

Technical Data Sheet MidiSal™ 5.000 System

Autonomously operating Multi-Effect-Humidification unit. Capacity (nominal) 5000 Litres per day.

Includes a patented, clever designed arrangement of corrosion free condensation and evaporation subunits enhancing best energy recovery ratios.

All components in contact with salt water are made from corrosion free materials. Condenser / Evaporator are made of taste-free, beverage-conform PolyPropylen material. Casing of the humidification chamber and collection basins are made of highly graded stainless steel.

<u>Casing of Desalination unit</u>	20" CSC container
Dimensions:	Base area: 2.44 m x 6.06 m, Overall height Transportation 2.59 m Set Up 3.09 m
<u>Weight</u>	
Transportation	5300 kg
Operation	6100 kg
<u>Connection Raw Water supply</u> Flange 4 holes, 1.5" d 40 DIN 2501	Required capacity supplied to the system, pressure 0.2 bar: a) min. 2.5 m ³ /h, if system operates without add. cooling tower b) 0.5 m ³ /h using additional external cooling tower*
<u>Specification of Raw Water quality</u>	Any not turbid raw water of nearly any source as: Sea water, brackish water, water from polluted wells
TDS	Max. 100 000 ppm
Conductivity	Max. 120 000 µS/cm
Turbidity	No suspended substances (mechanical filtration at 50 Micron)
<u>Connection for Heating Power</u> Flange 4 holes 1" d32 DIN 2501	Nominal power: 20 kW _{thermal} Temperature: Supply line 85 °C (185 °F) / Return 75 °C (167 °F)
a) Heating Supply by Solar Collectors	e.g. 140...200 m ² highly efficient Solar Thermal Collectors (solar water heaters),
b) Heating Supply by waste heat	Using waste heat from primary cooling circuit of Diesel or Gas Motor - Corresponding el. nominal power 30 kW _{electrical}
c) Heating supply by gas burner	25 kW _{thermal} bulk load
<u>Connection for electrical energy supply</u>	Electrical grid connection 230 V AC, 50/60 Hz, 10A, nominal power 450 Watt
Alternative Photovoltaic set	3.5 kW _{peak} Photovoltaic system including 24 hours storage, inverters, controllers*
<u>Specification of product water</u>	Re-mineralization of produced distillate using add. drinking water supply unit*
Salinity (TDS)	< 50 ppm
Conductivity	< 20 µS/cm
Temperature	max. 40°C
Max. Bacteria (Colony count 36°C)	< 30/ml directly after production (permanent 5/ml with add. UV-disinfection system*)
<u>Specification of disposed brine</u>	Free flux without tailback needed, 2.3 m ³ /h without or 0.3 m ³ /h with cooling tower*
Temperature	Max. 45°C
TDS	Max. concentration 150 000 ppm TDS

*Additional accessories kit available

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