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## Neo-Pure TP-12P

# Neo-Pure TP-12P Reverse Osmosis Storage Tank Instruction Manual

Model: TP-12P

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Neo-Pure TP-12P Reverse Osmosis (RO) Storage Tank. Please read these instructions thoroughly before proceeding with installation or use to ensure optimal performance and longevity of the product.

## 2. PRODUCT OVERVIEW

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### 2.1 Key Features

- **Capacity:** 3.2 Gallons (Nominal)
- **Construction:** Powder Coated Steel exterior with Virgin Polypropylene liner
- **Diaphragm:** High-grade Chlorobutyl
- **Water Connection:** Stainless steel
- **Inlet/Outlet Size:** 1/4" MPT
- **Included:** Tank shut-off valve (Female Elbow 1/4" FPT x 3/8" Quick-Connect)
- **Certifications:** CE approved, BPA free
- **Stand:** Plastic tank stand included

### 2.2 Components

The Neo-Pure TP-12P RO Storage Tank is designed to store purified water from a reverse osmosis system. Key components include:

- **Metal Shell:** The outer powder-coated steel casing provides structural integrity.
- **Virgin Polypropylene Liner:** An internal liner that ensures water purity by preventing contact with the metal shell.
- **High-Grade Butyl Diaphragm:** Separates the air pre-charge chamber from the water chamber, maintaining pressure and facilitating water delivery.

- **Stainless Steel Water Connection:** The port where the tank connects to the RO system.
- **Air Valve:** Located at the top or bottom, used to adjust the air pre-charge pressure.
- **Tank Shut-off Valve:** Included for connecting the tank to the RO system and controlling water flow.



Image 2.1: Front view of the Neo-Pure TP-12P Reverse Osmosis Storage Tank.

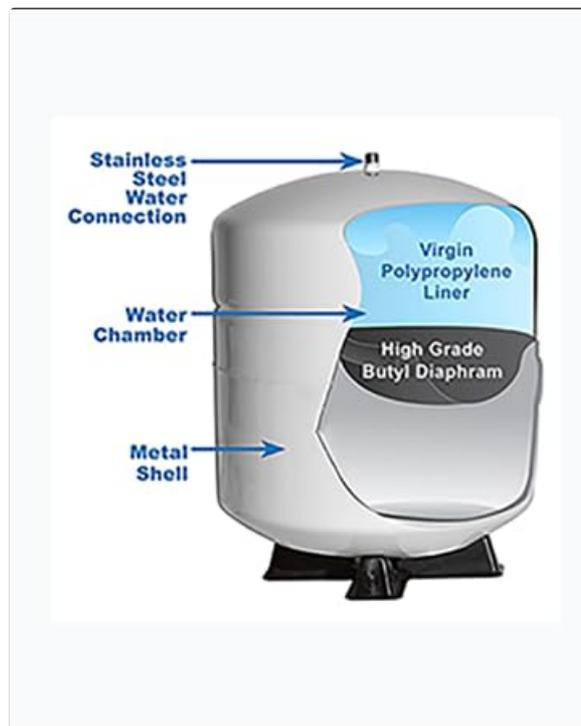


Image 2.2: Diagram illustrating the internal components of the RO storage tank, including the metal shell, virgin polypropylene liner, high-grade butyl diaphragm, and stainless steel water connection.

## 3. SETUP AND INSTALLATION

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### 3.1 Before You Begin

- Ensure all necessary tools and fittings are available.
- Verify the tank's pre-charge pressure. The factory pre-charge is typically 5-7 PSI (pounds per square inch) without water. Use a low-pressure gauge to check and adjust if necessary.
- Position the tank in a suitable location, typically under the sink, ensuring it is level and stable.

### 3.2 Installation Steps

1. **Prepare the Tank:** Place the plastic tank stand on a flat, stable surface. Carefully place the RO storage tank onto the stand.
2. **Install the Shut-off Valve:** Wrap the threaded end of the tank's stainless steel water connection with 3-4 turns of PTFE (Teflon) tape in a clockwise direction. Thread the included Female Elbow 1/4" FPT x 3/8" Quick-Connect shut-off valve onto the tank's connection. Hand-tighten, then use a wrench to tighten an additional 1/4 to 1/2 turn. Do not overtighten.
3. **Connect to RO System:** Connect the 3/8" Quick-Connect end of the shut-off valve to the purified water line from your Reverse Osmosis system. Ensure the connection is secure and leak-free.
4. **Check for Leaks:** Slowly turn on the water supply to the RO system and check all connections for leaks. Tighten any leaking connections as needed.
5. **Fill the Tank:** Allow the RO system to fill the tank completely. This may take several hours depending on your system's production rate. The tank is full when the water flow from the RO faucet slows to a trickle or stops.
6. **Flush the Tank:** Once the tank is full, open the RO faucet and allow the tank to completely drain. This flushes out any manufacturing residue. Repeat the fill and drain cycle at least two to three times before consuming water.



Image 3.1: Example of an RO storage tank installed under a kitchen sink, connected to a reverse osmosis filtration system.

## 4. OPERATION

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The Neo-Pure TP-12P RO Storage Tank operates automatically in conjunction with your reverse osmosis system. As purified water is produced, it flows into the tank, compressing the air bladder. When the RO faucet is opened, the compressed air pushes the stored water out of the tank and through the faucet.

- The tank maintains a reserve of purified water, ensuring immediate access when needed.
- The system's auto shut-off valve will stop water production once the tank is full and restart when water is drawn from the tank.

## 5. MAINTENANCE

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Regular maintenance ensures the efficient operation and longevity of your RO storage tank.

- **Air Pre-charge Check:** Periodically (e.g., every 6-12 months), check the air pre-charge pressure when the tank is empty of water. The recommended pressure is typically 5-7 PSI. Adjust with a bicycle pump or air compressor if necessary.
- **Cleaning:** The exterior of the tank can be wiped clean with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Temperature Limits:** Do not expose the tank to temperatures exceeding 104°F (40°C).
- **System Sanitization:** Follow the sanitization schedule recommended for your overall RO system, which typically includes flushing the tank.

## 6. TROUBLESHOOTING

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Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No water or very low flow from RO faucet	Tank air pre-charge is too low or lost.	Empty the tank, check and adjust air pre-charge to 5-7 PSI.
Tank does not fill completely	Tank air pre-charge is too high.	Empty the tank, check and adjust air pre-charge to 5-7 PSI.
Water tastes or smells unusual after initial setup	Insufficient flushing after installation.	Repeat the tank fill and drain cycle 2-3 more times.
Leaks at connections	Loose fittings or insufficient PTFE tape.	Turn off water supply, re-tape and tighten connections.

## 7. SPECIFICATIONS

Specification	Value
Model Number	TP-12P
Nominal Capacity	3.2 Gallons
Product Dimensions (L x W x H)	9.5" x 9.5" x 14.5"
Inlet/Outlet Size	1/4" MPT
Maximum Temperature	104°F (40°C)
Maximum Supported Water TDS Level	10 PPM
Manufacturer	PA-E
UPC	352584337998

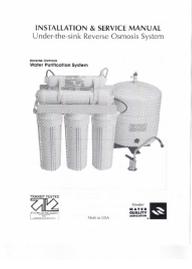
## 8. WARRANTY AND SUPPORT

For warranty information and technical support regarding your Neo-Pure TP-12P Reverse Osmosis Storage Tank, please contact Neo-Pure directly or refer to the documentation provided with your complete Reverse Osmosis system. Keep your purchase receipt for warranty claims.

**Manufacturer:** PA-E

**Brand:** Neo-Pure

**Related Documents - TP-12P**

 <p><b>NP217</b> Water Filter Replacement Cartridge</p> <p>Maximum Applications: Residential &amp; Commercial</p> <p>Reduces sediment, chlorine taste, and odors. Includes flow rate, capacity, materials, and dimensions.</p> <p><b>PRODUCT SPECIFICATIONS</b></p> <p><b>QUESTIONS?</b></p> <p><b>CONTAMINANTS REDUCED</b></p>	<p><a href="#">neoPure NP217 Water Filter Replacement Cartridge - Residential &amp; Commercial Filtration</a></p> <p>Detailed specifications and features of the neoPure NP217 water filter replacement cartridge, designed for residential and commercial use, reducing sediment, chlorine taste, and odors. Includes flow rate, capacity, materials, and dimensions.</p>
 <p><b>W Series</b> Wound Depth Cartridges</p> <p>Maximum Applications: Industrial, Commercial, Residential</p> <p>Reduces sediment, chlorine taste, and odors. Includes flow rate, capacity, materials, and dimensions.</p> <p><b>PRODUCT SPECIFICATIONS</b></p> <p><b>QUESTIONS?</b></p> <p><b>CONTAMINANTS REDUCED</b></p>	<p><a href="#">neoPure W Series Wound Depth Cartridges - Premium Series Datasheet</a></p> <p>Detailed specifications, applications, and ordering guide for neoPure W Series Premium Series Wound Depth Cartridges. Features include various micron sizes, lengths, and materials for industrial, commercial, and residential filtration.</p>
 <p><b>neo-pure</b> The High Efficiency Reverse Osmosis Drinking Water System Installation, Operation and Service Manual</p> <p>PRO-41000-A Series</p> <p>Comprehensive installation, operation, and service manual for the Neo-Pure PRO-41000A Series High Efficiency Reverse Osmosis Drinking Water System. Includes troubleshooting, maintenance, and warranty information.</p>	<p><a href="#">Neo-Pure PRO-41000A Series High Efficiency Reverse Osmosis Drinking Water System Installation, Operation, and Service Manual</a></p> <p>Comprehensive installation, operation, and service manual for the Neo-Pure PRO-41000A Series High Efficiency Reverse Osmosis Drinking Water System. Includes troubleshooting, maintenance, and warranty information.</p>
 <p><b>MB Series</b> High Efficiency Melt Blown Sediment Cartridges</p> <p>Maximum Applications: Residential &amp; Commercial</p> <p>Reduces sediment, chlorine taste, and odors. Includes flow rate, capacity, materials, and dimensions.</p> <p><b>PRODUCT SPECIFICATIONS</b></p> <p><b>QUESTIONS?</b></p> <p><b>CONTAMINANTS REDUCED</b></p>	<p><a href="#">neoPure MB Series High Efficiency Melt Blown Sediment Cartridges</a></p> <p>Detailed information on neoPure MB Series High Efficiency Melt Blown Sediment Cartridges, including product specifications, applications, ordering guide, and dimensions. Designed for economical and efficient filtration with high dirt-holding capacity and NSF certification.</p>
 <p><b>NP-KWGN</b> FRE-10GN Compatible Water Filter</p> <p>Maximum Applications: Camping / Traveling / Outdoor</p> <p>Reduces sediment, chlorine taste, and odors. Includes flow rate, capacity, materials, and dimensions.</p> <p><b>PRODUCT SPECIFICATIONS</b></p> <p><b>QUESTIONS?</b></p> <p><b>CONTAMINANTS REDUCED</b></p>	<p><a href="#">neoPure NP-KWGN FRE-10GN Compatible Water Filter Specifications and Applications</a></p> <p>Detailed product information for the neoPure NP-KWGN water filter, compatible with FRE-10GN and FRE-10H housings. Features include filtration applications for camping/travel, product specifications, and contaminants reduced.</p>
 <p><b>INSTALLATION &amp; SERVICE MANUAL</b> Under the sink Reverse Osmosis System</p> <p>Comprehensive installation, service, and maintenance manual for the Nugen Pure Water Systems OEM under-sink reverse osmosis water purification system. Includes setup guides, troubleshooting, and warranty information.</p>	<p><a href="#">Nugen Pure Water Systems OEM Under-Sink Reverse Osmosis Installation and Service Manual</a></p> <p>Comprehensive installation, service, and maintenance manual for the Nugen Pure Water Systems OEM under-sink reverse osmosis water purification system. Includes setup guides, troubleshooting, and warranty information.</p>