

Water is life

Confronting water scarcity

Hinada always care about our water and Environment

Devoting all our energy to offer a satisfying solution and products to our clients



Submerged MBR Membrane / Ultrafiltration Membrane

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Hinada Water Treatment Tech Co.,LTD

Hinada Water Treatment Tech Co., LTD is a leading manufacturer of Hollow fibers in Water filtration application since founded in Guangzhou City on 2012. And we also provide the truly integrated solution to water or wastewater project, from designation, supplying, installation support and commissioning to training.

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International, professional and reliable manufacturer!



Membrane filtration

INNOVATION, CREATIVITY, QUALITY RELIABLE, GOOD SERVICE



Submerged MBR



MBR Modular



Mobile Water Solution



Ultrafiltration Membrane

Submerged MBR Membrane

MBR Advantages

- >>> Low energy costs
- >>> High quality effluent
- >>> High flow rate, infrequent cleaning
- * Lower footprint/space
- * Advanced MBR / UF Technology
- * Minimal prescreening, easy operation



Pore Size:
0.06 micron (average)
0.1 micron (Maximum)

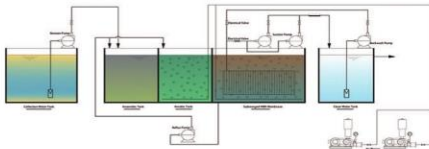
Electron microscope view of the
UF Membrane surface



Membrane Element Description

Model	NM-RMBR-1010	NM-RMBR-1520
Hollow Fibers Material	PVDF and PET Non-woven fiber	PVDF and PET Non-woven fiber
Dimensions(Width*Thickness*Height):	571 × 45 × 815	571 × 45 × 1535
Connect size	0032 EPVC	0032 EPVC
Effective Membrane Area(m ²)	10	20
Hollow fibers diameter(mm)	0.6/1.2	0.6/1.2
Normal pore diameter (μ m)	0.05	0.05
Design flow rate (L/hr)	100~250 (Sewage desgin 150L/1hr)	200~500 (Sewage desgin 300L/1hr)
Filtration Method	Outside-in	Outside-in
Potting material	Epoxy resin	Epoxy resin
Tube material	ABS	ABS
MBR Tank depth	Above 1.8m (Suitable for mobile system)	Above 3m

Classic Submerged Membrane in Wastewater Treatment Process



Membrane Modular According to your project requirement

Installed photo as reference



MBR Membrane Input Raw Water Conditions

Item	Specification
Working Temperature	5-45°C
PH	5-9
Input SS (Solid Diameter)	≤2mm
Oil Grease	<2mg/L
Hard (CaCO ₃ mg/L)	Too much CaCO ₃ will harden the hollow fibers
Filtration type	Outside-in
Max.Operating pressure	0.35MPa
Max.Air Pressure	0.15MPa
Operating Pressure	0.2MPa(Suggested)
Interval Working	7 minutes working 1-minute stop
Air Stirring Clean	1.5-3 m ³ /Hour.Unit



Submerged MBR Membrane Application

- Urban/Rural Sewage
- In-building Wastewater Recycling System
- City Water Filtration
- Industry Wastewater treatment

Packaged Wastewater Treatment Plants

- * Reduce onsite construction costs with fast and simple installation
- * Ideal flows between 1 ton to 200 tons wastewater capacity per day
- * High quality effluent
- * Easy operation and maintenance requires minimal operator supervision
- * Meets or exceeds your local regulatory requirements



Hinada provide a truly integrated solution to you, with dedicated technical support every step of the way

- * Wastewater Treatment Process Design
- * Equipments manufacturing and supply
- * Installation , Commissioning
- * Test & Training



UF Technology

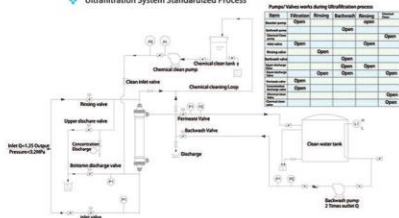
Provide quality UF Membranes 7 years with variety industrial application experience, based on modification of Polyvinylidene Fluoride (PVDF) and polyvinyl chloride (PVC) Membrane technology . reliably enhancing product yield. Online integrity testing and validation enables secure filtration for any stream requiring clarification, concentration, and purification. Our vast experience and drive for excellence can be put to use in your facility – quickly and easy.

Ultrafiltration Method

Operation method	Flow(Inside-out)	Flow(Outside-in)	
Filtration	Dead-end	A → C	A → B
	Cross flow	A → B A → C	A → B A → C
Backwash	Rinsing	A → B	A → C
	backwash	C → A C → B	B → A B → C
Chemical cleaning	A → C	A → B	
Remarks	A: Inlet B: Concentration C: Clean Water	A: Inlet B: Clean Water C: Concentration	



Ultrafiltration System Standardized Process



Transmembrane pressure difference	0.04-0.08MPa
Maximum operating pressure	0.2MPa
Maximum transmembrane pressure difference	0.2MPa
Air Cleaning Pressure	0.15MPa
Temperature range (deg.C)	5-40
Flowing pressure	0.3-0.35MPa
PH range	2-13
Filtration method	Dead-end or Cross flow
Maximum surface layer	500µm
Maximum release chlorine	50PPM

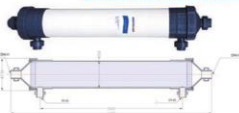
Cleaning	Backwash flow rate	1.5-2 times of output
	Backwash pressure	0.05-0.12MPa
Process	Backwash time	20-180
	Backwash frequency	20-60
	Rinsing flow rate	1.5-2 times of output
	Rinsing time	10-20
	Rinsing frequency	10-60
	Chemical washing frequency	6-180
Chemical washing time	15-120	
Chemical liquid	Cloro wdt, NaOH, NaClO, H ₂ O ₂	

4inch UF membrane cell



	Model	NM-UF-90 (Horizontal PVC ally)	NM-UF-90 (Vertical Yellow fiber)
Mech UF Membrane specification	Dimension Yellow fiber	1.011 68mm	1.41 1.2mm
	Filtration Method	Inside-out	Outside-in
	Effective Membrane Area	4.87m ²	8.0m ²
	Design flow rate	80-160L/m ² /h	40-200L/m ² /h
Membrane specification	Clear water use flow rate (25°C, 0.1MPa)	1.17m ³	1.57m ³
	Fitting material		Epoxy resin
	Winding material		U-PVC
	Molecular Cut off (Da)		100,000 Dalton
Dimension (mm)		Φ90 x 1175	
Class Weight		3kg	

8 inch UF membrane cell

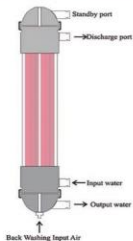


	Model	NM-UF-200 (Horizontal PVC ally)	NM-UF-200 (Vertical Yellow fiber)
Mech UF Membrane specification	Dimension Yellow fiber	1.011 68mm	1.41 1.2mm
	Filtration Method	Inside-out	Outside-in
	Effective Membrane Area	18.0m ²	18.0m ²
	Design flow rate	80-160L/m ² /h	40-200L/m ² /h
Membrane specification	Clear water use flow rate (25°C, 0.1MPa)	8.47m ³	9.27m ³
	Fitting material		Epoxy resin
	Winding material		U-PVC
	Molecular Cut off (Da)		100,000 Dalton
Dimension (mm)		Φ 200 x 1475mm	
Class Weight		30kg	

9 inch UF membrane cell



Model	NM-UF-2860 (Hollow PVC Ads)	NM-UF-2880 (PVDF Hollow Fiber)
Diameter hollow fiber	1.671.66mm	0.4 / 1.2mm
Filtration Method	backwash	Down-to
Effective Membrane Area	30m ²	37m ²
Design flow rate	60-150L/m ² ·h	40-200L/m ² ·h
Max. water use flow rate (23°C, 0.1MPa)	30T/H	32 T/H
Membrane		
UF		
Material	Spary nylon	UV-PVC
Molecular Cut off (Dal)	100,000 Dalton	
Dimension (mm)	Ø 225x 1800mm	
Gross Weight	55kg	



Features:

1. PVDF hollow fibers
2. Replaceable UF Filters
3. With Air Backwash
4. It can take out for clean

Installed Ultrafiltration System



*We are professional manufacturer
looking for associate partner*



UF membrane



MBR membrane

our products



Wastewater Treatment Process Design
Equipments manufacturing and supply
Installation, Commissioning
Test & Training
Our service



High quality
Competitive price
reliable partner
Why choose us?