

Membrane Distillation System

MDS 500

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 500 can be used as demonstration system, small desalination machine combining with Generator/Solar or research purpose.



MDS 500 (the photo is for illustration purpose only. Actual product may vary due to product enhancement)

System characteristics and interfaces

Dimension (L×W×H)	5.5 * × 1 × 2 m
Weight (dry) *	1200 ~ 1500 kg
Capacity	3~5 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. 50 kW
Cooling input	20 ~ 30 °C
Cooling power	Min. 50 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 500 may change in relation to the actual module configuration



Actual MDS 500 system for FGD wastewater treatment

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