

Series 80 Desalinators

Capacities: 1 x 30-100 m³/day

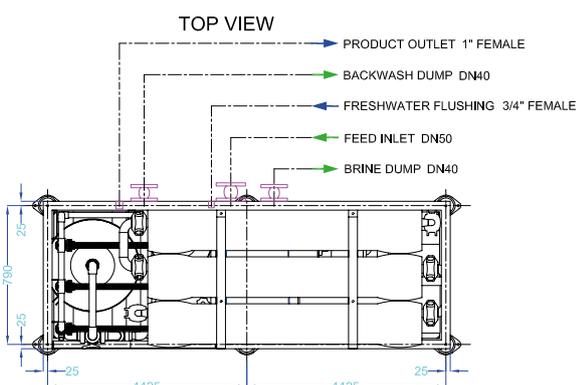
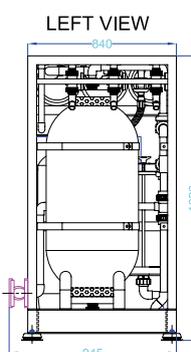
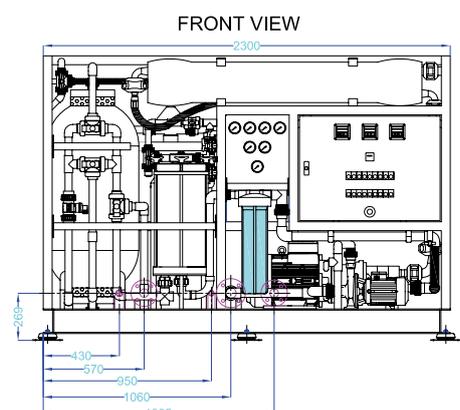
Designed to produce large volumes of water for superyachts and commercial vessels, the HEM 80 series combine a low space requirement with good accessibility for servicing.

The frame mounted plant generates between 30 and 100 cubic metres of fresh water per day, depending on the model. A backwashable sandfilter is incorporated to improve the feed water quality and reduce filter cartridge consumption.

Several versions of the design are available, depending on the working conditions and intended use for the product water. Any standard system can be custom built to your requirements.

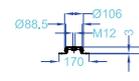


Dimensions



SILENT BLOCKS

PHOENIX 786.213
SHORE MIDDLE
SECTION VIEW



TOP VIEW



SPACE REQUIREMENT AROUND SYSTEM :

TOP :	100mm
BACK :	600mm
FRONT :	900mm
LEFT :	400mm
RIGHT :	400mm

WEIGHT DRY :	2 MEMBRANES	1038 Kg
	3 MEMBRANES	1094 Kg
WEIGHT IN OPERATION :	2 MEMBRANES	~1250 Kg
	3 MEMBRANES	~1300 Kg

NOTE :

ROS MODEL HEM 80/30 IS EQUIPPED WITH 2 MEMBRANE VESSEL ASSEMBLIES.
ROS MODEL HEM 80/40 IS EQUIPPED WITH 3 MEMBRANE VESSEL ASSEMBLIES.

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Standard Equipment

FEEDWATER PUMP

Bronze centrifugal pump mounted in the frame, or remote, if system is mounted above the waterline.

HIGH PRESSURE ASSEMBLY

Compact, low vibration, super duplex stainless steel HP pump directly (without belts) coupled, with a 15 kW, 1500 rpm, TEFC IP 55 aluminium main drive motor.

PREFILTRATION

Multi-media filtration followed by 5 micron security filter.

POST FILTRATION

Permeate neutralization is achieved by slow flow over a limestone filter, included in the frame.

PIPES AND FITTINGS

LP pipes in PE, and PVC.

LP fittings in PP and PVC.

HP pipes and fittings in 904L SST or 316L SST.

MEMBRANE PRESSURE VESSEL ASSEMBLY

8" TFC spiral wound membranes enclosed in FRP pressure vessels with all stainless steel endplug locking devices.

FRAMES AND MOUNTING HARDWARE

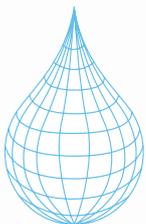
Frames and supports are fabricated from steel tubes and profiles.

Surface treatment includes zinc blasting followed by Powder Epoxy coating oven-baked.

Colour white, RAL 9016.

INSTRUMENTATION AND CONTROLS

- Digital feedwater flowmeter
- Digital product flowmeter
- Digital product water flowmeter
- SST glycerine filled pressure gauges, monitoring all prefiltration stages, HP in/out of membranes, product pressure etc.
- Automatic product water diversion system
- Automatic pressure build up and slow pressure drop during start and stop sequence
- Connections for automatic start/stop from remote location or from level switches in storage tank
- Indication light on control panel for system status, on/off for pumps, and fault indication, alarm lights etc.
- Over pressure relief valves for product and brine pipes
- Automatic system over-pressure shutdown and alarm
- Operating hour meter
- Built-in membrane cleaning / storage tank
- Alarm on over production and automatic shut down on too high permeate production
- Automatic freshwater flushing system



HEM