

DATA SHEET

RNS MHU – 30

05 juni 2020

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
Recirculate Flow	1000 - 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 and outlet connections	Ø 40mm tubes, Polypropylene
Distillate outlet connections	Ø 25mm tubes, Polypropylene
Dry weight excl. frame	80 kilo
Max. working pressure	< 1,0 Bar @ 70°C
Max. working temperature	70°C
Dimensions incl. frame	710 x 400 x 2110mm (LxWxH)
Storage transport temperature	5 – 70°C
Pressure frame	Panel formwork or skid is always needed



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Excellent separation quality

- Pure distillate 1 – 5 $\mu\text{S}/\text{cm}$
- Flux 3 – 8 $\text{kg}/\text{m}^2/\text{hr}$
- 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 m^3 (mass production of the units)

High energy efficiency

- Low electrical energy consumption 0,6 – 1,5 kWh/m^3
- Thermal energy consumption 22 - 95 kWh/m^3 (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 grams per litre

High yield and reliable operation

- Simplicity of the distillation process and system