

Series 30 Desalinators

Capacities: 9,000 to 15,000 litres/day

This system was designed to fit the gap between the Series 25 and 40 units, where a higher production than the series 25 is required, but space for the Series 40 is not available.

The HEM Series 30 uses the 4 inch membrane which gives flows of 375/541/625 litres/hour for the three different models. The framed unit is very compact, whilst still providing unusually good access to all system parts for servicing.

The HEM SERIES 30 is available as a monobloc unit enclosed in an epoxy coated frame. The unit is compact without being inaccessible for routine service and allows fast and simple installation.

It can also be supplied in kit form as seven smaller modules with a completely pre-plumbed and electrically pre-connected main panel for flexible installation.

The modular unit does not take up much more space than the Series 25, but gives up to three times the output. A sand filter is strongly recommended if space is available, as the system has a high feedwater flow.

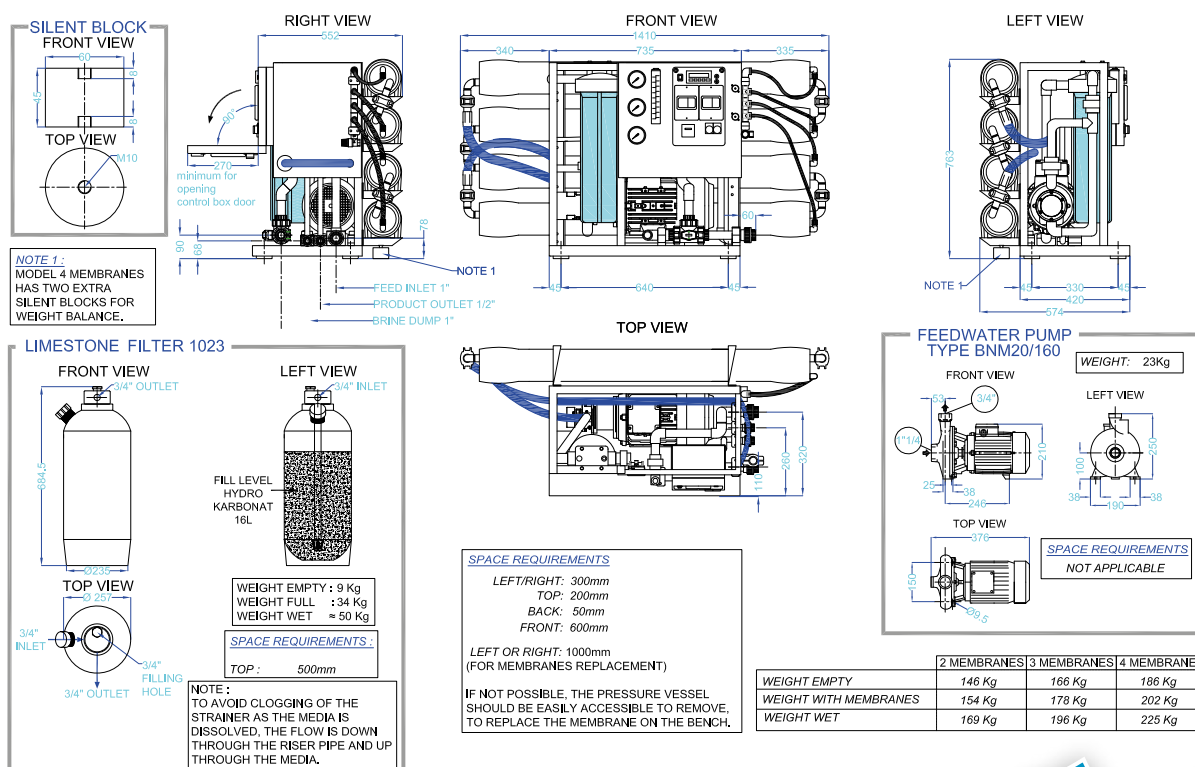
The Series 30 can only be used with a 3 phase power supply.



Modular Form



Dimensions



Series 30 Desalinators

Standard Equipment

FEEDWATER PUMP

Bronze centrifugal close coupled horizontal pump.

HIGH PRESSURE ASSEMBLY

Compact, low vibration, super duplex stainless steel HP pump directly (without belts) coupled, with a 5.5 kW, 2950 rpm, TEFC IP 55 aluminium main drive motor.

PREFILTER ASSEMBLY

High capacity prefilter, 05 micron.

POST TREATMENT

Permeate pH neutralization through limestone filter.

PIPES AND FITTINGS

All pipes in PE, and PVC.

LP fittings in PP and PVC.

HP fittings in marine grade 904L and 316L stainless steel.

MEMBRANE PRESSURE VESSEL ASSEMBLY

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

FRAMES AND MOUNTING HARDWARE

Panels in aluminium, powder epoxy coated.

Main frame in powder epoxy coated stainless steel.

Colour white, RAL 9016 (standard).

INSTRUMENTATION AND CONTROLS

- Feedwater flowmeter
- Product flowmeter
- SST glycerine filled feedwater gauge
- SST glycerine filled product gauge
- SST glycerine filled HP gauge
- Manual SST pressure regulating valve
- Automatic shutdown by system overpressure
- Automatic shutdown by too low feedpressure
- Electric control box including hour meter, start & stop buttons, thermal protection for LP/HP pumps, remote alarm connections, alarm mute switch, digital temperature compensated permeate quality indicator
- Automatic bad quality water diversion system
- Permeate over pressure relief valve
- Brine over pressure relief valve

OPTIONAL EQUIPMENT

- Custom made prefilter system as required.
- Sandfilter assembly type 1335.
- Semi automatic

Technical Specifications

Model	Dry Weight	LPD *	LPH*
H30 FRAME 2400	154 Kg	9000	375
H30 FRAME 3400	178 Kg	13000	341
H30 FRAME 4000	202 Kg	15000	625
H30 KIT 2400	185.5 Kg	9000	375
H30 KIT 3400	202.5 Kg	13000	541
H30 KIT 4000	222.5 Kg	15000	625

- Feedwater flow 11 gpm 41.6 lpm.
- Feedwater pressure 20 psi / 1.4 bar.
- Salt rejection Min 98.6%.
- Normal pressure with seawater 850psi / 58 bars.
- Power requirement 6.6 kW.
- Power supply 400V-3PH-50Hz

* Capacities based on feedwater 35000 ppm, 25°C, pH 8, operating pressure 850 psi. Contact HEM for more complete specifications.

