



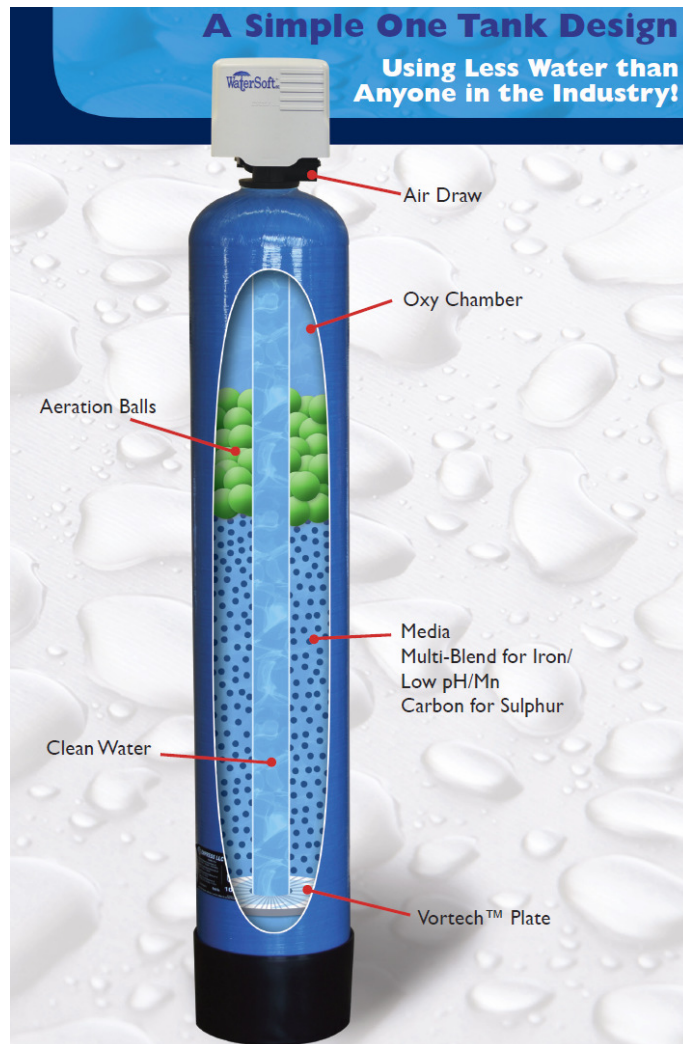
Installation / Operation Manual

Centurion Filter

**with
Isobar II
Control Valve**

*WaterSoft Inc
Ashland, Ohio*

General Specifications	Series	
	CF10	CF13
Filtration (See "Filter Media" section for application)	Less Filter Media and Gravel	
Filter Media Capacity (cu. ft.)	1.50	2.50
Mineral Tank (Vortech)	10 x 54	13 x 54
Service Flow Rate - Continuous (gpm)	5	8
Service Flow Rate - Intermittent (gpm)	7	10
Backwash Flow Rate (gpm)	5.0	7.0
Gallons Used / Backwash	130	182
Space Required	10 x 10 x 62	13 x 13 x 62
Approximate Shipping Weight	32	40



Installation Requirements

A level floor position ahead of piping into water heater

Unit must be installed at least 10 feet ahead of the inlet to a water heater to prevent damage due to back-up hot water.

DO NOT install the unit in an area of direct sunlight or where freezing temperatures may occur!

Locate the unit near an unswitched, 120 volt / 60 Hz grounded electrical outlet.

Check for distance and proper drain installation (e.g. floor drain, washing machine standpipe).

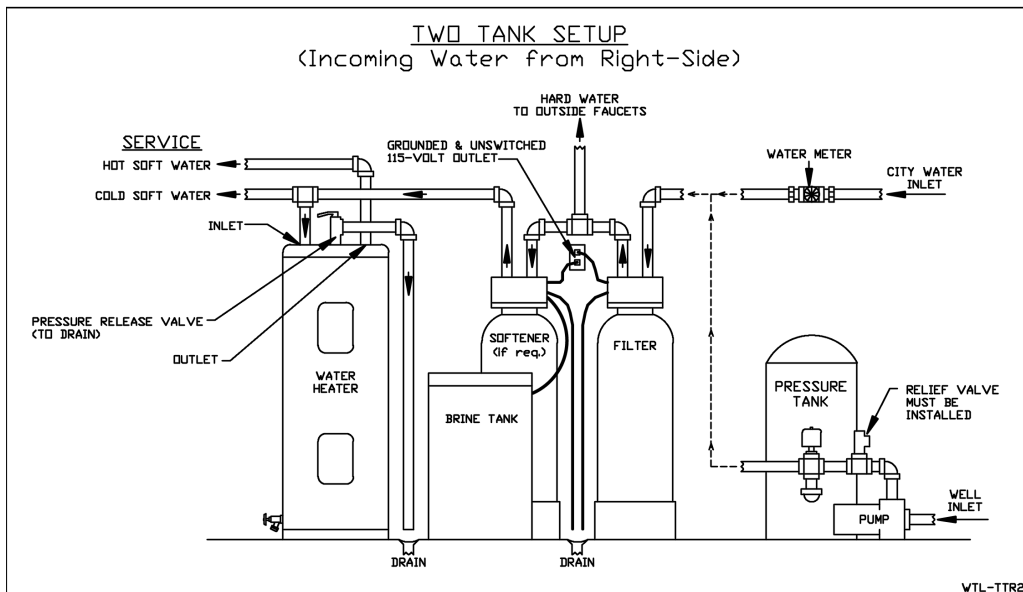
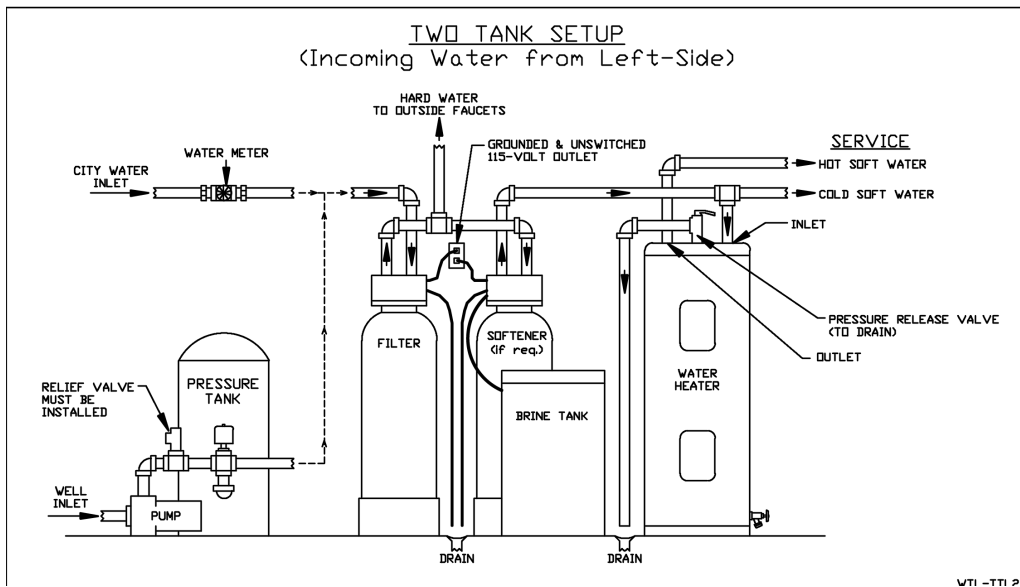
Determine type and size of piping required for filter connection (e.g. copper, galvanized, PVC plastic).

Note : If household plumbing is galvanized and you intend to make the installation with copper (or vice versa), obtain di-electric unions to prevent dissimilar metal corrosion.

Note : Where the drain line is elevated above the control valve or exceeds 20 feet in length to reach the drain, use 3/4" I.D. drain line tubing instead of 1/2" I.D. Drain line tubing is not included.

Caution : If sweat soldering copper pipe (remember to always use lead free solder and flux), cover yoke and bypass valve with wet rags to prevent heat damage to connections and control valve. If using PVC or plastic pipe, primers and solvent cements specifically recommended for use with potable water are required.

Note : All plumbing lines not requiring "soft" water should be connected "upstream" of the softener, if installed. (See Typical Installation Diagrams.)



Installation Procedure

- Water Supply Connection and Bypass Valve -

To allow for filter servicing, swimming pool filling or lawn sprinkling, a manual Bypass Valve has been installed at the factory. The Bypass allows raw water to be manually routed around the filter.

1. Position filter at desired location for installation. If a water softener is to be installed, the filter should be positioned first and then the softener. (See Installation Diagrams.)
2. The filter material is shipped separately from the mineral tank. The tank must be loaded with material after tank has been placed at the desired location.
 - A. Remove the control valve by unscrewing from the tank.
 - B. Use a cork or tape to place over top of distributor tube to prevent material from entering tube while filling.
 - C. Place media funnel in hole on top of tank.
 - D. Pour several gallons of water in the tank. (Fill tank about 1/3 full.)
 - E. Pour in the required filter media. **No gravel is required.** The required quantity & type of media is listed in the filter specifications.
 - F. After installing filter media, add the included pack of aeration balls.
 - G. After filling the tank with material, use a garden hose or several buckets to fill the tank with water.
Note : This will permit the filtering media to become soaked while preparing the installation and will prevent the control valve from being plugged with floating material on initial backwash.
 - H. Remove funnel and clean filter media from tank threads.
 - I. Remove cork or tape from distributor tube.
 - J. Replace control valve on mineral tank.
3. Turn **OFF** main water supply and **OPEN** nearest faucet to relieve pressure.
4. Cut main line and install appropriate elbows and extensions.

Caution : *Raised arrows located on the sides of control valve body and bypass valve indicate proper direction of water flow. Install inlet and outlet piping in direction of arrows.*

- Drain Line Connection -

1. Pull out clip and remove drain line assembly located on the right side of control valve. Remove drain line hose elbow and wrap threads with Teflon tape. Reinstall drain line hose elbow. Replace drain line assembly and reinstall clip.

Caution : *Hand tighten only!*

2. Install 1/2" I.D. drain line tubing (not included) from hose elbow to an open drain. A 4" gap between end of the drain line and the open drain is required to prevent waste water backflow. Keep the drain line as short as possible. An overhead drain line can be used if necessary, but should discharge below the control valve. A syphon trap (taped loop) at the outlet of the drain line is advisable to keep the drain line full and assure correct flow during backwash. Elbows or other fittings must be kept at a bare minimum.

Note : Where the drain line is elevated above the control valve or exceeds 20 feet in length, 3/4" I.D. drain line tubing should be used.

- Electrical Connection -

1. Connect the power supply and plug into a 115 volt / 60 Hz receptacle.

Note : Do not plug into an outlet controlled by a wall switch or pull chain that could inadvertently be turned off

Installation Procedures

1. Move the bypass valve slowly to the **Service** position or open the main valve and allow water to flow to the mineral tank.
2. When the water stops flowing into the tank, open a treated water tap and allow air to be released from the lines. Allow several minutes; during this time follow steps on valve for setting the time. Once time of day is set, go back to main menu. Close the tap. Open the bypass valve or main valve completely. The factory has programmed the days for regeneration and air draw times for you.



Anytime media - other than very fine mineral on initial startup - is apparent in the service lines, it usually indicates one of the following problems:

- A. The unit is plumbed in backward allowing the media to be carried in the service line.
 - B. The distributor tube inside the tank is not seated inside the valve or is damaged in some way. If the media continues to flow to the drain during backwash after a reasonable period of soaking, check the drain line flow control to be sure that excessive water is not going to the drain allowing mineral to siphon out of the tank.
3. Hold down set/change button for five (5) seconds. (A - - 1 will appear), release and repeat. This will now enter backwash. Allow the unit to perform an entire cycle. There are 5 Steps: Air Release, Backwash, Rest, Rapid Rinse, and Air Draw. This will rinse the media and charge up the air chamber. **(Approx. 60 minutes total)**
 4. Once unit is back in service, clean water will be available. Any water used during a cycle will be untreated.

Final Checkout -

1. Be certain that the bypass valve is in **Service** position or main valve is completely on.
2. Check electrical connection to be certain the power supply is connected to an uninterrupted 115-volt outlet.
3. Be certain the warranty card is filled out and mailed in.
4. Leave this manual with the homeowner.

Important Notice - The plumbing system, piping, pressure tank, hot water tanks, softeners, etc. that have been exposed to iron bearing water may need to be cleaned of the precipitated iron that has been collected in them or iron bleed thru may be a problem. We suggest all tanks be drained and flushed thoroughly.



Limited Warranty Water Treatment Equipment

This warranty cannot be transferred – it is extended only to the original purchaser or first user of the product. By accepting and keeping this product, you agree to all of the warranty terms and limitations of liability described below.

Important Warning : Read carefully the WaterSoft Water Treatment Equipment Installation, Operating and Maintenance Instructions Manual to avoid serious personal injury and property HAZARDS and to ensure safe and proper care of this product.

Model Numbers Covered

Water Softeners, Media Filters, Upflow Filter, PROVECTR's, UV, RO, Filters, Chemical Feed

*FOR AS LONG AS YOU OWN AND LIVE IN YOUR SINGLE FAMILY HOME, this warranty covers your water treatment equipment, if you are the first user of this WaterSoft water treatment equipment and purchased it for single family home use – subject to all of the conditions, limitations and exclusions listed below. Purchasers who buy the WaterSoft water treatment equipment for other purposes, and other component parts are subject to more limited warranties and you should read all of the terms included in this form to make sure you understand your warranty.

What is covered by this warranty?

WaterSoft warrants that at the time of manufacture, the water treatment equipment shall be free from defects in material and workmanship as follows :

Thermoplastic Mineral Tanks	10 years
Softener/Filter Control Valves	5 years
Brine Tank Assemblies	3 years
Chemical Feed Pumps	1 year
Reverse Osmosis System	1 year
Other Accessories & Parts	1 year

- This warranty does not include media and/or cartridge filter elements.

Additional Terms & Conditions

What WaterSoft will do if you have a covered warranty claim

WaterSoft will at its option either make repairs to correct any defect in material or workmanship or supply and ship either new or used replacement parts or products. WaterSoft will not accept any claims for labor or other costs.

Additional Exclusions and Limitations

This warranty is non-transferable and does not cover any failure or problem unless it was caused solely by a defect in material or workmanship. In addition, this warranty shall not apply :

- if the water treatment equipment is not correctly installed, operated, repaired and maintained as described in the Installation, Operating & Maintenance Instruction Manual provided with the product
- if the tank is not the size indicated for the supply line size of the installation, as described in the manual
- if the unit has not always been operated within the factory calibrated temperature limits, and at a water pressure not exceeding 125 psi.
- to any failure or malfunction resulting from abuse (including freezing), improper or negligent, handling, shipping (by anyone other than WaterSoft), storage use, operation,

accident or alteration, lighting flooding, or other environmental conditions

- to any failure or malfunction resulting from failure to keep the unit full of potable water, free to circulate at all times: and with the tank free of damaging water sediment or scale deposits
- this warranty does not cover labor costs, shipping charges, service charges, delivery expenses, property damage, administrative fees or any costs incurred by the purchaser in removing or reinstalling the water treatment equipment.
- The warranty does not cover any claims submitted to WaterSoft more than 30 days after expiration of the applicable warranty, and does not apply unless prompt notice of any claim is given to an authorized WaterSoft distributor or to WaterSoft or a designated contractor is provided access to the installation and to the water treatment equipment.

THESE WARRANTIES ARE GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. NO WATER SOFT REPRESENTATIVE OR ANY OTHER PARTY IS AUTHORIZED TO MAKE ANY WARRANTY OTHER THAN THOSE EXPRESSLY CONTAINED IN THIS WARRANTY AGREEMENT.

Additional Warranty Limitations

ANY IMPLIED WARRANTIES THE PURCHASER MAY HAVE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE TIME PERIODS SPECIFIED ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

Limitation of Remedies

The remedies contained in this warranty are the purchaser's exclusive remedies. In no circumstances will WaterSoft or the seller of the product be liable for more than, and purchaser-user's remedies shall not exceed, the price paid for the product. In no case shall WaterSoft or seller be liable for any special incidental, contingent or consequential damages. Special, incidental, contingent and consequential damages for which WaterSoft is not liable included, but are not limited to, inconvenience, loss or damage to property, consequential mold damage, loss of profits, loss of savings or revenue, loss of use of the products or any associated equipment, facilities, buildings or services, downtime, and the claims of third parties including customers. Some states do not allow the exclusion or the limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

What to do if you have a problem covered by this warranty

Any warranty coverage must be authorized by WaterSoft. Contact the person from whom you purchased the product, who **must** receive authorization from a WaterSoft distributor or WaterSoft. If you do not receive a prompt response, call WaterSoft directly at (800) 462-3790. Notice of a warranty claim relating to replacement parts or products should be submitted by the authorized distributor to WaterSoft at the following address : **WaterSoft Inc., Warranty Claim Dept., 710 Orange St., Ashland, OH 44805** If your product is new and not used and you wish to return it, contact your WaterSoft distributor.