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Table of Contents

Table of Contents	3
Product Operation and Specifications	4
Important Information	4
Water Conditions for Operation	4
Complete Parts List	5
Installation Overview	6
Installation	6
Whole House Salt Free Water Softener/Conditioner Tank Installation	6
Media Soak	7
Media Flush/Condition	7
Complete the Installation	8
Clean your Hot Water Heater (optional)	8
What to Expect with your New NaturSoft Salt Free Water Softener/Conditioner	9
Troubleshooting	10
Warranty	11
Warranty Registration Form	12
Product Certifications	13

Product Operation and Specifications

Specification Description	1465	1665	1865	2472
Rated Service Flow	40 GPM	55 GPM	70 GPM	120 GPM
Minimum Working Pressure	25 PSI			
Maximum Working Pressure	80 PSI			
Maximum Vacuum	5 inch/127 mm Hg			
Operating Temperatures	36°F - 120°F			
pH Range	7 - 11			

Important Information

- Read these instructions carefully and determine the location of all system components before beginning installation.
- Check all applicable plumbing, building, and electrical codes for installation compliance.
- Install the system on the main water supply.
- Systems that contain electronic components cannot be installed outside in uncovered areas.

Water Conditions for Operation

- The water should be free of hydrogen sulfide, a dissolved gas with a characteristic smell of rotten eggs. If present, it can coat the catalytic surface of the media and interfere with the process. The gas should be removed through adequate pre-treatment.
- The water should be free of hydrocarbons, oils, and lubricants. If present, they can coat the catalytic surface of the media and interfere with the process. Remove through adequate pre-treatment.
- The water should contain less than 1 mg/l of phosphates. Phosphates sequester dissolved hardness molecules preventing them from forming crystals and may coat the catalytic media surface and interfere with the process.
- The copper level in the water supply should be below the MCL of 1.3mg/L. If copper is present above this level, it can attach to the surface of the catalytic media and interfere with the process.

WARNING:

If this or any other system is installed in a metal (conductive) plumbing system, i.e. copper or galvanized metal, the plastic components of the system will interrupt the continuity of the plumbing system. As a result any errant electricity from improperly grounded appliances downstream or potential galvanic activity in the plumbing system can no longer ground through contiguous metal plumbing. Some homes may have been built in accordance with building codes, which actually encouraged the grounding of electrical appliances through the plumbing system. Consequently, the installation of a bypass consisting of the same material as the existing plumbing, or a grounded "jumper wire" bridging the equipment and re-establishing the contiguous conductive nature of the plumbing system must be installed prior to your systems use.




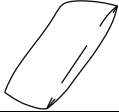

CAUTION:

When adding a filtration/softening system to homes/buildings supplied by well water, the system should be installed following the pressure tank. **DO NOT USE this system for pneumatic or hydro pneumatic applications. If you are using a booster pump, then install this system following the booster pump.** If you have questions, please call customer service.

Complete Parts List

Note: Pelican supplies the parts below to accommodate a variety of water supply lines.

Table 1: Parts List

Part	Description	Qty.	Part	Description	Qty.
	PVC Adapter: 1-½" to 1" Threaded PVC Adapter Note: For Use with Tank Head	2		PVC Adapter: 1" to ¾" Threaded PVC Adapter Note: For Use with Tank Head	2
	Tank Model	1		Bags of Media (18"-24")	1
				Bags of Gravel 1865 - boxes 2472 - boxes	2 6

Note: Drawings are not to scale.

Note: 14" & 16" Systems come pre-assembled.

Additional fittings will be needed to adapt to your plumbing.

Media Load (18" & 24" Systems Only)

Note: Two people are recommended to complete these steps.

1. If the head is attached to the tank, unscrew it and set aside.
2. Inside the tank there will be a distributor tube. Place a piece of painter's tape on top of the distributor tube to avoid media spilling into the tube.
3. Place the provided funnel securely in the tank and hold in place.
4. Load all of the provided gravel into the tank (heavy bags, tan rock).
5. Load all of the provided Natursoft media into the tank (white media).
6. Clean the top of the tank and the threads, and remove the painter's tape.
7. Screw the head back to the tank, ensuring the upper basket attaches over the distributor tube.

Installation Overview

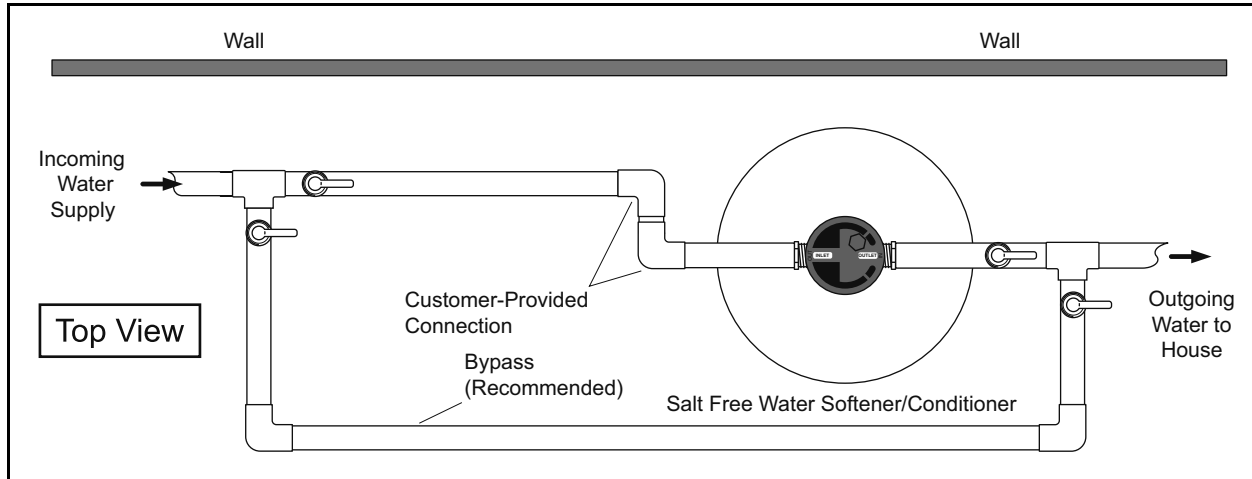


Figure 1

Note: The plumber should follow the stickers on the head.

Installation

Whole House Salt Free Water Softener/Conditioner Tank Installation

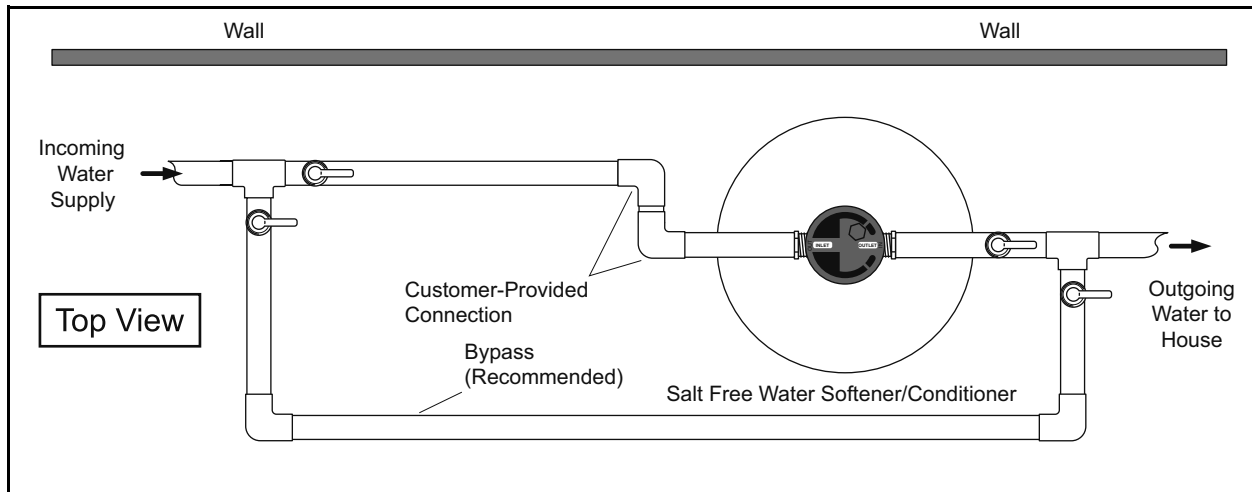


Figure 2

1. Determine the size and material of your incoming water supply line and choose the appropriate fittings required to connect it to the softener head.

⚠ CAUTION:

Do not over-tighten any of the fittings during installation.

2. Install the fitting onto the INLET and OUTLET sides of the softener head.
3. Connect the incoming water supply to the INLET side of the softener head.
4. Connect the outgoing water supply to the OUTLET side of the softener head.

Media Soak

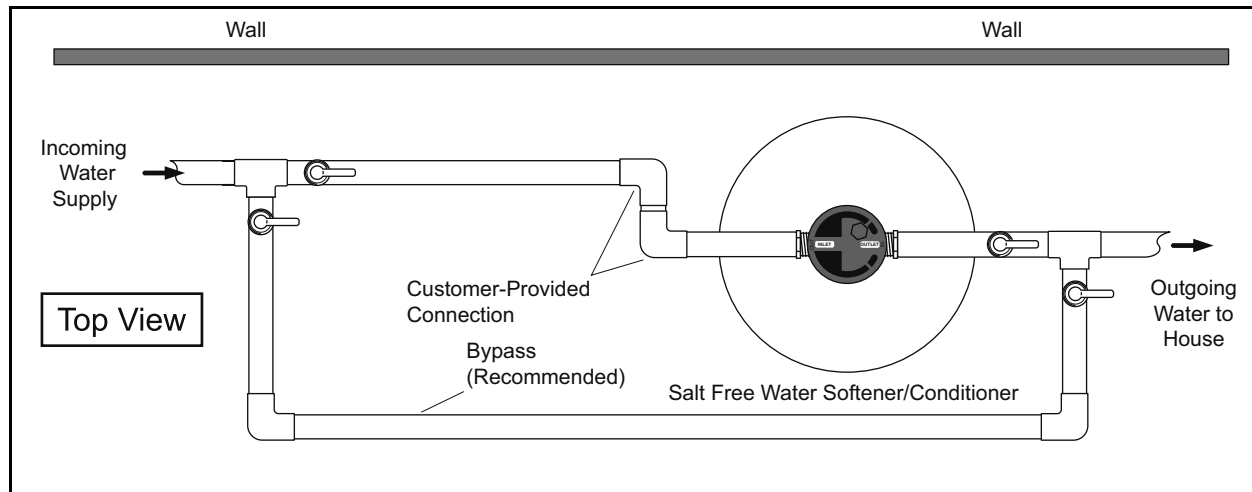


Figure 3

1. Open a cold water faucet or test spigot close to the downstream of the Water Softener.
2. Turn the water back on at the main shut-off valve allowing the system to fill with water. The air being displaced will escape through the open fixture downstream.
3. Fill the Pelican Salt Free Water Softener/Conditioner Tank full until water comes out of the downstream fixture. Bypass the tank using the bypass installed around the system. This will allow you to isolate the system and restore water supply to the home/building during the media soak.
4. Allow the tank to soak for at least 60 minutes.

Media Flush/Condition

1. After the tank has soaked for 60 minutes, turn the main water supply back on or turn the Bypass Valves back into their original position.
2. Flush the system by running water for 5 minutes at a high flow rate of 5 GPM (this can be achieved by using a bath tub or more than 3 faucets).

Note: The flush water may have a milky look to it. This is normal as calcium carbonate fines are flushed from the system.
3. Rinse the system by reducing the flow rate to ½ GPM and run water for 60 minutes (this can be achieved by turning one faucet ¼ of the way on).

Complete the Installation

1. Check for leaks.

Clean your Hot Water Heater (optional)

Cleaning and restoring the plumbing system is a major benefit of the Custom NaturSoft system. In order to minimize the time required to complete the de-scaling process, we strongly recommend cleaning your hot water heater after a period of 3 weeks:

- Turn off the heat source, attach a hose to the drain valve at the bottom of the tank and flush the heater by opening the drain valve. After the water heater is completely filled with water, turn the heat source back on.

What to Expect with your New NaturSoft Salt Free Water Softener/Conditioner

If you have never had a water softener:

Immediately after the installation you will experience naturally soft water. All detergents will work better with treated water and you will be able to reduce the amount you use. However, there are mineral deposits and scale coating the inside of your pipes and fixtures. Over the first few weeks, this scale will dissolve, detach itself from the pipes, and come out of your faucets. This de-scaling process is temporary and will steadily diminish. During these first weeks, you will notice:

- **Reduced softness of the water.** This will be particularly evident when using hot water. The water can pick up more than ten grains of mineral content per gallon between the NaturSoft system and the faucet as it travels through the water heater and the plumbing.
- **Mineral silt in the water.** Since the existing limestone scale is softened and dissolved as part of the NaturSoft effect, it will detach in small chunks ranging in size from very fine silt to pieces larger than a grain of sand. The larger pieces may be big enough to build up in the aerator screens of your fixture. Considerable silt-like accumulations may be visible on the shower heads, so clean them weekly for the first four weeks. Higher flow rates will shear off more of the existing scale than will lower flow rates. De-scaling activity will be most obvious in bathtubs, which have high flow and hot water. You may see milky water with sand-like grit, and possible sediment or iron in the bath tub.

The water line supplying fixtures which experience the most use will be cleaned the quickest and will be the first to return to providing you the full benefits you experienced immediately following installation; rarely used fixtures will take longer.

If you had a traditional water softener:

A traditional water softener turns dissolved mineral hardness (calcium bicarbonate) into dissolved sodium bicarbonate. The NaturSoft technology maintains the healthy mineral content of the water without adding the bicarbonate. You will notice:

- **The water does not feel as soft.** The absence of the calcium and the presence of sodium bicarbonate makes the water feel slick and slimy. If you miss the slick feeling, add some baking soda (sodium bicarbonate) to your bath.
- **The water spots are more visible.** A water softener replaces calcium with sodium. The water spotting that a traditional water softener leaves behind is a salt haze that wipes off very easily and is far less noticeable than spots caused by minerals. The NaturSoft treatment results in reduced spotting compared to untreated water, but more visible spots than produced by traditional, chemically treated softened water. The NaturSoft mineral spots are much easier to clean than spots from untreated water.
- **Soap curd forms with certain products.** Oil-based soaps like Ivory will react with calcium minerals to form a sticky film. Detergent-based cleaners like shampoos, shower gels, dish soaps, and laundry detergents will react very slightly or not at all. All detergent will work better with treated water, but you will notice very little improvement when using regular bar soap or oil-based products since the minerals are largely still able to react with the fats in the soap to form the curd.
- **There is some mineral silt in the bathtub.** Depending on the water chemistry of your water supply, you may still have some scale deposits in your plumbing system.

If you have a dishwasher:

Generally, the NaturSoft system removes mineral hardness from solution and forms micro crystals; it does not physically remove the natural minerals from the water. Harsh chemicals, specifically acidic (low pH) detergents or rinse agents, can re-dissolve these crystals. This reduces the desired effect. Also, dishwashers are supplied by the hot water side of a building's plumbing system, so for the first few weeks, the water hardness inside the dishwasher will be higher than normal. For both of these reasons, you will have to adjust the combination and amounts of detergents and rinse agents. Gel packs offer a great alternative since they contain detergents and rinse agents in just the right amounts. This dishwasher detergent has received rave reviews from our customers:

- Lemi-Shine Rinse Agent

Visit the website www.pelicanwater.com to buy the detergent online or locate a store near you to purchase.

Troubleshooting

Problem	Solution
Water leaking at the top of the tank around the head.	You may need to turn the head to tighten it. The tank head is pre-installed hand-tight, do not overtighten the head (just turn it snug).

Warranty

Pelican 10 Year Limited Warranty

Pelican Water ("Pelican") warrants to the end user ("customer") that its retention tanks, mineral tanks (14" or larger) ("Covered Items") will be free from defects in material and workmanship under normal use and service for a period of 10 years from the date of original purchase.

Limitations and Responsibilities

Pelican's obligation to the customer under these warranties shall be limited, at Pelican's option, to replacement or repair of Covered Items by these warranties, labor is not covered. These warranties do not cover replacement filter cartridges, elements or lamps. Prior to return or repair of Covered Items, the customer must obtain a return goods authorization number from Pelican by/at and at Pelicans option, return the Covered Items freight prepaid. Any Covered Item repaired or replaced under these warranties will be returned prepaid standard freight to the original point of shipment. Expedited freight options are available at customer expense.

No warranty is made, and is explicitly excluded, with respect to defects or damages due to neglect, misuse, alterations, accident, misapplication, physical damage, or damaged caused by fire, acts of God, or freezing. These warranties apply only to the original registered owner so long as the owner owns/lives in the home in which the unit was originally installed. Customer must register their system with Pelican within 90 days of purchase* in order to obtain a warranty. Warranty will discontinue after the unit is removed from the location where it was originally installed. Warranty begins on the date of delivery of product to the customer. Improper maintenance of system (ie not replacing filters or media, for example) on time will be considered "neglect" and explicitly excluded from the warranty. Installation of any system on water conditions outside of or beyond the recommended specs of any system voids any warranty.

Pelican gives this warranty to the original owner/customer in lieu of all other warranties, express or implied, including without limitation any implied warranties of merchantability or fitness for a particular purpose or treatment of certain water and hereby expressly disclaims all other such warranties. THE WARRANTIES PELICAN GIVES IN THE ABOVE PARAGRAPHS ARE EXCLUSIVE, PELICAN DISCLAIMS ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY AND SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR IMPLIED WARRANTY OF WORKMANLIKE PERFORMANCE. Pelican's liability hereunder shall not exceed the cost of the product. Under no circumstances will Pelican be liable for any incidental or consequential damages or for any other loss, damage or expense of any kind, including loss of use, arising in connection with the installation or use or inability to use the Covered Items or any water treatment system the Covered Items are incorporated into. These warranties are governed by the laws of the state of Florida and may change at any time without notice..

*Failure by California and Quebec residents to complete the product registration form does not diminish their warranty rights.

**For all orders placed on or after June 3rd, 2011.

Warranty Registration Form

Send in this Warranty Registration Form to validate your warranty or visit www.PelicanWater.com to complete warranty registration form online.

Pelican Warranty Registration Form

Date Item(s) were Received:	Order ID#:	Model:
_____	_____	_____
Dealer Purchased From:		

Model/Serial Number:		

Name:	_____	
Address:	_____	
City:	State:	Zip:
_____	_____	_____

Send To:

Pelican Water Systems
3060 Performance Circle, Suite 2
DeLand, FL 32724
Phone: 1-(877) 842-1635


Plumber's Information (optional)

We like to recommend good plumbers throughout the USA and if you were happy with your installer please give us their information so we can pass it on as a courtesy. Thank you for your time.

Name of Plumbing Company used to install system: _____

Phone #: (_____) - _____ of the Plumbing installer

Product Certifications

	<p>Pelican NaturSoft-Custom – WQA Gold Seal tested and certified under NSF/ANSI61 for material safety and tested according to NSF/ANSI 42 for structural integrity only</p>
	<p>The Pelican Natursoft is DVGW DW-9191 Certified for 99.6% scale prevention.</p>