



DATASHEET

PURA-1 system

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A compact and versatile MD test system for research purposes or small production of clean water.

Automatic control, plug&play setup with easy maintenance.

Suitable to give full depth information of quantitative aspects of MD such as production capacity, thermal and electrical energy consumption.

aquastill

Application	Water purification from saline water
Requirements	
Minimal temperature	5 °C
Maximal temperature	83 °C
Maximal pressure	600 mbar
Maximal TDS feed flow	150.000 mg/ltr
Performance	
Salt rejection	Up to 99,97%
Distillate production capacity	50-2500 ltr/day
Nominal distillate quality	< 200 µS/cm
Heating demand	18 kW or external
Power supply	380-400VAC 50/60Hz ; 32 A; ...
Operation	Automatic PLC controlled operation with display and datalogging
Operation mode	DCMD/AGMD/LGMD
Flow ranges	
Circulation flow	200-3000 ltr/hr
Feed flow capacity	20-300 ltr/hr
Modules	
Module types	Plica serie AS7; AS13; AS26
Weight	< 50 kg
Dimensions	< 604 mm x <520 mm (DxH)
General	
Module types	Plica serie AS7; AS13; AS26 [1 pc max.]
Weight	550 kg
Dimensions	Europallet 1200 mm x800 mm x2200 mm (LxWxH)
Materials	
Frame	ITEM anodized aluminium
Piping /plates	Poly propylene / Trespa HX exchangers titanium
Main equipment	
Circulation pumps	200-5000 ltr/hr
Circulation tank	
Heatexchangers	25 kW @ ΔT=5°C and flow = 1000 ltr/hr
Heating tank	
Electrical heating	9kW submerged teflon heating elements [2x]
Valves	temperature control valves optional for external heating
Measurements	
Temperature measurement	0-100 °C
Pressure measurement	-1000 -1000 mbar
Flow measurement	5-5000 ltr/hr
Conductivity measurement	1-1000 µS/cm ; 1-200 mS/cm