



Owner's Manual

Advantage Series

Salt Based Water Softeners

Nitrate Series Salt Based Filter System

Tannins Series Salt Based Softeners

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Product Operation and Specifications

Specification Description	
Rated Service Flow	7-18 GPM (depending on model)
Minimum Working Pressure	25 PSI
Maximum Working Pressure	100 PSI
Maximum Vacuum	5 inch/127 mm Hg
Operating Temperatures	36°F - 120°F
pH Range	6.5 - 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.

⚠ 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. Older homes may have been built in accordance with building codes from decades ago, some of 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.

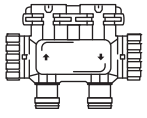
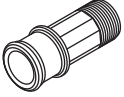




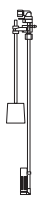

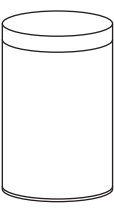
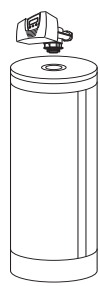
⚠ CAUTION:

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.
	Bypass Valve for Electronic Head	1		1" PVC Tail Adaptor for Electronic Head Bypass	2
	PVC Tubing Drain Line (50 ft.)	1		Brine Draw Fitting for Electronic Head	1
	Blue Funnel	1		Bag(s) of Resin **Depending on your system, you could have multiple bags of Resin.	**
	2310 Safety Valve Assembly*	1		Turbulator	1
	Brine Tank	1		Mineral Tank	1

Note: Drawings are not to scale.

Additional fittings will be needed to adapt to your plumbing.

* 2310 Safety Valve Assembly may already be installed in the Brine Tank.

Installation Overview

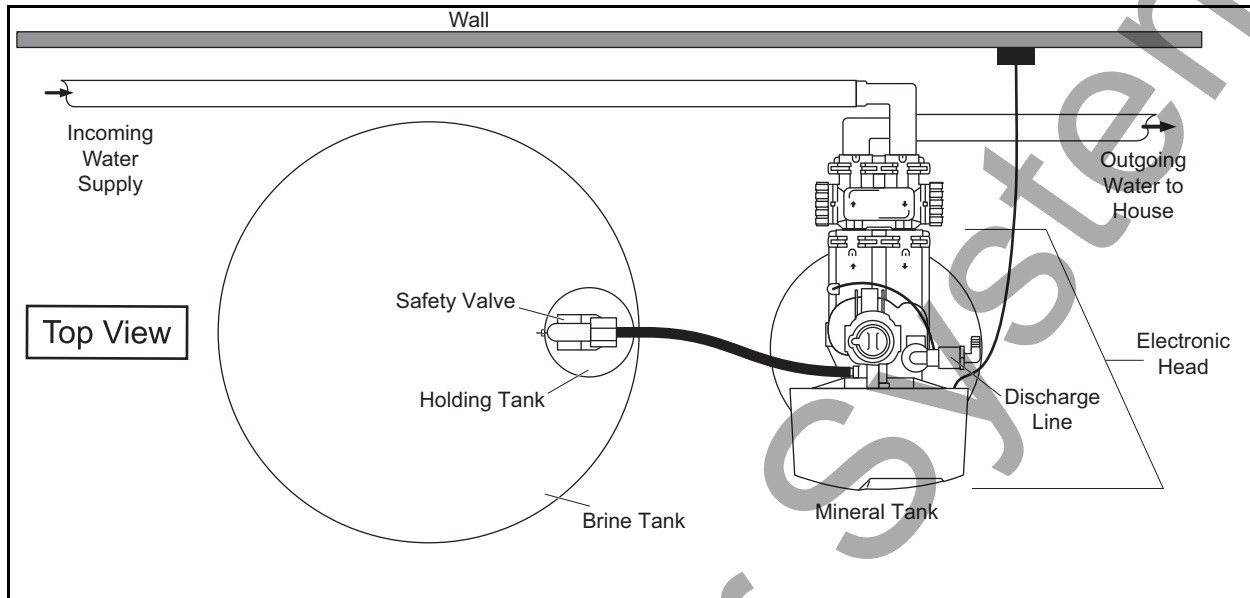


Figure 1

Pre-Installation

Mineral Tank Setup

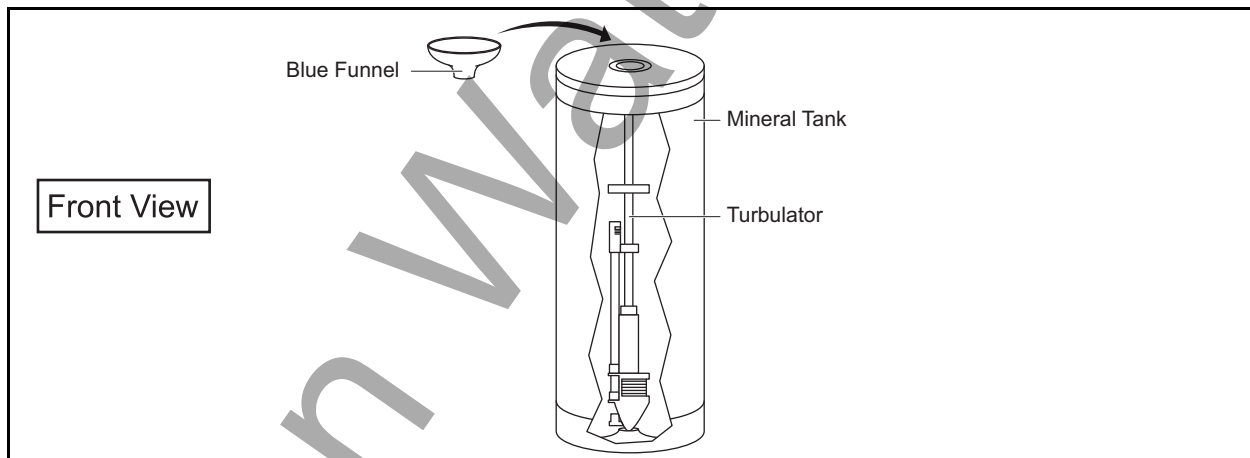


Figure 2



Notice:

The Turbulator is already installed in the Mineral Tank. Be sure the Turbulator is seated in the dimple at the bottom of the Mineral Tank.

Bypass Valve Installation

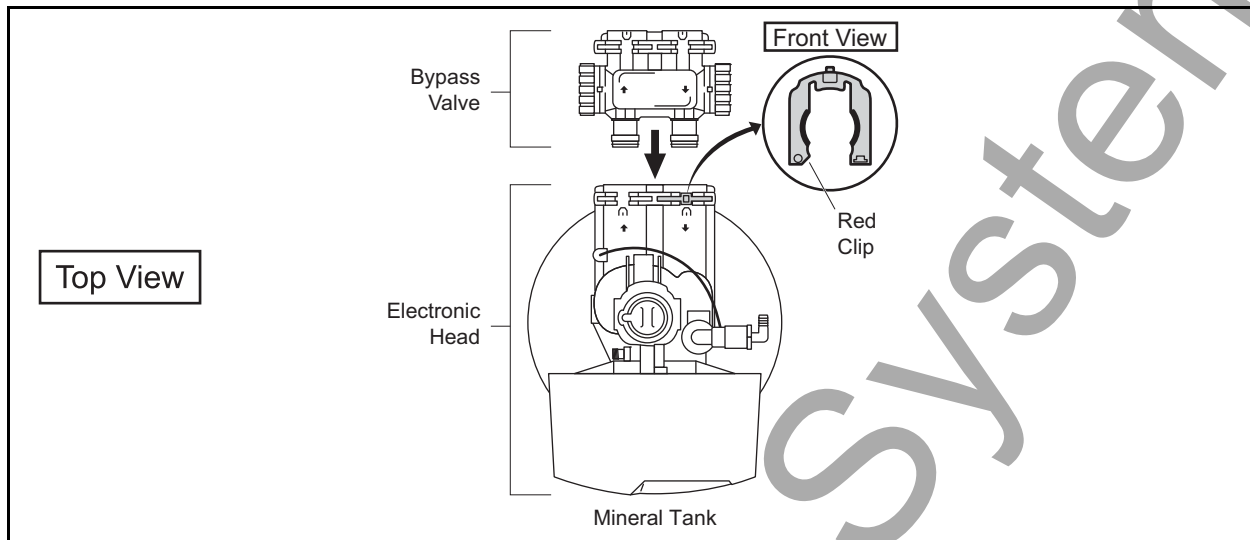


Figure 3

If the Red Clips are in the slots (female opening of Electronic Head) remove them. Push the male O-Ring side of the Bypass Valve into the female opening of the Electronic Head. Push the Red Clips back into the slots to tighten.



Notice:

The Bypass Valve on the Electronic Head can be set to Bypass or Service by turning the knobs on the side of the valve. If the holes are up and down then the tank is in the Bypass Mode. If the holes are side to side then the tank is in the Service Mode. Do not remove the red clips from the Bypass Valve after connecting to main water supply.

Installation

Mineral Tank Installation

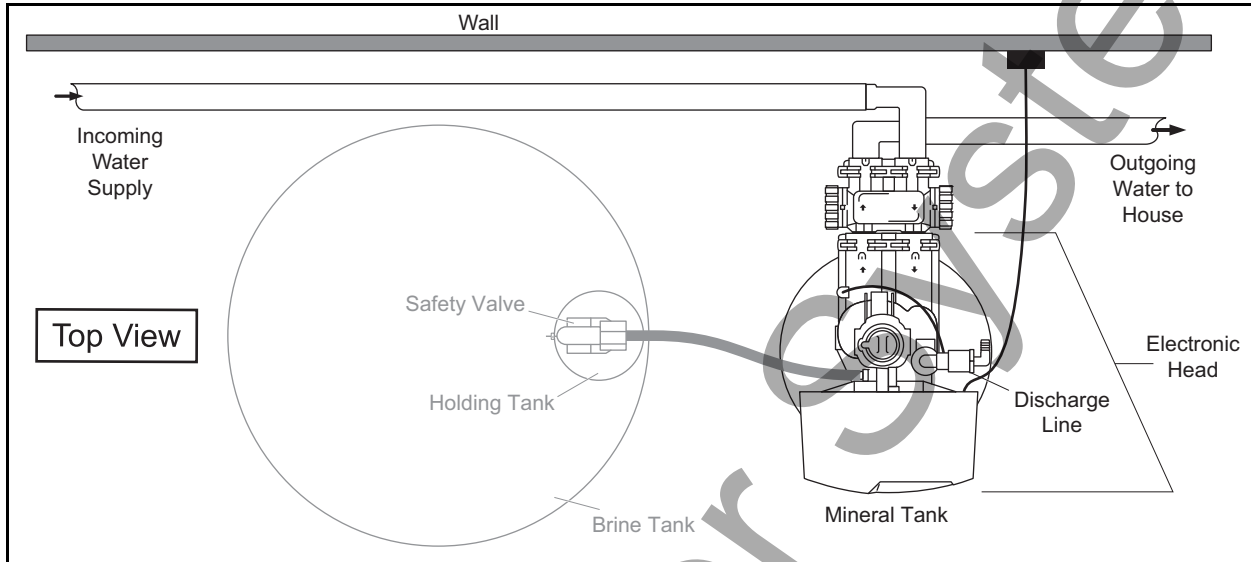


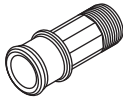
Figure 4

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

⚠ CAUTION:

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

Table 2: Bypass Valve Fittings

Part	Description	Qty.
	1" PVC Tail Adaptor for Electronic Head Bypass	2

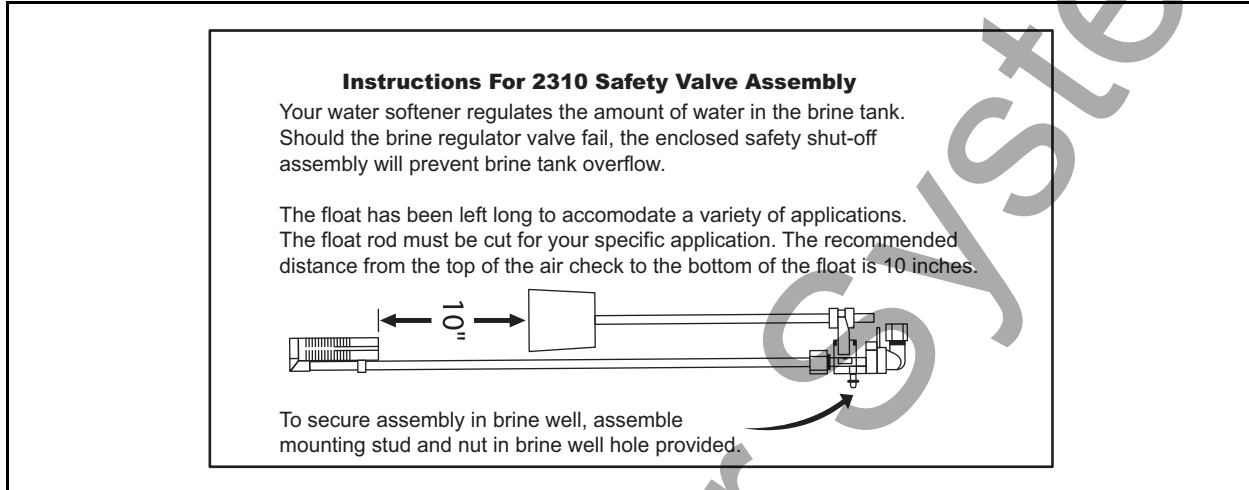
Note: The fitting above is designed with a 1/4" give to allow for proper pipe alignment. It will not leak and is intended to have some flexibility.

2. Install the fittings onto the inlet and outlet, following the arrows on the Bypass Valve and head.
3. Connect the incoming water supply to the fitting on the inlet side of the Bypass Valve.
4. Connect the outgoing water supply to the outlet side of the Bypass Valve.
5. Firmly press one end of the discharge PVC Tubing Drain Line onto the barbed nose, and secure the other end of the line to a drain.

Brine Tank Installation

!!IMPORTANT!

Your Brine Tank may come with the 2310 Safety Valve Assembly already installed. If so, skip to the Final Setup and Installation section.



Notice:

The 2310 Safety shut-of valve prevents the control valve from refilling the Brine Tank too high in the event of a power failure.

1. Cut the float rod so the distance from the top of the air check to the bottom of the float is 10" (recommended distance).
2. Place the Safety Valve Assembly into the holding tank.
3. Secure the Safety Valve Assembly to the holding tank with the small nut.
4. Feed the Brine Tank hose through the hole in the Brine Tank.
5. Unscrew the nut from the Safety Valve Assembly and slide onto the hose.
6. Slide the black and white compression sleeves toward the end of the hose.
7. Slide the 1" brass insert into the hose.
8. Connect the hose to the Safety Valve Assembly and secure with the nut hand-tight.

⚠ CAUTION:

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

Final Setup and Installation

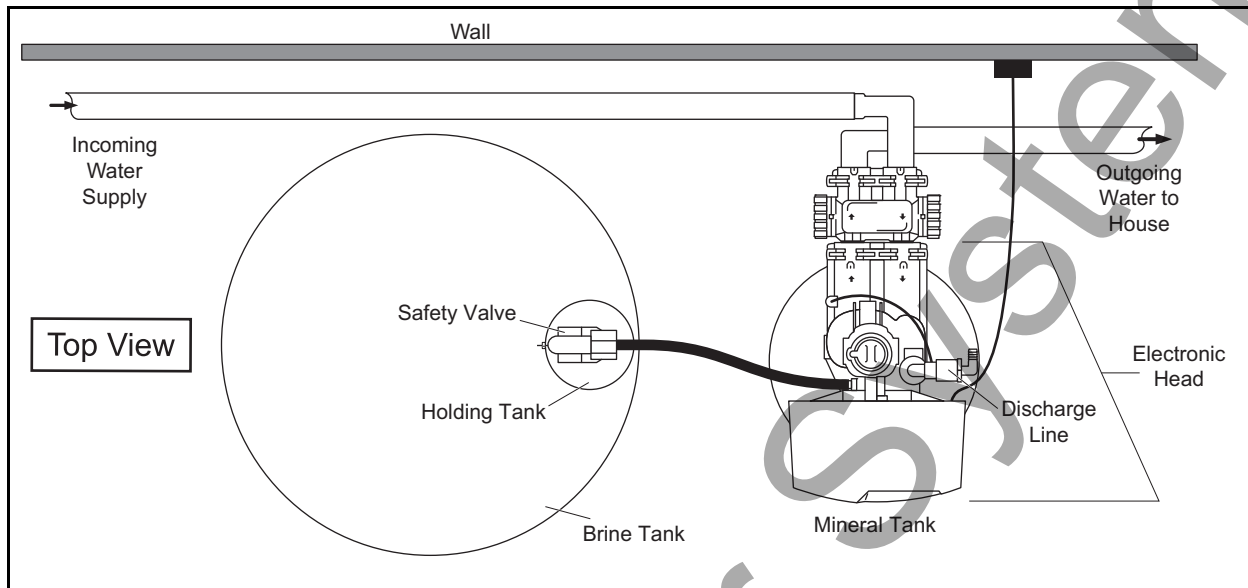


Figure 5

1. Attach the supplied Drain Line to the discharge line on the top of the Electronic Head and run the other end of the line to an external drain.
2. Attach the Brine Tank hose to the connection on the top of the Electronic Head.

!!IMPORTANT!

Ensure the PVC Tubing Drain Line is free of kinks.

Complete the Installation

1. Set the Bypass Valve into bypass mode.
2. Slowly turn on the main water supply until all pipes are pressurized.
3. Slowly open the bypass valves.
4. Let the Mineral Tank fill completely and then open the bypass valves the rest of the way.
5. Check for leaks.
6. Plug in the Electronic Head.

!!IMPORTANT!

You will not be able to use the water in the house for approximately 15-20 minutes during the Regen process.

1. Press and hold the EXTRA CYCLE button for 3 seconds.

Note: gears will make noise and water will start to flow.

2. Allow the system to EXTRA CYCLE for 15 to 20 minutes.

Your manual regen cycle is complete and the tank is ready for use.

Note: The days between regen may vary based on flow and Iron content. If you are unsure about the days between regen please contact your Pelican dealer for further help.

Programming the Electronic Head

Note: These settings are specific to this system. Do not make changes to the settings unless instructed by customer service. All settings have to be set by first setting the clock to 12:01 PM. To restart programming, you must start over at step 1. Do not go to a previous step, you must start over at step 1.

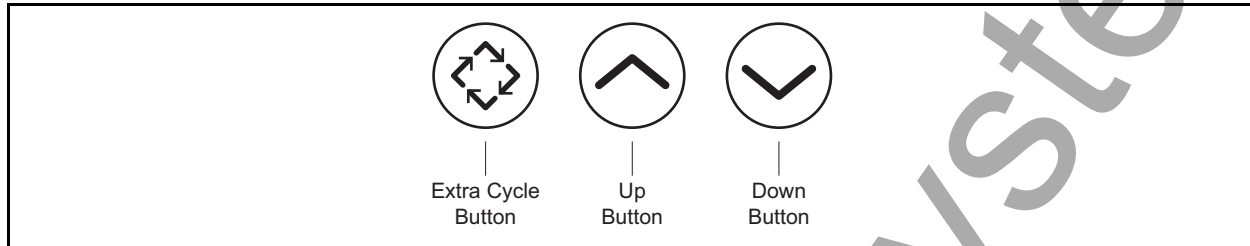


Figure 6

Step 1: Setting the Valve

1. Press and hold the UP or DOWN button to change the clock to 12:01 PM.
2. Press the EXTRA CYCLE button once.
3. Press and hold the UP and DOWN buttons together, until DF is displayed in the left corner. Scroll using the UP and DOWN arrows until "GAL" is selected. Press EXTRA CYCLE.
4. Follow the steps in the table below to finish setting the valve. When each setting is displayed, use the UP and DOWN buttons to scroll to the appropriate data setting displayed in the table. Press EXTRA CYCLE to select the data setting and go to the next setting.

Table 3: Setting the Valve

Parameter Display (Left Corner)	Data Display Set To
VT	dF2b
CT	FD
C	See Note 3
H	20
RS	SF
SF	10
DO	14 (See Note 1 for PN3/PN6 Nitrate Systems and Note 2 for NPT3/PT6 Tannin Filters)
RT	2:00
B1	10
BD	60
B2	5
RR	10
BF	20
FM	£1.2 - Unit will begin syncing

Step 2: Set Time

1. Press and hold down the UP button to change the clock.
2. Press the EXTRA CYCLE button when the time is set. The water valve displayed will stop flashing when the time is set.

Note 1: For Pelican PN3/PN6 Nitrate Systems, set to 4 (days override) instead of 14 days.

Note 2: For Pelican PT3/PT6 Tannin Filter, set to 6 (days override) instead of 14 days.

Note 3: This number is determined by the specific softener purchased. The first two numbers in the product title "XX,000 Grain Softener" will be selected as "XX". For example, the 32,000 Grain Softener would have the number "32" selected and the 80,000 Grain Softener would have "80" selected. If you are unsure of the specific grain softener you have purchased, contact customer service for additional help.

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 over-tighten the head (just turn it snug).
The tank leans to one side or is not level.	If the tank is not level, lift the tank straight up 6 inches and tap it on the ground until the tank stands vertical. The bottom of the tank is round and the boot allows the tank to stand upright.
The Brine Tank has too much water or is not filling properly.	Check and tighten all fittings on Brine Tank and Electronic Head to ensure air is not getting into the Brine Tank Hose.
The system is backwashing but it is not using up any salt.	If the salt has bridged (too much salt has been added to the tank and it has formed a solid block of salt), shake the Brine tank until the block of salt breaks apart.

Warranty

Pelicans Limited Lifetime Warranty

Pelican Water ("Pelican") warrants to the end user ("customer") that its tanks (13" & smaller), valves, in/out non-electric heads, bypass's, fittings and housings ("Covered Items") will be free from defects in material and workmanship under normal use and service for the life of the system**.

Pelican 5 Year Limited Warranty

Pelican Water ("Pelican") warrants to the end user ("customer") that its retention tanks and solid-state electronic heads ("Covered Items") will be free from defects in material and workmanship under normal use and service for a period of 5 years.

Limitations and Responsibilities

Pelican's obligation to the customer under these warranties shall be limited, at its option, to replacement or repair of Covered Items by these warranties, labor is not covered. Prior to return or repair of Covered Items, the customer must obtain a return goods authorization number from Pelican 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 with respect to defects or damaged 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 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 (i.e. not replacing filters or media) on time will be considered "neglect". 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 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. 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

!!IMPORTANT!

Do not use where water is microbiologically unsafe or with water of unknown quality without proper disinfection before or after the filter/softener system.