water. They have the characteristics of low pressure operation, high water yield and good desalination performance, It is suitable for desalination treatment of surface water, groundwater and tap water with salinity less than 5000 ppm. Among them, 8 inch desalination membrane is mainly used for desalination and purification of large and medium-sezed chemical, pharmaceutical, food, power plant, process water for electronic plant, holler supply water, and municipal water, a flow disciplination membrane is mainly used in small-scale pharmaceutical, food, electronic factory process water, ultra-pure water, etc. It can also be used in desalination purification treatment in schools, communities and other water supulvi stations.

Performance specification

Product Model	Effective membrane area ft ¹ (m ²)	Inlet channel width (mil)	Water yield gpd(m ⁷ /d)	Stable rejection rate %	Minimum rejection rate %
QC-LP-8040-365	365 (33.9)	31	9500 (35.9)	99.5	99.3
QC-LP-8040-400	400 (37.2)	31	10500 (39.7)	99.5	99.3
QC-LP-4040	85 (7.9)	28	2400 (9.1)	99. 5	99. 3

1. The above test values are based on the following test conditions: 2000 ppm NaCl, at 225psi (1.55 MPa) 25°C, PH7.5, 15% recover 2. The average water yield of sized membrane was within (4.10%).



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Qicen ULP Series 2.5/4/8 inch Low Pressure Desalination Reverse Osmosis Membrane Components

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Performance characteristics:

ULP series low' pressure desalination reverse outnois membrane components are polyamide composite membranes developed by Qicheng Company for surface water groundwater. They have the characteristics of low pressure aperation, high water yield and good desalination performance. They have the characteristics of low pressure operation, high water yield and good desalination performance It can achieve the same high water flux and high desalination rate under lower operating pressure than conventional low-pressure membrane. Its operating pressure is around two thinks of the operating pressure of conventional low-pressure composite membrane, and the desalination rate can reach 99.5%. It can be used to treat surface water, groundwater and tap water with salinity less than 2000 ppm. Among them, is inch desalination membrane is mainly used for desalination and purification of large and medium-sized chemical, pharmaceutical, food, power plant, process water for electronic plant, boiler supply water, and municipal water. 4 inch desalination membrane is mainly used in small-scale pharmaceutical, food, electronic factory process water, after pure water, cer. It can also be used in desalination purification treatment in schools, communities and other water supply stations. Among them, 2.5 inch desalination membrane is mainly used in small-commercial water outfiers. Dossibles and laboratory water purifiers.



Performance specification

Product Model	Effective membrane area ft'(m')	Inlet channel width (mil)	Water yield gpd(m ¹ /d)	Stable rejection rate %	Minimum rejection rate %
QC-ULP-8040-400	0 400 (37.2)	31	10000 (39.7)	99.3	99.0
QC-ULP-8040-440	0 440(37.2)	31	11000 (39.7)	99.3	99.0
QC-ULP-4040	85 (7.9)	31	2400 (9.1)	99.2	99.0
QC-ULP-4021	36 (3.3)	31	1000 (3.78)	99.0	98.5
QC-ULP-2521	14 (1.3)	28	300(1.13)	99.0	98.5
QC-ULP-2540	28 (2.6)	28	750(2.84)	99.0	98.5

1. The above test values are based on the following test conditions: 1500 ppm NaCl, at 150psi (1.03 MPa) 25°C, PH7.5, 15% recovery.

2. The average water yield was measured, and the error of water yield of single membrane was within (+10%).



Qicen HS Series 4/8 inch Anti-fouling High Salt Reverse Osmosis Membrane Components



Performance characteristics:

Its series reverse outnoss memorane components are polyamane composite memoranes developed by Queenqu, company for decalization of high salt water. They have the characteristics of low pressure operation, high water yield and good desalization performance. Due to the use of special technology to treat the membrane surface and increase the hydrophilicity of the membrane surface, the deposition of pollutants and salts on the membrane surface is reduced, and the sant-pollution effect is achieved. It is suitable for desalization reatment of industrial wastewater high salt water, recycled water and other water sources with less than 20000 ppm salt content. Among them, 8 inch membrane is mainly used in large and medium-sized industrial reclaimation for expeld water, municipal wastewater and other water sources containing a small amount of organic pollutants or high salinity. The 4-inch membrane is especially saitable for the treatment of small-scale industrial recycled water, industrial wastewater, municipal wastewater and other water sources containing a small amount of organic pollutants or high salinity.







Performance specification

Product Model	Effective membrane area ft ¹ (m ¹)	Inlet channel width (mil)	Water yield gpd(m ⁷ /d)		ejection e %	Minimum rejection rate %
QC-FRHS-8040	320 (29.8)	38	7300 (27.6)	98	97
QC-FRHS-4040	75 (7.0)	38	1,800(5.8)	98	97

1. The above test values are hased on the following test conditions: 12000 ppm NaCl, at 320psi (2.2 MPa) 25°C, PH7.5, 10% recovery 2. The average water yield was measured, and the error of water yield of single membrane was within (+10%).

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Qicen XLP Series 4/8 inch Extreme Low Pressure Desalination Reverse Osmosis Membrane Components

Performance characteristics:

XLP series extreme low pressure desalination reverse osmosis membrane components are polyamide composite membranes developed by Qichong Company for surface water groundwater. They have the characteristics of low pressure operation, high water yield and good decalination performance. They have the characteristics of low pressure operation, high water yield and good decalination performance. It can achieve high water flux and high desalination rate under extreme low operating pressure, only 0.69/MPa. It can be used to treat surface water, groundwater and tap water with salinity lies than 500 pm, especially suitable for the second-level desalination of the reverse osmosis system. Among them, 8 inch desalination membrane is mainly used for desalination and purification of municipal water, and for process water and boiler supply water of large and medium-sized chemical, pharmaceutical, food, power plant, electronic plant industries. 4 Inch desalination embrane is mainly used in small-scale pharmaceutical, food, power plant, electronic plant industries. 4 Inch desalination membrane is mainly used in small-scale pharmaceutical, food, power plant, electronic plant industries. 4 Inch desalination membrane is mainly used for desalination purification treatment.



Performance specification

Product Model	Effective membrane area ft¹(m²)	Inlet channel width (mil)	Water yield gpd(m ² /d)	Stable rejection rate %	Minimum rejection rate %
QC-XLP-8040-40	0 400 (37.2)	31	9500 (35.9)	99.0	98.5
QC-XLP-8040-44	0 440 (40.9)	28	10500 (39.7)	99.0	98.5
QC-XLP-4040	93.5(8.7)	31	2600(9.8)	99.0	98.5
QC-XLP-4021	36 (3.3)	28	1300(4.9)	98.5	98.0
QC-XLP-2540	28 (2.6)	28	750 (2.84)	99. 0	98. 5
QC-XLP-2521	14 (1.3)	28	300 (2.84)	99. 0	98. 5

1. The above test values are based on the following test conditions: 500 gpm NaCl, at 100psi (0.69 MPa) 25°C, PH7.5, 15% recovery.

2. The average water yield was measured, and the error of water yield of single membrane was within (+10%).



Qicen XLP Series 4/8 inch Nanofiltration Membrane Components



Performance characteristics:

NF series nanofiltration membrane components are developed by Qicheng Company to remove organic substances, microorganisms viruses and most of the divalent and above and metal ions in water, while retaining sodium, potassium, calcium, magnesium plasma and so on. Nanofiltration membrane separation process will make no destruction of biological activity without any chemical reaction, heating, or phase transition, so float your and fragrance could be reserved. It is widely used in the preparation of drinking water and various separation and concentration and purification projects in food, medicine, bioengineering, pollution control and other industries



Performance specification

Product Model	Effective membrane area ft ¹ (m ¹)	Inlet channel width (mil)	Water yield gpd(m ^{-/} d)	NaCl Removal rate %	MgSO4 Remova rate %
NF50-8040	400 (37.2)	31	12000 (45.5)	40~60	≥96
NF70-8040	400 (37.2)	31	9000 (34.1)	60~80	≥96
NF90-8040	400 (37.2)	31	7500 (28.4)	80~95	≥96
NF50-4040	80 (7.4)	31	2400 (9.1)	40~60	≥96
NF70-4040	80 (7.4)	31	1750 (6.6)	60~80	≥96
NF90-4040	80 (7.4)	31	1400 (5.3)	80~95	≥96

1. The above test values are based on the following test conditions: 500 ppm NuCl, at 75psi (0.52 MPa) 25°C, PH7.5, 15% ro 2. The average water yield was measured, and the error of water yield of single membrane was within (+10%).

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Qicen Anti-fouling Series 4/8 inch Reverse Osmosis **Membrane Components**



Performance characteristics:

Performance characteristics:
PR series reverse cosmosis membrane components are polyamide compositie membranes developed by Qicheng Company for desailanation of high sailt brackish water. They have the characteristics of low pressure operation, high watery ield and good desailanation performance. Due to the use of special technology to treat the membrane surface and increase the hydrophilicity of the membrane surface, in the question of pollutains and sails on the membrane surface is reduced, and the anti-pollution effect is achieved. It is suitable for desailanation treatment of surface water, ground water and municipal tap water with less than 5000 ppm sail content. Among them, 8 inch membrane is surface water, ground water and municipal tap water with less than the surface of surface of surface of the surface of surface of surface of surface of the surface of surface of the surface of surface of the surface of su



Performance specification

Product Model	Effective membrane area ft ² (m ²)	Inlet channel width (mil)	Water yield gpd(m ⁵ /d)	Stable rejection rate %	Minimum rejection rate %
QC-LP-8040-365	FR 365 (33.9)	34	9000 (34.1)	99.3	99.0
QC-LP-8040-400	FR 400 (37,2)	34	9500 (35.9)	99.3	99.0
QC-LP-4040FR	85 (7.9)	34	2,200 (8.3)	99.3	99.0

1. The above test values are based on the following test conditions: 2000 ppm NaCl, at 225psi (1.55 MPa) 25°C, PH7.5, 15% recovery.

2. The average water yield was measured, and the error of water yield of single membrane was within (+10%).