

Product Catalogue

A professional Membrane Manufacturer dedicating in customized solutions



About us

Zhejiang E-MEM New Material Technology Co., Ltd is a technology-oriented enterprise specializing in the R&D, manufacture and sales of membrane products. With the contribution of the first class Ph.D. led R&D team, advanced membrane production & spiral wound equipment and the leading manufacturer technology, the company has reached to outstanding level both domestically and internationally.

The company is located in the Yangtze River Delta Industrial Cooperation Zone in Huzhou, Zhejiang. The production base is covering 77,000 m² footprint with annual production capacity of 10 million square meters of high-end desalination membrane materials such as seawater desalination Reverse Osmosis Membranes (RO) and Nanofiltration Membranes (NF), as well as 5 million square meters of Ultrafiltration Membranes (UF), MBR membranes, and other water treatment membrane materials.

The company has a full range of membrane products, including Residential Reverse Osmosis Membranes, high-end Industrial Reverse Osmosis Membranes (RO), Nanofiltration Membranes (NF), Pressurized-type Ultrafiltration Membranes (UF), Submerged Ultrafiltration membranes (TXP) and Membrane Bioreactors (MBR). Currently, E-MEM[®] membrane products are widely used in the residential, power, petroleum, chemical, municipal, and environmental protection fields, playing a vital role in seawater desalination, boiler feed water, drinking pure water production, domestic sewage, industrial wastewater zero discharge, and special separation processes in industries such as biomedicine, semiconductors, and lithium batteries.

The company has established a complete quality assurance system and certified with ISO9001 and ISO14001 certifications, obtained drinking water hygiene safety certification granted by the Zhejiang Provincial Health Commission and certification from the US National Sanitation Foundation (NSF). In addition, it has been awarded honors such as the 'Big and High' Industrial Project in Huzhou City and a major scientific research project enterprise in Changxing County. Furthermore, the "Development and Application of High-Selectivity Seawater Desalination Membrane" was awarded the 2022 Provincial Major "Leading Goose" R&D Project Plan by the Zhejiang Provincial Department of Science and Technology.

E-MEM always adheres to the concept of "Different Water, Different Membranes" for customized services, providing full-chain environmental one-stop services with the professional membrane treatment technology.

We look forward to working with you to achieve a win-win future!



E-MEM Headquarter Production Base



E-MEM Huzhou Production Base

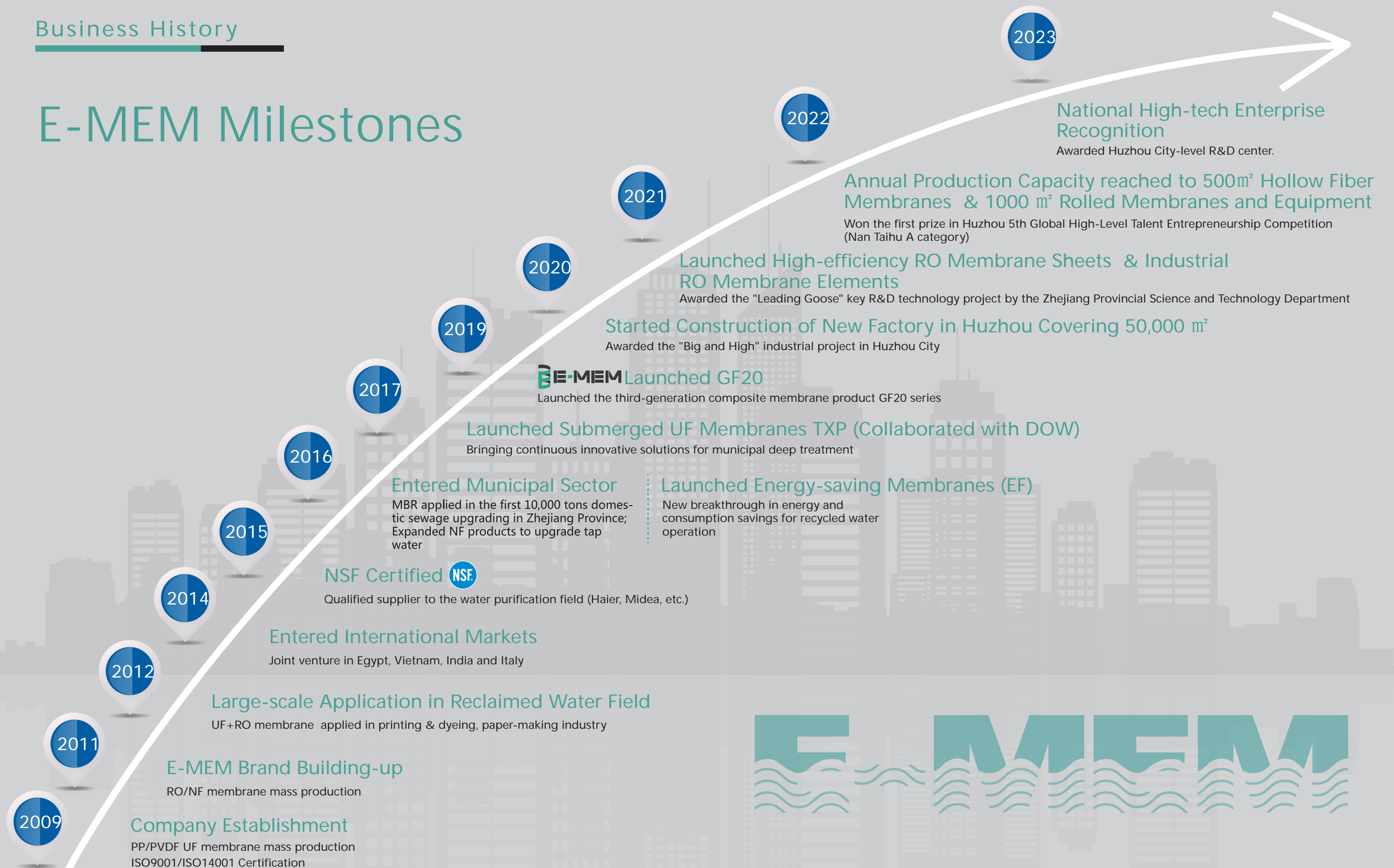


E-MEM Huzhou Office Building

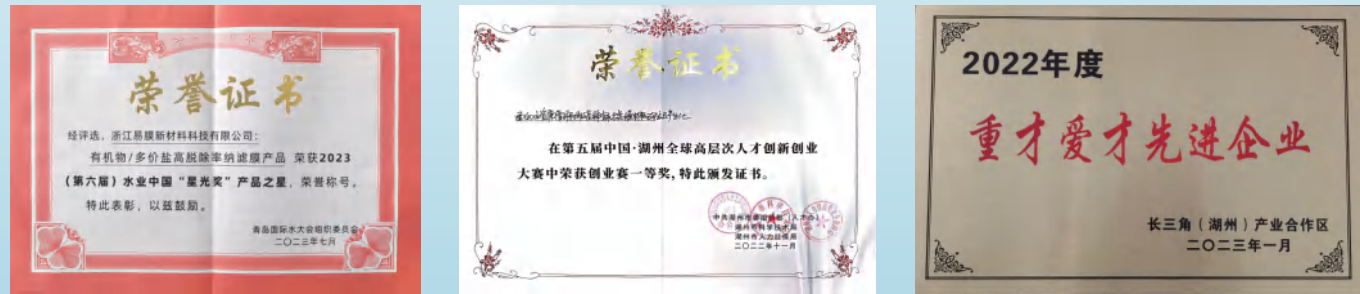


E-MEM Huzhou Production Plant

E-MEM Milestones



HONOR QUALIFICATION



E-MEM®
Membrane Products

- Part 1 Residential RO Membrane Element
- Part 2 Industrial RO Membrane Element
- Part 3 Industrial NF Membrane Element
- Part 4 Pressurized UF Membrane Element
- Part 5 Submerged UF Membrane Element –TXP Series
- Part 6 Hollow Fibre MBR Element
- Part 7 Seawater Desalination RO Membrane Element

Part 1 Residential RO Membrane Element

1.1 Performance Parameters

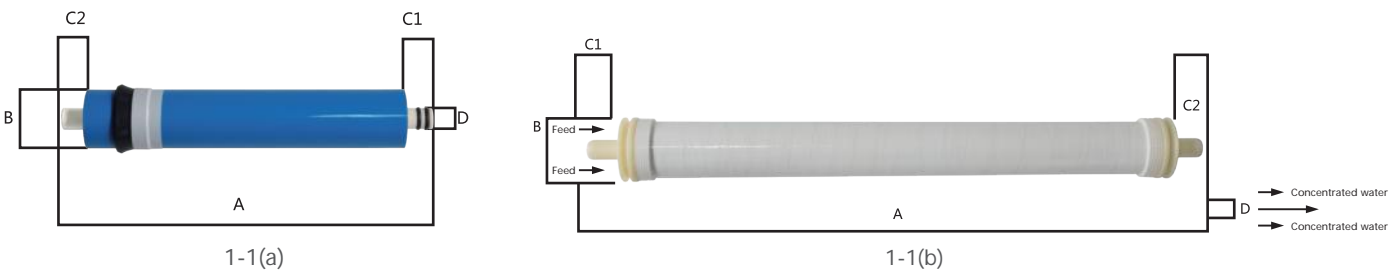
E-MEM® Residential RO Element Performance Parameters Table

Model No.	Permeate Flow ±20% GPD(m³/d)	Stabilized Salt Rejection (%)	Active Membrane Area ft²(m²)	Testing Pressure psi (MPa)	Feed Solution Composition
EM-RO-1812-75	75(0.28)	97.5	4.4 (0.41)	70(0.48)	250ppmNaCl
EM-RO-1812-80	80(0.30)	97.5	5.0 (0.47)	70(0.48)	250ppmNaCl
EM-RO-2012-150	150(0.57)	97.0	6.6 (0.62)	70(0.48)	250ppmNaCl
EM-RO-2012-180	180(0.68)	97.0	7.8 (0.72)	70(0.48)	250ppmNaCl
EM-RO-3012-300	300(1.14)	97.5	15.4(1.43)	90(0.62)	250ppmNaCl
EM-RO-3012-400	400(1.51)	97.5	17.6(1.63)	90(0.62)	250ppmNaCl
EM-RO-2521-ULP	300(1.14)	99.0	14.0(1.30)	150(1.03)	1000ppmNaCl
EM-RO-2540-ULP	750(2.84)	99.0	30.0(2.80)	150(1.03)	1000ppmNaCl
EM-RO-4021-ULP	950(3.61)	99.0	35.5(3.30)	150(1.03)	1000ppmNaCl
Other Testing Conditions					
Temperature (°C)		25.0 ± 1.0			
Feed Water pH		7.5 ±0.5			
Recovery Rate(%)		8% ± 1.0 (EM-RO-2 521-ULP & EM-RO-4021-ULP), the rest is 15.0% ±			
Form		Dry Membrane Elements & Wet Membrane Elements			

*The membrane sizes can be customized to meet different requirement



E-MEM® Residential RO Membrane Element Diagram



1.2 Specifications & Dimensions

E-MEM® Residential RO Membrane Element Specifications & Dimensions Table

Model No.	A(±2.0mm)	B(±1.0mm)	C 1 (±1.0mm)	C2(±1.0mm)	D(±0.1mm)	Diagram
EM-RO-1812-75	298	44.5	22.0	22.0	17.0	1-1(a)
EM-RO-1812-80	298	44.5	22.0	38.0	17.0	1-1(a)
EM-RO-2012-150	298	48.0	22.0	22.0	17.0	1-1(a)
EM-RO-2012-180	298	48.0	22.0	22.0	17.0	1-1(a)
EM-RO-3012-300	298	76.0	22.0	12.0	17.0	1-1(a)
EM-RO-3012-400	298	76.0	22.0	12.0	17.0	1-1(a)
EM-RO-2521-ULP	533	61.0	30.2	30.2	19.1(outer)	1-1(b)
EM-RO-2540-ULP	1016	61.0	30.2	30.2	19.1(outer)	1-1(b)
EM-RO-4021-ULP	533	100.0	26.7	26.7	19.1(outer)	1-1(b)

Part 2 Industrial RO Membrane Element

2.1 Performance Parameters

E-MEM® Industrial RO Membrane Performance Parameters Table

Model No.	Permeate Flow ±20% GPD(m³/d)	Stabilized Salt Rejection (%)	Active Membrane Area ft²(m²)	Testing Pressure psi (MPa)	Feed Solution Composition
BW-4040	2400(9.1)	99.5	90.4(8.4)	225(1.55)	2000ppmNaCl
BW-400	10500(39.7)	99.5	400(37.0)	225(1.55)	2000ppmNaCl
LE-4040	2400(9.1)	99.0	90.4(8.4)	150(1.03)	1000ppmNaCl
LE-400	10500(39.7)	99.0	400(37.0)	150(1.03)	1000ppmNaCl
BW-400FR	10500(39.7)	99.5	400(37.0)	225(1.55)	2000ppmNaCl
XLP-4040	2400(9.1)	98.0	90.4(8.4)	100(0.69)	500ppmNaCl
XLP-8040	9500(36.1)	98.0	400(37.0)	100(0.69)	500ppmNaCl

Other Testing Conditions

Temperature (°C)	25.0±1.0
Feed Water pH	7.5±0.5
Recovery Rate(%)	15.0±1.0
Form	Dry Membrane Elements & Wet Membrane Elements



2.2 Specifications & Dimensions

E-MEM® Industrial RO Membrane Element Specifications & Dimensions Table

Model No.	A(±2.0mm)	B(±1.0mm)	C(±0.1mm)	D(±0.1 mm)	Diagram
BW-4040	1016	100	19.1 (outer)	26.7	2-1(a)
LE-4040	1016	100	19.1 (outer)	26.7	2-1(a)
XLP-4040	1016	100	19.1 (outer)	26.7	2-1(a)
BW-400	1016	200	28.6		2-1(b)
LE-400	1016	200	28.6		2-1(b)
BW-400FR	1016	200	28.6		2-1(b)
XLP-8040	1016	200	28.6		2-1(b)

E-MEM® Industrial 4040 Membrane Element Dimension Diagram



E-MEM® Industrial 8040 Membrane Element Dimension Diagram



Part 3 Industrial NF Membrane Element

3.1 Performance Parameters

E-MEM® Industrial NF Membrane Element Performance Parameters Table

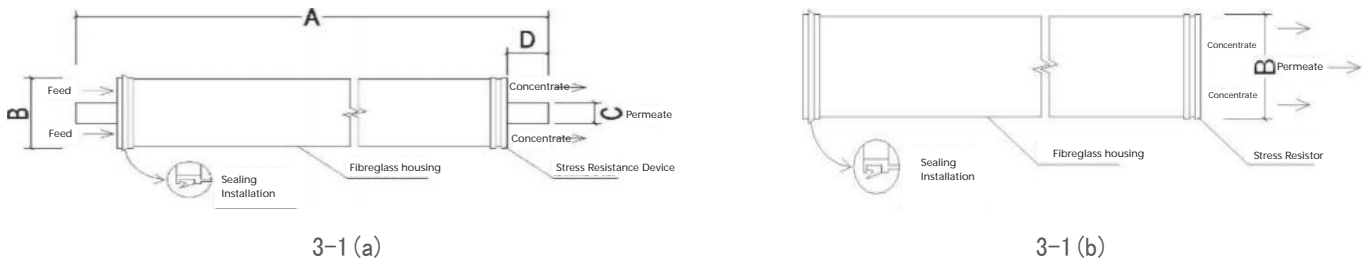
Model No.	FLux Flow ±20% GPD(m³/d)	Stabilized Salt Rejection (%)	Active Membrane Area ft²(m²)	Testing Pressure psi (MPa)	Feed Solution Composition
EM-NF-4040-R40-HR	2100(7.9)	98	90.4(8.4)	70(0.48)	2000ppmMgSO ₄
EM-NF-4040-R40-HF	2700(10.2)	97	90.4(8.4)	70(0.48)	2000ppmMgSO ₄
EM-NF-8040-R40-HR400	9245(35)	98	400(37.0)	70(0.48)	2000ppmMgSO ₄
EM-NF-8040-R40-HF400	11880(45)	97	400(37.0)	70(0.48)	2000ppmMgSO ₄
Other Testing Conditions					
Temperature (°C)	Feed Water pH	Recovery Rate(%)	Form		
25.0 ± 1.0	7.5 ±0.5	15.0±1.0	Dry Membrane Elements & Wet Membrane Elements		

3.2 Specifications & Dimensions

E-MEM® Industrial NF Membrane Element Specifications & Dimensions Table

Model No.	A(±2.0mm)	B(±1.0mm)	C(±0.1mm)	D(±0.1mm)	Diagram
EM-NF-4040-R40-HR	1016	100	19.1(outer)	26.7	3-1(a)
EM-NF-4040-R40-HF	1016	100	19.1(outer)	26.7	3-1(a)
EM-NF-8040-R40-HR400	1016	200	28.6		3-1(b)
EM-NF-8040-R40-HF400	1016	200	28.6		3-1(b)

Industrial NF Membrane Element Dimension Diagram



Part 4 Pressurized UF Membrane Element

4.1 Overview

E-MEM Ultrafiltration Membrane (UF) applies patented hydrophilic modification technology and spinning process, providing customers with high-quality and reliable UF membrane products through high-standard and advanced production processes. E-MEM hollow fiber membranes feature excellent strength, uniform pore structure, low permeation resistance, and superior chemical corrosion resistance and anti-fouling capability.

Robustness & High Flow

- Patented spinning process and reinforced structure achieve a single-fiber breaking strength over 110N and a pressure resistance strength up to 0.6MPa
- The interpenetrating network structure reduces internal filtration resistance, and the uniform pore size distribution effectively ensures the filtration precision of the membrane

Durability & Anti-fouling Capability

- Made of PVDF membrane material; exhibits excellent resistance to chemical cleaning agents
- Hydrophilic modification ensures stable flow during wastewater operation and good recoverability

Pressurized UF Membrane Element Features



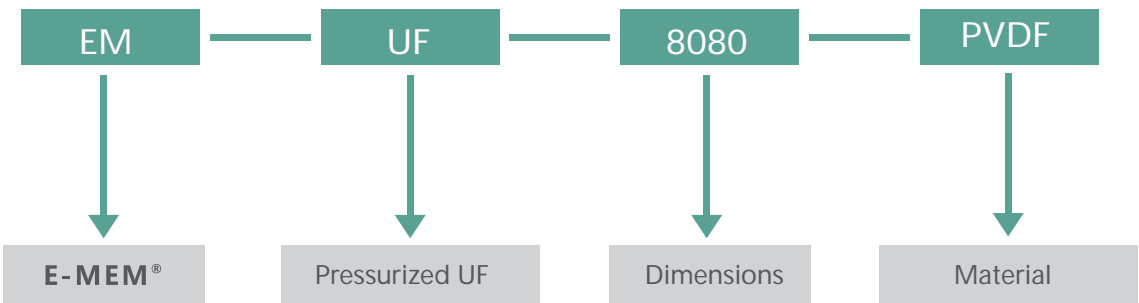
Highlights

- Able to withstand prolonged strong acid & alkali cleaning
- High membrane fiber strength, better adaption to harsh operating environments and stringent cleaning conditions
- High permeate flow
- Stable permeate water quality
- Large contaminant holding capacity, easy to clean, enhancing practical applicability
- Uniform membrane pore size for higher separation precision

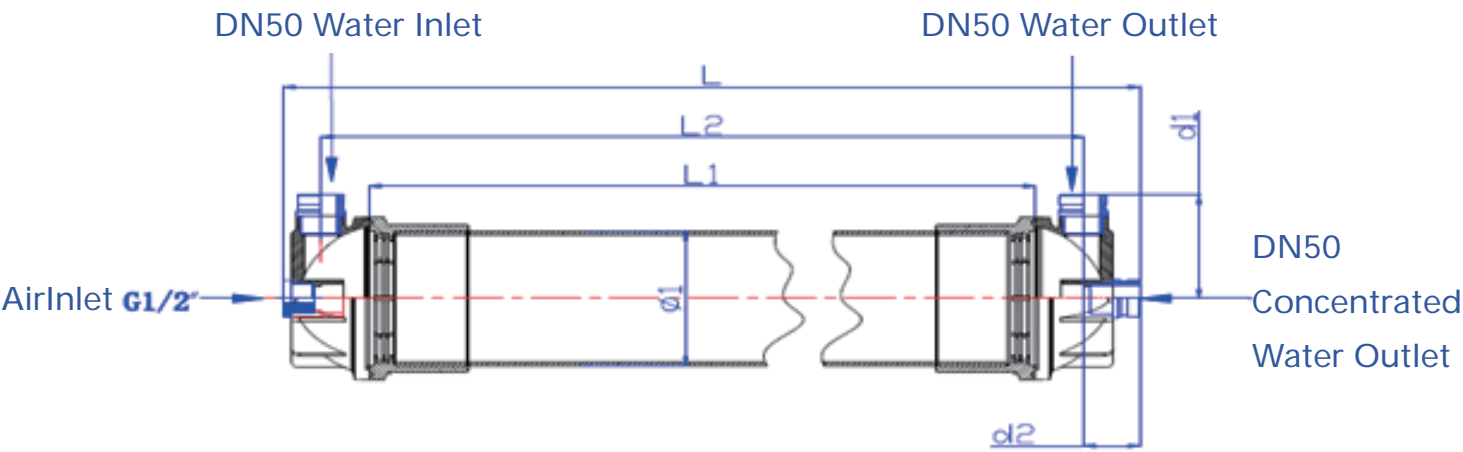
Pressurized UF Membrane Element Structural Design Features

- High membrane packing density
- No need for additional support materials
- Negligible concentration polarization
- Better economic efficiency
- Suitable for various industrial applications, especially large-scale applications
- Effectively reducing footprint and component costs, facilitate more economical membrane system designs

Pressurized UF Membrane Element Nomenclature



E-MEM® Pressurized UF Membrane Element Dimension Diagram



4.2 Pressurized UF Membrane Dimensions

E-MEM® Pressurized UF Membrane Element Dimension Table - UF Series

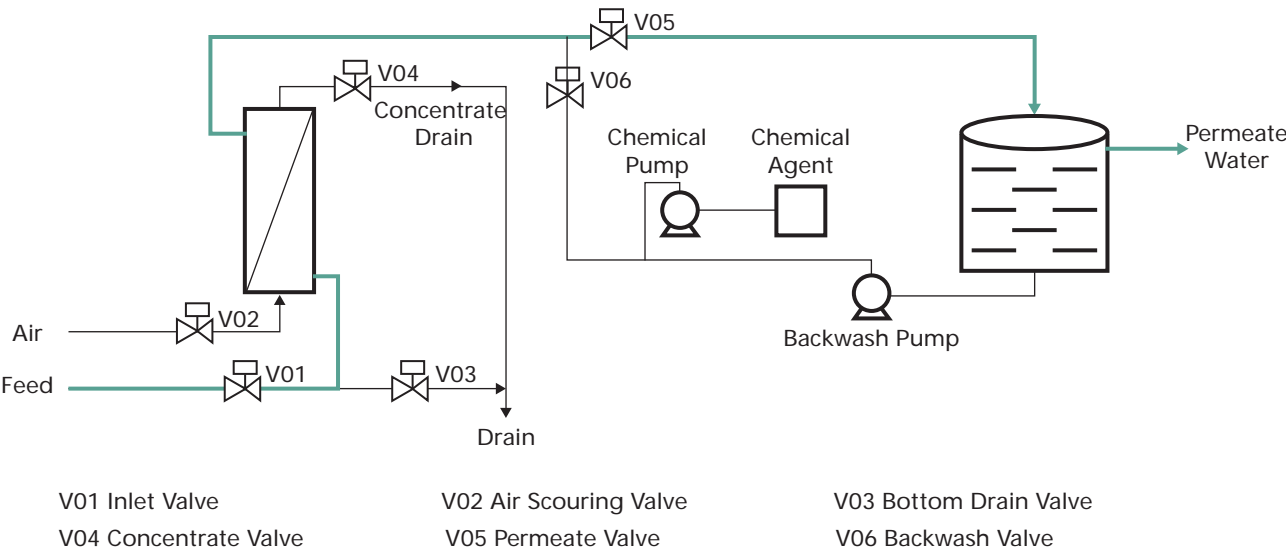
Model No.	L(mm)	L1(mm)	L2(mm)	d1(mm)	d2(mm)	Dia.Φ1 (mm)
EM-UF-8060-PVDF	1742.5±1.0	1496±1.0	1622±1.0	172.5±1.0	73±1.0	225±1.0
EM-UF-8080-PVDF	2242.5±1.0	1996±1.0	2122±1.0	172.5±1.0	73±1.0	225±1.0

4.3 Pressurized UF Membrane Element Specifications

E-MEM® Pressurized UF Membrane Element Spec Table

① Membrane Fiber			
Membrane Material	PVDF	Type	External Pressure Hollow Fiber
Fiber Inner/Outer Φ	0.7/1.4mm	Nominal Pore Size	0.02 μm
Tensile Strength	>110N		
② Element Parameter			
Casing Material	UPVC	Caps Material	UPVC
Clamp Material	304 Stainless Steel	Sealing Ring Material	EPDM
Connection Type	Coupling Connection	End Encapsulation Material	Epoxy Resin/Polyurethane
Model No.	EM-UF-8060-PVDF	EM-UF-8080-PVDF	
Element Area	55m ²		75m ²
Weight(wet)	40kg		50kg
③ Working Conditions			
Operation Mode	Crossflow or Dead-End	Operation Temperature	5-45℃
Max.Inlet Pressure	<3 bar	Operation PH Range	2-11
Max. Trans-Membrane Pressure	<2 bar	Max.Inlet Particle Size	300μm
Max. Backwash Pressure	≤1.5 bar	Max.NaClO Tolerance	2000mg/L
Feed Oil Content	< 3mg/l		
④ Permeate Water Quality			
Water Turbidity	≤0.15 NTU	Water SDI	≤3

Pressurized UF Membrane Element Standard Process Flow



E-MEM® Pressurized UF Membrane Element Design Guideline

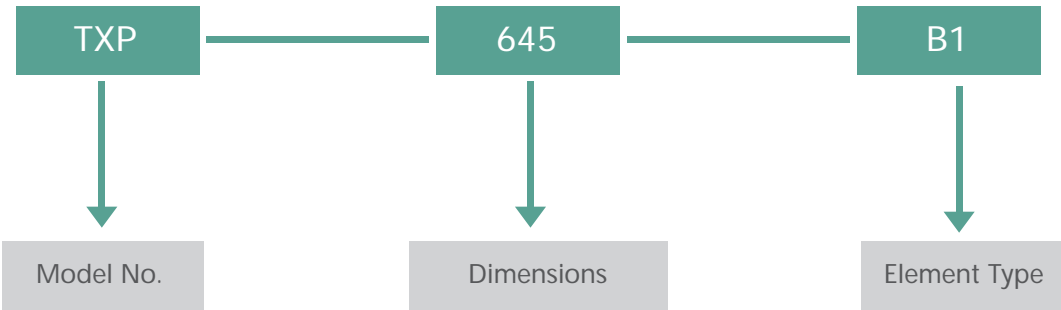
Flux Design Guideline			
Feed Water	Inlet Turbidity(NTU)	Inlet Condition COD(mg/	Flux(L/m ².hr)
Underground Water	< 1	< 5	50-60
Tap Water	< 1	< 5	50-60
Surface Water	1-3	< 5	40-50
Sea Water	< 5	< 5	40-60
Municipal Sewage	< 5	< 50	35-45
Dyeing,Printing & Paper-making	< 5	60-200	25-35
Petrochemical	< 5	< 100	30-40
Other Industrial Wastewater	< 5	< 50	30-40

Part 5 Submerged UF Membrane– TXP Series

5.1 Overview

The submerged membrane filtration system utilizes open external pressure ultrafiltration membrane elements, completely submerged in the membrane tank. Water production is achieved through a combination of liquid level pressure difference and negative pressure suction by suction pumps, replacing traditional processes such as coagulation, sedimentation, and filtration. The system is widely used in areas such as drinking water safety, upgrading sewage treatment plants, river remediation, reclaimed water resources, industrial water reuse, and seawater desalination.

Submerged UF TXP Series Nomenclature



Model Named with Element Diameter in inch & Membrane Area in Square Meter

TXP Submerged Type

645 Element Dimensions: Diameter 6 inch, Area 45 m²

TXP series element model : A for 1st Generation , B for 2nd Generation ; Arabic numerals for membrane fiber outer diameter and type , No Arabic numerals means homogeneous membrane with 1.3mm outer diameter, 1 for composite membrane with 1.6mm outer diameter , 2 for composite membrane with 2mm outer diameter

Flux Design Guideline

Feed Water	Turbidity (NTU)	COD(mg/L)	Flux(L/m ² .hr)
Underground Water	< 1	< 5	30-35
Tap Water	< 1	< 5	30-35
Surface Water	1~3	< 5	25-35
Municipal Sewage	< 5	< 50	20-30
Industrial Wastewater	< 5	60~200	18-25

Highlights

Higher operational efficiency with lower costs

- Improves reuse rates, reducing wastewater discharge by up to 30%
- Reduces pressure reducing energy consumption by up to 35%
- Reduces cleaning frequency and chemical costs

Higher permeate efficiency with lower investment

- Large permeate flux with up to 40% increase at same pressure
- Higher permeate efficiency with less UF membrane element
- Permeate efficiency with up to 120% increase same footprint
- Less maintenance & cleaning shutdown to ensure service time



AType BType

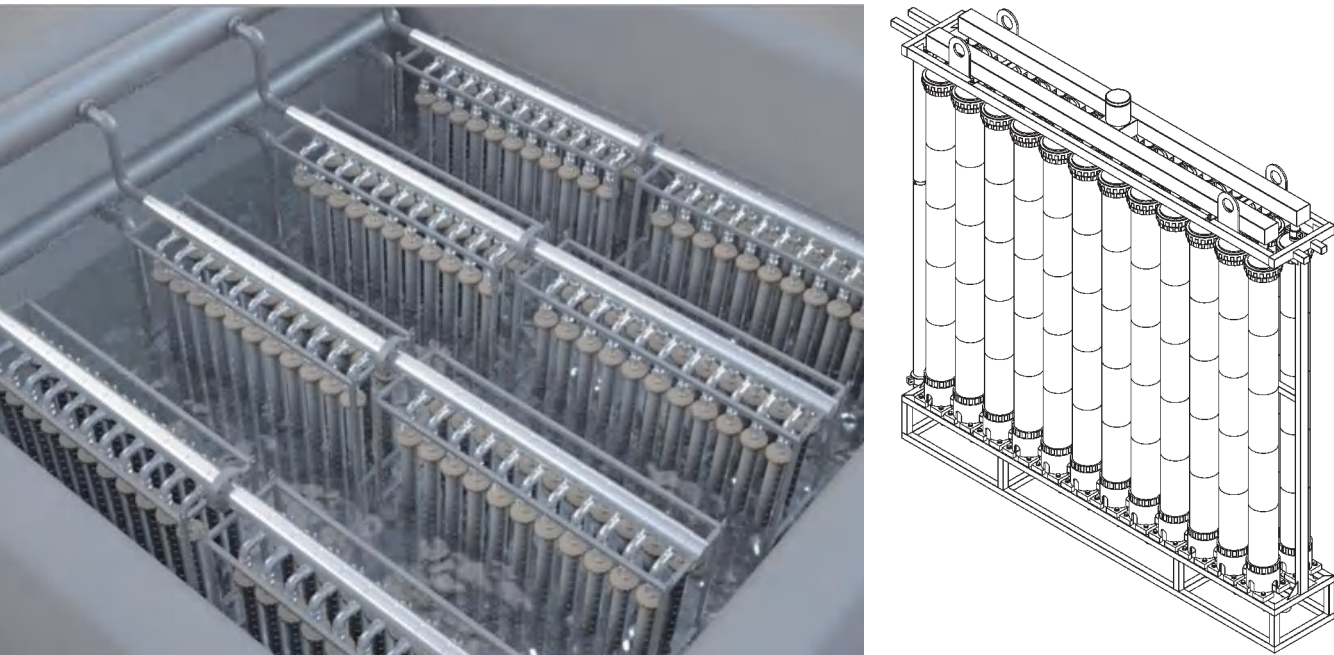
5.2 Submerged UF Membrane Element - TXP Specifications

E-MEM® Submerged UF Membrane Element TXP Series Spec Table

TXP Series Membrane Element			
Model No.	TXP-645-A	TXP-645-B1	TXP-645-B2
Membrane Fiber			
Membrane Material	PVDF		
Membrane Fiber Quantity	5800	4720	3780
Active Membrane Surface Area (m²)	45		
Membrane Fiber Performance			
Inner/outer Diameter (mm)	0.7/1.3	0.7/1.4	1.1/2.0
Pore Size (μm)	0.03	0.02	0.02
Tensile Strength (N)	≥5	≥110	≥150
Working Conditions			
Max. Suction Filtration Pressure (kPa)	-80		
Max. Across Pressure Differential(kPa)	150		
Operation Temperature (°C)	5-45		
Operation pH Range	2—11		
Recommended pH Range	6—9		
Component Specification			
Caps Material	UPVC		
Adhesive	Epoxy Resin		
Sealing Ring	EPDM		
Element Dimensions (mm)	φ160×2168L		
Dry Element Weight (kg)	15	18	20
Element Weight after Draining (kg)	25	28	30
Preservative Solution	Glycerol aqueous solution		

Submerged UF Membrane Element TXP Rack Specification				
Model No.	TXP-645-B 0210	TXP-645-B 0216	TXP-645-B 0220	TXP-645-B 0224
Treatment Capacity (m 3/d)	380~540	600~860	750~1100	900~1300
Dimensions L×W×H (mm)	1570*450*2800	2230*450*2800	2670*450*2900	3200*450*2900
Dry Weight (kg)	350	550	700	850
Wet Weight (kg)	450	650	800	950
Permeate Pipe Connection	DN80	DN100	DN125	DN125
Air Scouring Pipe Connection	DN50	DN65	DN65	DN65
Metal Hose	Coupling at 2 ends	Coupling at 2 ends	Coupling at 2 ends	Coupling at 2 ends

E-MEM® Submerged UF Membrane Element TXP Rack Diagram



Part 6 Hollow Fiber Membrane Bioreactor (MBR)

6.1 Overview

E-MEM MBR uses patented composite spinning technology to uniformly coat the support tube surface with a PVDF separation layer. By using hydrophilic modified PVDF membrane material and advanced spinning process control, specialized MBR hollow fiber composite membranes are produced with high flux, high separation precision, and excellent anti-fouling performance.

Efficient Solid-Liquid Separation & High Retention

- Better separation performance comparing to traditional sedimentation tanks
- Complete separate Reactor Hydraulic Retention Time & Sludge Retention Time

Higher Treatment Efficiency & Less Sludge

- Denitrification and Phosphorus Removal is available by changing operation mode
- Improves the degradation efficiency of refractory organic substances
- Theoretically achieves zero sludge discharge
- Reduces land occupation & saves construction investment

Hollow Fiber Membrane Bioreactor (MBR) Features



Highlights

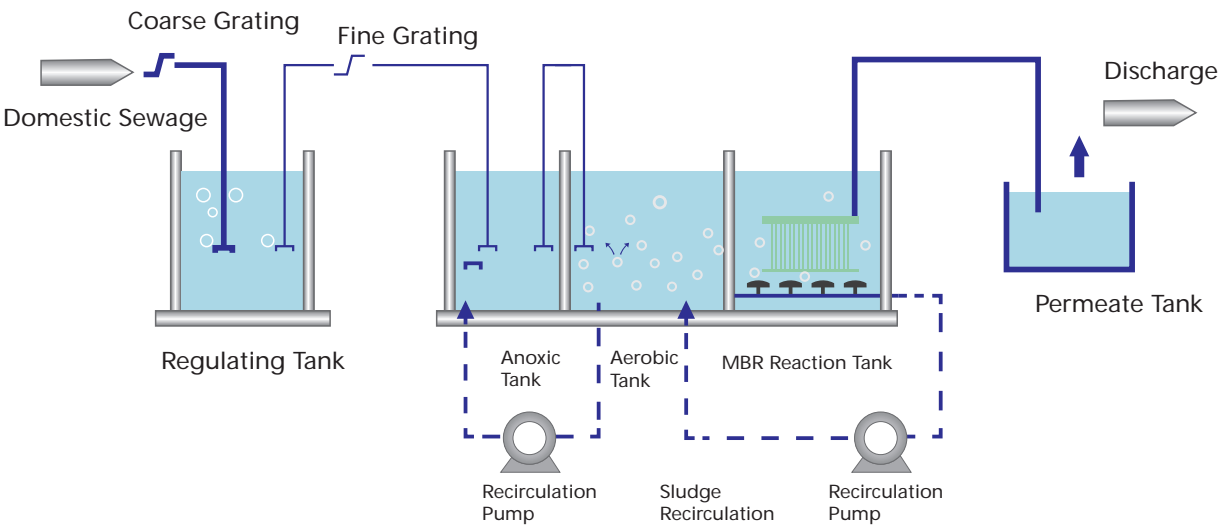
- PVDF material provides excellent chemical resistance and long service life
- Perfect pore structure and uniform pore size provides excellent separation performance
- Membrane fiber tensile strength over 150N and burst pressure exceeding 0.45MPa

Hollow Fiber Membrane Bioreactor (MBR) Structure Design Features



- Compact structure reducing footprint, simple mounting for easier application
- Energy-saving design with self developed aeration System for better cleaning
- Anti-corrosion & anti-rust 316 stainless steel frame
- Various product options for different requirement

E-MEM® Hollow Fiber Membrane Bioreactor (MBR) Element Standard Process Flow

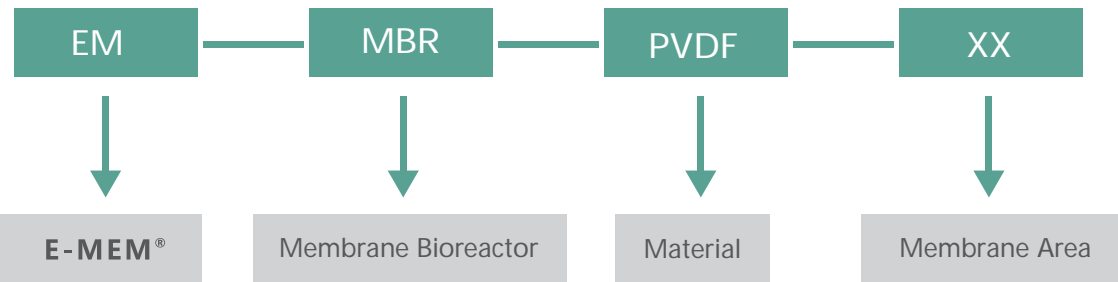


6.2 Hollow Fiber Membrane Bioreactor (MBR) Element Design Guideline

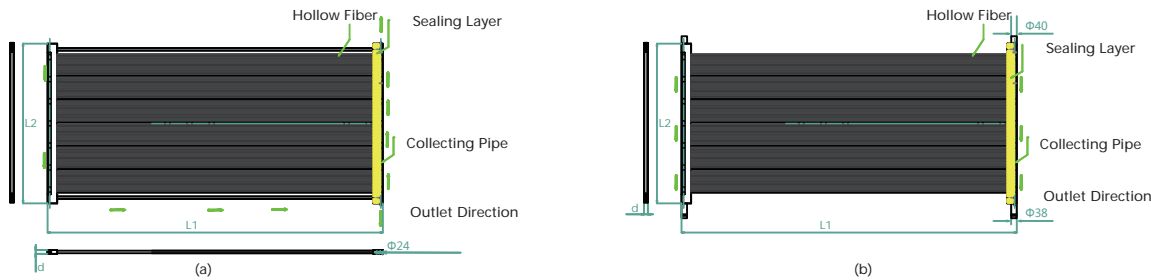
E-MEM® Hollow Fiber Membrane Bioreactor Element Design Guideline

Wastewater Type	Recommended Flux L/ m²·hr
Municipal Sewage	15-20
Dyeing, printing, & medical wastewater	8-14
General Industrial Wastewater	10-15
Municipal Integration Wastewater	12-15

Hollow Fiber Membrane Bioreactor (MBR) Nomenclature



Hollow Fiber Membrane Bioreactor (MBR) Dimensions



Model No.	L 1(mm)	L 2(mm)	d (mm)	Diagram
EM-MBR-PVDF-15	1000±2.0	1250±1.0	30±0.2	(a)
EM-MBR-PVDF-20	1200±2.0	1250±1.0	30±0.2	(a)
EM-MBR-PVDF-30	2000±2.0	1250±1.0	30±0.2	(a)
EM-MBR-PVDF-35	2400±2.0	1250±1.0	30±0.2	(a)
EM-MBR-PVDF-20A	1200±2.0	840±1.0	50±0.2	(b)
EM-MBR-PVDF-35A	2000±2.0	840±1.0	50±0.2	(b)
EM-MBR-PVDF-40A	2400±2.0	840±1.0	50±0.2	(b)

E-MEM® Hollow Fiber Membrane Bioreactor (MBR) Element Spec Table

Model No.	Treatment Capacity m³/d	Dimensions L×W×H (mm)	Weight (kg)		Connection		
			Dry	Wet	Permeate Pipe	Air Scouring Pipe	Metal Hose
EM-MBR-2020L	≥120	1550*1560*2000mm	500	600	DN50	DN65	4-hole flange & coupling at each side
EM-MBR-2030L	≥180	2000*1560*2000mm	650	800	DN50	DN65	4-hole flange & coupling at each side
EM-MBR-3040L	≥360	2500*1560*2800mm	1200	1400	DN80	DN100	4-hole flange & coupling at each side
EM-MBR-3050L	≥450	3000*1600*2900mm	1500	1800	DN100	DN100	8-hole flange & coupling at each side
EM-MBR-3540L	≥420	2500*1600*3200mm	1500	1700	DN80	DN100	4-hole flange & coupling at each side
EM-MBR-20A30L	≥180	1690*1900*2310mm	650	800	DN50	DN65	4-hole flange & coupling at each side
EM-MBR-20A40L	≥240	2040*1900*2310mm	850	1100	DN65	DN80	4-hole flange & coupling at each side
EM-MBR-35A30L	≥370	1690*1900*3110mm	1100	1300	DN80	DN65	4-hole flange & coupling at each side
EM-MBR-35A40L	≥420	2040*1900*3110mm	1500	1700	DN100	DN80	4-hole flange & coupling at each side
EM-MBR-40A40L	≥480	2040*1900*3510mm	1600	2000	DN100	DN100	4-hole flange & coupling at each side

6.3 Hollow Fiber Membrane Bioreactor (MBR) Element Specification

E-MEM® Hollow Fiber Membrane Bioreactor (MBR) Element Spec Table

① Membrane Fiber					
Membrane Material		PVDF/PET support tube		Membrane Type	Hollow Fiber
Membrane Fiber Inner/outer Diameter		1.1/2.0mm		Fiber Pore	0.1um
Tensile Strength		>150N		Bursting Strength	>0.45MPa
② Element Parameter					
Model No.	EM-MBR-PVDF-15		EM-MBR-PVDF-20	EM-MBR-PVDF-30	EM-MBR-PVDF-35
Active Area m²	15		20	30	35
Element Dimensions	1250×30×1000		1250×30×1200	1250×30×2000	1250×30×2400
Water Collection	Single Ended		Dual Ended	Dual Ended	Dual Ended
Casing Material	ABS		Encapsulation Material	Epoxy resin /polyurethane	
Collection Pipe	φ24		Supporting Tube Material	SUS316	
Model No.	EM-MBR-PVDF-20A		EM-MBR-PVDF-35A	EM-MBR-PVDF-40A	
Active Area m²	20		35	40	
Element Dimensions	840×50×1200		840×50×2000	840×50×2500	
Water Collection	Dual Ended		Dual Ended	Dual Ended	
Casing/Cap Material	ABS		Encapsulation Material	Epoxy resin /polyurethane	
Collection Pipe	φ40				
③ Working Conditions					
Operation mode	Submerged suction filtration		Operation Temperature		5-45° C
Operation Pressure	-5~-30KPa		Operation pH Range		2-11
Max.trans-membrane pressure differential	-50KPa		Filter Cycle		Depends on water quality
④ Permeate Water Quality					
Permeate Turbidity	≤0.5NTU		产水SDI ₁₅		≤5
Permeate Suspended Solids			≤1mg/L		

Part 7 Seawater Desalination (SW) Series

7.1 Performance Parameters

- High pressure 5.52Mpa
- Durability
- High Rejection
- Application: Seawater desalination, zero discharge of high-salinity wastewater, etc.

E-MEM® Seawater Desalination RO Membrane Element Performance Table

Model No.	Permeate Flow GPD (m³/d)	Element Diameter Inch	Stable Rejection Rate%	Active Membrane Areaft² (m²)	Minimum Rejection Rate %	Inlet Grating Thickness mil
SW-400HR	7385(28.0)	8	99.80	400(37.0)	99.50%	28
SW-400LE	8440(32.0)	8	99.75	400(37.0)	99.50%	28
SW-400LE-34i	8440(32.0)	8	99.75	400(37.0)	99.50%	34

Note: The permeate flow in above table is average permeate flow of a single element, which may with error of ±15%.

Testing Conditions :

Feed pressure: 5.52MPa

Feed Temperature: 25°C

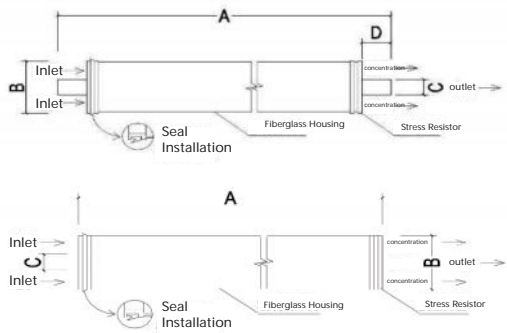
Feed Concentration: 32000mg/L NaCl

Recovery Rate: 8%

pH7.5±0.5

7.2 Specifications & Dimensions

Element Dimensions (mm)		
Length	4inch Type	8inch Type
A	1016	1016
B	100	200
C	19.1(outer)	28.6
D	26.7	/



Working Conditions		Unit	
Maximum operation pressure		MPa	6.9
Maximum feed temperature		°C	40
Maximum SDI15			5
Feed free chlorine concentration		ppm	<0.1
Feed pH	During continuous operation		3–10
	During chemical washing		2–12
Maximum pressure drop of single element		MPa	0.10
Maximum feed flux		GPM	75 (8inch)
			16 (4inch)

Notes :

- ①. The data and information provided by E-MEM in this catalog are derived from long-term experiments. We are confident that this data and information are accurate and reliable. Customers are requested to strictly follow the product's design, usage, and maintenance requirements and to retain relevant data records. E-MEM does not assume any responsibility for consequences arising from customers not using or maintaining the product according to the conditions provided in this catalog.
- ②. Shipment status: dry membrane elements do not contain a protective solution; Wet membrane elements are preserved using a 1.0% sodium bisulfite solution (with 10% propylene glycol antifreeze added in winter) and are vacuum packed.
- ③. Once wetted, dry membrane elements should always be kept moist. For wet membrane elements that are not used for an extended period, it is recommended to soak the elements in a protective solution containing 1.0% sodium bisulfite (food grade) prepared with RO permeate water to prevent microbial growth.
- ④. For the initial use of the membrane elements, it is recommended to first perform a low-pressure rinse for 15-25 minutes, followed by a high-pressure rinse for 60-90 minutes (with a permeate flow rate not less than 50% of the system's designed flow rate). The permeate and concentrate produced during the first hour of operation should be entirely discharged.
- ⑤. During storage and operation, the addition of any chemicals that could affect the membrane elements is prohibited. E-MEM will not assume any responsibility for any consequences arising from the use of such chemicals.

APPLICATION

A/Industrial Area



Project Name : A New Energy Technology Company in Hubei
Deploy Time : Year 2023
Model No. : EM-UF-8080-PVDF+RO+NF
Water Type : Industrial wastewater
Treatment Capacity : 300,000 T/Yr



Project Name : A Textile Technology Company in Shaoxing
Deploy Time : Year 2019
Model No. : EI-UF-9080-PVDF
Water Type : Dyeing and Printing Wastewater
Treatment Capacity : 14,000T/D



Project Name : Industrial water plant in Dafeng Development Zone
Deploy Time : December, 2017
Model No. : LE400FR
Water Type : Industrial Wastewater
Treatment Capacity : 8,000T/D



Project Name : A Petrochemical Company in Ningbo
Deploy Time : Year 2020
Model No. : BW-400FR
Water Type : Industrial Tap Water
Treatment Capacity : 21,600T/D

Municipal MBR AREA/B



Project Name : The third phase MBR system project at a wastewater treatment plant in Liangzhu, Hangzhou
Deploy Time : Year 2015
Model No. : MBR
Treatment Capacity : 30,000T/D



Project Name : Upgrade and Technological Transformation Project of a Electroplating Wastewater Resource Utilization Center
Deploy Time : Year 2020
Model No. : MBR
Treatment Capacity : 6,500T/D



Project Name : Emergency Treatment Design Project in Yixing City
Deploy Time : Year 2020
Model No. : MBR
Treatment Capacity : 15,000T/D

APPLICATION

B/Municipal MBR Area



Project Name : Water Purification Project in a Nanping, Fujian
Deploy Time : Year 2019
Model No. : MBR
Water Type : Domestic Sewage
Treatment Capacity : 25,000T/D



Project Name : A sewage treatment plant in Bozhou District
Deploy Time : Year 2019
Model No. : MBR
Water Type : Industrial Wastewater
Treatment Capacity : 4,000 T/D

Project Name : Pingshan River Basin Comprehensive Water
Environment Improvement Project
Deploy Time : Year 2018 Model No. : MBR
Water Type : Domestic Sewage Treatment Capacity : 68,000 T/D

Municipal MBR Area/B



Project Name : An emergency Pump Station Treatment Project in
Yuhang District
Deploy Time : Year 2018 Model No. : MBR
Water Type : Wastewater Treatment Capacity : 5,000T/D



Project Name : A water purification plant in Zhanjiang
Deploy Time : Year 2019
Model No. : MBR
Water Type : Domestic Sewage
Treatment Capacity : 50,000T/D



Project Name : A wastewater treatment plant in Chengdu, Sichuan
Deploy Time : Year 2017
Model No. : MBR
Water Type : Domestic Sewage
Treatment Capacity : 10,000 T/D

APPLICATION

C/Municipal TXP Area



Project Name : A water treatment plant in Yuhang District
Deploy Time : Year 2017
Model No. : Submerged UF Membrane - TXP
Treatment Capacity : 10,000m³/d

Municipal TXP Area/C



Project Name : A technical renovation project at a water plant in Yuhang District
Deploy Time : Year 2022
Model No. : EM-TXP645
Treatment Capacity : 139,000T/D

APPLICATION

D/Special Membrane Separation



Project Name : A water quality improvement project in Anhui
Replace time : March, 2015
Model No. : NF/8040-R85
Water Type : Underground Water
Treatment Capacity : 2,300 T/D



Project Name : Water Resource Utilization and Reuse Project in Shandong
Deploy Time : August,2015
Model No. : NF/8040-R85
Water Type : Blending of recycled water, wastewater & RO concentrate
Treatment Capacity : 2,000T/D

Project Name : Mother Liquid Recovery at a Pesticide Company
in Jiangsu
Deploy Time : Year 2019
Model No. : NF-8040
Treatment Capacity : 400T/D

Special Membrane Separation/D



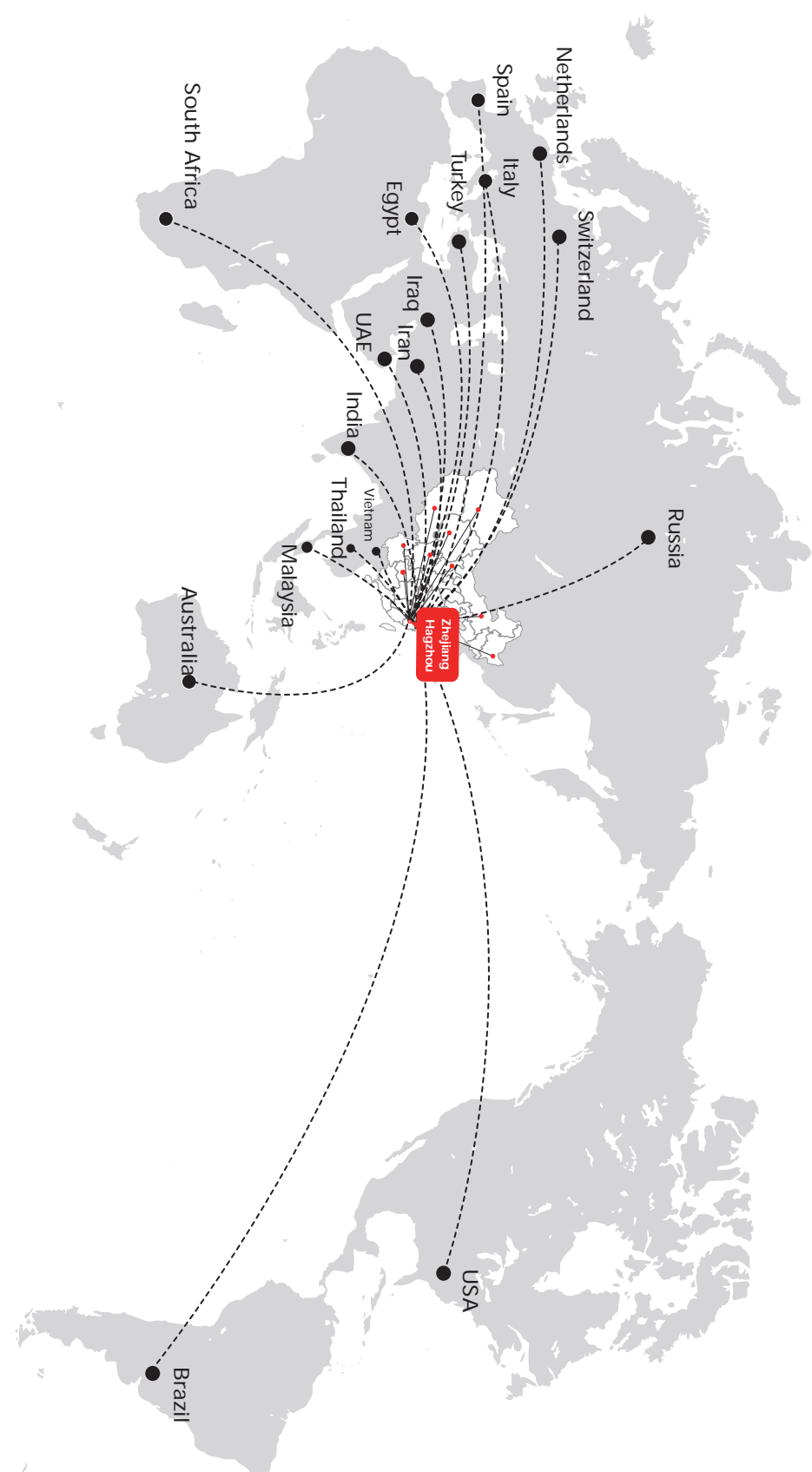
Project Name : A refined salt resource utilization project
in Inner Mongolia
Deploy Time : Year 2020
Model No. : NF-8040
Treatment Capacity : 2,000 T/D



Project Name : A landfill project in Zhejiang
*Recovery Rate > 96% (up to 98%)
*Treated water color 0
*Treated water met RO feed requirement
*NF system operation pressure 0.48-0.80Mpa

Project Name : A Landfill Project in Zhejiang
*Recovery Rate≥85% * COD Removal Rate≥96%
*Low treated water color *NF system operation pressure 0.50Mpa
*NF system operation temperature:30-39℃
*Permeate Flow : 15t/h

Project Application



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