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Product Operation and Specifications

<table>
<thead>
<tr>
<th>Specification Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Service Flow</td>
<td>12-18 GPM (depending on model)</td>
</tr>
<tr>
<td>Minimum Working Pressure</td>
<td>25 PSI</td>
</tr>
<tr>
<td>Maximum Working Pressure</td>
<td>80 PSI</td>
</tr>
<tr>
<td>Maximum Vacuum</td>
<td>5 inch/127 mm Hg</td>
</tr>
<tr>
<td>Operating Temperatures</td>
<td>36°F - 100°F</td>
</tr>
<tr>
<td>pH Range</td>
<td>6.5 - 11</td>
</tr>
</tbody>
</table>

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.
- Turn Electricity to Water Heater off.
- Systems that contain electronic components cannot be installed outside in uncovered areas.
- The use of Teflon Tape and/or Pipe Thread Seal Paste will be needed on all threaded connections.

⚠️ 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 system’s 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 Water Systems supplies the parts below to accommodate a variety of water supply lines.

Table 1: Parts List

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bypass Valve for Electronic Head</td>
<td>1</td>
</tr>
<tr>
<td>PVC Tubing Drain Line (50 ft.)</td>
<td>1</td>
</tr>
<tr>
<td>Brine Tank</td>
<td>1</td>
</tr>
<tr>
<td>Non-Abrasive Auto Wax 4 oz. Bottle</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; PVC Tail Adaptor for Electronic Head Bypass</td>
<td>2</td>
</tr>
<tr>
<td>Electronic Head</td>
<td>1</td>
</tr>
<tr>
<td>Softener Tank</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Drawings are not to scale.
Additional fittings will be needed to adapt to your plumbing.
** BACKWASH LINE TO BE PLUMBED TO A DRAIN

** CONNECTION SIZE: 1"
MAX PRESSURE OPERATING: 80 PSI
MAX TEMPERATURE: 100°

DO NOT SCALE DRAWING
THIS DRAWING IS ISSUED IN CONFIDENCE AND CANNOT BE REPRODUCED OR CIRCULATED WITHOUT DIRECT WRITTEN PERMISSION FROM PELICAN WATER SYSTEMS.

** SHUT OFF VALVES

** OPTIONAL BYPASS

** HOSE SPIGOTS

Pelican Water Systems
3060 PERFORMANCE CRT
SUITE 2
DELAND, FL 32724
1-877-842-1635
www.pelicanwater.com

INSTALLATION DIAGRAM
PS48/80
Installation Overview

Top View

Front View
Pre-Installation

Bypass Valve Installation

![Diagram of Bypass Valve Installation]

Figure 2
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.

Bypass Valve Operation

![Diagram of Bypass Valve Operation]

Notice:
The Bypass Valve on the Electronic Head can be set to Bypass or Service by turning the knobs on the top of the valve. The valves can be difficult to turn by hand until the seals become saturated. Use the supplied Bypass Allen Wrench to turn the knobs if necessary.

IMPORTANT! Do not remove the red clips from the Bypass Valve after connecting to main water supply.
Installation

Install Electronic Head

1. Level the Pelican Softener Tank.

Notice:
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.

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

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

3. Remove the grey cap from the top of the Softener tank.

4. Screw the Electronic Head onto the tank hand-tight.

5. Install the appropriate fittings onto the inlet and outlet, following the labels on the Head.

6. Connect the incoming water supply to the fitting on the inlet side of the Bypass Valve.

7. Connect the outgoing water supply to the outlet side of the Bypass Valve.

8. Firmly press one end of the PVC Tubing Drain Line onto the drain line barb, and secure the other end of the line to a drain.

IMPORTANT!
- Ensure the PVC Tubing Backwash Drain Line is not submerged and is free of kinks.
- Maximum vertical rise of the backwash line is 6 feet.
- If incorporating two or more backwashing systems make sure to keep the drain lines separate.
Final Setup and Installation

Figure 4

9. Attach the black Brine Tank hose to the connection on the top of the Electronic Head by removing the black compression nut. Slide the compression nut over the end of the black tube, fully inserting the Brine Line into the port and tighten the compression nut.

10. Add approximately 160 lbs. of salt pellets to the brine tank. (Example: four 40-pound bags)

11. Add 5 gallons of water to the brine tank.

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 Softener Tank fill completely and then open the bypass valves the rest of the way.
5. Check for leaks.
7. Wax stainless steel tank jacket with wax provided or any other non-abrasive auto wax a minimum of 1-2 times per year or as needed based on the installed environment.

Note: Power Source - For safety reasons the outlet must be protected by a Ground Fault Circuit Interrupter (GFCI).
Programming the Electronic Head

Note: Remove protective film from electronic head screen.

Step 1: Setting the Date & Time

1. Press and hold the MENU button until you hear the beep to unlock.
2. Press MENU button.
3. Press SET once Date & Time Setting is highlighted.
4. Using the UP and DOWN buttons input the correct Date and Time pressing SET after each input.
5. Once set press the MENU button to return to the main menu.

Step 2: Setting the Hardness

1. Using the DOWN button select Hardness and press SET.
2. Using the UP or DOWN buttons input the correct hardness number in grains per gallon (GPG).
3. Press SET to confirm.
4. Once set press the MENU button to return to the main menu.

Note: If your hardness test results read Parts per Million (PPM) or Milligrams per Liter (Mg/l) you would divide that number by 17.1 to get Grains Per Gallon (GPG).
**IMPORTANT!**
You will need to manually regenerate (Regen Now) your system prior to use. To do so follow the programming below. You will not be able to use water for approximately 2 hours during this process.

**Step 3: Performing Manual Regeneration**

1. Using the DOWN button select Manual Regen and press SET.
2. Using the UP or DOWN button select either Regen Now or Regen Tonight.
   - Regen Now will start a regeneration process immediately.
   - Regen Tonight will regenerate the system at the default regeneration time of 2:00 am.
3. Once selected press the SET button to confirm. Gears will make noise and water will start to flow. Allow the system to regenerate for approximately 2 hours.
4. Once complete press the MENU button to return to the main menu.

**Adding the Pelican Logo Sticker**

1. Peel back plastic to remove it from the tank.
2. Place sticker in the desired location on the tank.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water leaking at the top of the tank around the head.</td>
<td>You may need to turn the head to tighten it. The tank head is installed hand-tight, do not overtighten the head (just turn it snug).</td>
</tr>
<tr>
<td>The tank leans to one side or is not level.</td>
<td>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.</td>
</tr>
<tr>
<td>The Brine Tank has too much water or is not filling properly.</td>
<td>Check and tighten all fittings on Brine Tank and Electronic Head to ensure air is not getting into the Brine Tank Hose.</td>
</tr>
<tr>
<td>The system is backwashing but it is not using up any salt.</td>
<td>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.</td>
</tr>
</tbody>
</table>

### !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.
**Warranty**

**Pelican Limited Lifetime Warranty**

Pelican Water ("Pelican") warrants to the end user ("customer") that its tanks (13" and smaller), valves, in/out non-electric heads, bypass's, fittings and housings for POE systems ("Covered Items") will be free from defects in material and workmanship under normal use and service for a limited lifetime of twelve (12) years from the date of original purchase**.

**Pelican 7 Year Limited Warranty**

Pelican Water ("Pelican") warrants to the end user ("customer") that its solid-state electronic heads ("Covered Items") from April 1st, 2017 on, will be free from defects in material and workmanship under normal use and service for a period of 7 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 a"nd at Pelican's 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 PelicanWater.com to complete warranty registration form online.

Pelican Warranty Registration Form

<table>
<thead>
<tr>
<th>Date Item(s) were Received:</th>
<th>Order ID#:</th>
<th>Model:</th>
</tr>
</thead>
<tbody>
<tr>
<td>_________________________</td>
<td>_________________________</td>
<td>_________________________</td>
</tr>
</tbody>
</table>

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: (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