

UNA-620A UNA-600A

For potable water production, pre-treatment for SWRO, water recovery from waste water and sewage effluent. Provide reliable water quality using the latest technology at low cost.



Microza UNA series module features

- **High permeate flux**

High permeate flux is achieved using membrane with exceptionally high permeability.

- **Long operating life**

Hollow fiber membranes manufactured with Asahi Kasei's proprietary technology provide superb mechanical strength and chemical resistance. Membrane deterioration from chemicals or biolysis is not a concern with general use.

- **Precise separation characteristics**

Membrane with sharp and uniform pore size distribution produces high quality water without adding coagulants.

- **Applicable for raw water with high turbidity**

Direct treatment of high turbidity raw water is possible. This is due to the unique structure of the module which provides for easy discharge of solids, together with the highly efficient flux maintenance protocol of simultaneous reverse filtration and air scrubbing.

Application

- **Various Water Treatment Processes**

Various water treatment processes (drinking water, process water for food and beverage plant, various cleaning water, etc.)

- **Treatment of Sewage and Waste Water**

Treatment of sewage and wastewater (advanced treatment of sewage, recovery of industrial wastewater, treatment of landfill leachate)

- **Pretreatment of RO and NF**

Pretreatment of RO/NF (desalination of sea water, UPW production process, etc.)

- **Sea Water Purification**

Purification of Seawater (deep-layer ocean water, aquarium water, aqua-farming water)

- **Condensate and Recycled Water Treatment**

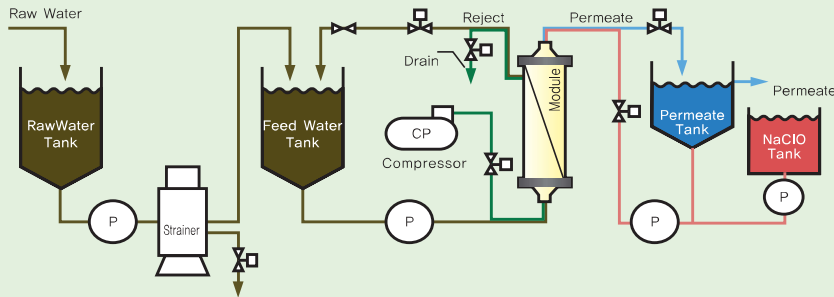
Treatment of condensate and recycled water (boiler, heat exchanger, swimming pool, irrigation)

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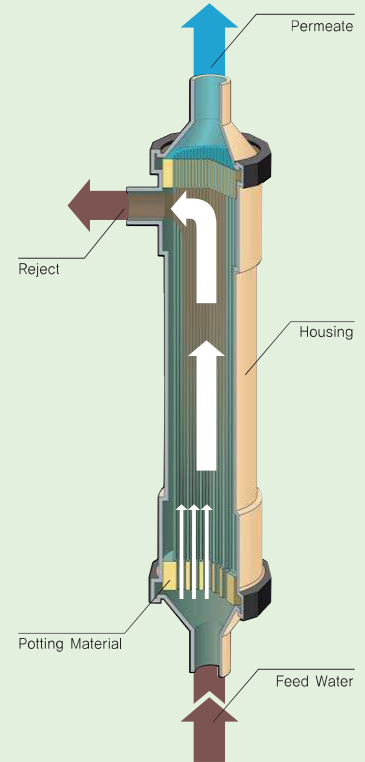
System Arrangement

AS/RF

Long term stability of permeate flux is achieved by simultaneous reverse filtration and air scrubbing.



Module Structure



Installation Example: 60,000m³/day : 82 Nos.x8 Racks



Specification

Specifications of UNA-620A and UNA-600A Module

			UNA-620A	UNA-600A
Membrane	Module type			
	Material		Highly Crystalline Structure Polyvinylidene Fluoride (PVDF)	
	Surface Area (Outer Surface)	m ²	50	23
	Morphology		Monolith, Symmetric	
Operating Conditions	Filtration Method		Outside-in(Dead-end or Cross flow) ¹	
	Maximum Inlet Pressure	kPa	300	
	Maximum Transmembrane Pressure	kPa	300	
	Maximum Operating Temperature	°C	40	
	pH Range(Normal)		1-10 ⁽²⁾	
Materials	Design Flux	m ³ /hr	2~10	1~6
	Housing Material		ABS	
	Potting Material		(Polyurethane)	
Module weight	Dimensions	mm	2,338L x 165Ø	1,234L x 165Ø
	Water Filled	kg	60	30
	Empty	kg	30	15

- (1) Filtration method is selected based on feed water quality. Please consult Asahi Kasei Corporation for details.
- (2) Above specified pH range may be exceeded during chemical cleaning. Refer to the Operation Manual for additional information.
- (3) Design flux varies depending on feed water quality and system design. Please consult Asahi Kasei Corporation for details.

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