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ESP Water Products TKE-TP35

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Model: TKE-TP35

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ESP Water Products TP-35 Reverse Osmosis (RO) Water Storage Tank. The TP-35 is designed to store and deliver filtered RO water, ensuring a consistent supply for residential and light commercial applications. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.

SAFETY INFORMATION

- Always depressurize the tank before attempting any maintenance or disconnection.
- Do not expose the tank to freezing temperatures.
- Ensure all connections are secure to prevent leaks.
- Do not over-pressurize the tank beyond recommended specifications.
- Use appropriate tools and follow all local plumbing codes during installation.

PACKAGE CONTENTS

Verify that all items are present in the package:

- TP-35 Reverse Osmosis Water Storage Tank
- Tank Stand

SETUP AND INSTALLATION

The TP-35 tank is designed for easy integration with most under-sink RO filtration systems. It measures 21.2" x 12.5" and features a 1/4" male connection.

Pre-Installation Check:

1. **Inspect the Tank:** Carefully examine the tank for any signs of damage during shipping.
2. **Check Air Pre-Charge:** The tank comes pre-charged with air. Verify the pressure using a low-pressure gauge. The recommended pre-charge pressure is typically 7-10 PSI (pounds per square inch) when empty. Adjust if necessary using a bicycle pump or air compressor. Do not exceed 10 PSI when empty.

Installation Steps:

1. **Position the Tank:** Place the tank on its stand in a suitable location, typically under the sink, ensuring it is upright and stable.
2. **Connect to RO System:** Connect the 1/4" male connection of the tank to the RO system's post-filter line using appropriate fittings (not included). Ensure a tight, leak-free connection.
3. **Turn on Water Supply:** Slowly open the cold water supply valve to the RO system.
4. **Check for Leaks:** Carefully inspect all connections for any signs of leaks. Tighten connections as needed.
5. **Initial Fill and Flush:**
 - Allow the RO system to fill the tank completely. This may take several hours depending on water pressure and membrane efficiency.
 - Once the tank is full (water flow from the faucet slows to a trickle or stops), open the RO faucet and drain the tank completely. This flushes out any manufacturing residues.
 - Repeat the fill and drain cycle at least two to three times before consuming the water.



Figure 1: The ESP Water Products TP-35 Reverse Osmosis Water Storage Tank. This image shows the white cylindrical tank with a black base, featuring a label on its side and a connection point at the top.

OPERATING INSTRUCTIONS

Once installed and flushed, the TP-35 tank operates automatically with your RO system. It stores purified water and delivers it on demand when the RO faucet is opened.

- The tank's 9.2-gallon total volume provides approximately 5.5 gallons of usable water at 40 PSI, as a portion of the space is occupied by air pressure.
- Water flow from the RO faucet will be consistent until the tank is nearly empty, at which point the flow rate will decrease.
- The RO system will automatically refill the tank after water is drawn.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your TP-35 RO tank.

- **Air Pressure Check (Annually):**
 - Close the water supply to the RO system.
 - Open the RO faucet and drain the tank completely until water flow stops.
 - Use a low-pressure gauge to check the air pressure at the valve on top of the tank.
 - The pressure should be between 7-10 PSI. Adjust with a bicycle pump if necessary. Do not over-pressurize.
 - Close the RO faucet, open the water supply, and allow the tank to refill.
- **Tank Cleaning:** The internal food-grade polypropylene liner and chlorobutyl diaphragm are designed to maintain water purity. External cleaning can be done with a damp cloth. Do not use harsh chemicals.
- **System Sanitization:** Follow the sanitization procedures recommended for your overall RO filtration system, which typically includes flushing the tank.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No water or very slow flow from RO faucet.	Low tank pressure, clogged filters, or faulty RO membrane.	Check tank air pressure (should be 7-10 PSI when empty). Replace filters or RO membrane if necessary.
Tank does not fill completely.	Low incoming water pressure, clogged filters, or faulty auto shut-off valve.	Verify adequate incoming water pressure. Replace filters. Inspect or replace auto shut-off valve.
Water tastes or smells unusual.	Contaminated filters or tank.	Perform a full system sanitization and replace all filters. Flush the tank thoroughly.
Water leaks from tank connections.	Loose fittings or damaged O-rings/seals.	Tighten connections. Inspect and replace O-rings or seals if damaged.

SPECIFICATIONS

- **Model:** TP-35 (TKE-TP35)
- **Brand:** ESP Water Products (Manufactured by PAE)
- **Total Capacity:** 9.2 Gallons
- **Working Capacity:** Approximately 5.5 Gallons (at 40 PSI)
- **Dimensions (L x W x H):** 12.5" x 12.5" x 21.2"
- **Weight:** 18 Pounds (empty)
- **Connection Size:** 1/4" Male NPT
- **Liner Material:** Food-grade Polypropylene
- **Diaphragm Material:** High-grade Chlorobutyl
- **Connector Material:** Stainless Steel
- **Maximum Supported Water TDS Level:** 1000 PPM
- **Upper Temperature Rating:** 180°F (82°C)

- **Certifications:** NSF-58 and CE approved

WARRANTY AND SUPPORT

For warranty information or technical support, please contact ESP Water Products directly. Refer to your purchase documentation for specific warranty terms and contact details.

Manufacturer: PAE

Item Model Number: TKE-TP35

ASIN: B007KDYFT2