

Kuraray Trading Co., Ltd.

Hollow Fiber Membrane and It's Apparatus for Water treatment

Allow the stable water treatment with the high precision hollow fiber membrane (MF/UF) and the unique cleaning method.

Applications
Various Industries
(Steel, Electricity, Oil, Chemistry, Pulp/Paper,
Food, Pharmaceutical etc.)

Features

1. Excellent filtration accuracy with various membrane products

Appropriate membrane products can be selected to match specific treatment requirements.

2. Cartridge system

This system needs only replacement of hollow fiber membrane (Element), thus reducing the disposal and running cost.



Element

3. High thermal resistance

The thermal resistant models are used for applications in the food and biotechnology industries that require sanitation.

4. The unique cleaning method (Backwashing system with air)

This method makes a small-footprint possible and contributes to the lower cost because of reduced drainage volume and no treated water tanks nor pumps for physical washing needed.

Of course, normal physical washing and chemical washing methods are applicable, too.

Step 1



Suspended solids attach to the membrane surface during the filtration process

Step 2



By the backwashing with pressurized air, suspended solids on the membrane surface are exfoliated.

Step 3



Air scrubbing from the bottom of the element further exfoliates the suspended matter.

Step 4

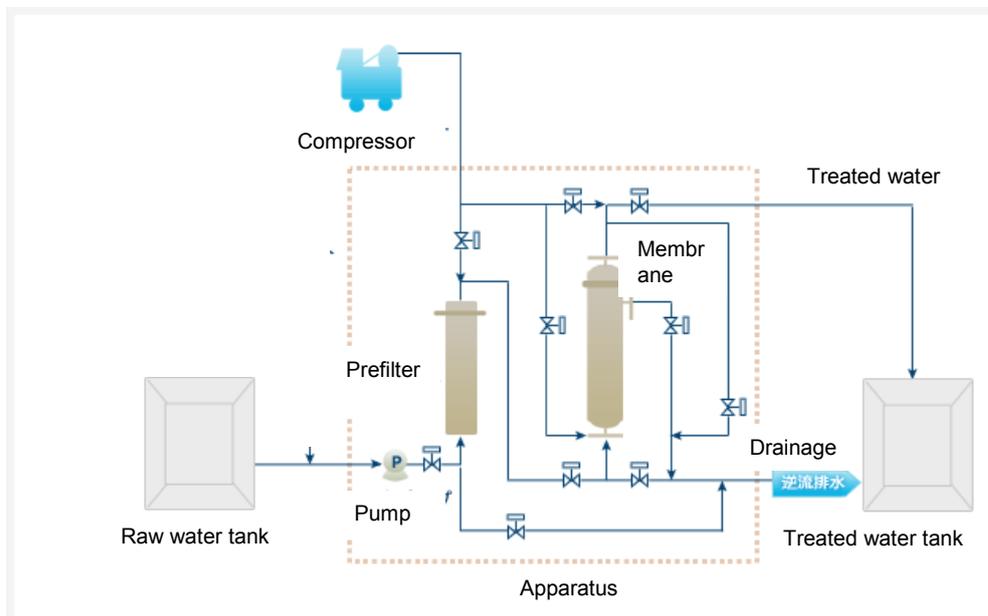


Membrane surface becomes clean and the performance recovers.

Overview (Technical principles, actions, etc.)

The filtration apparatus with the high precision hollow fiber membrane and the unique cleaning method are usable for the below applications.

1. Purification of industrial water, well water and process water of various kinds
2. Removal of bacteria, cryptosporidium and pyrogens
3. Ultrapure water production
4. Pretreatment for RO system
5. Clarification of Sake and it's mother water, Soy sauce and Vinegar.
6. Recycle and reuse of wastewater.
Si Back Grinding/ Dicing wastewater, Glass Grinding/ Cutting/ Polishing wastewater,
Sewage (treatment of secondary effluent)



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