This manual should be kept for future reference. If you have any questions regarding your water filter, contact your local dealer, OEM, or the manufacturer at the following:

ENPRESS, LLC.  |  34899 Curtis Blvd., Eastlake Ohio 44095
Phone 866.859.9274  |  Fax 440.510.0202  |  info@enpress.com
EPA Est. 092577-OH-001
WHERE TO INSTALL

REPLACING THE CARTRIDGE

1. Turn off the water supply to the system by shutting off the inlet and outlet valves on the bypass.
2. (Optionally) Install a 3/8" PEX tubing hose to the provided John Guest® fitting and shut-off that connects to the inlet side of the filtration system. Run the hose to a floor drain or bucket, and use to drain sediment or to aid in filter removal during change-out.
3. Remove Umbrella Cap on the top of the vessel. Replace the 3-AAA batteries with new batteries. Push and hold the reset button on the metered board for 3 seconds to reset the totalizer. When the totalizer is reset the LED lights will flash green 3 times to confirm that it is reset.
4. Depressurize the system by pushing down on the red depressurization button on the top cap of the system. Keep the button pushed down until all the air or water pressure is completely released.
5. Push down the top cap with both hands to unseat the retaining ring.
6. Remove the retaining ring by carefully grasping the handle and pulling inward, then upward. The retaining ring should slide completely out of the groove.
7. Remove the top cap of the system by lifting up on the top handles, remove old filter.
8. Open the John Guest® fitting and shut-off, and flush out the bottom of the system.
9. Look down into the tank assembly, and you should see a small opening centered in the bottom of the tank.
10. Remove packaging from the new filter, place the new cartridge into the tank with the double o'ring facing down.
11. Position the cartridge so that it is aligned with the bottom, center opening.
12. Press down on the cartridge so that the double o'ring seal moves into place within the bottom, center opening.
13. Reposition the Top Cap into its original location.
14. Reattach the top tank Snap Ring, pull up on the Top Cap to seat o-rings.
15. If completed Step 2, then...) Close the John Guest® fitting and shut-off.
16. Turn the water supply on, opening the inlet and outlet valves on the bypass.
17. Relieve the system of air in the tank as the system fills with water, by pushing down on the red depressurization button on the top cap of the system. Keep the button pushed down until all the air pressure is completely released, and water comes out of the red depressurization button.
18. Release the red depressurization button.
19. Replace the Umbrella cap to the top of the system.
20. Check for leaks.
21. Flush the new cartridge per its installation instructions.
22. During flush, confirm green LED lights are flashing with flowing water. If lights are not flashing green, go back to step 3.

INSTALLING THE CARTRIDGE

The System comes preassembled without the cartridge installed.

1. Push down the top cap with both hands to unseat the retaining ring, and remove the retaining ring by carefully grasping the handle and pulling inward, then upward. The retaining ring should slide completely out of the groove.
2. Remove the Top Cap from the housing assembly by pulling the cap out of the top of the tank, by lifting up on the top handles. Place removed Top Cap on a clean and dry surface, free of debris, so no contamination of the o-ring occurs.
3. Look down into the tank assembly, and you should see a small opening centered in the bottom of the tank.
4. Remove packaging from filter, then place the cartridge into the tank with the double o'ring facing down.
5. Position the cartridge so that it is aligned with the bottom, center opening.
6. Press down on the cartridge so that the double o'ring seal moves into place within the bottom, center opening.
7. Reposition the Top Cap into its original location.
8. Reattach the top tank Snap Ring, pull up on the Top Cap to seat o-rings.
9. Run water through system for 10 minutes before use.

EASY TO UNDERSTAND LED REPLACEMENT NOTIFICATIONS

The Real-time Dynamic LED System monitors water and flow rate and provides a visual color-coded notification to the homeowner, letting them know when to replace their filter.

EASY FILTER REPLACEMENTS AND NO TOOLS REQUIRED

PIONEER uses state-of-the-art snap-ring technology to eliminate the need for cumbersome tools. Homeowners can easily replace the filter in their PIONEER system by following a few simple steps.

PRESS THE RED PRESSURE RELIEF VALVE & PULL SNAP-RING

LIFT TOP CAP

* Meter preset at 100,000 gallons, see page 6 for adjusting presets.
* Three AAA batteries not included, for battery back-up. Change annually with filter change-out.
The system and installation must comply with state and local laws and regulations.

**WARNINGs**

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 components of the system will interrupt the continuity of the plumbing system. As a result any errant electricity from improperly grounded appliances or equipment may cause shock or fire hazards.

DO NOT USE extra lubricants, unapproved sealants and tools to tighten hand tightened only parts. Use of tools other than hand tightened parts voids warranty. Testing was performed under standard laboratory conditions; actual performance may vary. Flush the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users’ water.

**PERFORMANCE**

This system conforms to NSF/ANSI standard 61 and California Prop 65 Compliant certified coconut shell carbon and raw materials.

**PART IDENTIFICATION**

<table>
<thead>
<tr>
<th>PART</th>
<th>IDENTIFICATION</th>
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<tbody>
<tr>
<td>1.</td>
<td>Filter Housing</td>
</tr>
<tr>
<td>2.</td>
<td>Bottom Inlet/Outlet cap assembly</td>
</tr>
<tr>
<td>3.</td>
<td>Vertical elbow</td>
</tr>
<tr>
<td>4.</td>
<td>Flow Meter Assembly</td>
</tr>
<tr>
<td>5.</td>
<td>Bypass manifold</td>
</tr>
<tr>
<td>6.</td>
<td>Straight or 90-degree Angled In/Out 1&quot; MNPT plumbing connectors</td>
</tr>
<tr>
<td>7.</td>
<td>3/8&quot; PEX drain valve assembly with shut-off</td>
</tr>
<tr>
<td>8.</td>
<td>Umbrella Cap with PCB assembly and battery backup</td>
</tr>
</tbody>
</table>

**NOT SHOWN:** Power Supply

**SIMPLE ASSEMBLY INSTRUCTIONS**

1. Connect #3 to #2 on the bottom of the Filter Housing #1 **HAND TIGHTEN ONLY**
2. Connect #4 to #3; Flow Meter Assembly should be placed on the Outlet Side. (Note the flow direction arrow on the meter body.) **HAND TIGHTEN ONLY**
3. Connect #5 Bypass to #4 **HAND TIGHTEN ONLY**
4. Use either part of #6 for connecting your plumbing to the system **HAND TIGHTEN ONLY**
5. Install part #7 into #3 using the threaded connection & Teflon® tape **HAND TIGHTEN ONLY**
6. Connect 3/8" PEX Plumbing to drain **NOT PROVIDED**
7. Install 3-AAA batteries to #Umbrella Cap to connect Power Supply

**Simple Assembly Diagram**

- **Part Diagram**
- **Installation Diagram**
- **Flow Diagram**

**INSTALLATION: Power Supply**

- **NOT PROVIDED**

**NOTE:** Flow direction arrows on bypass are incorrect for this filter application. Plumb unit opposite of arrows.

**DRAIN VALVE**

- System and installation must comply with state and local laws and regulations.
- **TEFLON TAPE THREADS**

**To Power Supply**

- **Do Not Overtighten**

**Flow Meter Assembly**

- Flow Meter should be placed on the Outlet Side. Note the flow direction arrow on the meter body.

- Flow Meter should be placed on the Outlet Side. Note the flow direction arrow on the meter body.

- Flow Meter Assembly is preset to 100,000 gallons for connecting your plumbing to the system for a maximum of 10 minutes prior to use. System and installation to comply with state and local laws and regulations. **DO NOT USE** extra lubricants, unapproved sealants and tools to tighten hand tightened only parts. Use of tools other than hand tightened parts voids warranty. Testing was performed under standard laboratory conditions; actual performance may vary. Flush the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users’ water.

**Specifications**

- Minimum Operating Temperature: 34 °F / 1 °C
- Maximum Operating Temperature: 120 °F / 50 °C
- Minimum Operating Pressure: 20 psig / 1.38 bar
- Maximum Operating Pressure: 125 psig / 8.6 bar

- **Electrical Requirements:** Grounded & Unswitched 115 V outlet and 3-AAA Batteries

- **Filter Replacement Operating Instructions:** New cartridges must be flushed for a minimum of 10 minutes prior to use. System and installation to comply with state and local laws and regulations. **DO NOT USE** extra lubricants, unapproved sealants and tools to tighten hand tightened only parts. Use of tools other than hand tightened parts voids warranty. Testing was performed under standard laboratory conditions; actual performance may vary. Flush the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users’ water.

**Performance Data Sheet accompanying the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users’ water.**
The overall purpose of this device is to receive a water meter input, and totalize the amount of water that passes through the meter. When there is flow through the water meter, the LEDs will begin flashing at a rate that increases with the inflow rate. When the total amount of water flowed reaches within 10% of a pre-selected amount, the LEDs will begin flashing at a rate that corresponds to the current setting. If the push button is pressed, the LEDs will begin flashing at a rate that corresponds to the current setting. Pressing the push button for less than 1 second would increment the value.

Operation

Water Meter
The totalizer keeps track of the gallons using a water meter. The water meter is a turbine style meter with a magnetic pickup that sends a pulse to the electronics for every revolution of the meter turbine. The meter turbine is removable for cleaning and inspection. Make sure water is stopped before turning off the meter for maintenance. The meter has a three pin plug that connects to the electronic board.

LEDs
Normal colors for the LEDs are Green, Yellow and Red. Depending on the Totalizer value.

• Green = 0 – 99% of the programmed totalizer maximum
• Yellow = 90 – 100% of the programmed totalizer maximum
• Red = 100% of the programmed totalizer maximum

When there is flow the LEDs should alternate turn off in the following pattern: 1-2-3-2 (repeat). The frequency that they turn off is linearly corresponding to the flow rate being received from the water meter. For every revolution from the meter, the LED pattern should be incremented to turn off the next LED. If there is no pulse every 2 seconds, all the LEDs will turn on solid.

When the battery is determined to be low, the middle LED (KO) will turn White. The battery is checked only once an hour to minimize the battery drain from checking the voltage.

Pushbutton
The pushbutton allows for the totalizer to be reset as well as the maximum value to be programmable.

To reset the totalizer, the user should press and hold the button for 3 seconds. When the totalizer is reset, LEDS should flash green 3 times to confirm that it is reset.

The push button allows the unit to be programmed for the total gallons limit. It can be programmed for a range of 10 gallons – 990,000 gallons.

To program the maximum value using the push button: Press and hold the button while powering up the board (either battery power or 12VDC power). Once the board is powered LED 1 (left LED) will represent 100,000.00 gallons and should be green. LED 2 (middle LED) will represent 10,000.00 place and should be blue. Both LEDs will be flashing at the number of flashes that corresponds to the current setting for that digit placeholder. To indicate the start of the flash sequence both LEDs should flash white for 1 second, then flash the appropriate number of times. Once both are done and reset, press LED 1. LED 2 should turn red, LED 3 should turn blue, and LED 4 should turn green.

The push button allows for quick and efficient programming through a basic terminal type interface. The board responds with a message when the enter key is pressed:

- Totalizer Current Total: 0 Gals
- Totalizer Current Max: 250,000 Gals

Consult the manufacturer for more details on connecting to the boards serial port.

Power Monitoring and Battery Mode
The board monitors the 12VDC power and the battery power. If there is a power failure and no batteries are installed, the current totalizer value will be saved to non-volatile memory. When power is resumed, the totalizer count will resume from when it had previously lost power.

The LEDs should shut off during battery mode. If the totalizer is reset to 0 gallons, the LEDs will flash high intensity for 0.125 seconds every 4 seconds. If the push button is pressed in battery mode, the LEDs will turn on for 4 seconds and then return to battery mode.

Special Notices:
- Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after installing filter system.
- Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Service trips to installation site to train user on how to use product.
- All costs of labor or expenses expended in the removal and/or installation of unit, or any surrounding device.
- Replacement of water filter cartridge due to water pressure that is outside the specified operating range or due to excessive sediment in water supply, or replacement with non-ENPRESS LLC approved cartridges, filter, or replacement parts with the appropriate systems or vessels.
- Service trips to installation site to train user on how to use product.
- Improper installation.
- The warranty provided herein applies, only when used within the product specifications and service life, from the date of installation, beyond which ENPRESS LLC is absolved of any and all liability for any use of the product. There are no other warranties, either of merchantability or fitness, either expressed or implied. Some states do not allow exclusion or limitation of incidental or consequential damages.
- Any costs of labor or expenses expended in the removal and/or installation of unit, or any surrounding device.
- Damage to property caused by accident, fire, floods, acts of God.
- We assume no liability and extend no warranties, expressed or implied, for the use of this product with a non-potable water source or a water source which does not meet the conditions for use described in the owner’s guide or performance data sheet for the product.
- Service trips to installation site to train user on how to use product.
- Improper installation.
- Damage to property caused by accident, fire, floods, acts of God.
- Modification or alteration by other than ENPRESS LLC employees.
- Improper installation.
- Note that while testing was performed under standard laboratory conditions, actual performance may vary. Systems using these filters must be installed and operated in accordance with manufacturer’s recommended procedures and guidelines.

Limited Liability: ENPRESS LLC makes no warranties of any kind, expressed or implied, statutory or otherwise, and expressly disclaims all warranties of any kind, concerning the product, including, without limitation, warranties of merchantability and fitness for a particular purpose, except that this product shall be capable of performing as described in this product’s data sheet. ENPRESS LLC’s obligation with respect to the purchase price or replacement of the product, effective in ENPRESS LLC’s sole discretion. Determination of suitability of this product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer’s acceptance of this Limited Liability.
NOTES

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POWERED BY

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Where Innovation Flows™
Water Filtration Simplified™

For more information, visit enpress.com or onefiltration.com

FOR PURCHASES MADE IN IOWA

This form must be signed and dated by the buyer and seller prior to the consummation of this sale. This form should be retained on file by the seller for a minimum of two years.

Buyer’s Name (printed)  Buyer’s Signature  Date
Seller’s Name (printed)  Seller’s Signature  Date

This ENPRESS system is certified by IAPMO R&T against NSF/ANSI Standards 53 and P473 (also CSA B463.3) for the reduction of claims specified on the performance data sheet.

COMPONENT

The ENPRESS pressure vessel is tested and certified by NSF International against NSF/ANSI Standard 61 for materials and structural integrity requirements.