



SPECTRA
WATERMACHINES™

Newport Series

AquaFlex System



NEWPORT 1000
1000 gal/day Watermachine



NEWPORT 700
700 gal/day Watermachine



NEWPORT 400
400 gal/day Watermachine

Newport Series AQUA FLEX SYSTEM

Easy to Use, Easy to Install and Long Reliable Service

Spectra's **Newport Aqua Flex Systems** are an incredible value. The Newport features simplified plug and play installation, flexible mounting options, and ease of operation.

The **MPC 3000 electronic controller** and a wide range of operating voltages are the key to the unique Newport Aqua Flex System. Designed with easy installation in mind for the professional installer as well as the do-it-yourself boat owner, system modules are pre-plumbed and pre-wired to save time and money. The Newport System can be mounted in a number of different configurations to meet the needs of almost any vessel while the feed water pump module may be mounted on a bulkhead or on a shelf either vertically or horizontally. The Spectra High-Pressure Clark Pump Intensifier and membrane module are integrated into a single compact assembly for ease of installation.

Using the unique Spectra High-Pressure Clark Pump Intensifier technology, Spectra Watermakers has developed a module that is ultra quiet and produces 400 gallons, 700 gallons, or 1000 gallons of water per day using a 1/3 or 3/4 horsepower motor respectively. Other watermaker systems require 3 to 5 horsepower and two feed water pumps to produce the same amount of water.

New Spectra Technology

Along with its superior efficiency the Spectra High-Pressure Clark Pump Intensifier 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 construction is corrosion resistant for superior reliability. No more trips to the engine room to adjust the watermaker. In fact, there are no flow control valves, pressure or flow gauges to adjust. With the MPC-3000 Electronic Controller, just set the desired run time and forget it. The MPC-3000 controller will do the rest.

MPC-3000 Controller

Simple one button operation

All Newport functions are displayed in a 5.25" x 3.75" control display panel located in a convenient space of your choosing away from the watermaker. Multiple control display panels can be added for even more monitoring convenience. The electrical control box has a built-in manual override so the watermaker also works without the MPC-3000 electronic control.

Just set it and forget it!

MPC-3000 displays the pre-filter condition, feed water pressure, water tank full status (with optional tank switch), product water quality, flow rate and total system hours. One touch to the MPC-3000 touch pad sets the Newport in motion. Reject water is automatically diverted back to the ocean by the MPC-3000 controller; the desired amount of water fills the storage tanks, the system flushes itself clean and shuts itself off. You can set the controller to keep your Newport in a fresh water storage state for as long as you like.

Leaving the vessel for a while?

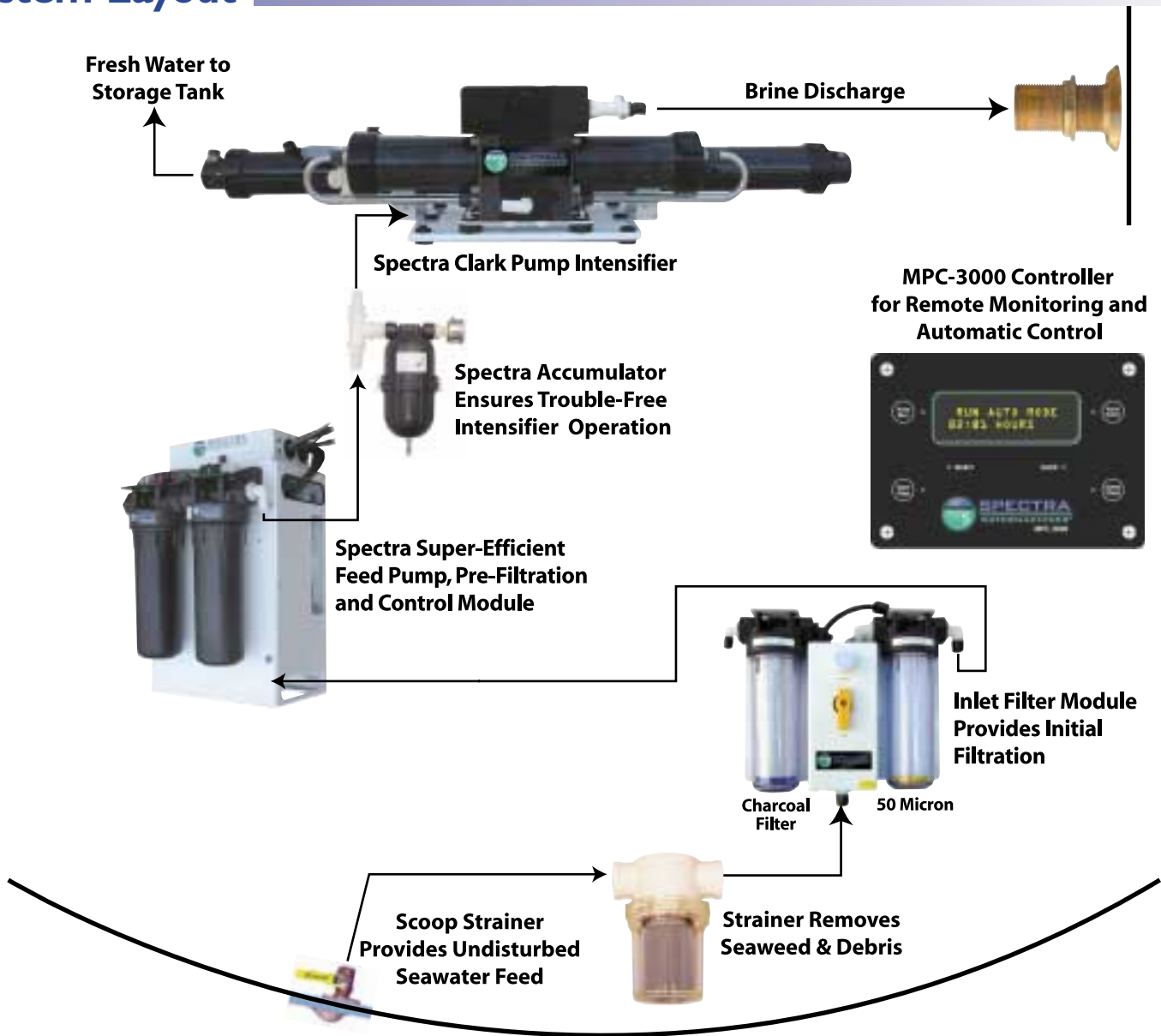
Just press the **Auto-Store** button and the MPC-3000 controller will do an automatic flush every 5 days. No more worries about messy storage chemicals. And when you return to your vessel your system is ready to start up and go.

Z-Brane™ keeps your system clean without chemicals. Top off your Spectra System with the new Z-Brane™. This revolutionary technology keeps your Newport clean and free of bio-fouling and scaling. Cleaning with chemicals substantially shortens the usable life of reverse osmosis membranes. The Z-Brane™ eliminates the need for harsh chemicals used to clean and store your watermaker.

Ask your distributor about the Z-Brane™ and Z-Guard™ protection systems.

For more information ask your distributor or call 415 526-2780

System Layout

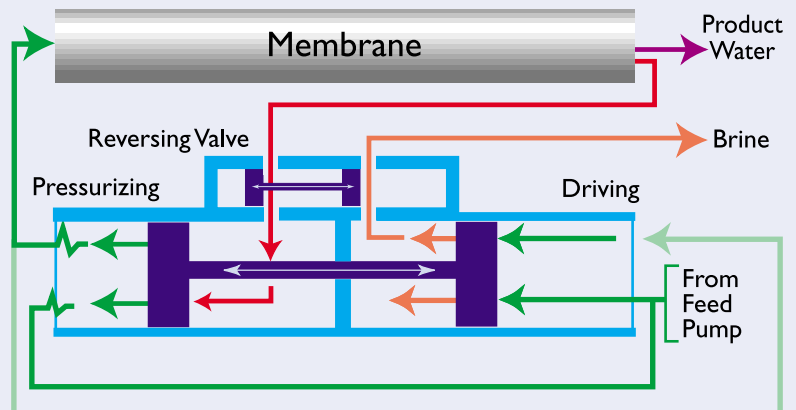


Spectra's Exclusive Intensifier – *Quiet, Efficient, Reliable*

Spectra's Exclusive Two Stage Intensifier System

Revolutionary Watermaking Development

In 1997 Spectra pioneered a new and highly efficient watermaker system. The Spectra Intensifier reduces energy consumption by as much as 75% over conventional systems. Units are constructed of modern composites and engineered plastics to deliver many years of quiet, reliable service. Spectra has tens of thousands of hours of field experience and a worldwide service network.



Continued on reverse side

Newport Series AquaFlex System Specifications

Rated Capacity

Newport 400 GPD (1500 LPD) 17 GPH (64 LPH) • **Newport 700** GPD (2600 LPD) 29 GPH (109 LPH)
Newport 1000 GPD (3700 LPD) 41 GPH (155 LPH)

(Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM Dissolved Solids +/-15%

Power Requirements

Newport 400 Current Draw 12VDC, 24 Amps, 650 Watts/AC

Newport 400 Current Draw 24VDC, 12 Amps, 650 Watts/AC

Newport 700 Current Draw 24VDC, 24 Amps, 750 Watts/AC

Newport 1000 Current Draw 24VDC, 24 Amps, 750 Watts/AC

Watt/Hr per Gal. (DC System) 18 Watt hours per Gal.

Start-up Power (watts) AC Systems 1000 • Inverter requirements are 1000 Watts or better

Note: All AC Systems use Soft Start VFD Drives

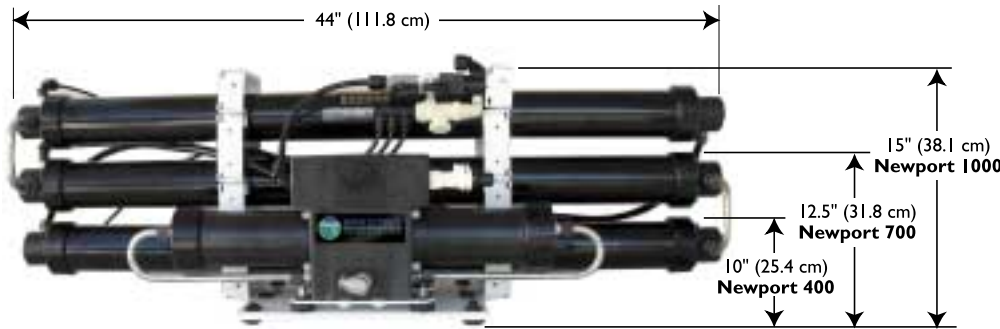
Dry Weight

Newport 400 76 Lbs (34.55 kg)

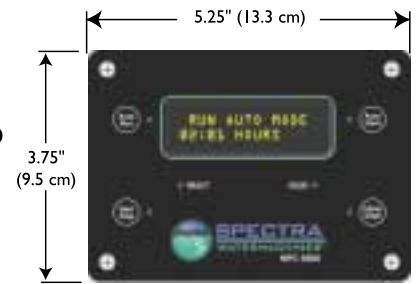
Newport 700 93 Lbs (42.27 kg)

Newport 1000 109 Lbs (49.55 kg)

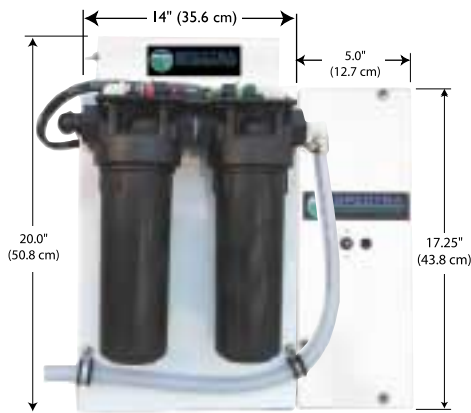
} Add 21 lbs (9.5 kg) for all AC Systems



Depth = 12" (30.5 cm)
Spectra Clark Pump Intensifier



Depth = 1.625" (4.2 cm)
MPC 3000 Controller



Depth = 12.5" (31.8 cm)
Pump and Control Module



Depth = 6" (15.3 cm)
Inlet Filter Module

*Shown with Removable AC Enclosure for Newport 400, 700 & 1000 also Newport DC 700 and 1000 systems



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 WATERMACHINES™

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