Poreflon
Oil separator

Features

[Reusability]
Degreaser can be reclaimed and reused, reducing the amount that needs to be replaced.

[Reduced industrial waste]
Waste disposal costs can be reduced by reducing the amount of degreaser discarded.

[Reduced environmental impact]
Reducing the amount of industrial waste and recovering degreaser reduces the environmental impact of your facility.

[Improved yield]
Reducing the introduction of suspended solids and oil to the post process helps improve product yield.

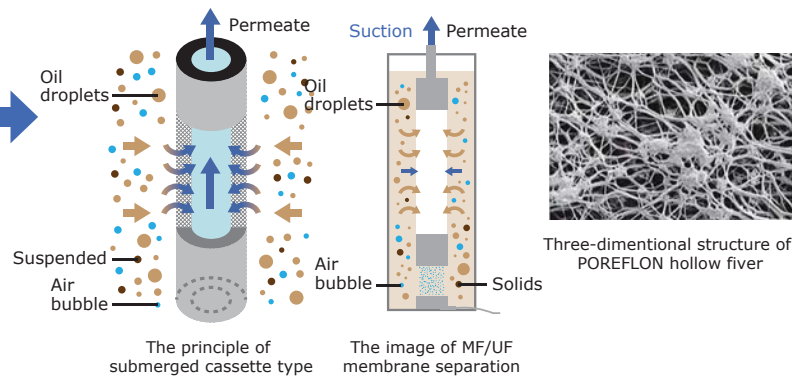**[Advanced treated water quality]**
The advanced treatment capability achieves a mineral oil content less than 5 mg/L. And water can be treated to very high levels.
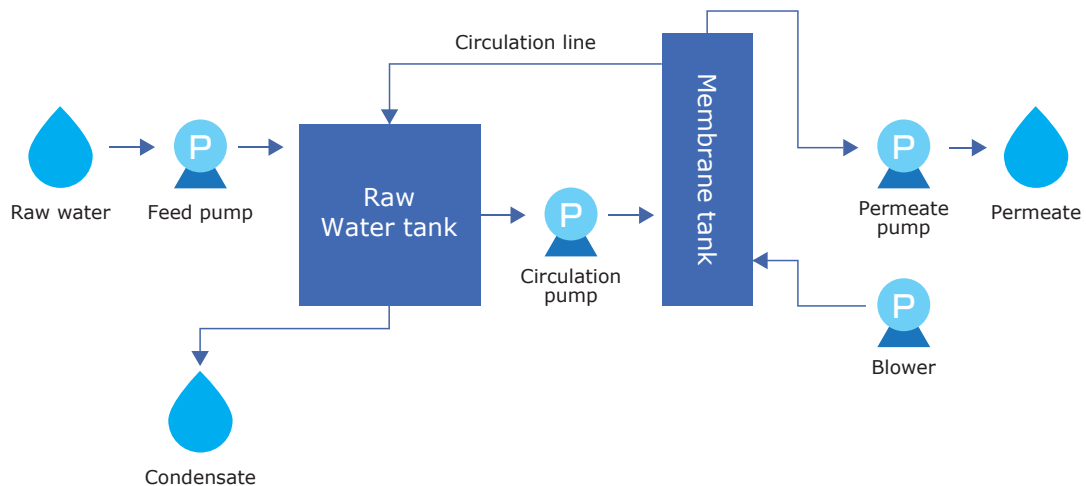
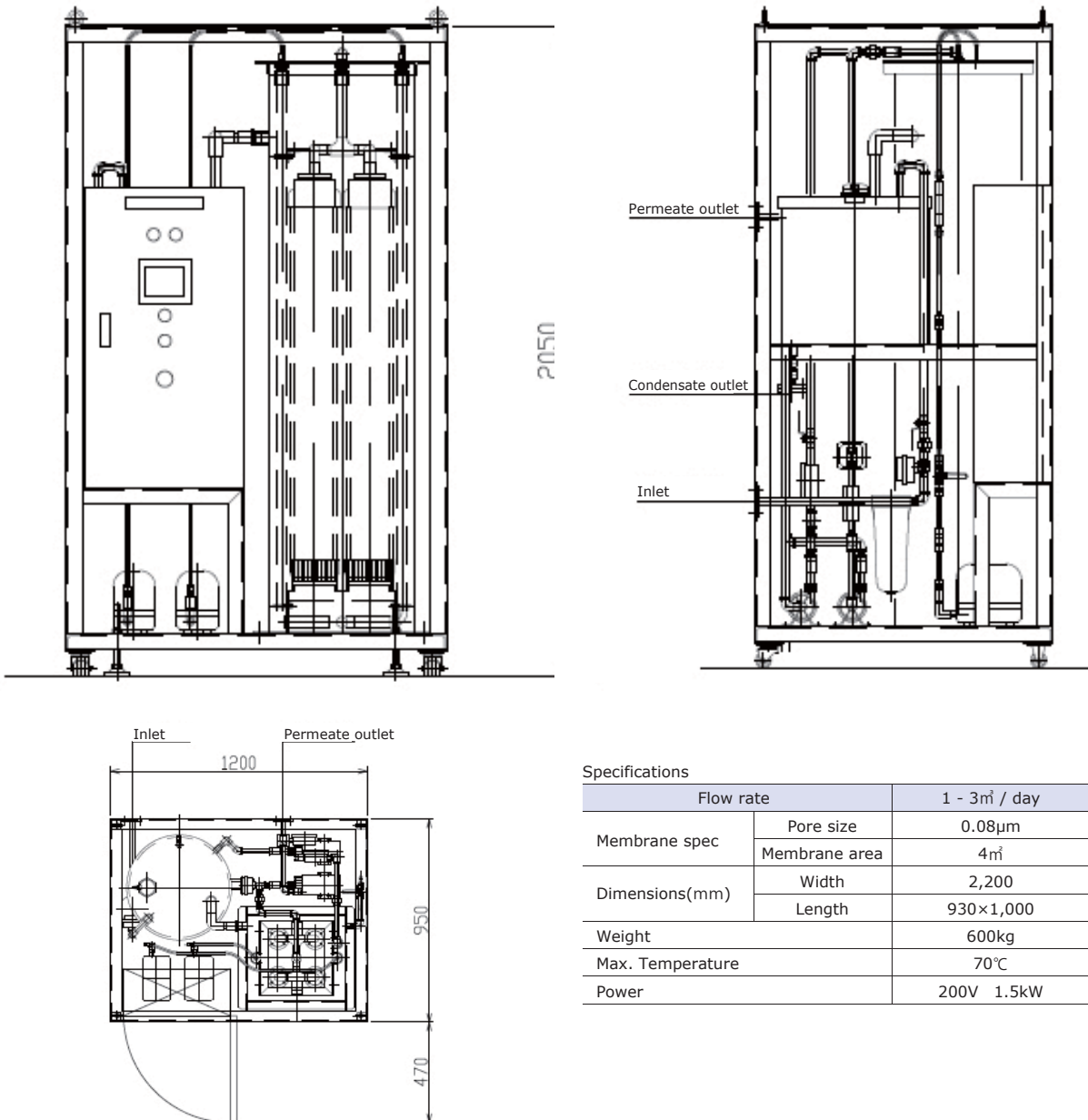## The degreasing solutions(Alkali solutions)

Using PTFE (polytetrafluoroethylene), which is high in chemical resistance, heat resistance and durability, we have developed a porous separation membrane making the best of our unique processing techniques and produced POREFLON™ Module as a MF/UF membrane module for a water treatment system.

1. To reduce the cost for the degreacing solution with less replacement.

2. To reduce the cost for wasting the solution by concentrating it.

3. To improve the yield of products by cutting TSS and O&G.

Permeate

Oil droplets

Suspended

Air bubble

The principle of submerged cassette type

Suction   Permeate

Oil droplets

Air bubble   Solids

The image of MF/UF membrane separation

Three-dimentional structure of POREFLON hollow fiver

Basic flow of Poreflon Oil Separator

Circulation line

Raw water — Feed pump — Raw Water tank — Circulation pump — Membrane tank — Permeate pump — Permeate

Blower

Condensate

The drawing sample of oil separator

Permeate outlet

Condensate outlet

Inlet

2050

Inlet Permeate outlet

1200

950

470

Specifications

Flow rate		1 - 3㎥ / day
Membrane spec	Pore size	0.08μm
	Membrane area	4㎡
Dimensions(mm)	Width	2,200
	Length	930×1,000
Weight		600kg
Max. Temperature		70℃
Power		200V 1.5kW

Case study

<The degreasing solutions for Automotive manufacturing company(pH13)>

Raw water   Permeate

(Water quality)

Items	Unit	Inlet	Outlet	Remarks
TSS		430	≦2	Shall be removed
Mineral oil	mg/ℓ	820	<5	Shall be removed
Animal & vegetable oil		260	210	Shall be penetrated

(for degreasing)

Specifications are subject to change without notice.

SUMITOMO ELECTRIC