

MPC-3000 WATERMAKER CONTROL SYSTEM

One Button Operation for Total Control



Add one touch control and monitoring to any Spectra Watermaker.

One touch of the auto run button on the MPC-3000 touch pad sets the watermaker in motion. You tell the controller how long to run, and the MPC-3000 controller produces the desired amount of water, or fills your water tanks full, then flushes the watermaker system with fresh water and shuts off. Just set it and forget it!

If you don't use your watermaker for a while, the controller will flush your watermaker system every five days with fresh water keeping your watermaker in a fresh water storage state for as long as you like. Just set it and forget it!

No need to go to the engine room to adjust the watermaker or see if the pre-filters need changing. The MPC-3000 controller monitors all functions of the watermaker. The display will show time remaining for requested water production, feed

water pressure, pre-filter condition (optional), water tank full status (with optional tank switch), product water quality, product water flow rate to tanks, and total system hours run.

All functions are in one small 5.25" x 3.75" control display panel located in a convenient space away from the watermaker. Interfacing the display panel with the control box is done by six conductor phone cable and jacks. Each control display panel has terminals on the back to accommodate an alarm annunciator. Multiple control display panels, up to three, can be added for even more convenience.

For Spectra watermakers with two feed water pumps, a high/low button is used to run the watermaker in high mode (two feed water pumps running) or low mode for one feed water pump running.

An optional automatic priming system can be added for systems that may have a potential of drawing air into the seawater intake. If the controller does not reach operating pressure within

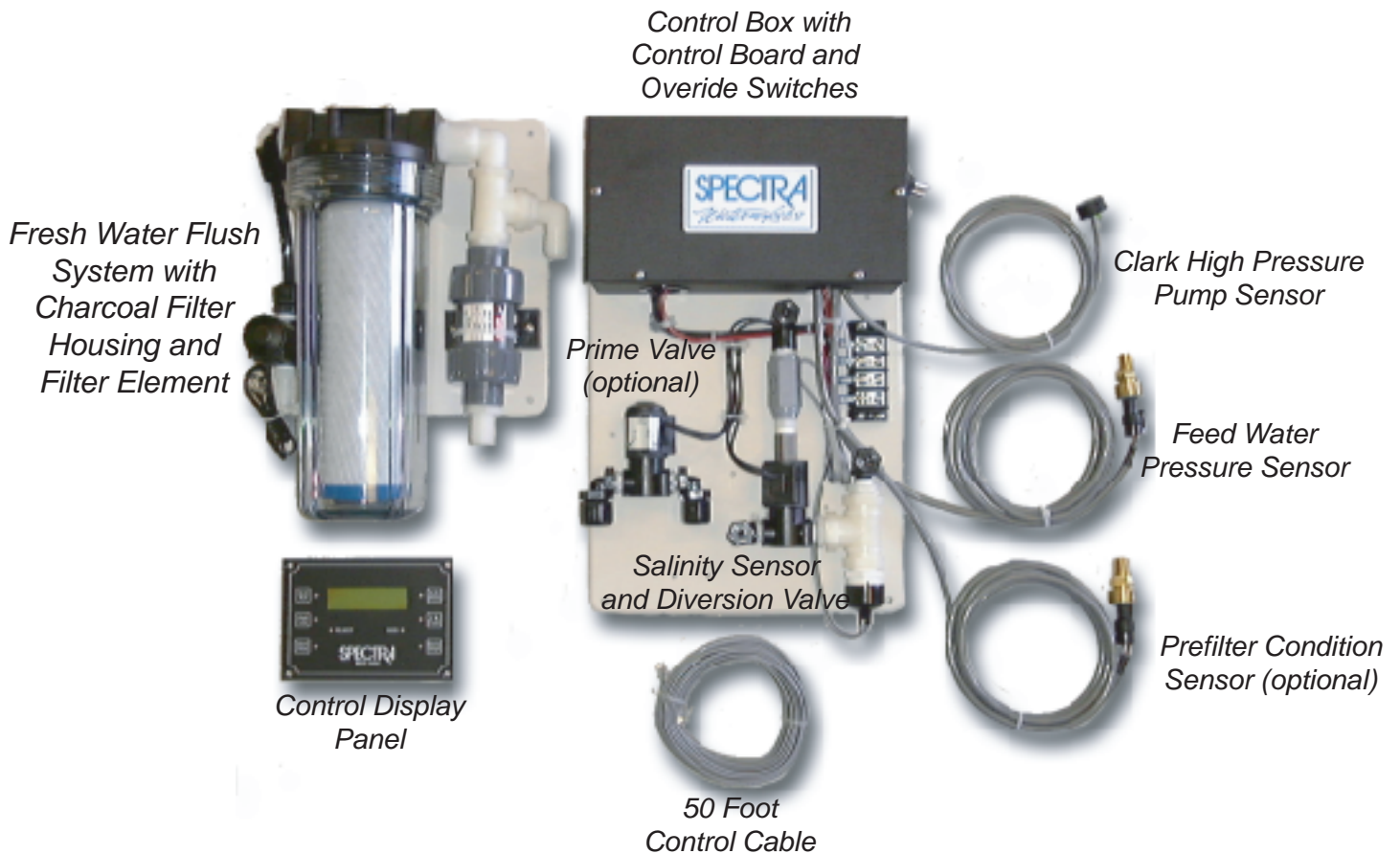
The electrical control box has built-in manual override switches so the watermaker system can work without the MPC-3000 electronic controls. The switches can also be used for servicing the watermaker.

Two MPC-3000 Controller Systems To Choose From

The **BASIC MPC-3000** Controller System is used as an option with new Spectra watermaker systems, or existing Spectra watermaker systems without any automatic salinity control and or automatic back flush systems. This would include all 180 modular systems, 200-C and 380-C modular systems, Santa Cruz systems and all future Spectra watermaker systems. The BASIC SYSTEM includes: control box with controller board and override switches, one control display panel, 50 foot control cable, feed water pressure sensor, fresh water flush system with charcoal filter housing and filter element, salinity sensor, product diversion valve, Clark High Pressure Pump sensor (requires Clark pump retrofit for existing watermaker systems), alarm annunciator, installation and operations manual.

The **RETROFIT MPC-3000** Controller System is used with all existing Spectra watermakers that have automatic back-flush and or automatic salinity control. This would include all 180 modular systems, 200-C and 380-C modular systems, Santa Cruz systems, and Gulfstream 400 systems. The RETROFIT SYSTEM includes: control box with controller board and override switches, one control display panel, 50 foot control cable, feed water pressure sensor, salinity sensor, product diversion valve, Clark High Pressure Pump sensor (requires Clark pump end-block replacement), alarm annunciator, installation and operations manual.

Basic MPC-3000 Controller System with Options



NOTES:

The MPC-3000 controller pictured above has a factory pre-assembled option. See price pages.

The Retrofit MPC-3000 Controller System does not include the fresh water flush system.

The pre-filter condition sensor option is required for pre-filter condition display and alarm functions.

The prime valve is used for the automatic priming feature of the controller.

For MPC-3000 controllers that will be added to existing Spectra Watermakers, the Clark high-pressure pump needs to be modified. See an authorized Spectra distributor for exchange procedures.

Options for MPC-3000 Controller Systems

Control Display Panel (up to a total of 3 per system)

Pre-filter Condition Sensor (for one or two pre-filter systems)

Self Priming Valve

Factory Mounted MPC-3000 System on 10" x 15.5" Board

Water Tank Sensor Switch, Side Mount (the MPC-3000 controller can accept up to two tank sensors)

Water Tank Sensor Switch, Top Mount (the MPC-3000 controller can accept up to two tank sensors)

50 Foot Control Cable

Alarm Annunciator (each control display panel and the control box will accept an annunciator)



MPC-3000 Controller Operation and Displays

Auto Run

RUN AUTO MODE
6.0 HOURS

Want your watermaker to run for three hours and then turn itself off? Just push the Auto Run button three times, that's it! The machine will start, run for three hours, do an automatic fresh water flush, and then turn itself off. Or, with a single push of the Start Stop button, the watermaker will simply run until the water tanks are full, automatically shut down and display "TANKS FULL".

Start Stop

GPH PRODUCT
20 ██████████ 50

By pushing the Alarm Disp button, you will toggle through five status displays. Product water going to your tanks, prefilter condition, feed water pressure, salinity of the product water and total hours the system has run.

SALINITY
LOW ██████████ HI

The quality of the product water is continuously monitored and displayed in an easy to read bar graph, as well as status LED's on the control panel. Reject water is automatically diverted back to the ocean by the MPC-3000 controller.

FEED WATER PSI
100 ██████████ 250

The system operating pressure is also continuously monitored. The MPC-3000 controller will automatically restart the system up to 3 times after an air lock is detected, or will shut down and alarm in cases of over/under pressure. You can turn the system on and forget it!

PREFILTER
Good ██████████ Replace

The condition of the dual prefilters can be displayed, and an alarm will remind the operator when it is time to clean or change cartridges. All guesswork about prefilter servicing is eliminated! In cases of extreme filter clogging, the MPC-3000 will turn the system off and sound an alarm.

HOURS TOTAL
000470

The system run time can be displayed, as an aid to planning service or logging system usage patterns.

FLUSH
INTERVAL 5 DAYS

By holding the Alarm Disp button, the displays will change from English to Metric readings.

Alarm Disp

Leaving the vessel for a while? Just press and hold the FW Flush button, and the MPC-3000 controller will do an automatic flush every 5 days for you! No more worries about messy storage chemicals, etc. And when you return to your cruise, your system is ready to just start and go!

FW Flush

Authorized Dealer

