



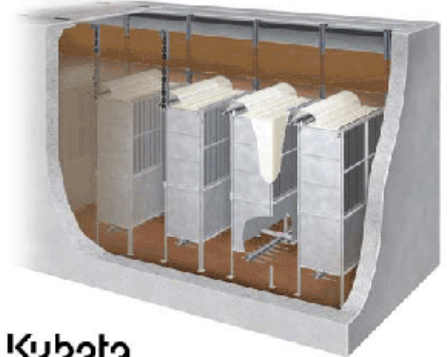
# Submerged Membrane Unit : Sheet Type

GOSHU KOHSAN CO., LTD  
www.goshukohsan.com

"Easy Handling, Excellent Effluent Quality and a Wide Variety of Applications"

## Introduction

Kubota's submerged membrane unit is a solid-liquid separation device using micro-porous membrane to get the high quality effluent. It is very simple and compact system that can be widely applied to the sewage treatment, industrial wastewater treatment including wastewater reuse and sludge treatment systems.



Kubota

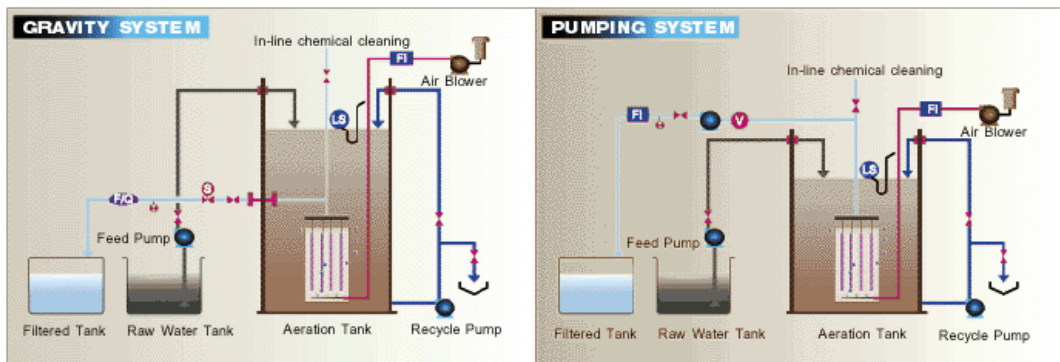
## Features

- Simple and Compact Unit
- Energy-Saving Operation
- Reliable Quality of Treated Water
- Simple Maintenance
- ✎ Install submerged membrane unit in aeration tank without a need of settling tank
- ✎ Available for gravity filtration in emergency case
- ✎ Ability to remove the bacteria and SS due to MF membrane with 0.4 μm pores
- ✎ Easy to reuse and reclaim treated water
- ✎ No need for sludge bulking control
- ✎ Only control the transmembrane pressure

## Applications

- Solid-liquid separation for high concentration activated sludge treatment
  - ✎ Domestic wastewater treatment
  - ✎ Wastewater reuse systems
  - ✎ Night soil treatment
  - ✎ Sewage treatment
- Solid-liquid separation
  - ✎ Coagulation
  - ✎ Rural wastewater treatment
  - ✎ Industrial wastewater treatment
  - ✎ Sludge thickening

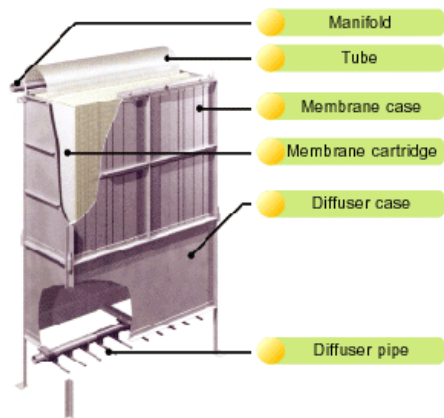
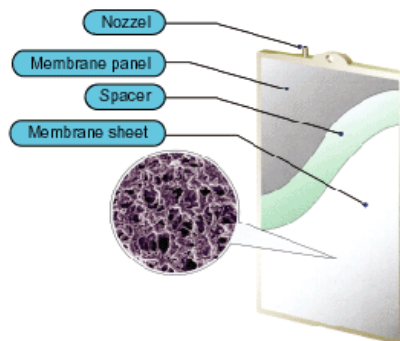
## Type of Operating System



# Submerged Membrane Unit : Sheet Type

## Structure of Membrane Cartridge

Membrane sheets are ultrasonic-welded on both surfaces of membrane panel. They are made of chlorinated polyethylene with nominal 0.4  $\mu\text{m}$  pores. Permeate water goes through spacers and comes out by the nozzle.



## Type of Membrane Cartridge

Type	510
Width (mm)	490
Height (mm)	1000
Thickness (mm)	6
Effective Membrane Area	0.8 m <sup>2</sup> /cartridge

## Specification List of Submerged Membrane Unit

Type	Number of Membrane Cartridges	Type of Membrane Cartridge	Effective Filtration Area (m <sup>2</sup> )	Max. Dimension (W x D x H mm)	Operating Weight (Kg)
Type A	AS100	100	80	1650 x 600 x 2545	940
	AS125	125	100	2000 x 600 x 2545	1160
	AS150	150	120	2350 x 600 x 2545	1380
Type E	ES75	75	60	1300 x 600 x 2047	680
	ES100	100	80	1650 x 600 x 2045	920
	ES125	125	100	2000 x 600 x 2045	1140
	ES150	150	120	2350 x 600 x 2045	1350
	ES200	200	160	3100 x 600 x 2052	1830
Type F	FS50	50	40	950 x 600 x 1547	455
	FS75	75	60	1300 x 600 x 1547	660
	FF25	25	20	580 x 600 x 1585	260
	FF50	50	40	930 x 600 x 1585	455
Double Deck	EK300	300	240	2350 x 600 x 2045	2670
	EK400	400	320	3100 x 620 x 2052	3630

\* Wide range of products besides above items are available.

\* All designs and specifications will be subject to change with or without prior notice.