

Newport

MKII & Newport

MKII

Rated Capacity

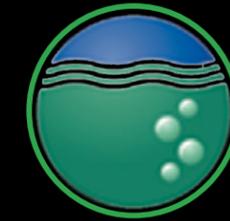
Newport 700 MKII GPD (2600 LPD) 29 GPH (110 LPH)
Newport 1000 MKII GPD (3700 LPD) 41 GPH (156 LPH)
 (Rated at 77°F (25°C) Seawater Temperature at 35,000 PPM Dissolved Solids +/-15%)

Power Requirements

Newport 700 MKII Current Draw 24VDC, 24 Amps, 700 Watts/AC
Newport 1000 MKII Current Draw 24VDC, 28 Amps, 750 Watts/AC
 Watt/Hr per Gal. (DC System) 18 Watt hours per Gal.
 Note: All AC Systems use Soft Start VFD Drives

System Weight (dry)
 NP700 MKII - 152 lbs.
 NP1000 MKII - 157 lbs.
 Add 18 lbs. for A.C. Systems

NEWPORT 700/1000



SPECTRA WATERMAKERS

MKII



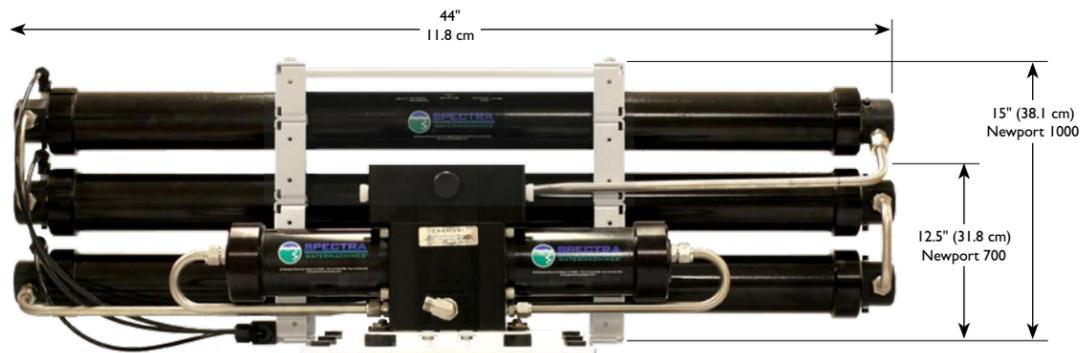
Depth = 1.625" (13.3 cm)
MPC-5000 Remote Controller



Depth = 6" (15.24 cm)
Carbon Filter



Depth = 13.5" (31.75 cm)
Feed Pump Module



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



Depth = 7.75" (19.65 cm)
Boost Pump Module



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Distributor

www.enernaval.es

to Gallons of Delicious Fresh Water per Day

Newport MKII & MKII

Simple to Use, Easy to Install, Long Reliable Service

Spectra Watermakers' **Newport 700** and **1000 MKII**, like the proven 400 MKII, are the most technically advanced marine desalination systems available today. Utilizing the experience gained from over eight years of building the world's most automated and energy efficient watermakers, Spectra has again taken a quantum step in developing the next generation in the Newport series, the Newport 700 and 1000 MKII.

The MKII is designed and engineered for maximum reliability, efficiency, and ease of service. Spectra's proprietary "Clark Pump" high pressure 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 and there are no flow control valves, pressure or flow gauges to adjust. Available in all voltages. These are the most versatile and quiet watermakers you can buy.

Newport 700/1000 MKII Innovations in Watermaking

The **MKII** is more compact than its predecessor because the 50 micron filter has been eliminated in favor of a small filtration boost pump. This arrangement allows the system to be mounted in a wider variety of locations and enhances the filtration to the feed pump module. Installation is also easier and faster because the MKII has less wiring and a centralized plumbing manifold. The MKII features the same stalwart Spectra MagDrive™ feed pump as the Newport MagDrive, coupled to a totally enclosed, fan cooled, heavy duty motor and control system. The feed pump and control module has an integrated MPC 5000 control display for touch pad operation at the equipment mounting location, as well as a convenient remote display.

The Newport MKII incorporates a multispeed capability that allows machine 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 or alternative energy, the MKII has the capability to drop into the lower speed mode for lower current and higher efficiency operation. No competitive system has this feature!

A Revolutionary Backwash System

Yet another innovative feature of the Newport MKII is that it has been designed with a true pre-filter backwash system. The MKII backwash system actually creates a freshwater flow backward through the prefilters and strainer. Most systems that flush with fresh water only have flow in one direction, trapping material in the filters. The MKII will produce flow in both directions, backward through the filters and forward to flush the Clark Pump and membrane. Backwashing the filters with fresh water helps prevent anaerobic bacteria formation. This not only eliminates the odors that can develop in conventional freshwater flushing, it also keeps filters cleaner and extends overall filter life.

MPC 5000 Controller and Monitor

Spectra's most recent major technological advancement in control systems is the new MPC 5000. The MPC 5000 has all of the features of the well known industry standard MPC 3000, but with more accurate instrumentation, more features, and enhanced reliability. With the MPC 5000 just set the desired run time and forget it - 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 area away from the watermaker. The MPC 5000 displays pre-filter condition, feed water pressure, water tank full status (with optional tank switch), product water quality, product flow rate and total system hours. The display can be set for either imperial or metric readouts. One touch to the MPC 5000 touch pad sets the Newport MKII in motion. During startup, the reject water is automatically diverted back to the ocean by the controller. Then the desired amount of water fills the storage tanks, the system backwashes itself clean and shuts itself off. The MPC 5000 controller can keep the MKII in a fresh water storage state by automatically backwashing every five days as long as needed. Two control display panels are standard for even more monitoring convenience. Just set it and forget it!

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

The MKII is fitted with an industrial high quality product water diversion valve that has a manual bypass in case of an electrical fault. The system also has a full manual override in the rare event of a total control failure.

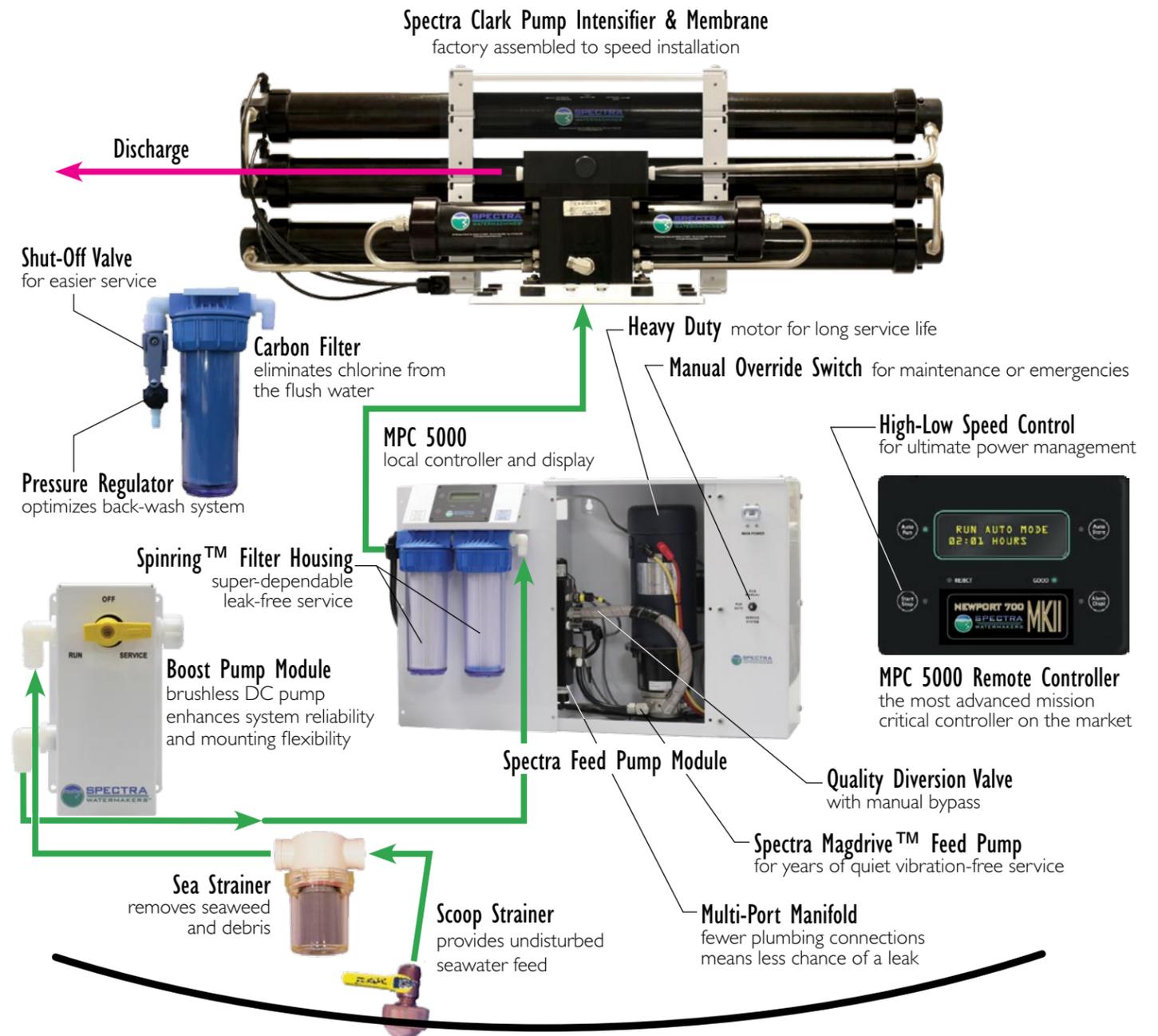
Dynamic Modular Design Installs Easily

The Newport 700 and 1000 MKII can be mounted in a variety of configurations to meet the needs of almost any vessel. Designed with easy installation in mind, the system modules are 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.

Z-Brane™ Keeps Your 700 or 1000 MKII Clean

Z-Brane™ keeps your system clean without chemicals. Complete the Newport 700 or 1000 MKII with a Z-Brane™. The revolutionary Z-Brane™ technology keeps the MKII 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.

Anatomy of the World's Best Desalinator



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.

