

For the first Spectra Watermakers/Katadyn Desalination technical bulletin of 2019, we want to inform you of a water pressure issue to be aware of and detail the new part numbers and ordering procedures for the Z-Ion system.

**Maximum Pressure for Fresh Water Flush Solenoid.**


We have learned that there are some boats that have fresh water pumps that exceed the maximum pressure rating for the fresh water flush solenoids we use. If the fresh water pump exceeds 50 psi, the valve may leak and drain your tank. We have modified the installation note in our manuals to say; **“Flush water from ship’s pressure water systems 20 psi (1.3 Bar) minimum and 50 psi (3.5 Bar) maximum”**. While this has only come up a few times in the past, we have had customers loose full tanks of water overboard.

**Z-Ion Membrane Protection System**

We are proud to announce that the Z-Ion system is now available for purchase worldwide! This revolutionary adaptation of an ancient technology helps protect the RO membrane and filters on your Spectra Watermaker from biological growth. Please see the attached documents for additional information on the Z-Ion.

**Ordering and Installing the Z-Ion**

Historically, the Z-Ion accessory has been ordered in tandem with a system. Previously you would order Z-ION-CT Z-ION FOR CATALINA SYSTEM for a new Catalina or KIT-Z-ION-CT Z-ION CATALINA RETROFIT KIT to retrofit an existing Catalina. Because of this, we had 10 Z-Ion part numbers. We have trimmed these 10 parts down to 2 Z-Ion options to choose from plus 2 additional parts that might be needed to retrofit older systems. Please use only the part numbers below when ordering the Z-Ion. **The outdated part numbers will not be used.**

Z-Ion Protection System for All Z-Ion Ready Systems / Z-Ion Protection System Retrofit Kit for Existing MkII Systems 		10 - 40 VDC
ZION-MAN	<b>FOR MANUAL SYSTEMS</b> Ventura 150/200 and Cape Horn Extreme (Replaces Z-ION-VT and KIT-Z-ION-VT)	
ZION-AUTO	<b>FOR AUTOMATED SYSTEMS</b> Ventura 150/200 MPC+Connect, Catalina 340Z+340c, Newport MKII and Newport Series (Replaces Z-ION-NP, Z-ION-CT, Z-ION-VTMPC, KIT-Z-ION-NP, KIT-Z-ION-CT, KIT-Z-ION-VTMPC)	
SUB-ZION-MPCBCA	Z-Ion Plug Assembly	
KIT-ZION-PLUMB	Pre-2009 Z-ION Plumbing Kit (Necessary for some pre-2009 systems. Systems manufactured before 2009 may have a different style flush bowl and for these systems, a Z-Ion Plumbing kit must be purchased. It consists of a mounting bracket, on/off valve, flow regulator and 1/2" hose barbs that connect to the Z-Ion bowl)	

- a. **ZION-AUTO Z-ION FOR AUTO SYSTEM**
  - i. This is the only part you need to serve an system with an automated controller manufactured since 2015. You simply need to replace the charcoal filter bowl with the Z-Ion version, mount the control box, and plug in the cables (color coded, green to green.)



- b. **SUB-ZION-MPCBCA Z-Ion Plug Assembly**
  - i. Necessary for all pre-2015 systems.
  - ii. In 2015 all systems were released as Z-Ion ready. This means that they were built with a cable that can be connected to the Z-Ion if it was ever ordered. If the Z-Ion was not ordered the cable was unused and usually coiled close to the control box. This cable is color coded with a green band. This part is that cable by itself. This part has instructions and ring terminals so the customer can connect it to their MPC board and easily make their system Z-Ion ready.



- c. **ZION-MAN Z-Ion for Manual System**
  - i. This will be replacing Z-ion kits which serve Cape Horns and Ventura Deluxe models. This is practically the same as it has been. Set up is very similar to the Z-Ion Auto, replace the charcoal filter bowl with the Z-Ion version, mount the control box, connect power to terminal block.
  - ii. If you have a customer who is interested in the Z-Ion for a non-Spectra system this would be the option for them.



- d. **KIT-ZION-PLUMB Pre-2009 Z-Ion Plumbing Kit**
  - i. Also required for systems without 3-piece charcoal filter (some pre-2009 systems)
  - ii. Some systems manufactured before 2009 may have a different style flush bowl. For these systems, along with non-Spectra watermakers being fitted with a Z-Ion, customers can purchase the Z-Ion Plumbing kit. This has a mounting bracket, on/off valve, flow regulator and 1/2" hose barbs that connect to the Z-Ion bowl. With this the Z-Ion can be put anywhere upstream of the customer's current charcoal filter.

