

microza™

UNA-620AB

净水用外压式中空纤维膜组件
HOLLOW FIBER MEMBRANE MODULE FOR WATER CLARIFICATION

UNA系列產品

series

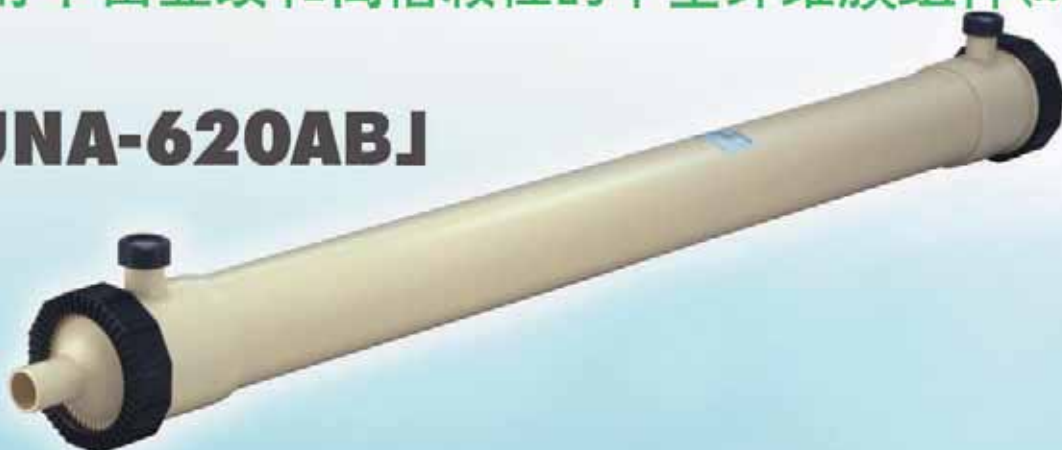


AsahiKASEI

旭化成

以先进的技术和较低的成本提供安全的用水 拥有丰富业绩和高信赖性的中空纤维膜组件(MICROZA)

「UNA-620AB」



旭化成生产的净水用中空纤维膜组件(MICROZA)广泛应用在净水工程、污水处理以及废水回用等多种领域，并在海内外拥有丰富运行业绩。旭化成基于这些业绩带来的丰富经验，使设计指导和售后服务等方面的技术支持体系得到全面改善。

以世界最高生产能力而著称的生产中空纤维膜组件工厂于2003年建成投产，为超微滤膜市场提供了巨大的供应能力。

采用独特的热致相制膜技术开发的MICROZA UNA系列中空纤维膜组件，具有通量高、耐久性良好、成本低等特点。使用旭化成独自开发的操作系统，可以在多种应用领域中长期安全运行。

旭化成坚持采用最先进的制膜技术，推动低成本安全稳定供水的膜法水处理事业。

MICROZA UNA系列中空纤维膜组件的特长

The Features of Microza : UNA series

1. 透水量高

·使用最新开发的高透水性膜可以达到极高的透水量。

(采用地下水或经预处理的过滤水等清洁水源作为原水时，设计透水量可达到5~6m³/m²/天。)

High permeate flux

· High permeate flux is achieved by the use of membrane with exceptionally high permeability. It is possible to set the design flux at 5 to 6m³/m²/day, with clean feed water such as underground water, pretreated water, etc.,

2. 使用寿命长

·旭化成以独特的制膜技术生产的中空纤维超滤膜具有机械强度高和优秀的化学耐药性。在通常使用中，无需考虑由化学药品腐蚀或生物分解等而产生的膜破损。

Long operating life

· Hollow fiber membranes manufactured with Asahi Kasei Chemicals' proprietary technology provide superb mechanical strength and chemical resistance.

· Membrane deterioration by chemicals or biolysis is not a concern in general use.

3. 分离效率高

·由于膜的孔径分布均一，通常在不添加絮凝剂的情况下，不论进水水质如何变动都可以过滤出浊度小于0.1NTU的高品质水。

Precise separation characteristics

· Membrane with sharp and uniform pore size distribution produces high quality water without adding coagulants (turbidity of treated water is below 0.1NTU).

4. 适用于高浊度原水

·UNA系列膜组件具有独特的除油构造，采用空气擦洗和反洗同时运行的维护系统(AS/RF)，清洗效果好，所以对于高浊度水质的原水不需要预处理，可以直接进行处理。

Applicable for raw water with high turbidity

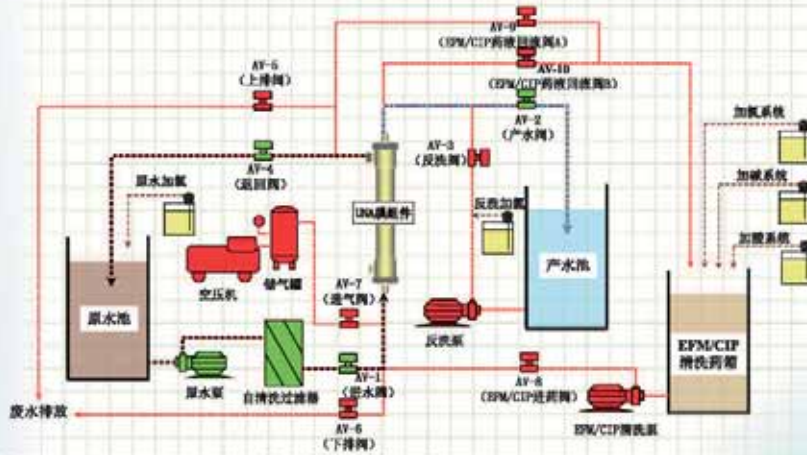
· Direct treatment of raw water with high turbidity is possible, owing to its unique structure of module for easy discharge of solids, highly efficient flux maintenance method of simultaneous reverse filtration and air scrubbing.

系统流程示例

System Flow Example

采用AS/RF(气洗和反洗同时进行)的维护技术,可长期稳定运行。

Stability of permeate flux for an extended period is achieved by simultaneous reverse filtration and air scrubbing.



某项目现场安装案例参考

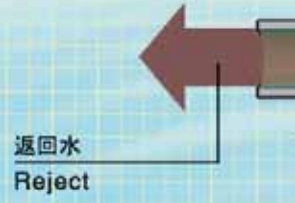
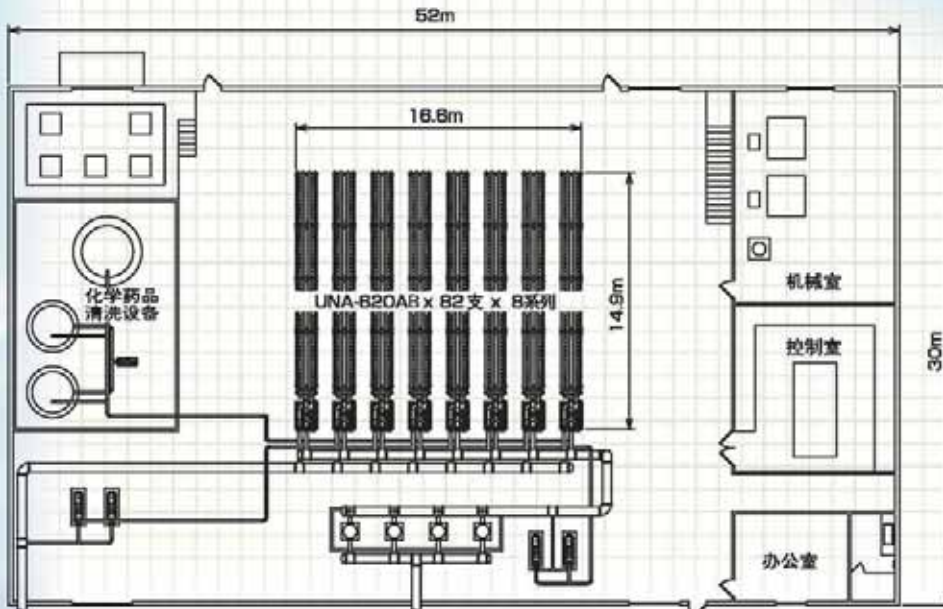
Installation Example



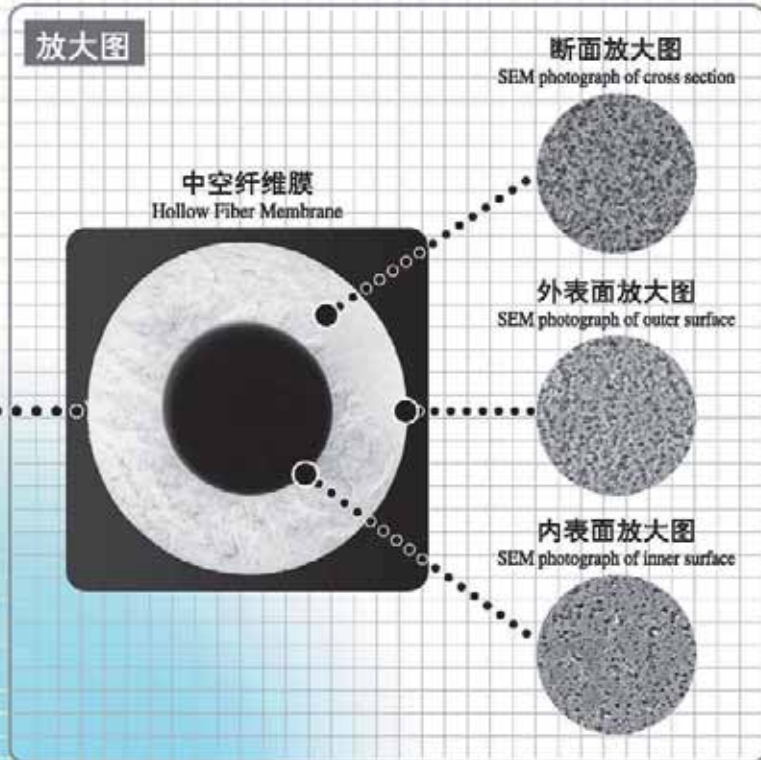
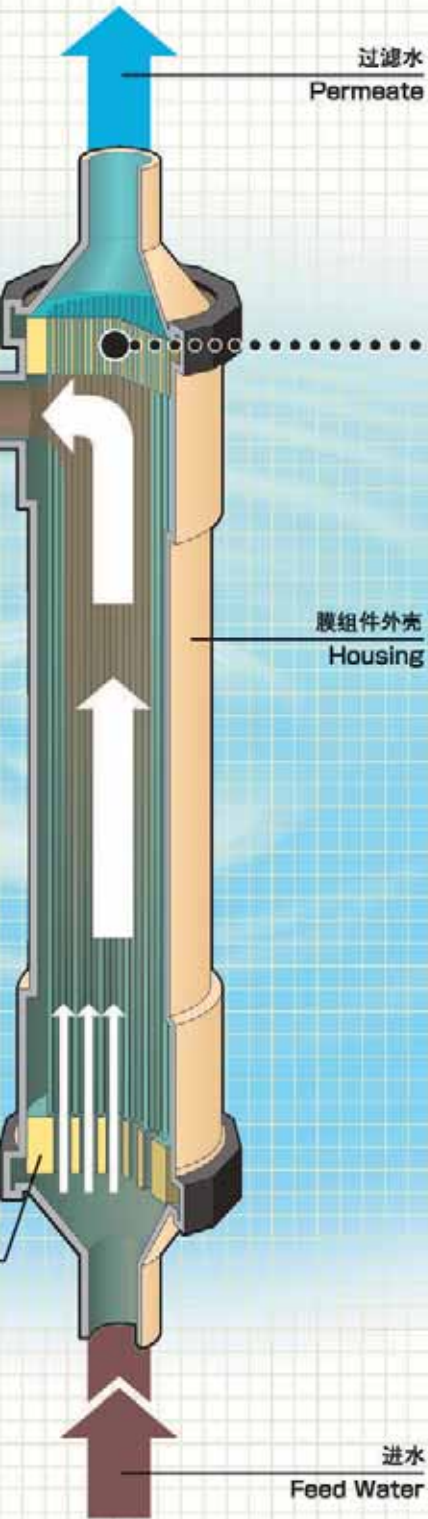
平面布置图参考

(7.5万m³/天: 82支*8系列)

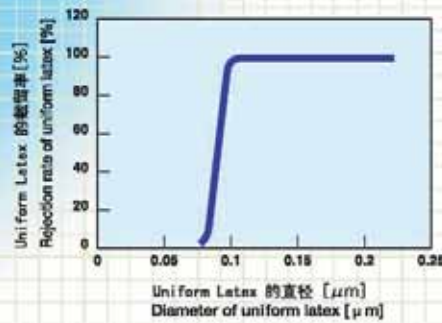
Layout Example



粘合剂
Potting Material



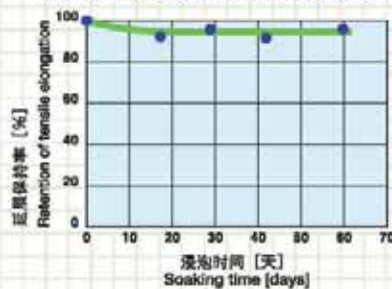
均匀胶体截留率 Rejection of Uniform Latex



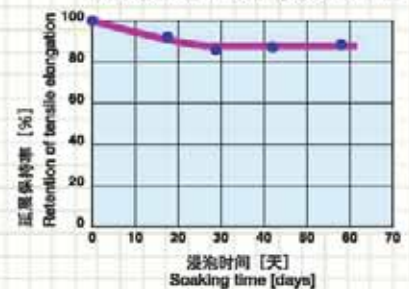
膜的耐药性

Chemical Resistance of Hollow-fiber membrane

试验条件: 室温下浸泡在含有5000ppm游离Cl₂的NaClO水溶液中
Condition: Soaked in NaClO aqueous solution containing 5000ppm of free Cl₂ at r.t.



试验条件: 室温下浸泡在4%NaOH水溶液中
Condition: Soaked in 4wt% NaOH aqueous solution at r.t.



应用领域 Application

1. 各种净水处理 [饮用水(可除去隐孢子虫)、食品厂和饮料工厂的工艺用水、各种洗净用水等]
1. Various water treatment process (drinking water, process water for food and beverage plant, various cleaning water, etc.)
2. 市政污水、工业废水的深度处理与回用 [市政污水、工业废水的回用、焦化废水处理、垃圾渗滤液处理等]
2. Treatment of sewage and waste water (advanced treatment of sewage, recovery of industrial wastewater, coke wastewater, treatment of landfill leachate)
3. 反渗透和纳米过滤的预处理 [海水淡化、超纯水制备等]
3. Pretreatment of RO/NF (desalination of sea water, UPW production process, etc.)
4. 海水净化处理 [海洋深层水、水族馆、养殖用水等]
4. Purification of Sea Water (deep-layer water in ocean, aquarium, aquafarming water)
5. 凝结水/循环水处理 [锅炉、换热器、游泳池、美化景观用水等]
5. Treatment of condensate and recycled water (boiler, heat exchanger, swimming pool, landscaping water)

规格表

Specifications of UNA-620AB module

膜组件类型 Module Type		UNA-620AB	
膜 Membrane	膜材质 Material		高维网状结构聚偏氟乙烯 (PVDF)
	有效膜面积 (外表面) Membrane Area (Outer Surface)	m ²	65
	公称孔径 Nominal Pore Size	μm	0.1
使用条件 Operating Conditions	过滤方式 Filtration Method		外压式过滤 Outside to inside
	进水最高压力 Maximum Inlet Pressure	kPa	300
	最大跨膜压差 Maximum Transmembrane Pressure(TMP)	kPa	200
	使用温度上限 Maximum Operating Temperature	℃	40
	PH范围 pH Range		运行过滤时 1-10 1-10 for raw water filtration 化学清洗时 1-14 ⁽¹⁾ 1-14 for chemical cleaning
组装材料 Module Composition	组件外壳 Housing		ABS
	粘合剂 Potting Material		聚氨酯 (Polyurethane)
膜组件尺寸 Module Dimensions		mm	2418L×165φ
膜组件重量 Module Weight	充水组件 Water Filled	kg	60
	空组件 Empty	kg	30

(1) 对不同商品的最大承受范围是不同的, 详情请参考产品使用说明书。

(1) The pH range to apply depends on the chemical used. Refer to the operation manual for further information.



日本 富士工厂 Fuji factory, Japan



中国 杭州公司 Microza Hangzhou

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- 使用本产品前，请阅读本产品的使用说明书。
- Refer to the operating manual of each product prior to use.
- 此样本中的规格说明有可能发生改变。
- Specifications in this brochure are subject to change without any notice.
- 用于本样本记述以外的用途、或转用到不同于最初采用目的的用途时，请与本公司商谈。
- Customers are requested to consult with Asahi Kasei Chemicals prior to using the products for any applications different from those described in this brochure or diversion of use from original one.

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