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› [NU Aqua 600 GPD 4-Stage Alkaline Tankless Reverse Osmosis Water Filter System User Manual](#)

NU Aqua KF-600GPD-ALK-2FTL

NU Aqua 600 GPD 4-Stage Alkaline Tankless Reverse Osmosis Water Filter System User Manual

Model: KF-600GPD-ALK-2FTL

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1. INTRODUCTION

Thank you for choosing the NU Aqua 600 GPD 4-Stage Alkaline Tankless Reverse Osmosis Water Filter System. This system is designed to provide high-quality, purified water directly from your tap, offering superior filtration and convenience. Its compact, tankless design saves space while delivering an impressive 600 Gallons Per Day (GPD) with a highly efficient 2:1 pure to waste water ratio. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the system. Failure to follow these instructions could result in property damage, injury, or system malfunction.

- Ensure all connections are secure to prevent leaks.
- Do not expose the system to freezing temperatures.
- Use only genuine NU Aqua replacement filters.
- Disconnect power and water supply before performing any maintenance.
- The system is designed for cold water use only.
- Install the system in an area with adequate drainage in case of a leak.

Leak Stop Valve: The system includes a leak stop valve designed to automatically shut off the water supply if a leak is detected, protecting your cabinet from water damage. Ensure this valve is properly installed and maintained.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- NU Aqua Tankless RO System Unit
- Smart LED Countertop Faucet
- PP + CB Carbon Filter (Stage 1)
- RO Membrane Filter (Stage 2)
- Alkaline Filter (Stage 3/4, depending on configuration)
- Installation Hardware (tubing, adapters, fittings)
- Leak Stop Valve
- Power Adapter
- Instruction Manual (this document)

4. SETUP AND INSTALLATION

The NU Aqua Tankless RO System is designed for quick and easy installation. No professional help is typically required. Please follow these steps carefully.

4.1 Pre-Installation Checks

- **Location:** Choose an under-sink location that provides sufficient space for the unit and access for filter changes. The tankless design offers significant space-saving benefits.
- **Water Pressure:** Ensure your water pressure is within the operating requirements (typically 15-100 PSI).
- **Power Outlet:** A standard electrical outlet is required for the system's pump.
- **Tools:** Gather necessary tools such as a drill, wrench, screwdriver, and utility knife.

4.2 System Overview and Installation Video

Watch this video for a visual guide to the system's features and installation process.

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Video: NU Aqua Tankless Features. This video provides an overview of the NU Aqua 600 GPD Tankless RO System, highlighting its compact design, high performance, and ease of installation. It also demonstrates the optional UV sterilizer and alkaline filter, and the leak stop valve.

4.3 Installation Steps

1. **Turn off Water Supply:** Locate and turn off the cold water supply valve under your sink.
2. **Install Feed Water Adapter:** Disconnect the cold water line from your existing faucet. Install the provided feed water adapter to the cold water supply valve, then reconnect your faucet's cold water line to the adapter.
3. **Install Faucet:** Drill a hole (if necessary) in your countertop or sink for the new Smart LED Faucet. Secure the faucet according to the instructions provided with the faucet.
4. **Install Drain Saddle:** Attach the drain saddle to the drain pipe under your sink. Ensure it is positioned above the P-trap.
5. **Mount Leak Stop Valve:** Secure the leak stop valve to the bottom of your cabinet. This device will prevent flooding in case of a leak.
6. **Connect Tubing:** Connect the various color-coded tubes from the feed water adapter, faucet, drain saddle, and leak stop valve to the corresponding ports on the main RO unit. Refer to the detailed diagram in the printed manual for specific connections.
7. **Install Filters:** Insert the PP+CB, RO, and Alkaline filters into their designated slots on the main unit. Ensure they are securely twisted into place.

8. **Connect Power:** Plug the power adapter into the RO unit and then into a grounded electrical outlet.
9. **Flush System:** Turn on the cold water supply. Open the RO faucet and allow water to run for at least 15-30 minutes to flush the system and remove any carbon fines or air.



Image: Easy Installation. This image illustrates the compact NU Aqua tankless RO system installed under a sink, highlighting its simple setup process which typically takes around 30 minutes and does not require a plumber.



Image: NU Aqua Tankless RO System Dimensions. This image shows the main RO unit and the alkaline filter with their respective dimensions: Main unit is 15.5 inches long, 5.5 inches wide, and 13.5 inches high. The alkaline filter is 13 inches high and 3.5 inches wide.



Image: Space-Saving Tankless Design. This image compares the compact NU Aqua tankless system to a traditional tank-based RO system, demonstrating how the tankless design frees up to 70% more under-sink space.

5. OPERATING INSTRUCTIONS

Your NU Aqua Tankless RO System is designed for simple operation, providing purified water on demand.

5.1 Smart LED Countertop Faucet

The included Smart LED Faucet provides visual cues about your water quality and filter status:

- **Solid Blue:** Indicates excellent water quality.
- **Flashing Blue:** Indicates good water quality.
- **Flashing Red:** Indicates fair water quality, suggesting filters may need replacement soon.
- **Solid Red:** Indicates poor water quality, requiring immediate filter replacement.

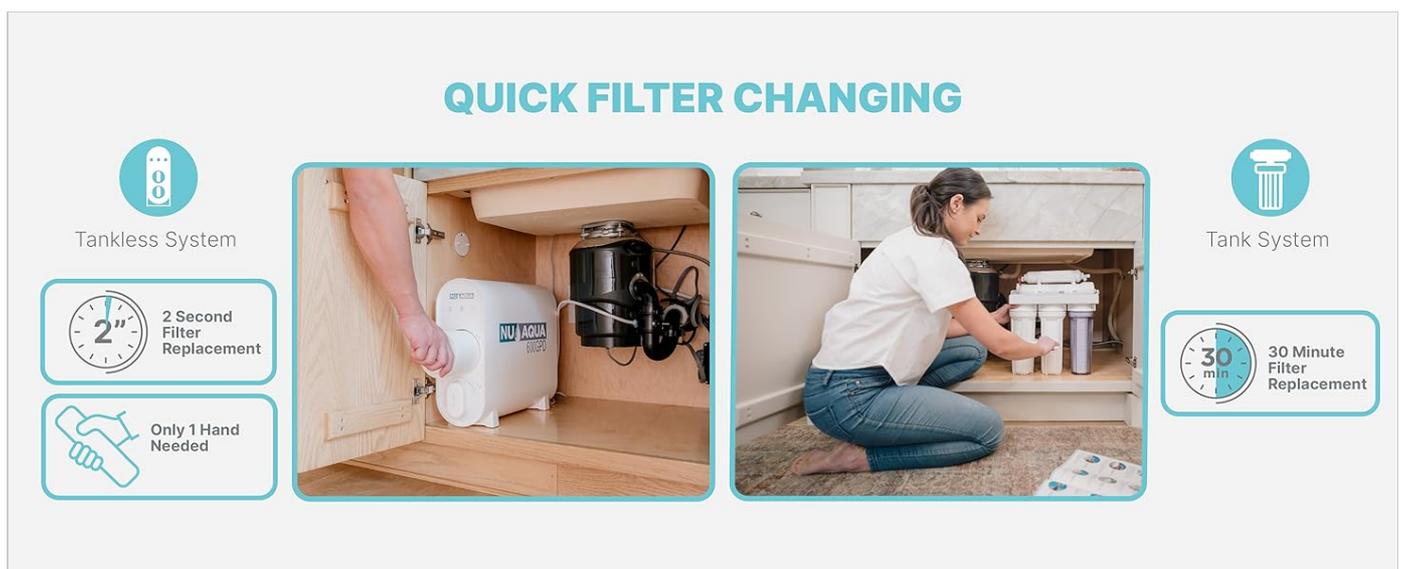


Image: Smart Color-Changing LED Faucet. This image displays the smart faucet with its LED indicator, showing different colors (solid blue, flashing blue, flashing red, solid red) to represent varying levels of water quality.

5.2 Water Flow and Efficiency

The system delivers 600 Gallons Per Day (GPD) with a 2:1 pure to waste water ratio, making it highly efficient compared to traditional RO systems. This means for every 2 gallons of purified water produced, only 1 gallon is sent to the drain.

600 GPD Rapid Water Flow

Fills Up A Cup In 8s

NU AQUA

VS

OTHERS



Image: 600 GPD Rapid Water Flow. This image compares the water flow rate of the NU Aqua 600 GPD system (filling a cup in 8 seconds) against a 400 GPD system (filling a cup in 12 seconds), illustrating its faster delivery.



Image: Water Conservation Comparison. This image visually compares the pure to drain water ratio of the NU Aqua system (2:1) with other brands (1:1) and traditional RO systems (4:1), highlighting its superior water conservation.

6. MAINTENANCE AND FILTER REPLACEMENT

Regular maintenance, particularly filter replacement, is crucial for maintaining the performance and water quality of your RO system. The Smart LED Faucet will indicate when filter changes are needed.

6.1 Quick Filter Changing

The NU Aqua system features a quick-change filter design, allowing for replacements in seconds with just one hand.



Image: Quick Filter Changing. This image contrasts the quick 2-second filter replacement of the tankless system with the 30-minute process for a traditional tank system, emphasizing the ease of maintenance.

6.2 Filter Types and Replacement Schedule

Your system includes the following filters:

- **Stage 1: PP + CB Carbon Filter**

Removes sediment, rust, chlorine, VOCs, unpleasant tastes, and odors. Recommended replacement: Every 12 months.

6-STAGE PP + CB FILTER

REMOVES SUSPENDED PARTICLES

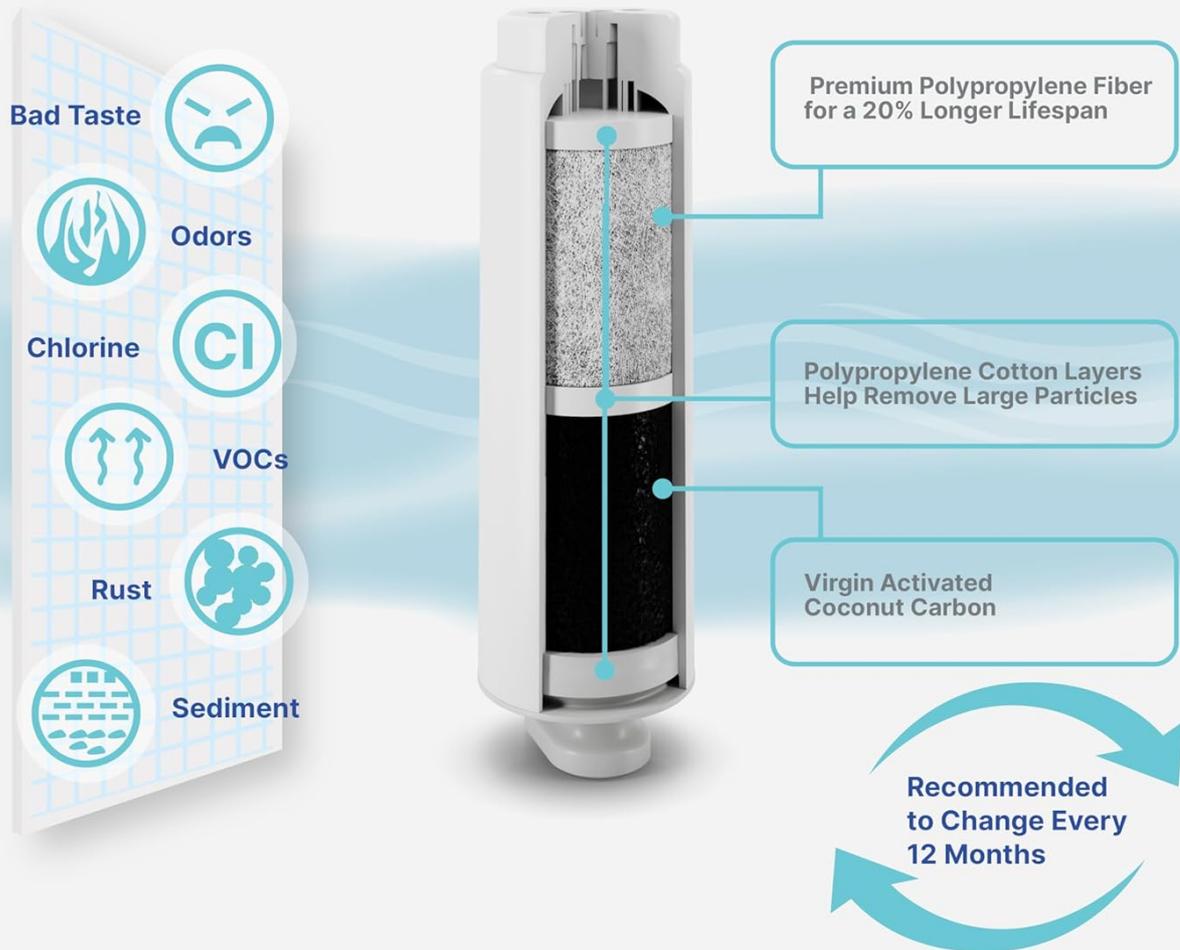


Image: 6-Stage PP + CB Filter. This diagram illustrates the internal components of the PP + CB filter, showing how it removes suspended particles, bad taste, odors, chlorine, VOCs, rust, and sediment. It also indicates a recommended change every 12 months.

- **Stage 2: 600 GPD Reverse Osmosis Membrane**

Removes up to 99% of contaminants including PFAS, atrazine, salts, and heavy metals such as copper, chromium, and lead. Recommended replacement: Every 12 months.

600GPD REVERSE OSMOSIS MEMBRANE

REMOVES 99.99% OF CONTAMINANTS

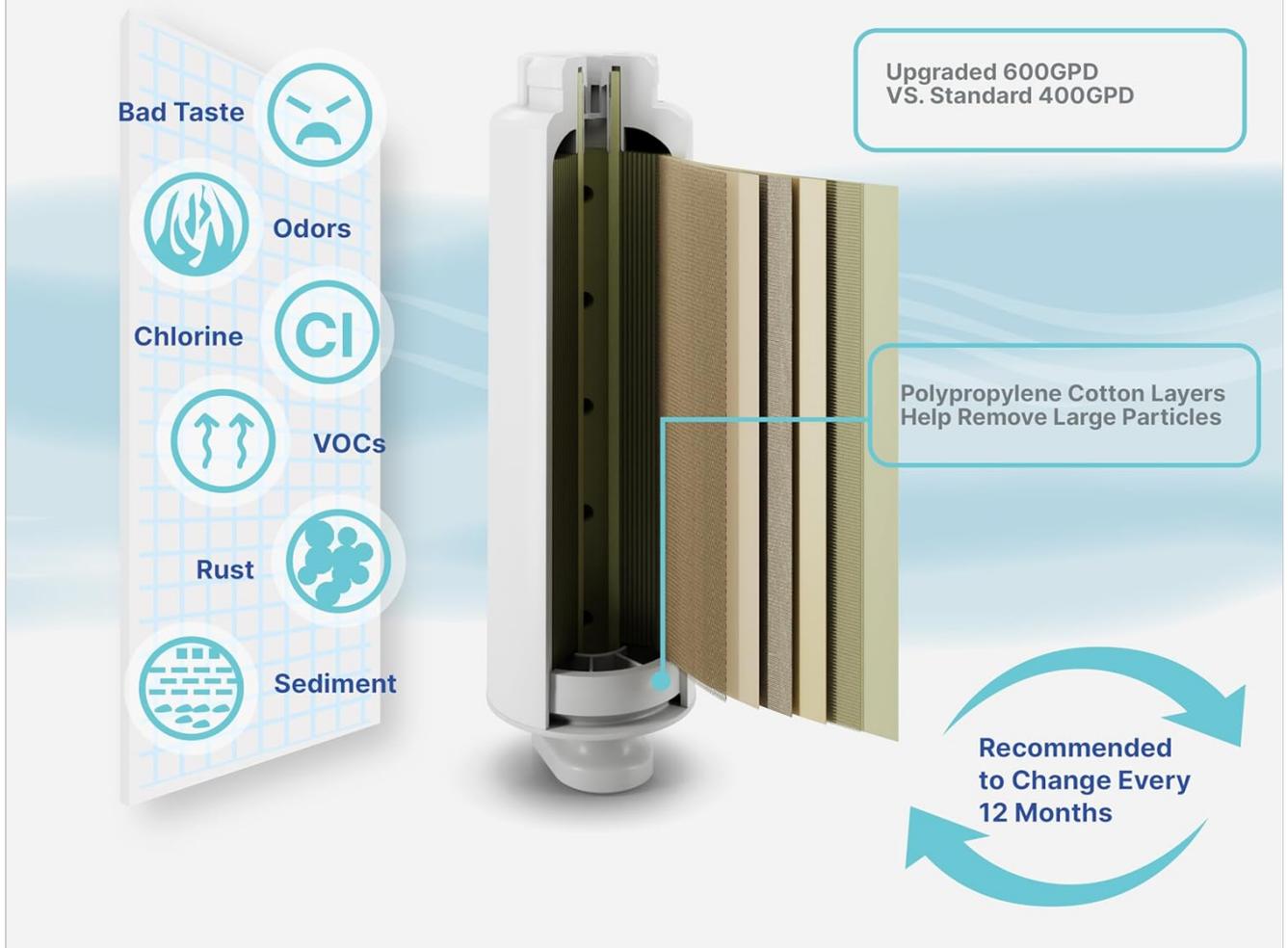


Image: 600 GPD Reverse Osmosis Membrane. This diagram shows the RO membrane filter, highlighting its ability to remove 99.99% of contaminants including bad taste, odors, chlorine, VOCs, rust, and sediment. It also suggests a 12-month replacement cycle.

- **Stage 3/4: Alkaline Remineralization Filter (Optional)**

Replenishes beneficial minerals (remineralization), raises oxygen levels, boosts alkalinity, and enhances antioxidants. Recommended replacement: Every 12 months.

OPTIONAL ALKALINE REMINERALIZATION FILTER

ADDS NATURAL MINERALS TO THE WATER

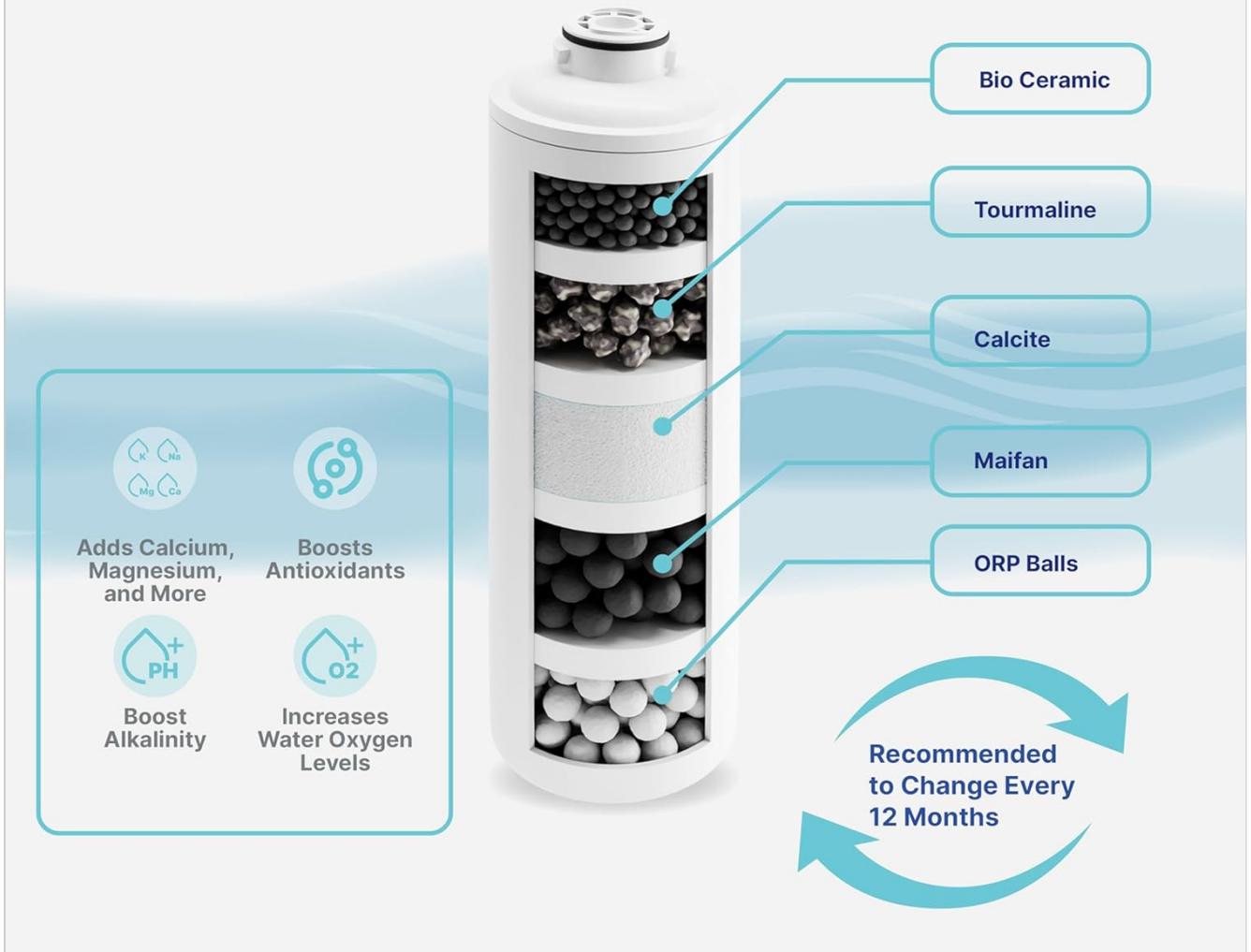


Image: Optional Alkaline Remineralization Filter. This diagram details the internal structure of the alkaline filter, showing components like Bio Ceramic, Tourmaline, Calcite, Maifan, and ORP Balls, which add natural minerals, boost alkalinity, and increase oxygen levels. Recommended change is every 12 months.

Always use genuine NU Aqua replacement filters to ensure optimal performance and to maintain your warranty.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your NU Aqua RO system. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
No water from faucet	Water supply off, clogged filters, power off, kinked tubing.	Check water supply valve, replace filters, ensure power is connected, inspect tubing for kinks.
Slow water flow	Clogged filters (especially RO membrane), low incoming water pressure.	Replace filters, check household water pressure.

Problem	Possible Cause	Solution
Water tastes bad or has odor	Expired carbon or alkaline filters.	Replace PP+CB and/or Alkaline filters.
LED faucet is red	Filters need replacement.	Replace indicated filters immediately.
System leaking	Loose connections, damaged O-rings, leak stop valve activated.	Tighten all connections, inspect and replace O-rings if damaged, check leak stop valve for activation (dry the sensor).

8. SPECIFICATIONS

Feature	Detail
Brand	NU Aqua
Model Name	KF-600GPD-ALK-2FTL
Product Dimensions	15.5"L x 5.5"W x 13.5"H
Item Weight	25 Pounds
Purification Method	Alkaline, Reverse Osmosis
Capacity	600 Gallons Per Day (GPD)
Maximum Flow Rate	0.03 Gallons Per Minute (approx. 0.42 GPM for pure water)
Installation Type	Single Hole (for faucet)
Power Source	Gravity-fed/Water Pressure (with electric pump assist)
Special Features	Compact Design, Easy to Install, Fast 600GPD, Removes 99% Of Contaminants, Smart LED Faucet
Color	White
Material	Plastic

9. WARRANTY & SUPPORT

NU Aqua stands behind the quality of its products. This RO system is backed by a **120-day "Love Your Water" Guarantee**, allowing you to experience the benefits risk-free. Additionally, the product may come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official NU Aqua website for detailed warranty terms and conditions.

For technical assistance, troubleshooting, or to order replacement parts and filters, please contact NU Aqua Customer Support:

- **Website:** www.nuaquawater.com (for support and replacement filters)
- **Online Chat Support:** Available on the NU Aqua website for quick answers to your questions.

To ensure the lifetime warranty, you may need to sign up for the replacement filter service as per NU Aqua's policy.

