

# Membrane Distillation System

## MDS 1000

Memsys Membrane Distillation System (MDS) are based on the vacuum-multi-effect-membrane-distillation (V-MEMD) technology. The system are modular and compact. They come in kits or containerised units. Each MDS has its own controls and can operate independently.

The system are easy to install, have low maintenance and minimal energy consumption. MDS 1000 can be used as demonstration system, small desalination plant and pilot plant for industrial waste water treatment.



**MDS 1000** (the photo is for illustration purpose only.  
Actual product may vary due to product enhancement)

### System characteristics and interfaces

Dimension (LxWxH)	5.5 * x 1 x 2.5 m
Weight (dry) *	2500 ~ 3000 kg
Capacity	5~12 ton/day distillate water
Membrane material	Polytetrafluorethylene (PTFE)
Heating sources	Hot water/steam
Cooling sources	Cold water/cooling tower
Main power connection	400 V / 50 Hz / 16 A
Control system	PLC/HMI panel

### Operation conditions

Ambient temperature	5 ~ 40 °C
Heat input	70 ~ 90 °C
Heating power	Min. 100 kW
Cooling input	20 ~ 30 °C
Cooling power	Min. 100 kW
Pre-treatment filter	5 µm pore size
Total suspended solids	< 10 mg/l
Oil & Gas, surfactants	< 10 ppm

\* The Length and Weight of MDS 1000 may change in relation to the actual module configuration



**Actual MDS 1000 system for waste acid concentration**

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