

## Technical Data Sheet MegaSal™ 10.000 System

Autonomously operating Multi-Effect-Humidification unit. Capacity (nominal) 10000 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>	40" CSC container
Dimensions:	Base area: 2.44 m x 12.1 m, Overall height: Transportation 2.59 m, Set Up 3.09 m
<u>Weight</u>	
Transportation	app. 9800 kg
Operation	app. 11400 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. 5.0 m <sup>3</sup> /h, if system operates without add. cooling tower b) 1.0 m <sup>3</sup> /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 1.5" d40 DIN 2501	Nominal power: 40 kW <sub>thermal</sub> Temperature: Supply line 85 °C ( 185 °F) / Return 75 °C (167 °F)
a) Heating Supply by Solar Collectors	e.g. 320...380 m <sup>2</sup> 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 60 kW <sub>electrical</sub>
c) Heating supply by gas burner	50 kW <sub>thermal</sub> nominal power
<u>Connection for electrical energy supply</u>	Electrical grid connection 220-240 V AC, 50/60 Hz, 10A, nominal power 850 Watt
Alternative Photovoltaic set	5.5 kW <sub>peak</sub> 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 <sup>3</sup> /h without or 0.3 m <sup>3</sup> /h with cooling tower*
Temperature	Max. 45°C
TDS	Max. concentration 150 000 ppm TDS

\*Additional accessories kit available

### GU – Water Management

A - 8043 Graz / Austria | Sonnleitenweg 33

Phone: +43 / 316 / 392218 | Fax: +43 / 316 / 392222

Mail: info@gu-watermanagement.com | Web: www.gu-watermanagement.com

*Feel the difference!*