

FRIZZLIFE FAF100

Frizzlife FAF100 4-Stage RODI Reverse Osmosis Filter System User Manual

Brand: FRIZZLIFE | Model: FAF100

INTRODUCTION

The Frizzlife FAF100 is a compact 4-stage Reverse Osmosis Deionization (RODI) filter system designed to provide highly purified water. This system is ideal for aquariums, including those housing tropical fish, discus, and marine life, ensuring water quality meets specific needs. Its versatile design also makes it suitable for use in apartments, RVs, vacation homes, yachts, boats, or any location requiring pure water, offering a practical solution where permanent installation might not be feasible.

The FAF100 system incorporates a comprehensive filtration process to effectively remove a wide range of contaminants and significantly reduce Total Dissolved Solids (TDS) to near 0 ppm.

Part List

1. FAF-RO100 Membrane
2. CTO210W Activated Carbon Filter
3. PP210W Sediment Filter
4. DI210C Deionization Filter
5. 1/4" Tubing
6. Water Faucet Connector 3/4" BSP - 1/4"
7. Drinking Water Connector FD03
8. Membrane Housing Wrench
9. Tubing Wrench
10. Brackets for Wall Mounting
11. Clamps for DI cartridge
12. Screws and Dowels
13. Lock Clips



Image: The Frizzlife FAF100 system is suitable for aquariums, RVs, and boats, providing pure water in diverse environments.

SETUP AND INSTALLATION

The Frizzlife FAF100 RO water filter kit is designed for easy installation, with most components pre-assembled. The entire setup process typically takes about 10 minutes by following the step-by-step instructions provided in this manual.

Package Contents:

- FAF-RO100 Membrane
- CTO210W Activated Carbon Filter
- PP210W Sediment Filter
- DI210C Deionization Filter
- 1/4" Tubing
- Water Faucet Connector 3/4" BSP - 1/4"
- Drinking Water Connector FD03

- Membrane Housing Wrench
- Tubing Wrench
- Brackets for Wall Mounting
- Clamps for DI cartridge
- Screws and Dowels
- Lock Clips

Special Design For Aquariums Use or Residential Use



Image: A detailed list of all components included in the FAF100 package, with corresponding visual references.

Connecting to Your Faucet:

The system is compatible with M22, F24, and 3/4" male threaded faucets. Use the provided quick faucet connector and T-faucet diverter to connect the system to your water supply. This diverter allows you to switch between regular tap water and the RO system as needed.

1. Identify the appropriate faucet adapter for your tap.
2. Attach the quick faucet connector to your faucet.
3. Connect the 1/4" tubing from the RO system to the quick connector.

4. Ensure all connections are secure to prevent leaks.



Image: Examples of faucet connections, including a 3/4" BSP connection and a drinking water faucet connector.

Wall Mounting (Optional):

For a more permanent setup, you can mount the system on a wall using the provided brackets, screws, and dowels. Ensure the mounting location is stable and allows for easy access for maintenance.

OPERATING INSTRUCTIONS

The Frizzlife FAF100 system utilizes a 4-stage filtration process to produce up to 100 GPD (approximately 360 liters per day) of purified water. To operate, simply connect the system to your faucet and open the tap when purified water is needed.

4-Stage Filtration Process:

1. **Sediment Filter (5 micron):** Removes large particles such as rust, dirt, and sand.
2. **Activated Carbon Filter (5 micron):** Removes chlorine, VOCs, cysts, bad taste, and odor, conditioning water

prior to the RO membrane.

3. **Reverse Osmosis Membrane (0.0001 micron):** Eliminates over 99.99% of harmful contaminants (over 1000 types), including but not limited to chlorine, fluoride, lead, heavy metals, arsenic, cysts, and VOCs from water, reducing Total Dissolved Solids (TDS) by over 99%.
4. **Color-Changing Deionization Filter:** A mixed-bed DI filter used to further reduce the TDS of membrane-filtered water to near 0 ppm. This filter contains high-capacity mixed-bed ion exchange resin.



Image: Visual representation and description of each of the four filtration stages.

Flush Valve Operation:

The system includes a flush valve to maintain the efficiency and lifespan of the RO membrane. Periodically opening the flush valve helps to rinse the membrane, preventing buildup of contaminants.

- **Open:** Flush RO membrane.
- **Close:** Produce pure water.

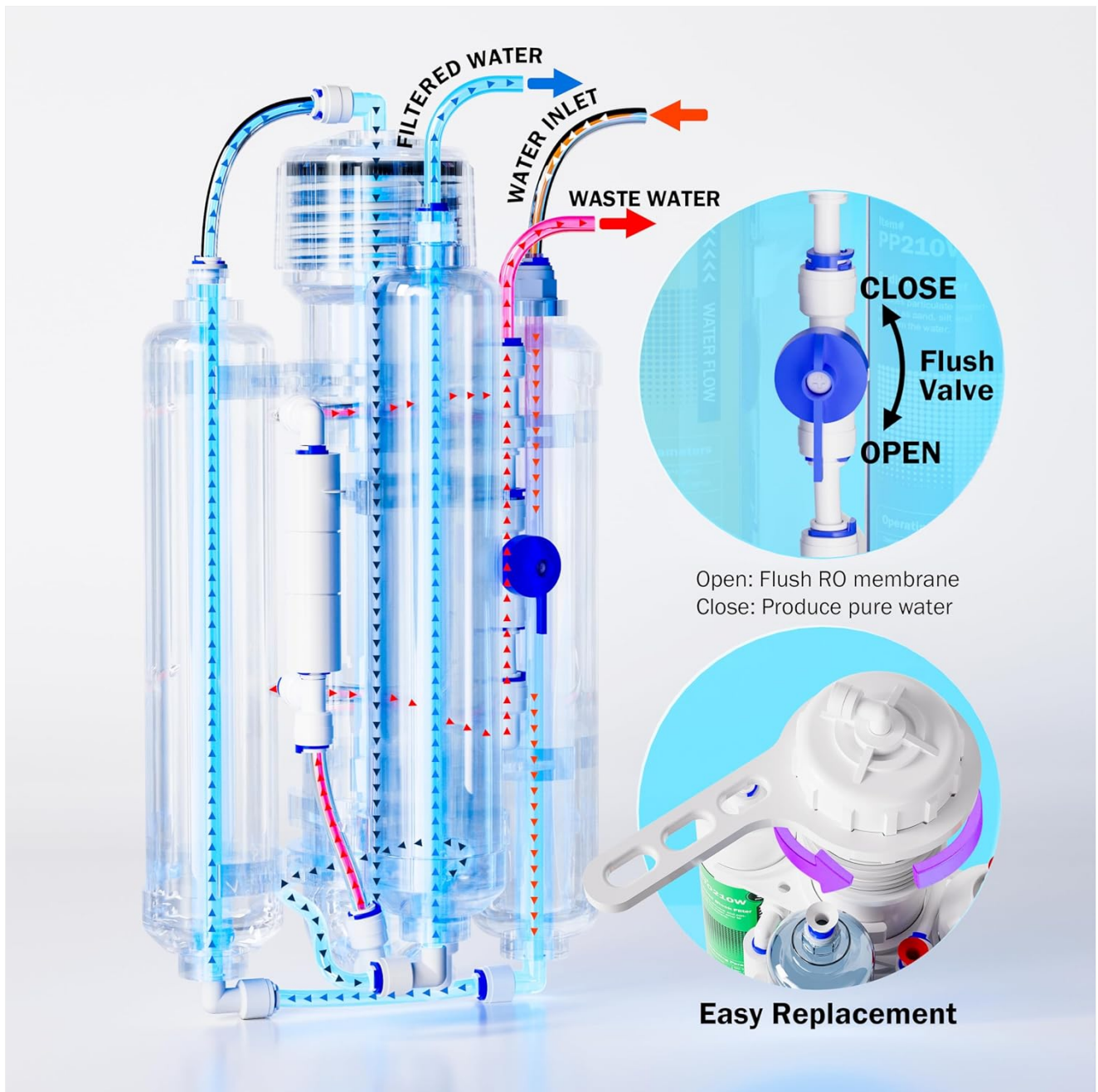


Image: Water flow diagram illustrating the path of water through the system, including the flush valve.

MAINTENANCE

Regular maintenance, primarily filter replacement, is crucial for the optimal performance and longevity of your Frizzlife FAF100 system.

DI Resin Filter Replacement:

The DI resin filter is designed to change color as it becomes exhausted. It will physically change from blue to light brown, indicating that it is time for replacement to maintain ultra-low TDS levels.



Image: The DI resin filter changes color from blue to light brown when exhausted, signaling the need for replacement to maintain near-zero TDS.

General Filter Replacement:

The lifespan of the sediment, activated carbon, and RO membrane filters depends on your water quality and usage. It is recommended to replace the sediment and carbon filters every 6-12 months, and the RO membrane every 1-2 years, or as indicated by a decrease in water production or an increase in TDS levels.

To replace filters:

1. Turn off the water supply to the system.
2. Use the provided housing wrench to unscrew the filter housings.
3. Remove the old filters and dispose of them properly.
4. Insert new filters, ensuring they are correctly seated.
5. Screw the housings back on tightly, hand-tighten, then use the wrench for a quarter turn.
6. Turn on the water supply and check for leaks.

This section addresses common issues you might encounter with your Frizzlife FAF100 RODI system.

Low Water Production:

- **Check water pressure:** Ensure your incoming water pressure is adequate (typically 40-80 PSI).
- **Clogged filters:** Sediment and carbon filters can become clogged, reducing flow. Replace them if they are past their recommended lifespan or appear dirty.
- **Clogged RO membrane:** The RO membrane can become fouled. Try flushing the membrane using the flush valve. If production remains low, the membrane may need replacement.
- **Temperature:** Colder water reduces RO production.

High TDS in Purified Water:

- **Exhausted DI resin:** Check the color of the DI resin filter. If it has changed from blue to light brown, it needs to be replaced.
- **Damaged RO membrane:** If the RO membrane is compromised, it will allow more contaminants to pass through. This usually requires membrane replacement.
- **Leaking connections:** Check all connections for leaks, as this can introduce unfiltered water into the purified stream.

Leaks:

- **Loose fittings:** Ensure all quick-connect fittings and threaded connections are properly secured.
- **O-rings:** Check that O-rings in filter housings are correctly seated and not damaged. Lubricate with food-grade silicone grease if necessary.

SPECIFICATIONS

Feature	Detail
Product Dimensions (L x W x H)	19.5 x 13.5 x 37.5 cm; 2.16 kilograms
Item Model Number	FAF100
Size	FAF100 with DI Resin
Number of Units per Item	1
Number of Items	1
Special Features	Reverse Osmosis Technology, DI Resin Filter
Batteries Required	No
Batteries Included	No
ASIN	B0DF78DNTW
Manufacturer	FRIZZLIFE

WARRANTY INFORMATION

For detailed warranty information regarding your Frizzlife FAF100 RODI system, please refer to the documentation included with your purchase or contact Frizzlife customer support directly. Warranty terms typically cover manufacturing defects and specific components for a defined period from the date of purchase.

CUSTOMER SUPPORT

Should you have any questions, require technical assistance, or need to order replacement parts for your Frizzlife FAF100 system, please contact Frizzlife customer support. You can typically find contact information on the product packaging, the official Frizzlife website, or through the retailer where you purchased the product.

Manufacturer: FRIZZLIFE

Seller: Frizzlife solutions