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FRIZZLIFE PD600-TAM3

Frizzlife PD600-TAM3 Alkaline Reverse Osmosis System User Manual

Model: PD600-TAM3 | Brand: FRIZZLIFE

Introduction	Features	Components	Setup & Installation	Operation	Maintenance
Troubleshooting			Specifications	Support	

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Frizzlife PD600-TAM3 Alkaline Reverse Osmosis Water Filter System. This tankless system is designed to provide high-quality, alkaline, and remineralized drinking water directly from your tap, reducing Total Dissolved Solids (TDS) and other contaminants.



Figure 1: Overview of the Frizzlife PD600-TAM3 Alkaline Reverse Osmosis System, including the main unit, TAM3 filter, and brushed nickel faucet.

2. KEY FEATURES

- **Remineralization & Alkalization:** The 3rd stage filter balances the alkalinity of RO water, adjusting the pH to above 7.5, and restores essential health-benefiting minerals.
- **Tankless Design:** A compact and sleek system that saves under-sink space and eliminates the risk of secondary pollution associated with traditional tanks.
- **600 GPD High Water Flow:** Produces up to 600 gallons of water per day, providing fast and stable water flow, capable of filling a 330ml cup in approximately 10 seconds.
- **2:1 Low Drain Ratio:** Utilizes advanced water-saving technology to maximize efficiency, saving up to 450% more water compared to conventional RO systems.
- **Smart LED Display & Quick Change:** Features a smart display panel showing real-time TDS output and remaining filter lifespan. Color-coded indicators provide timely reminders for filter changes. Filters are designed for quick, tool-free replacement.

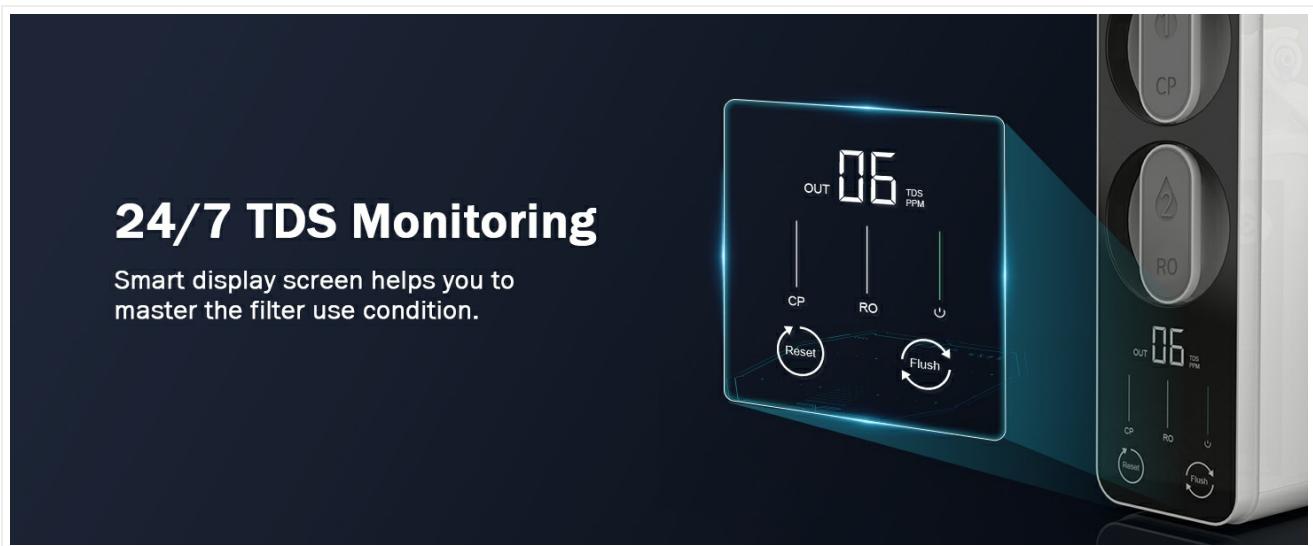


Figure 2: The 8-stage deep filtration process, including pleated sediment, ACF1, ACF2, PP, RO membrane, and TAM3 alkaline remineralization, removing over 1000 contaminants.

Why Alkaline Water?

Frizzlife produce a high quality alkaline water which provides optimal hydration and helps neutralize your body

- pro-aging properties (via liquid antioxidants that absorb more quickly into the human body)
- colon-cleansing properties
- immune system support
- hydration, skin health, and other detoxifying properties
- weight loss

Acidic water directly from reverse osmosis has positive ORPs, which lead to many health problems, while alkalinized water from PD600+TAM3 unit has highly negative ORPs

For example, a 2012 in vitro study found that drinking naturally carbonated artesian-well alkaline water with a pH of 8.8 may help deactivate pepsin, the main enzyme that causes acid reflux. However, more human studies are needed to explore these findings.

Researchers in Japan conducted a small 2018 study that suggested that drinking alkaline electrolyzed water slightly improved stool in 60 participants.

A 2016 study that included 100 people found a significant difference in whole blood viscosity after consuming high-pH water compared to regular water after a strenuous workout. Viscosity is the direct measurement of how efficiently blood flows through the vessels.

Does alkaline water have side effects?

Alkaline drinking water is considered safe. Currently, there's no evidence that demonstrates negative side effects.

Figure 3: Explanation of why alkaline water is beneficial, highlighting optimal hydration, better taste, enhanced immunity, and microelement supplementation.

3. WHAT'S IN THE BOX

Upon unpacking, please ensure all the following components are present:

- CP filter (Composite Filter)
- 600G RO membrane (Reverse Osmosis Membrane)
- TAM3 Alkaline filter (Alkaline Remineralization Filter)
- Brushed nickel faucet
- Necessary tubing and connectors for installation
- Power adapter
- Drain saddle
- Feed water adapter

4. SETUP & INSTALLATION

The Frizzlife PD600-TAM3 system is designed for under-sink installation. Follow these general steps for a successful setup. Refer to the detailed installation diagram and video for visual guidance.

4.1 Installation Diagram

INSTALLATION DIAGRAM

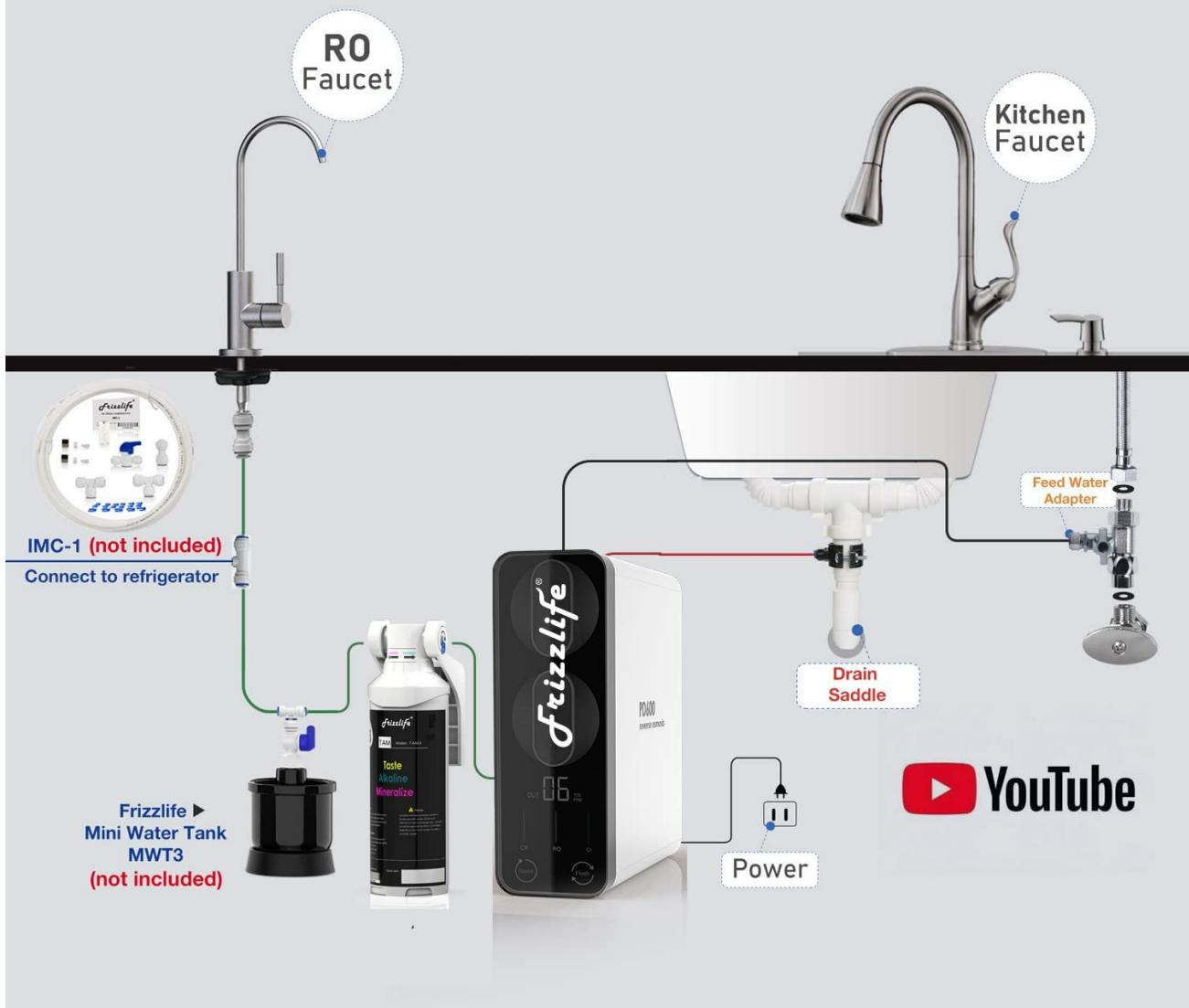


Figure 4: Comprehensive installation diagram illustrating the connections for the RO faucet, feed water adapter, drain saddle, and power supply. Optional connections for a refrigerator or mini water tank are also shown (accessories not included).

4.2 General Installation Steps

- 1. Prepare the Area:** Ensure sufficient space under your sink for the main unit and the TAM3 filter. Turn off the cold water supply.
- 2. Install the RO Faucet:** Drill a hole in your sink or countertop (if not already present) and install the dedicated RO faucet. Secure it firmly.
- 3. Connect to Cold Water Supply:** Install the feed water adapter to your cold water line. Connect the inlet tubing from the RO system to this adapter.
- 4. Install the Drain Saddle:** Attach the drain saddle to the drain pipe under your sink. Connect the drain tubing from the RO system to the drain saddle.
- 5. Mount the Main Unit and TAM3 Filter:** Place the main RO unit and the TAM3 filter in their desired positions under the sink. Ensure the TAM3 filter is connected correctly to the main unit.
- 6. Connect Tubing:** Connect the purified water tubing from the TAM3 filter to the RO faucet. Ensure all connections are secure and leak-free.

7. **Power Connection:** Plug the power adapter into an electrical outlet.
8. **Flush the System:** Turn on the cold water supply. Open the RO faucet and allow the system to flush for at least 30 minutes to remove air and carbon fines. Check for any leaks.

4.3 Under-Sink Placement Example



Figure 5: An example of the Frizzlife PD600-TAM3 system installed under a kitchen sink, showcasing its compact footprint and tankless design, which saves significant space.

5. OPERATING INSTRUCTIONS

The Frizzlife PD600-TAM3 system is designed for straightforward operation with intelligent monitoring features.

5.1 Water Dispensing

Simply open the dedicated RO faucet to dispense purified water. The system will automatically activate and begin filtration. Close the faucet to stop the flow.

5.2 Smart LED Display

The main unit features a smart LED display that provides crucial information:

- **Real-time TDS Output:** Displays the Total Dissolved Solids (TDS) level of the purified water, allowing you to monitor water quality.
- **Filter Lifespan Indicators:** Shows the remaining lifespan of each filter (CP, RO, TAM3) through color-coded indicators or numerical values, prompting timely replacements.
- **Flush Function:** A dedicated button for flushing the system, which is recommended periodically or after filter changes.
- **Reset Function:** A button to reset filter lifespan indicators after new filters are installed.



Figure 6: The smart LED display provides 24/7 TDS monitoring and indicates the status of the CP, RO, and TAM3 filters, along with flush and reset buttons.

5.3 Low Drain Ratio Operation

The system operates with an efficient 2:1 pure water to drain water ratio, meaning for every 2 gallons of purified water produced, only 1 gallon is sent to the drain. This significantly reduces water waste compared to older RO technologies.

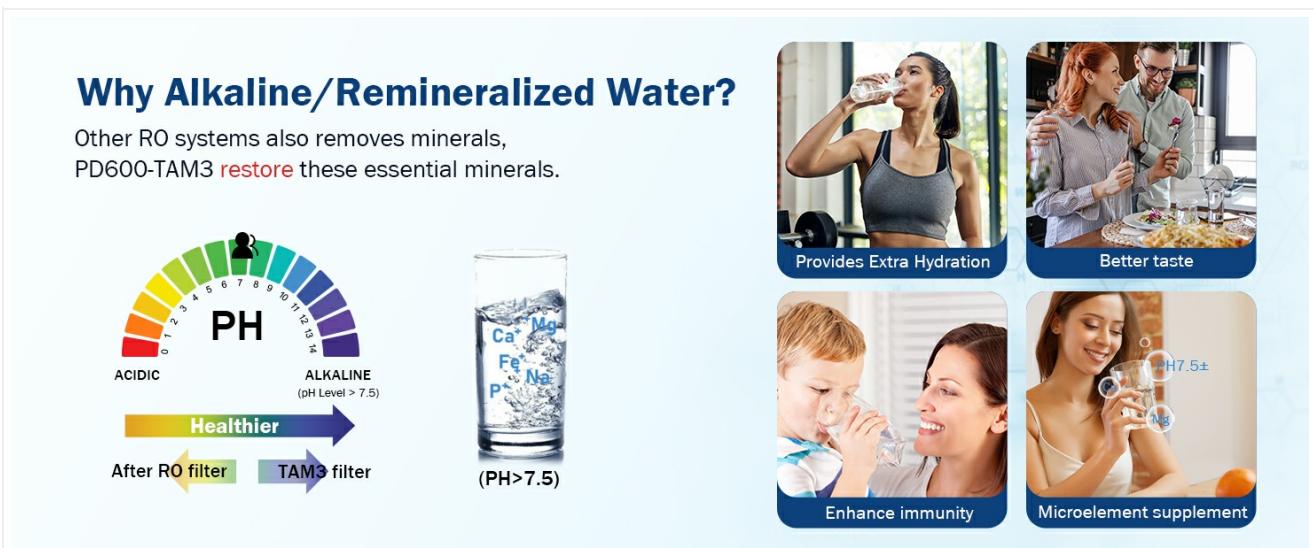


Figure 7: Illustration of the system's 2:1 low drain ratio, demonstrating its water-saving efficiency.

6. MAINTENANCE

Regular filter replacement is crucial for maintaining optimal water quality and system performance. The smart LED display will indicate when filters need changing.

6.1 Filter Replacement Schedule

- **CP Filter (Composite Filter):** Recommended replacement every 12 months.
- **TAM3 Alkaline Filter:** Recommended replacement every 12 months.
- **600G RO Membrane:** Recommended replacement every 24 months.

Note: Filter lifespan may vary based on local water quality and usage volume.

6.2 Quick Change Filter Design

The Frizzlife PD600-TAM3 features a "Twist and Pull" design for easy, tool-free filter replacement, typically taking only a few seconds per filter.



Figure 8: The "Twist and Pull" mechanism simplifies filter replacement, allowing for changes in seconds without tools.



Figure 9: Frizzlife filters are designed to be larger for extended service life, contributing to an eco-friendly choice by reducing the frequency of replacements.

6.3 Post-Replacement Procedure

After replacing any filter, press the corresponding reset button on the LED display to reset the filter lifespan indicator. It is also recommended to flush the system for 5-10 minutes after filter replacement to ensure optimal performance and remove any air or loose carbon particles.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Frizzlife PD600-TAM3 system. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Low Water Flow	Clogged filters, low incoming water pressure, air in the system.	Check filter lifespan indicators and replace if necessary. Ensure main water supply is fully open. Flush the system to remove air. Verify adequate incoming water pressure.
Water Leaks	Loose connections, improperly seated O-rings, damaged tubing.	Turn off water supply immediately. Inspect all connections and tighten them. Ensure O-rings are correctly seated. Replace any damaged tubing.
High TDS Reading	Worn-out RO membrane, incorrect filter installation, high incoming TDS.	Check RO membrane lifespan and replace if due. Ensure all filters are installed correctly. If incoming TDS is extremely high, the system may require more frequent RO membrane replacement.
Unusual Taste/Odor	Expired or saturated pre-filters (CP filter), new filter break-in period.	Replace the CP filter if its lifespan is depleted. Flush the system thoroughly after new filter installation to remove any residual taste from new carbon filters.
No Power/Display Off	Power outage, loose power connection, faulty adapter.	Check power outlet and ensure the adapter is securely plugged in. Test the outlet with another device. Contact support if the issue persists.

8. PRODUCT SPECIFICATIONS

Feature	Detail
Model Name	PD600-TAM3
Product Dimensions (L x W x H)	14.7" x 5.3" x 15.5"
Daily Production Capacity	600 Gallons Per Day (GPD)
Maximum Flow Rate	0.41 Gallons Per Minute (GPM)
Installation Type	Under Sink
Power Source	Corded Electric
Lower Temperature Rating	38 Degrees Fahrenheit (3.3°C)
Upper Temperature Rating	100 Degrees Fahrenheit (37.8°C)
Special Features	Change Filter Indicator, Smart TDS Display, Alkaline/Remineralize, Reduce TDS, Tankless Design
Drain Ratio	2:1 (Pure to Drain)

9. WARRANTY AND CUSTOMER SUPPORT

Frizzlife is committed to providing high-quality products and excellent customer service. For any questions,

concerns, or technical assistance, please do not hesitate to contact our support team.

9.1 Customer Service Availability

Our customer service team is available 7 days a week, 24 hours a day, to assist you with your Frizzlife product.



Figure 10: Frizzlife offers 7/24 customer service for all inquiries and support needs.

9.2 Contact Information

Please refer to the contact details provided in your product packaging or visit the official Frizzlife website for the most up-to-date support information.