

Membrane Distillation System

MDS 2000

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 2000 can be used as small scale industrial water treatment plant.



MDS 2000 (the photo is for illustration purpose only. Actual product may vary due to product enhancement)

System characteristics and interfaces

Dimension (LxWxH)	5.5 * × 2.5 × 2.5 m
Weight (dry) *	5000 ~ 6000 kg
Capacity	10~24 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

* The Length and Weight of MDS 2000 may change in relation to the actual module configuration

Operation conditions

Ambient temperature	5 ~ 40 °C
Heat input	70 ~ 90 °C
Heating power	Min. 200 kW
Cooling input	20 ~ 30 °C
Cooling power	Min. 200 kW
Pre-treatment filter	5 µm pore size
Total suspended solids	< 10 mg/l
Oil & Gas, surfactants	< 10 ppm



Actual MDS 2000 system for NH₄Cl concentration in food industry

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