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

HINADA

HINADA WATER TREATMENT TECH CO.,LTD






Submerged MBR Membrane / Ultrafiltration Membrane

Hinada Water Treatment Tech Co.,LTD

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About US

Hinada Water Treatment Tech Co., LTD is a leading manufacturer of Hollow fibers in Water filtation 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, CREATIVATY, QUALITY RELIABLE, GOOD SERVICE

Submerged MBR

MBR Modular

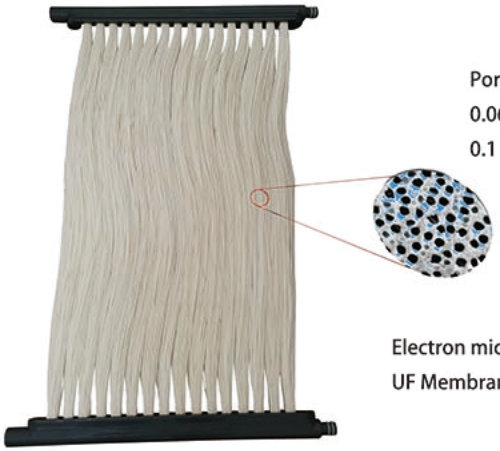
Mobile Water Solution

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



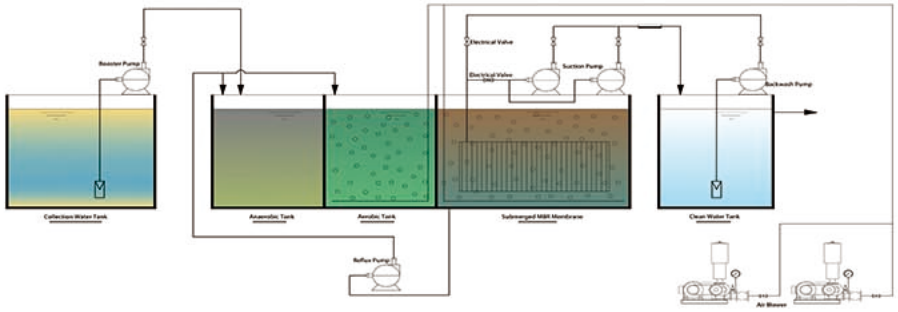
Pore Size:
0.06 micron (average)
0.1 micron (Maximum)

Electron microscope view of the
UF Membrane surface

Membrane Element Description

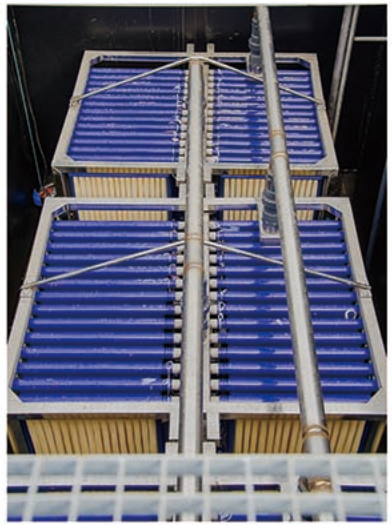
Model	NM-RMBR-1010	NM-RMBR-1520
Hollow Fibers Material	PVDF and PET Non-woven fiber	PVDF and PET Non-woven fiber
Dimensions(Width*Thickness*Height):	571×45×815	571×45×1535
Connect size	OD32 UPVC	OD32 UPVC
Effective Membrane Area(m2)	10	20
Hollow fibers diameter(mm)	0.6/1.2	0.6/1.2
Norminal pore diameter(μm)	0.05	0.05
Design flow rate (L/hr)	100~250(Sewage desgin 150L/Hr)	200~500 (Sewage desgin 300L/Hr)
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℃
PH	5--9
Input SS (Solid Diameter)	≤2mm
Oil Grease	<2mg/L
Hard (CaCO3 mg/L)	Too much CaCO3 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 m³/Hour.Unit

Submerged MBR Membrane Application

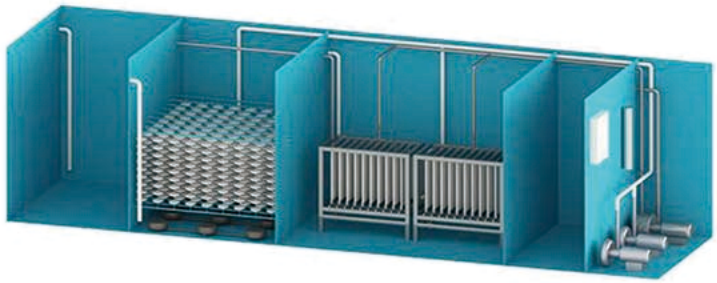
- Urban/Rural Sewage
- City Water Filtration
- In-building Wastewater Recycling System
- Industry Wastewater treatment

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

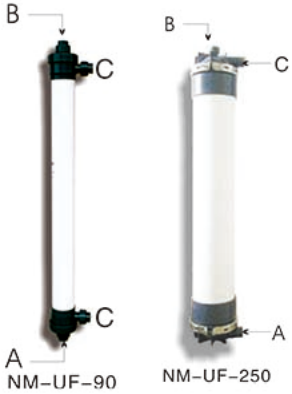


UF Technology

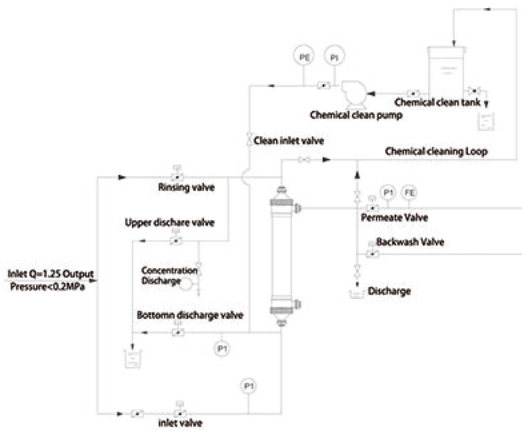
Provide quality UF Membranes 7 years with variety industrial application experience, based on modification of Polyvinylidene Fluoride (PVDF) and polyvinyl chloride (PVC) Membrane technology . reliably enhancing product yield. Online integrity testing and validation enables secure filtration for any stream 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



Pumps/ Valves works during Ultrafiltration process

Item	Filtration	Rinsing	Backwash	Rinsing	Chemical Clean
Booster pump	Open			open	
Backwash pump			Open		
Chemical Clean pump					Open
Inlet valve	Open			Open	
Rinsing valve		Open			
Backwash valve			Open		
Upper discharge Valve			Open	Open	
Down discharge Valve		Open	Open		Open
Permeate valve	Open				
Concentration discharge valve	Open				
Chemical clean Valve					Open
Chemical clean valve					Open

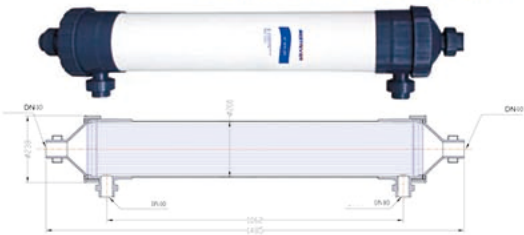
Operating Conditions		
	Transmembrane pressure difference	0.04–0.08MPa
	Maximum operation pressure	0.3MPa
	Maximum tansmembrane pressure difference	0.2MPa
	Air Cleaning Pressure	0.15MPa
	Temperature range (deg.C)	5-40
	Working pressure	0.2--0.3MPa
	PH range	2–13
	Filtration method	Dead-end or Cross flow
	Maximum turbidity input	50NTU
	Maximum tolerance chlorine	50PPM

Cleaning Process		
	Backwash flow rate	1.5—2 times of output
	Backwash pressure	0.06–0.12MPa
	Backwash time	20–180
	Backwash frequency	20–60
	Rinsing flow rate	1.5—2 times of output
	Rinsing time	10–30
	Rinsing frequency	10–60
	Chemical washing frequency	6–180
	Chemical cleaning time	15–120
	Chemical liquid	Citric acid、NaOH、NaClO、H_2O_2

4inch UF membrance cell

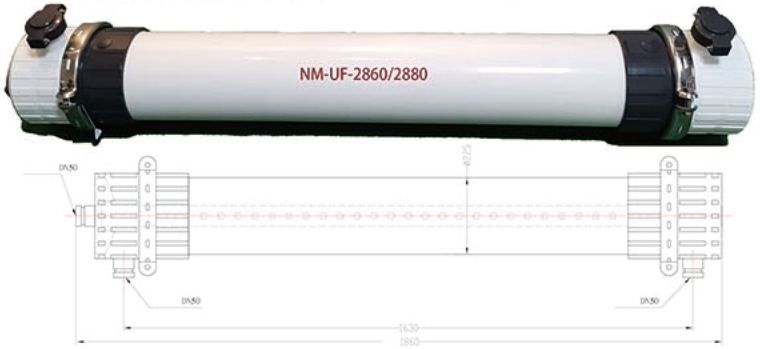
4inch UF Membrane specification			
	Model	NM-UF-90(Material: PVC allay)	NM-UF-90 (PVDF Hollow fibers)
	Diameter of Hollow fibers	1.0/1.66mm	0.6/ 1.2mm
	Filtration Method	Inside-out	Outside-in
	Effective Membrane Area	4.8m^2	8.0m^2
	Design flow rate	60–160L/m^2.h	40– 200L/m^2.h
	Clean water test flow rate(25℃ 0.1MPa)	1.1T/H	1.5T/H
	Potting material	Epoxy resine	
	Housing material	U-PVC	
	Molecular Cut off(Dal)	100,000 Dalton	
	Dimensions (mm)	Φ90×1175	
	Gross Weight	7kgs	

8 inch UF membrane cell

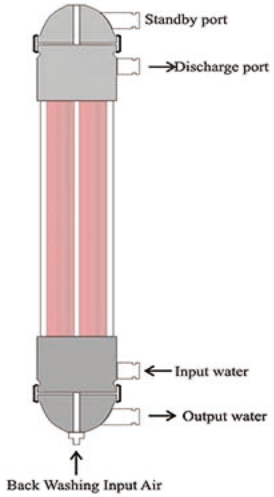


8 inch UF Membrane Specification			
	Model	NM-UF-200(Material: PVC Aally)	NM-UF-200(PVDF Hollow fiber)
	Diameter hollow fibers	1.0/1.66mm	0.6/ 1.2mm
	Filtation Method	Inside-out	Outside-in
	Effective Membrane Area	28.0m^2	38.0m^2
	Design flow rate	60–160L/m^2.h	40– 200L/m^2.h
	Clean water test flow rate(25℃ 0.1MPa)	6.4 T/H	9.2T/H
	Potting material	Epoxy resin	
	Housing Material	U-PVC	
	Molecular Cut off (Dal)	100,000 Dalton	
	Dimension (mm)	Φ 200x 1475mm	
	Gross Weight	30kgs	

9 inch UF membrance cell



	Model	NM-UF-2860(Material: PVC Aally)	NM-UF-2860(PVDF Hollow fiber)
9inch UF Membrane Specification	Diameter hollow fibers	1.0/1.66mm	0.6/1.2mm
	Filtation Method	Inside-out	Outside-in
	Effective Membrane Area	38m²	52m²
	Design flow rate	60~160L/m².h	40~ 200L/m².h
	Clean water test flow rate(25℃ 0.1MPa)	10.0T/H	12 T/H
	Potting material	Epoxy resin	
	Housing Material	U-PVC	
	Molecular Cut off (Dal)	100,000 Dalton	
	Dimension (mm)	Φ 225x 1860mm	
	Gross Weight	50kgs	



Featuies:

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

Istallation,Commissioning

Test &Training

Our service

High quality

Competitive price

reliable partner

Why choose us?