

Farallon 1800 / 2800

Water Production

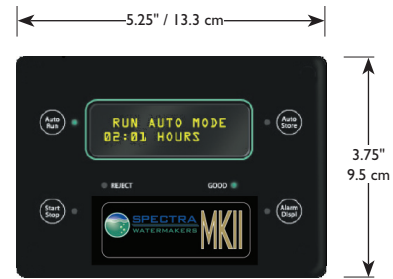
Farallon 1800: 1800 / 75 (Gals. per Day/Hour) 6,814 / 284 (Litres per day/hour)
Farallon 2800: 2800 / 120 (Gals. per Day/Hour) 10,600 / 454 (Litres per day/hour)
 (Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM Dissolved Solids +/-15%)

System Weight (dry)
 Farallon 1800 with controls - 225 lbs/102Kg.
 Farallon 2800 with controls - 260 lbs/118Kg.

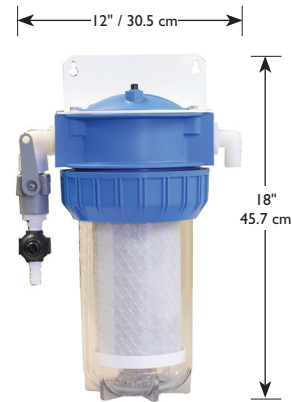
Power Requirements

Total Power Requirements

	Farallon 1800	Farallon 2800
Watt/hr per gallon/litre	13.1 Watts/3.46	10 Watts/2.6
Current draw 110 Volts AC 50/60 hertz	7.5 amps	N/A
Current draw 220 Volts AC 50/60 hertz	3.8 amps	5.5 amps
Current draw 240 Volts AC 50/60 hertz	3.5 amps	5 amps



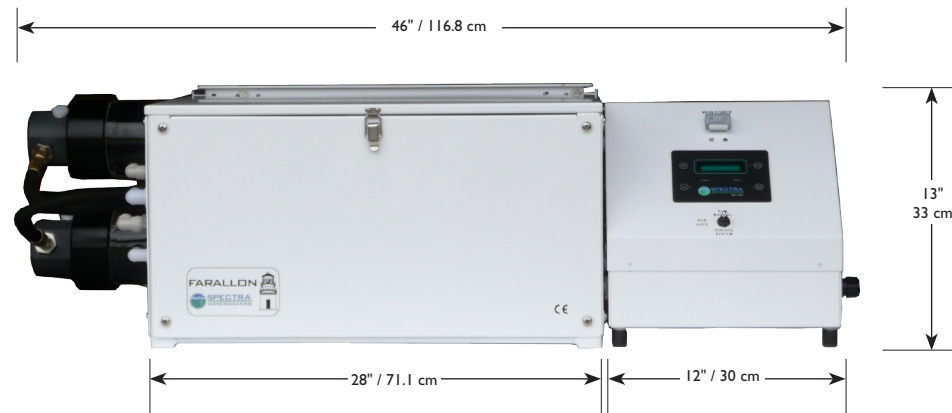
Depth = 1.625" / 4.1 cm
MPC-5000 Remote Controller



Depth=8.5" / 21.6 cm
Carbon Filter



Depth = 8.5" / 21.6 cm
5 & 20 Micron Filters



Depth = 24" / 61 cm)
Farallon 1800



Depth = 7.75" / 19.7 cm
Service Modules
 2 ea.



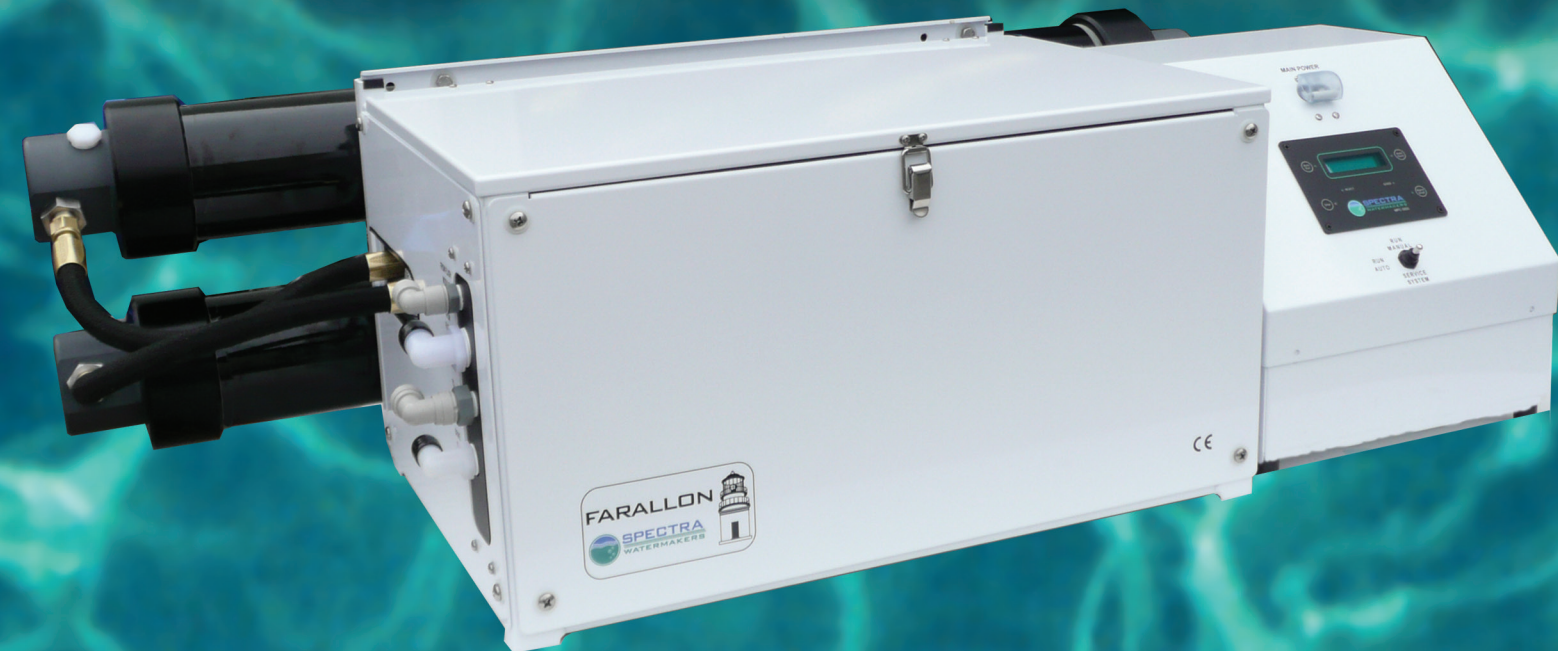
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Distributor

FARALLON 1800/2800



SPECTRA
WATERMAKERS



Farralon 1800 / 2800

Simple to Use, Easy to Install, Long Reliable Service

Spectra Watermakers' Farralon series, like the proven Newport MKII series, are the most technically advanced marine desalination systems available today. Utilizing the experience gained from over ten years of building the world's most automated and energy efficient watermakers, Spectra has taken a quantum step in developing the next generation in marine desalination systems; the Farralon 1800 and 2800.

Contained in a single enclosure, the Farralon series is more compact than its traditional predecessors, with the option of mounting the membranes and electrical control box directly on the unit or remotely. With the centralized plumbing manifold and limited wiring connections, installation is easier and faster. The Farralon features the revolutionary new "Spectra Pearson Pump™" technology coupled to a completely enclosed, fan cooled, commercial grade motor and control system. The remote mountable electronic control module, has an integrated MPC 5000 control display for touch pad operation at the equipment mounting location, as well as an additional touchpad remote control for one touch operation at any location on the vessel.

The Farralon is engineered for maximum reliability, efficiency, and ease of service. Built with Spectra's proprietary "Spectra Pearson Pump™", the Farralon series has an innovative high pressure pump with integrated energy recovery technology. Just like Spectra's time proven Clark Pump, **The Spectra Pearson Pump™** maintains the proper pressures in the membrane throughout a wide range of ocean temperatures and water conditions without any adjustments or loss of product water output. The composite and super-duplex stainless steel construction is extremely corrosion-resistant and there are no control valves or gauges to adjust during operation. Available in DC or AC configurations, the Farralon can produce 75 to 120 gallons per hour on as little as 9 Watt-Hours per Gallon, with no startup inductive loads or power surge.

The Farralon incorporates multispeed capability that allows operation on high mode for maximum product flow, or low mode for maximum efficiency. This is the ideal feature for onboard power management. Run the system and make lots of water when the engine or generator is running, but when the system is running on batteries, inverter or alternative energy, the Farralon has the capability to drop into low speed mode for reduced energy consumption. No competitive system has this feature!

Everyone is using "green" these days, but Spectra has been building the most energy efficient marine watermakers for 10 years! Our unique reverse osmosis system uses as little as a third of the energy to produce a gallon of water as the competition. That translates into a big help with power management and a lot less fuel consumption. Combine that with easy installation and operation, low maintenance and a worldwide network of factory trained dealers the choice of which watermaker to buy becomes obvious. Even if the green isn't.

The Farralon series comes equipped with Spectra's pioneering MPC-5000 control system. With its accurate instrumentation, enhanced reliability and intuitive control features, the MPC-5000 has quickly become the industry standard controller. With the MPC 5000 just set the desired run time and relax - the MPC 5000 controller will do the rest. All of the control and instrumentation functions are displayed on a panel located on the machine and in a convenient space, such as your navigation station, away from the watermaker. The MPC 5000 displays pre-filter condition, boost pump pressure, membrane pressure, water tank full status (with optional tank switches), product water quality, product flow rate and total system hours. The display can easily be set for either imperial or metric readouts, and with minor adjustments can be programmed to virtually any language. One touch to the MPC 5000 touch pad sets the Farralon in motion. During startup, the reject water is automatically diverted back to the ocean by the controller. The desired amount of water then fills the storage tanks, the system flushes itself and drops into standby mode, ready for the next operation. The MPC-5000 controller can keep the Farralon stored indefinitely, without the use of chemicals, by fresh water flushing every five days as long as needed. Multiple control display panels are standard for even more monitoring convenience. Truly, one touch operation!

The MPC 5000 is fully programmable in the field by the owner or technician without special tools or cumbersome computer connections. With its "mission critical" design, the MPC-5000 is engineered to keep the machine running even in the event of a critical alarm fault. If the MPC 5000 senses a dirty filter or high pressure alarm state, it simply switches to "low" mode and keeps on running.

The Farralon is fitted with an industrial quality product water diversion valve equipped with a manual bypass in the event of an electrical fault. The Farralon also has a manual override switch in the event of a control failure.

The Farralon can be mounted in a variety of configurations to meet the needs of almost any vessel. Designed with easy installation in mind the system is pre-plumbed and pre-wired to save time and installation costs. All Spectra systems come with a complete installation kit adding value and saving additional time in parts procurement.

The **Spectra Pearson Pump™** is a breakthrough evolution and enhancement of reciprocating pump design. This unique high pressure pumping system combines the high pressure feed pump and brine stream energy recovery into a single unit.

The "Energy Recovery" feature of **The Spectra Pearson Pump™** takes the energy entrained in the brine reject stream from the RO membranes and recaptures up to 80%, dramatically increasing the overall efficiency and bringing energy requirements down to an impressive 9-13 Watt Hours per Gallon (2.6 KWH per Cubic Meter), a major improvement for shipboard water desalination.

The pump head is manufactured from engineered composites and super-duplex stainless steel for extreme corrosion resistance and the innovative oil filtration systems allows for long maintenance intervals.

