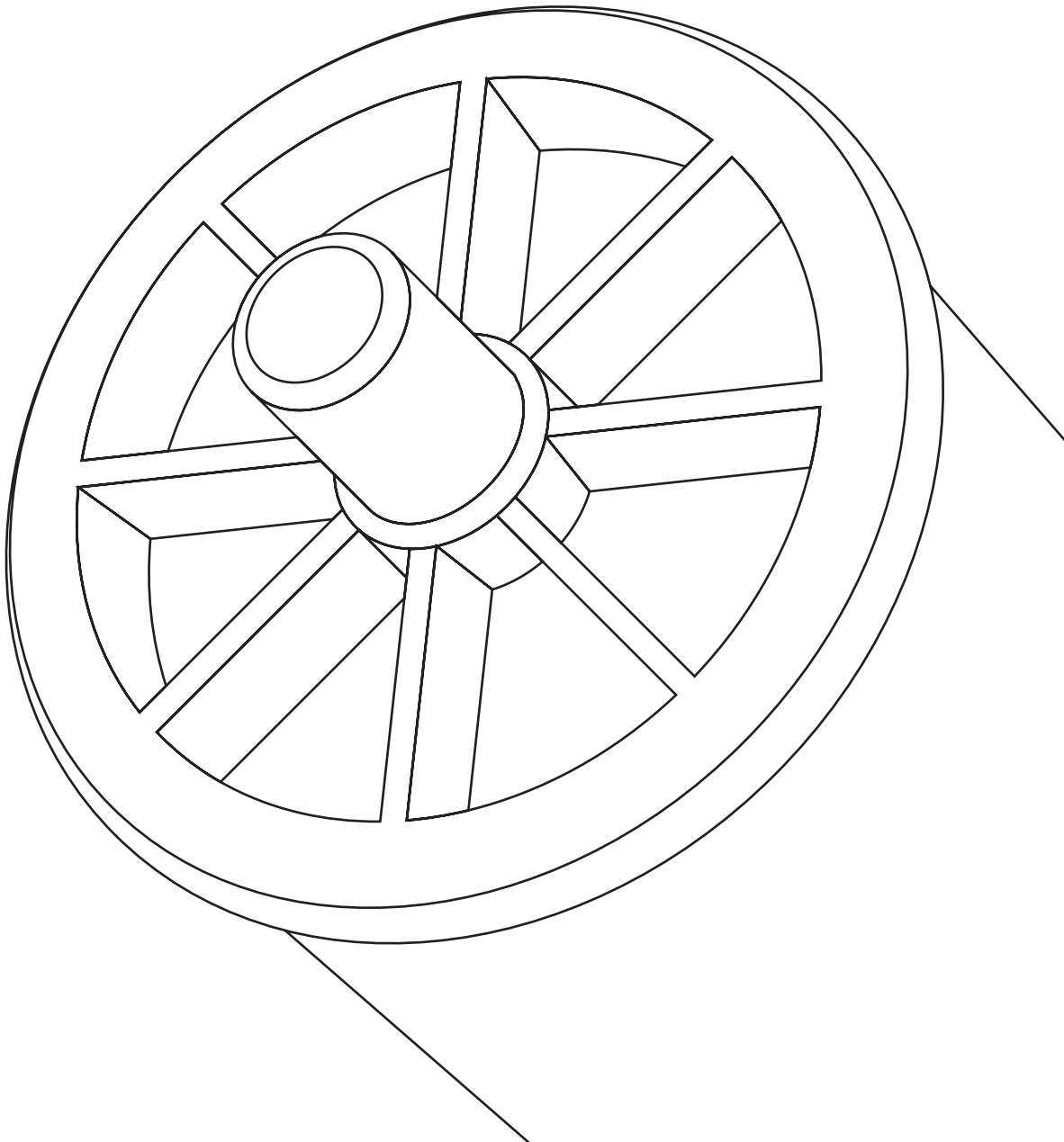
Canature

Canature Product Specification For Industrial Membrance



Company Introduction

Founded in 2001, by Mr. Qu Jianguo, a well-known entrepreneur in China.

Located close to the Shanghai Pudong International Airport and Disneyland.

A large professional “one-stop manufacturer” of residential and commercial water treatment systems and components in China.

We have over 1200 full-time employees in Canature headquarter.

Our manufacturing plant covers an area of 85,000+ square meters.

Canature is the first public company in water treatment field in China.

The stock code is 300272.

Why Canature

A large water treatment products manufacturer in China

Manufacturing covers an area of 73300 square meters in head quarter.
Over 1200 full-time employees.
Large production capacity: Over 850,000 sets of whole set softeners and filters, 1,500,000 pcs pressure tanks, with the plan of achieving 1,000,000 pcs control valves, 1,000,000pcs RO system and 10, 000,000pcs cartridges in next few years.
High speed and stable developing company.
The 1st public company in Chinese water treatment industry.

"One Stop Purchase" Manufacturer

Full line core components “pressure tanks”, “control valves” and “brine tanks” manufacturer.
Residential and commercial water softener and water filter manufacturer.
High quality Reverse Osmosis system and RO membrane, cartridge manufacturer.
Offer customized OEM and ODM service, plenty products lines meet different requirements.
Related products sourcing service to help you save time and cost, control quality.

World-Class Quality Ensured

Independent strong R&D, owning patents and world leading instruments.
The world's top 500 material suppliers, no recycle material used.
Products meet international standards NSF, CE, RoHs, ACS etc.
Entire plant has been certified to ISO 9001 and ISO 14001 for quality and environmental guarantee.
Sell to all of the world and recognized with high reputation.
10 years warranty for pressure tanks, 5 years warranty for control valves.

Competitive Price

Large quantity production brings lower costs.
Large quantity raw material purchase lows down the cost.
Lean manufacturing brings high efficiency.
Always lows down costs, never lows down quality.

Canature Promises

No recycle material.
No low quality supplier.
No dyeing on the products.
No plasticizer.

PERFORMANCE OF INDUSTRIAL MEMBRANE ELEMENTS

Product Series	Product model	Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection(%)	Stabilized Salt Rejection(%)	Feed Spacer mil
TW	TW- 8040XLP	400（37）	9000（34.0）	98.0	99.0	28
	TW- 4040XLP	85（7.9）	2400（9.1）	98.0	99.0	28
	TW- 4021XLP	36（2.5）	950（3.2）	98.0	99.0	28
	TW- 2540XLP	27（2.5）	750（2.8）	98.0	99.0	28
	TW- 2521XLP	12（1.1）	300（1.1）	98.0	99.0	28
BW	BW- 8040ULP	400（37）	10500（39.7）	99.0	99.3	28
	BW- 8040LP	400（37）	10500（39.7）	99.2	99.5	28
	BW- 8040FR	400（37）	10500（39.7）	99.2	99.5	28/34
	BW- 4040ULP	85（7.9）	2400（9.1）	99.0	99.3	28
	BW- 4040LP	85（7.9）	2400（9.1）	99.2	99.5	28
	BW- 4040FR	85（7.9）	2400（9.1）	99.2	99.5	28/34
	BW- 4021ULP	36（3.3）	950（3.2）	99.0	99.3	28
	BW- 4021LP	36（3.3）	950（3.2）	99.2	99.5	28
	BW- 2540ULP	27（2.5）	750（2.8）	99.0	99.3	28
	BW- 2540LP	27（2.5）	750（2.8）	99.2	99.5	28
	BW- 2521ULP	12（1.1）	300（1.1）	99.0	99.3	28
	BW- 2521LP	12（1.1）	300（1.1）	98.2	99.5	28
SW	SW- 8040	400（37）	9000（34.0）	99.3	99.5	28/34
	SW- 4040	85（7.9）	2000（7.6）	99.3	99.5	28
	SW- 4021	36（3.3）	750（2.8）	99.3	99.5	28
	SW- 2540	27（2.5）	600（2.3）	99.3	99.5	28
	SW- 2521	12（1.2）	270（1.0）	99.3	99.5	28

NOTE：Test Condition：2000 ppm NaCl at 25°C (77 °F),225psi,PH=7,Recovery=15%

Among：

Domestic Series BW-8040ULP/XLP,BW-4040ULP/XLP,Test Condition：1500 ppm NaCl at 25°C (77 °F),150psi,PH=7,Recovery=15%

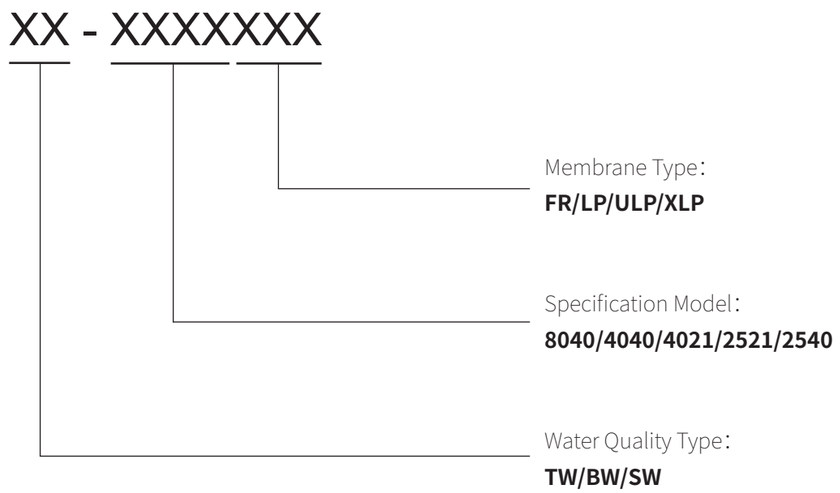
Imported Series BW-8040ULP/XLP,BW-4040ULP,Test Condition：2000 ppm NaCl at 25°C (77 °F),150psi,PH=7,Recovery=15%

Imported Series BW-4040XLP,Test Condition：2000 ppm NaCl at 25°C (77 °F),125psi,PH=7,Recovery=15%

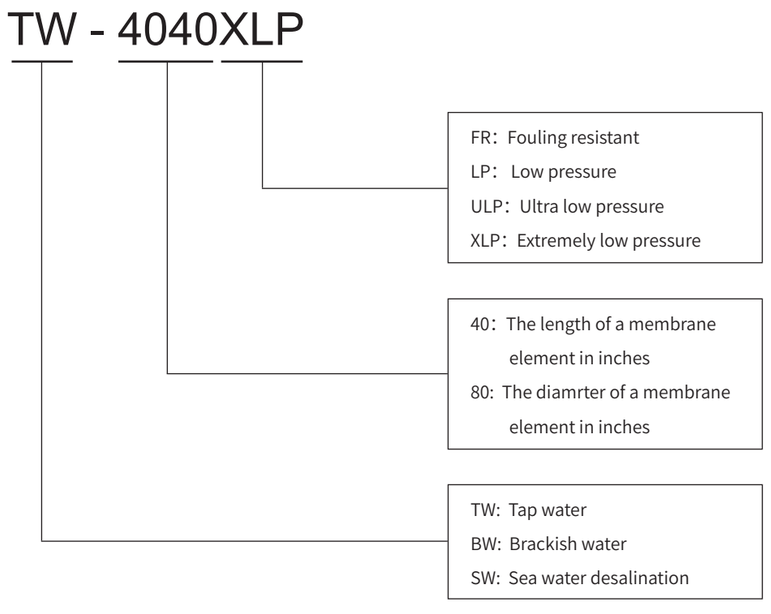
NOTE：Imported Series SW-8040/4040/2540 Test Condition：32000 ppm NaCl at 25°C (77 °F),800psi,PH=8,Recovery=8%

Imported Series SW-4021/2521 Test Condition：32000 ppm NaCl at 25°C (77 °F),800psi,PH=8,Recovery=4%

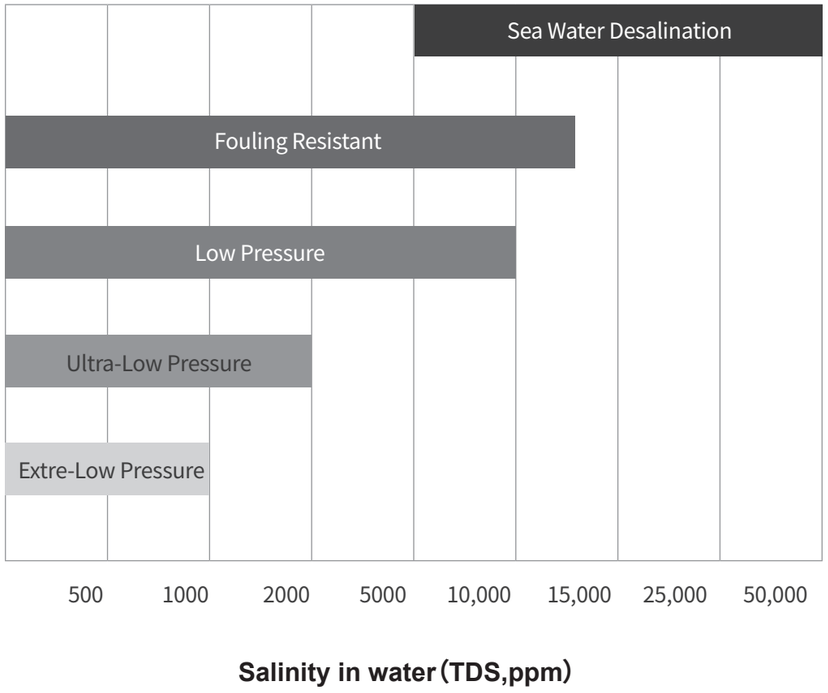
INDUSTRIAL REVERSE OSMOSIS MEMBRANE SERIES



Product Naming



GUIDE TO SELECTION OF INDUSTRIAL MEMBRANE ELEMENTS



PRODUCT SPECIFICATION FOR TW-XLP SERIES

Overview

The extremely low pressure brackish water membrane element is suitable for desalination and advanced treatment of low-salinity raw water such as surface water, groundwater, and tap water below 1000ppm. It can achieve higher production under extremely low operating pressure or small membrane area. The amount of water. It can be widely used in the second stage of waste water recycling, various large-scale drinking water purification, boiler make-up water and other fields. It is also an ideal choice for municipal water supply treatment fields that use surface water and well water as water sources.

Product Specification

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	TW-8040XLP	400（37.2）	10500（43.5）	98.0	99.0	28
	TW-4040XLP	90（8.4）	2400（9.1）	98.0	99.0	28
Domestic Series	TW-8040XLP	400（37.2）	10500（43.5）	98.0	99.0	28
	TW-4040XLP	90（8.4）	2400（9.1）	98.0	99.0	28
	TW-4021XLP	36（3.3）	950（3.2）	98.0	99.0	28
	TW-2540XLP	27（2.5）	750（2.8）	98.0	99.0	28
	TW-2521XLP	12（1.1）	300（1.1）	98.0	99.0	28

Test Conditions : 500 ppm NaCl at 25oC(77°F), 100 psi (6.9bar), pH=7, Recovery 15%.

Permeate flows for individual elements may vary±15%.

PRODUCT SPECIFICATION FOR BW-ULP SERIES

Overview

The ultra-low pressure brackish water reverse osmosis membrane element is suitable for the desalination of raw water with a salt concentration of less than 2000mg/L. The product has the characteristics of high desalination rate, low operating pressure and large membrane flux, and can be widely used in desalinated water treatment projects that use municipal tap water and groundwater as raw water. Such as the production water of enterprises such as direct drinking water in the community and food and beverage .

Product Specification

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	BW-8040ULP	400（37）	10500（39.7）	99.0	99.3	28
	BW-4040ULP	90（8.4）	2400（9.1）	99.0	99.3	28
Domestic Series	BW-8040ULP	400（37）	10500（39.7）	99.0	99.3	28
	BW-4040ULP	90（8.4）	2400（9.1）	99.0	99.3	28
	BW-4021ULP	36（3.3）	950（3.2）	99.0	99.3	28
	BW-2540ULP	27（2.5）	750（2.8）	99.0	99.3	28
	BW-2521ULP	12（1.1）	300（1.1）	99.0	99.3	28

BW Domestic Series Test Conditions: 1500ppm NaCl, 25°C (77°F), 150psi(10.3bar), pH=7±0.5, Recovery 15%.

Permeate flows for individual elements may vary±15%.

PRODUCT SPECIFICATION FOR BW-LP SERIES

Overview

The conventional low pressure brackish water reverse osmosis membrane element is suitable for the desalination of brackish water with salt concentration below 10000mg/L, It has the characteristics of low operating pressure, high desalination rate and large flux. Can be widely used in pure water and ultra-pure water manufacturing, but also can be used in food concentration and metal recovery and other industries.

Product Specification

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	BW-8040LP	400（37）	10500（39.7）	99.2	99.5	28
	BW-4040LP	90（8.4）	2400（9.1）	99.2	99.5	28
Domestic Series	BW-8040LP	400（37）	10500（39.7）	99.2	99.5	28
	BW-4040LP	90（8.4）	2400（9.1）	99.2	99.5	28
	BW-4021LP	36（3.3）	950（3.2）	99.2	99.5	28
	BW-2540LP	27（2.5）	750（2.8）	99.2	99.5	28
	BW-2521LP	12（1.1）	300（1.1）	99.2	99.5	28

Test Conditions : 2000 ppm NaCl at 25oC(77°F), 225psi (15.5 bar), pH 7±0.5, Recovery 15%.

Permeate flows for individual elements may vary±15%.

PRODUCT SPECIFICATION FOR BW-FR SERIES

Overview

Anti-pollution brackish water reverse osmosis membrane element is suitable for desalination of surface water, groundwater and other water sources with salt concentration below 12000mg/L; It can also be used in water with higher organic or microbial content, such as desalination and color removal. The anti-pollution membrane element has many characteristics, such as high pollution resistance, good cleaning recovery, etc., and can be widely used in desalination preparation,reclaimed water reuse, waste water treatment projects.

Product Specification

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	BW-8040FR	400（37）	10500（39.7）	99.2	99.5	28/34
	BW-4040FR	90（8.4）	2400（9.1）	99.2	99.5	28/34
Domestic Series	BW-8040FR	400（37）	10500（39.7）	99.2	99.5	28/34
	BW-4040FR	90（8.4）	2400（9.1）	99.2	99.5	28/34

Test Conditions : 2000 ppm NaCl at 25oC(77°F), 225 psi (15.5 bar), pH 7±0.5, Recovery 15%.

Permeate flows for individual elements may vary±15%.

PRODUCT SPECIFICATION FOR SW SERIES

Overview

Seawater desalination series membrane components are rolled with imported aromatic polyamide composite membrane. It has the characteristics of high removal rate, stable performance, low operating cost and small equipment investment, which can ensure that the first-stage reverse osmosis can get drinking water from sea water.

Seawater desalination reverse osmosis membrane element is generally suitable for the treatment of seawater and high concentration brackish water, can be used for seawater desalination, high concentration brackish water desalination, power plant boiler supply water and other industrial water treatment, can also be used for waste water reuse, food and medicine and other high value-added substances concentration recovery and other application fields

Product Specification

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	SW-8040	400（37）	9000（34.1）	99.3	99.5	28/34

Test Conditions：32000ppm NaCl，25°C（77°F），800psi（55.2bar），pH=8，Recovery 8%
Permeate flows for individual elements may vary ±15%.

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	SW-4040	90（8.4）	2000（7.6）	99.3	99.5	28
	SW-2540	28（2.6）	600（2.3）	99.3	99.5	28

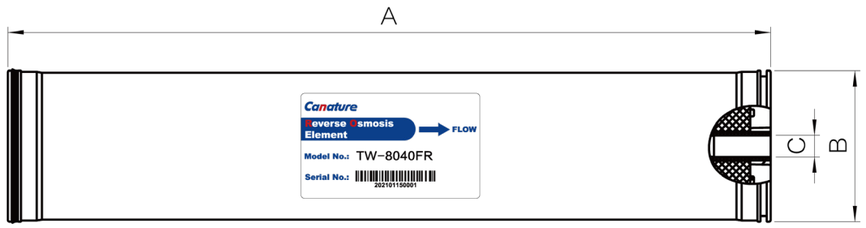
Test Conditions：32000ppm NaCl，25°C（77°F），800psi（55.2bar），pH=8，Recovery 8%
Permeate flows for individual elements may vary ±15%.

Product Model		Active Membrane Area $ft^2(m^2)$	Permeate flow Rate GPD(m^3/d)	Minimum Salt Rejection (%)	Stabilized Salt Rejection (%)	Feed Spacer mil
Imported Series	SW-4021	33（3.1）	750（2.8）	99.3	99.5	28
	SW-2521	13（1.2）	270（1.0）	99.3	99.5	28

Test Conditions：32000ppm NaCl，25°C（77°F），800psi（55.2bar），pH=8，Recovery 4%
Permeate flows for individual elements may vary ±15%.

PRODUCT DIMENSIONS

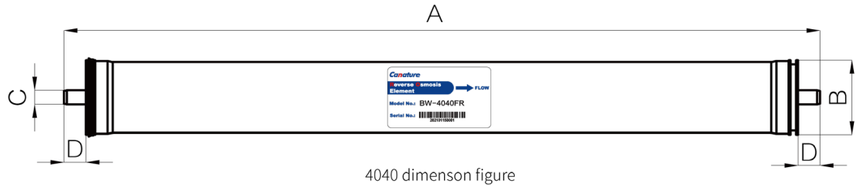
8040 Membrane



8040 dimenson figure

Product Model		A	B	C
Domestic Series & Imported Series	BW-8040FR	40"(1016mm)	7.9"(200mm)	1.125"(28.6mm)
	BW-8040LP	40"(1016mm)	7.9"(200mm)	1.125"(28.6mm)
	BW-8040ULP	40"(1016mm)	7.9"(200mm)	1.125"(28.6mm)
	BW-8040XLP	40"(1016mm)	7.9"(200mm)	1.125"(28.6mm)
	SW-8040	40"(1016mm)	7.9"(200mm)	1.125"(28.6mm)

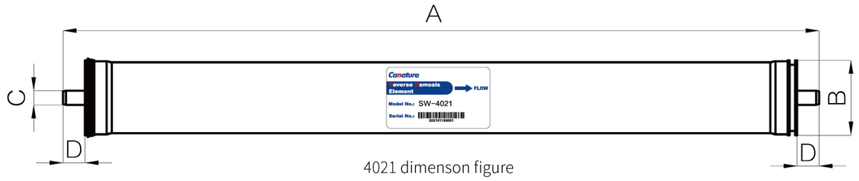
4040,2540 Membrane



4040 dimenson figure

Product Model		A	B	C	D
Domestic Series & Imported Series	BW-4040FR	40"(1016mm)	3.9"(100mm)	0.75"(19mm)	1.16"(29.5mm)
	BW-4040LP	40"(1016mm)	3.9"(100mm)	0.75"(19mm)	1.16"(29.5mm)
	BW-4040ULP	40"(1016mm)	3.9"(100mm)	0.75"(19mm)	1.16"(29.5mm)
	BW-4040XLP	40"(1016mm)	3.9"(100mm)	0.75"(19mm)	1.16"(29.5mm)
	BW-4040	40"(1016mm)	3.9"(100mm)	0.75"(19mm)	1.16"(29.5mm)
	BW-2540	40"(1016mm)	2.4"(61mm)	0.75"(19mm)	1.16"(29.5mm)

4021,2521 Membrane



4021 dimenson figure

Product Model		A	B	C	D
Domestic Series & Imported Series	SW-4021	21"(533.4mm)	3.9"(100mm)	0.75"(19mm)	1.16"(29.5mm)
	SW-2521	21"(533.4mm)	2.4"(61mm)	0.75"(19mm)	1.16"(29.5mm)

Operating Specifications For BW Elements

Max. Applied pressure	BW:600 psi (4.14MPa)
Max. Operating temperature	45 °C
Max. Feed flow	8040:75gpm(17m³/h) 4040:16gpm(3.6m³/h)
Max. Feed water SDI_{15}	5.0
Max. Chlorine concentration	0.1mg/L
pH Range, Continuous	2-11
pH Range, Cleaning	1-13
Max. Pressure drop (ΔP) for each element	15psi(0.1Mpa)

BW

Operating Specifications For SW Elements

Max. Applied pressure	SW:1200 psi (8.28MPa)
Max. Operating temperature	45 °C
Max. Feed flow	8040:75gpm(17m³/h) 4040/4021:16gpm(3.6m³/h) 2521/2540:6gpm(1.4m³/h)
Max. Feed water SDI_{15}	5.0
Max. Chlorine concentration	0.1mg/L
pH Range, Continuous	2-11
pH Range, Cleaning	1-13
Max. Pressure drop (ΔP) for each element	15psi(0.1Mpa)

SW

CERTIFICATION

NSF International
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RECOGNIZES

Canature Health Technology Group Co., Ltd.
Facility: Shanghai, China

AS COMPLYING WITH NSF/ANSI 44, 58, NSF/ANSI/CAN 61 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE AUTHORIZED TO BEAR THE NSF MARK.

ANSI ACCREDITED ISO/IEC 17065 Product Certification Body #0216

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in NSF's Official Listings for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

June 20, 2022
Certificate# C0001713 - 03

David Purkiss
Vice President, Global Water Division

NSF certification

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