



DATA SHEET

RNS MHU – 30

15 February 2021

LAB SCALE 30m² AGMG / PGMD

Intended use	membrane distillation, airgap or permeate gap
	Multi-channel flat sheet
Effective membrane surface	30 m ²
Flux	Approximately 3 – 8 kg m ² .hr
Conductivity	Pure distillate 1 – 5µS/cm
Flow	2000 – 6000 ltr/hr
Flow direction	Counter current
Characteristics	
Membrane	0.2µm ePTFE Membrane, Thickness 69 µm
Spacer membrane channel	2,5 mm Polypropylene
Spacer distillate channel	0,75mm Polypropylene
Spacer contactor	2,5 mm Polypropylene
Contactor	Tri-laminate PET – Aluminium – PET 30 µm
Housing Characteristics	
Housing material	stainless / steel
Inlet , outlet connections	Ø 40mm tubes, Polypropylene
Distillate outlet connections	Polypropylene Ø 25mm
Dry weight excl. frame	80 kilo
Max. working	< 1,0 Bar @ 70° C
Max. working Temperature	70° C
Dimensions	710 x 400 x 2110mm (LxBxH)
Storage transport Temperature	5 – 70C
Pressure Frame	Panel formwork is always needed





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Excellent separation quality

- Pure distillate 1 - 5 μ S/cm
- Flux 3 – 8 kg m² . hr
- 100% rejection of non-volatile components possible

Very high corrosion resistant

- Use of advanced materials and polymers

Superior cost efficiency

- Simplicity of the system
- Low pressure technology
- Less fouling
- Less chemicals for cleaning
- € 0,60- € 1,0 per m³ (mass production of the units)

High energy efficiency

- Low electrical energy consumption 0,6 – 1,5 kWh/m³
- Thermal energy consumption 65 - 150 kWh/m³ (reuse of waste heat or alternative energy sources)

Very good scalability

- Modular set-up
- Small footprint of the compact unit

Particularly suitable for water with high saline content

- Seawater
- Concentrated seawater
- Treating > 250,000 ppm

High yield and reliable operation

- Simplicity of the distillation process and system