

OWNERS MANUAL

SORBMAX[™] PRO

Whole House Water Conditioner

With Triton Electronic Control Valve

*Activate your warranty by registering
your product at watertech.com or
call 469-521-1180.*



SCAN ME

WATER  **TECH**[™]
FILTRATION SYSTEMS



DEALER CONTACT AND PRODUCT INFORMATION

Dealer Name: _____

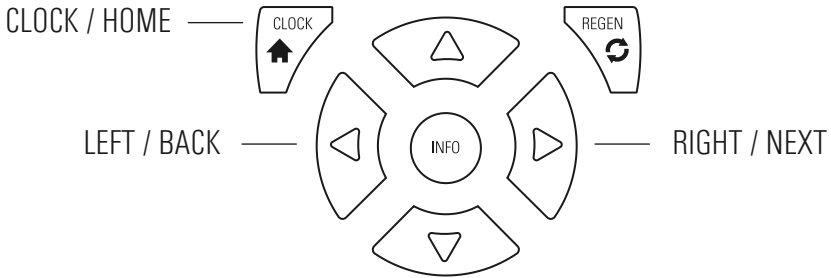
Dealer Phone Number: _____ Installation Date: _____

Model Number: _____ Serial Number: _____

DO'S AND DONT'S

- ***DO ALWAYS*** check your state and local regulations regarding plumbing and electrical connections and placement of the system before installation.
- ***DO*** install the system into the existing cold water supply line before the water heater and before any cold water outlet that requires treatment.
- ***DO*** bypass your system in the event of a water or plumbing related emergency.
- ***DO*** contact your WaterTech Dealer if you have any questions about the operation of your system or water quality issues.
- ***DO*** enjoy all the benefits of your treated water!
- ***DO NOT*** hang or stack items on your equipment. This may cause an equipment imbalance or put a strain on plumbing and electrical connections.
- ***DO NOT*** disconnect or remove any part of the plumbing or electrical cord.
- ***DO NOT*** attempt to reprogram your system. Your system has been factory or field programmed specifically for your application.
- ***DO NOT*** allow your system and attached plumbing to be exposed to extreme temperatures (below 40° F or above 110° F).
- ***DO NOT*** use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

SETTING THE VALVE



SET CLOCK

- Press CLOCK one time.
- The hours will begin to flash.
- Use \triangle or ∇ to adjust the hour. The hours will cycle through AM and PM.
- Once the hour is set correctly, press \triangleright one time to set the minutes.
- Once you see the minutes flashing, use \triangle or ∇ to adjust the minutes.
- Once time is set, press CLOCK.

SETTING REGENERATION TIME

- Enter the Installer Screens by pressing and holding \triangleright + \triangle simultaneously for for 3-5 seconds.
- Once the display changes, press \triangleright until you reach the "Regeneration Time" display.
- When on the "Regeneration Time" display, use \triangle or ∇ to adjust the hour. The hours will cycle through AM and PM.
- Press \triangleright to move the cursor to adjust the minutes. Use \triangle or ∇ to adjust the minutes.
- Advance to the next Installer Screen by pressing \triangleright OR you can return to the home display by pressing \uparrow

ERROR MESSAGE

Error

- SOFT RESET (to reset "ERROR" code)
Press and hold \triangleright + REGEN simultaneously for 3-5 seconds until valve resets.
- If the word "ERROR" persists, after a soft reset, and a number is alternately flashing on the display, contact an authorized WaterTech dealer for service help. This indicates that the valve was not able to function properly. This is a rarely encountered malfunction.

STARTING UP THE SYSTEM

FLUSHING AND CONDITIONING



Did you connect the drain line securely to the valve?

STEP 1. Make sure the system is in the "Bypass" position before turning the main water back on. See page 9.

Make sure the drain line provided is connected securely to the control valve and is properly located over a drain.

Make sure the control valve is plugged into an operating outlet with the correct voltage and is properly grounded.

STEP 2. Press and hold the REGEN button on the Triton Valve until you hear the motor engage. This will initiate an immediate manual regeneration of the system. Turn the bypass valve to "diagnostic" mode position (see figure 3 on page 9). The screen will indicate "BACKWASH". You should hear water entering the system. Wait a few minutes to ensure the control valve can draw water and does not leak. Let the tank fill and begin to push water out the drainline. Allow the system to backwash until the water going to drain is clear. If everything is working, press and release the REGEN button. You will hear the motor engage and move the piston into the "RINSE" position. Again, check for leaks anywhere on the tank/valve or connections. Allow valve to continue pushing water to the drainline until the water coming out of drainline is clear. After a few minutes, you will hear the motor engage and move the piston into the "SERVICE" position. If the water coming out of the drainline is not clear by the end of the above cycles, repeat Step 2 above with bypass in "diagnostic" position.

STEP 3. If water to drain is completely clear, turn bypass valve to "normal" operation position (see figure 1 on page 9). Let the water in the taps of the building run for several minutes to purge the unconditioned water out of the pipes.

YOUR SYSTEM IS READY FOR OPERATION

MAINTENANCE

With minimal care, your system is designed to serve you for many years. While constant attention to your system is not necessary, the following suggestions will ensure your system's performance and your convenience and satisfaction.

MAINTENANCE

Your system should be serviced every 1-2 years (or as needed) by a factory authorized service technician to ensure that all components and overall system are functioning properly.

SERVICE ISSUES

If the Triton control valve system display does not appear, check to make sure the system is plugged in and that there is power at the receptacle. If the unit does not respond with power present, contact your WaterTech Dealer.

The manual bypass valve (which is located at the rear of the unit) is designed to isolate the unit from the plumbing for servicing or to shut off the water supply to the unit in the event of a leak at the conditioner. Consult the operating diagram on page 9 of this manual for instructions to position your bypass valve for either service or isolation.

If you experience an extended power outage (over an hour in length), you may need to reset the time of day on the Triton control valve. The internal battery is designed to retain the time of day for up to 24 hours. There is no need to reset any other part of the program as this is kept in non-volatile, permanent memory. Consult the programming instructions on page 2 of this manual for instructions to set the electronic time clock of the Triton control valve.

IF YOU EXPERIENCE A CHANGE IN WATER QUALITY:

- 1.** Check to see if your system has power.
- 2.** Check to see if your system is in bypass (see Bypass Illustrations on page 9)
- 3.** Check to see if the drain line (see Drain Line Connection on page 7) has a kink that may be restricting flow during backwash. Correct, if necessary, or contact your WaterTech Dealer.
- 4.** Place system in manual regeneration.
- 5.** Contact your local WaterTech Dealer

DISPLAYS & PROGRAMMING INSTRUCTIONS

GENERAL OPERATION: When the system is in operation, the TIME display will be shown. The user can view the Days Remaining and Flow Rate displays by pressing INFO once, then pressing the RIGHT button. System operation is not affected by pressing these buttons. DAYS REMAINING is the number of days left before the system goes through a regeneration cycle.

REGENERATION MODE: If the system control has called for an automatic regeneration, REGEN TODAY will flash on the display to indicate that the system will regenerate at the upcoming preset delayed regeneration time. Typically a system is set to regenerate at a time of low water usage. The default preset time is 1:00 am. If there is a demand for water while the system is regenerating, untreated water is available through the automatic internal bypass feature.

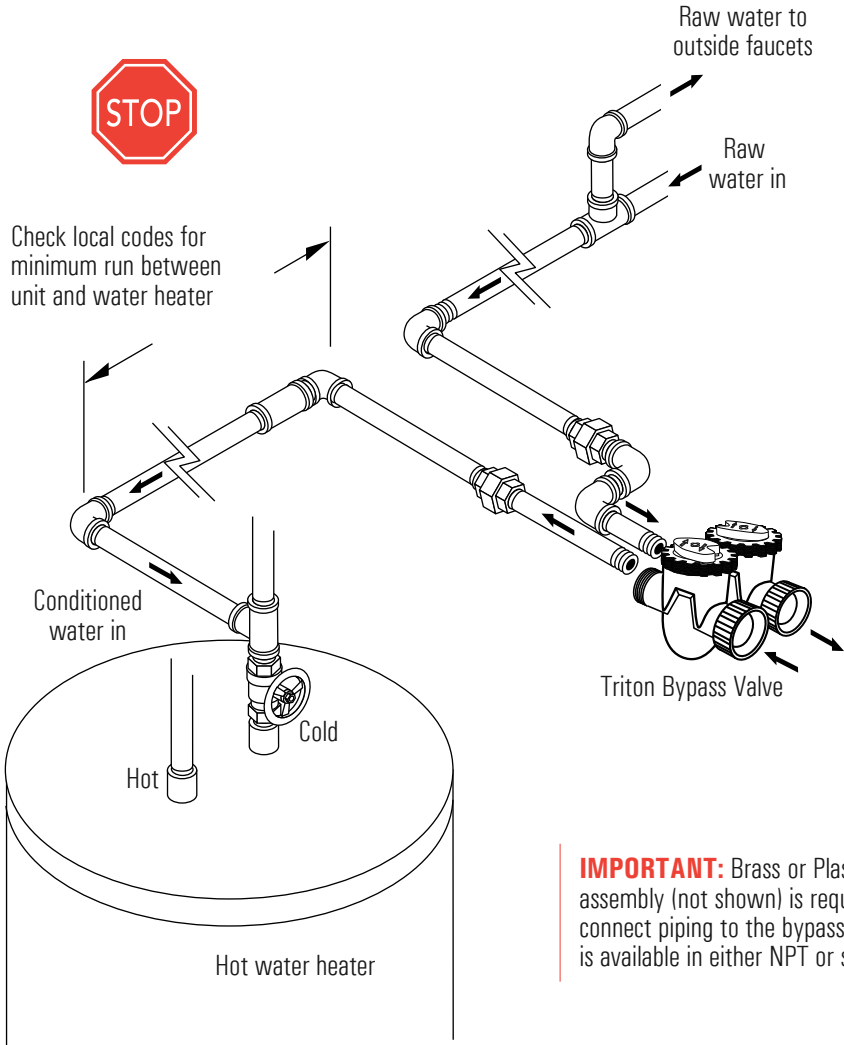
MANUAL REGENERATION: Sometimes there is a need to regenerate the system sooner than the system calls for. This is usually referred to as 'manual regeneration' because it is only started manually. If there is a period of heavy water usage (because of guests or a heavy laundry day, for example), a manual regeneration may be initiated to bring the system to full capacity.

To initiate a manual regeneration immediately, press and hold the REGEN button for four seconds. The system will begin to regenerate immediately. The request cannot be cancelled. Once the control valve begins a regeneration cycle, it can be rapid-advanced through the remainder of the cycles by pressing the REGEN button after the drive motor completes each cycle shift.

When the system begins to regenerate, the display will change to include information about the step of the regeneration process and the time remaining for that step to be completed. The system runs through the steps automatically and will reset itself to provide treated water when the regeneration has been completed.

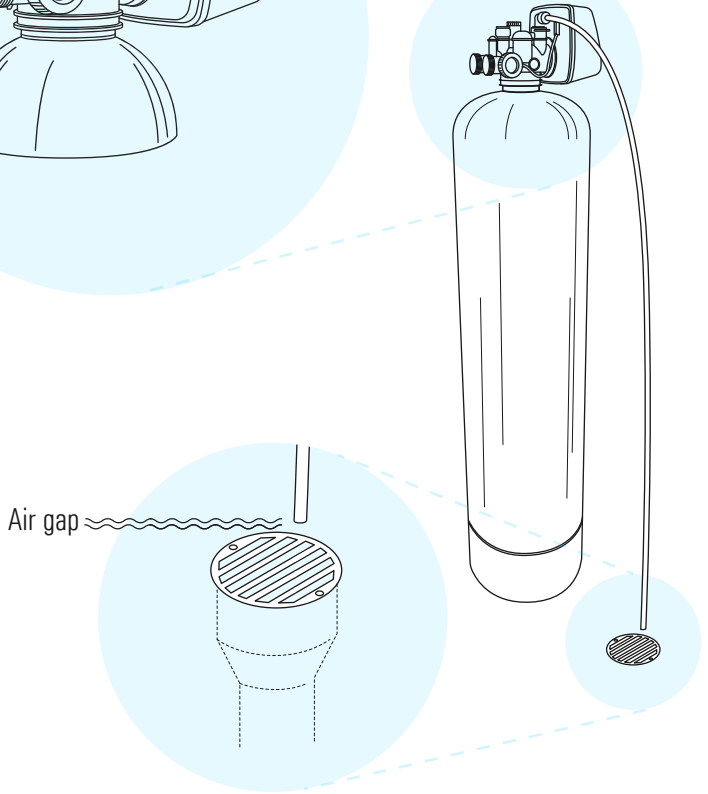
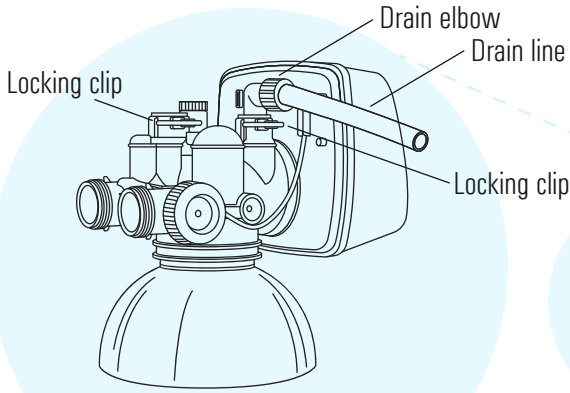
PLUMBING CONNECTION

Typical plumbing installation



IMPORTANT: Brass or Plastic yoke assembly (not shown) is required to connect piping to the bypass valve and is available in either NPT or solvent.

DRAIN LINE CONNECTION



CAUTION: Never connect drain line directly into drain, sewer line or trap. Always allow an air gap of at least 25mm (1 inch) or 2 pipe diameters between the drain line and waste water to prevent the possibility of sewage being back siphoned.

BYPASS VALVE OPERATION

The bypass valve is typically used to isolate the control valve from the plumbing system's water pressure in order to perform control valve repairs or maintenance. The 1" full flow bypass valve incorporates four positions including a diagnostic position that allows service personnel to work on a pressurized system while still providing untreated bypass water to the facility or residence. Its completely non-metallic, all plastic design allows for easy access and serviceability without the need for tools.

The bypass body and rotors are glass-filled Noryl and the nuts and caps are glass-filled polypropylene. All seals are self-lubricating EPDM to help prevent valve seizing after long periods of non-use. Internal o-rings can easily be replaced if service is required.

The bypass consists of two interchangeable plug valves that are operated independently by red arrow-shaped handles. The handles identify the flow direction of the water. The plug valves enable the bypass valve to operate in four positions.

Refer to corresponding Bypass Valve Instructions on the following page.

Figure 1. Normal Operation Position: The inlet and outlet handles point in the direction of flow indicated by the engraved arrows on the control valve. Water flows through the control valve during normal operation and this position also allows the control valve to isolate the media bed during the regeneration cycle.

Figure 2. Bypass Position: The inlet and outlet handles point to the center of the bypass, the control valve is isolated from the water pressure contained in the plumbing system. Untreated water is supplied to the plumbing system.

Figure 3. Diagnostic Position: The inlet handle points in the direction of flow and the outlet handle points to the center of bypass valve, system water pressure is allowed to the control valve and the plumbing system while not allowing water to exit from the control valve to the plumbing.

Figure 4. Shut Off Position: The inlet handle points to the center of the bypass valve and the outlet handle points in the direction of flow, the water is shut off to the plumbing system. If water is available, on the outlet side of the softener, it is an indication of water bypassing the system (i.e. a plumbing connection somewhere in the building bypasses the system).

BYPASS VALVE ILLUSTRATIONS

FIGURE 1.
NORMAL OPERATION

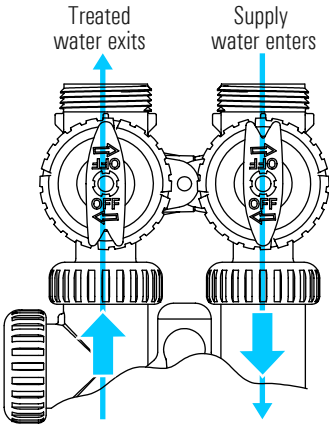


FIGURE 2.
BYPASS OPERATION

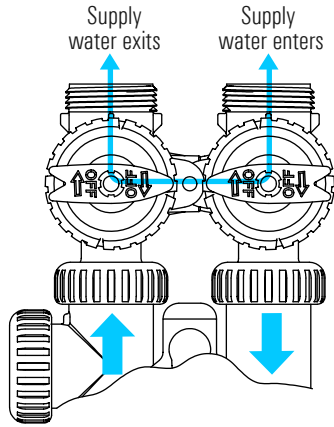


FIGURE 3.
DIAGNOSTIC MODE

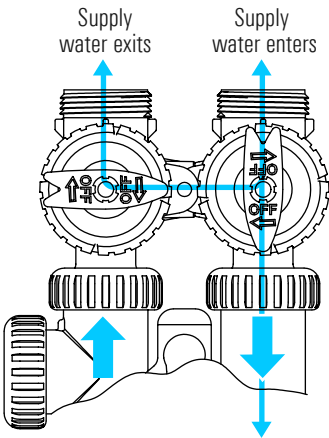
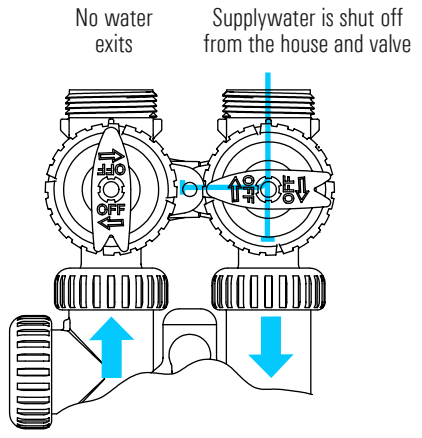


FIGURE 4.
SHUT OFF MODE POSITION



WaterTech Industries Residential

SORBMAX PRO™

5/10 Year Warranty

Applicable to SORBMAX PRO® SERIES

Water Tech Industries (WTI) hereby warrants said equipment, **only to the original purchaser at the original installation location.**

THIS WARRANTY PERIOD BEGINS at the time of initial installation and use. The warranty becomes **valid upon registration of the equipment.**

GENERAL PARAMETERS — This warranty applies only to systems installed on **USA OR CANADIAN residential, municipal (city water) water supplies** that meet US Environmental Protection Agency MCL standards (or similar). SORBMAX PRO® products installed outside these parameters, will have the Standard Product Warranty rather than the Limited Lifetime Warranty applied – see website watertech.com for details.

5-YEAR WARRANTY ON CONTROL VALVE — Your water system has been equipped with the highest quality water conditioning control valve available. If, upon factory inspection, the control valve body or PC board is found to be defective, WaterTech Industries will furnish repair or replacement (at WTI option) of the control valve body and/or the PC board. All internal mechanical components are warranted from manufacturers defect for a **period of five (5) years** from the date of installation.

3-YEAR WARRANTY ON MEDIA — The SORBMAX PRO® has been equipped with high quality water treatment media (certified to NSF Standards). If, upon factory inspection within the warranty period, the media is found to be defective, Water Tech Industries will furnish replacement media. The media warranty does not cover media subjected to water containing greater than 2.0-ppm of free chlorine or chloramines or containing greater than 0.5-ppm total Iron and/or Manganese. Media which has been fouled by iron, manganese, organics (or other contaminants not designed for treatment by the SORBMAX PRO®) is not covered.

EXCLUSIONS AND LIMITATION OF LIABILITY— Water Tech Industries' liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall Water Tech Industries' liability exceed the obligation of repairing or replacing any part that becomes defective under valid warranty coverage as described above. Cosmetic damage that does not affect the process functionality of the equipment is not covered. Water Tech Industries makes every effort to ensure that all illustrations and specifications are correct. However, these do not imply a warranty that the product is merchantable or fit for a particular purpose, or that the product may not vary from the illustrations and specifications.

The warranty contained herein is in lieu of all other warranties, expressed or inferred, including any implied warranty of fitness for a particular purpose. Labor and transportation costs incidental to the delivery or replacement of parts other than WTI factory repairs are not covered under this warranty. In the event of a warranty replacement or repair, WTI will cover the cost of shipping the covered components. This warranty expressly excludes any system which has been damaged by accident, fire, flood, Act of God, abuse, neglect, freezing, excessive temperature (below 40° F or above 110° F.), inappropriate pressure (below 20 psi or above 100 psi), misuse, alteration of product in any way by owner or installing company, product identification tampering, misapplication, installation or operation not consistent with WTI instructions and installation outside of applicable plumbing codes and local regulations. Furthermore, this warranty expressly excludes any system which has been out of service for more than 90 days continuously. Fulfillment of the warranty coverage by WTI is contingent on proper execution of the procedures set forth in the WTI Warranty RGA policy. No person or representative is authorized to assume for Water Tech Industries any liability on its behalf, or in its name, except to refer the purchaser to this warranty. This warranty gives you specific legal rights, you may also have other rights which vary from state to state.

WHAT MUST YOU DO TO OBTAIN WARRANTY SERVICE — The warranty registration (via phone or website) must be completed within Ninety (90) days of installation to validate the Warranty.

Repair work should be performed by an authorized Water Tech Dealer. In the event that authorized dealer service is not available, defective components may be returned directly to Water Tech Industries with prior approval for warranty service. The registered owner must contact Water Tech for return instructions and return the defective component, freight prepaid, with proof-of-purchase, within the applicable warranty period.

***PRODUCT MUST BE REGISTERED TO ACTIVATE WARRANTY
VISIT WWW.WATERTECH.COM OR CALL 469-521-1180***