

MPC-9 SYSTEM STALLED – OVERHEAT

All Newport series watermakers built after October 2002 are equipped with an adjustable feed pump speed controller. The speed controller is used to regulate the different flow rates in the water maker during flush, service and run modes. The speed control is mounted inside the feed pump module. AC and DC motors have different speed controls, but both types are equipped with internal overheat protection circuitry.

If the speed control detects an overheat condition the feed pump will stop. When the feed pump stops the system will stop producing water. The MPC control will detect this and attempt to restart the system twice. After failing to restart, the Display will alarm SYSTEM STALLED.

The ACTech AC speed controls have an LCD display that is used to adjust the controller and also displays fault messages. If the ACTech controller has shut down on overheat it will read “AF.” The ACTech is set up in such a way that alarms are cleared by issuing a stop command to the control. Because the MPC issues a stop command when it alarms SYSTEM STALLED, the alarm condition will clear as soon as the control cools off.

The DC control does not have a display and will not give any indication of overheat shutdown.

If the watermaker is installed in a machinery space or other hot location, and SYSTEM STALLED Alarms are occurring after the watermaker has been running normally for a considerable period of time, with no abnormal pressure or flow conditions, overheat should be suspected. This can be determined by operating the system manually using the “Run Manual” Switch. In Run Manual Mode the speed control is operated directly, and the MPC is taken completely out of the circuit. If the system runs normally for a while on “Run Manual” and then the feed pump stops, this indicates that overheating has been the problem.

Over heating problems can be resolved by moving the feed pump module to a cooler location. Spectra Watermakers must be installed in a ventilated space with maximum ambient temperatures below 120 degrees F. If this is not possible contact the factory for additional assistance.

AC powered watermakers use ACTech model SCM speed controls; part no. EL-MTR-SPCAC110 for 110 volts, and EL-MTR-SPCAC220 for 220 volt units. DC powered watermakers use a Winland Electronics control; p/n EL-MTR-SPCDC for 24 volts and EL-MTR-SPCDC12 for 12 volts.

05/09/06