

Daicem Membrane System LTD.

SUF System

Applications
Groundwater, Industrial water, River water, Filtration
of seawater, Advanced treatment of processed water,
recycling of food processing water, and reuse of
wastewater.

• System to improve the quality of ground water to the tap-water level

Features

- Since an ultra-filtration (UF) membrane is used, suspended solids, protozoan pathogens such as Cryptosporidium, bacteria and viruses can be removed. (If your purpose is to remove the viruses, a special measure to prevent cross contamination should be taken for permeated water.)
- A cellulose acetate hollow fiber membrane causes less adhesion of turbidity, thus boasting excellent water permeability.
- This is a compact unit facility, requiring only half the space of traditional facilities.
- By using the automatic control system, unattended operation is possible.
- By using an automatic backwashing system operated periodically, high water permeability can be maintained for a long time.
- The F20 type, a cartridge type module, produces less waste material, reducing the running cost.

Overview (Technical principles, operation, etc.)

The ground water use system is a UF treatment system that can improve the quality of ground water to the tap water level. As an alternative of traditional flocculation sedimentation and sand filtration systems, this system, which can be combined with the pre-treatments for iron and manganese removal and activated carbon treatment, can remove not only bacteria but also viruses.

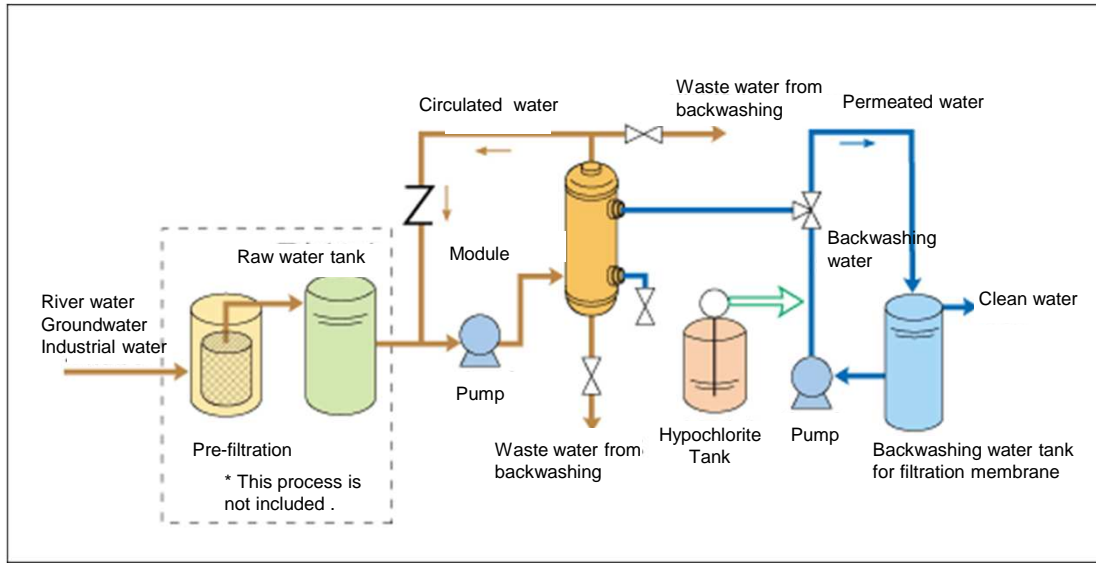
This system is optimal for the disinfection and clarification of river water, industrial water and seawater. As technology advances, its application area correspondingly tends to expand in all industrial fields, responding to increasing demands for purified water and high quality water.



SUF1 Series



SUF2 Series



FW50 Film Module Type (SUF2 series)

Type	SUF-204NS	SUF-206NS	SUF-208NS	SUF-210NS
Standard flux (m ³ /hr)	20	30	40	50
Ultra-filtration membrane	FW50-FUC1582 (acetate cellulose membrane of pore size 0.01μm)			
Maximum allowable working temperature	Under 40°C			
Number of module	4	6	8	10
Backwashing water tank	2,000 L	3,000 L	4,000 L	5,000 L
Equipment	Circulation • backwashing pump, backwashing water tank (PE), pressure gauge, flow monitor, chemicals feeding unit			
Circulation pump (50Hz/60Hz)	200V 5.5kw/5.5kw	200V 7.5kw/7.5kw	200V 7.5kw/7.5kw	200V 11kw/11kw
Backwashing pump (50Hz/60Hz)	200V 11kw/11kw	200V 11kw/11kw	200V 18kw/15kw	200V 22kw/22kw
Size of equipment (W × D × H)m (including backwashing tank)	6.5 × 1.7 × 2.33	7.15 × 1.7 × 2.43	7.9 × 1.93 × 2.62	8.6 × 1.93 × 2.93
Equipment dry weight/weight when operating kg(including backwashing tank)	2000 / 4280	2150 / 5540	2600 / 8070	3000 / 9600

The standard flux is assumed to be a volume of filtrated general underground water.
The volume may differ depending on the raw water quality and the temperature.

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