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Waterdrop WD-G3P600

Waterdrop G3P600 Reverse Osmosis System User Manual

Brand: Waterdrop | Model: WD-G3P600

1. Introduction and Overview

The Waterdrop G3P600 Reverse Osmosis System is an advanced 8-stage tankless water filtration solution designed to provide clean, safe, and great-tasting water directly from your tap. Its compact, tankless design saves significant under-sink space, while the smart LED faucet offers real-time water quality monitoring and filter life tracking for ultimate convenience.



Figure 1: Waterdrop G3P600 Reverse Osmosis System and Smart Faucet.

This system boasts a high capacity of 600 gallons per day (GPD) and an efficient 2:1 pure to drain ratio, ensuring minimal water waste. It is certified by NSF/ANSI standards for comprehensive contaminant reduction, including TDS, chlorine, and lead.

2. Safety Information

Please read all safety instructions carefully before installation and operation to prevent injury or damage to the system.

- **Electrical Requirement:** This reverse osmosis system requires a standard 110-volt under-sink electrical outlet for operation. Ensure a dedicated, properly grounded outlet is available.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- **Well Water Usage:** Most RO systems, including this one, do NOT recommend using untreated well water as a direct source. Large particles and high sediment levels in well water can easily clog filters and significantly shorten their lifespan. A pre-filtration system is highly recommended for well water sources.
- **Dimensions Check:** Before installation, measure your cabinet dimensions to ensure sufficient space. The product size is 18.12"L x 5.67"W x 17.72"H.

3. Components

The Waterdrop G3P600 system includes the main filtration unit, a smart LED display faucet, and three distinct filter cartridges.

- **Main Filtration Unit:** Houses the multi-stage filtration cartridges and internal pump.
- **Smart LED Faucet:** Provides filtered water and features an integrated TDS monitor and filter life indicator.
- **Filter Cartridges:**
  - **CB Filter:** Composite filter for initial purification.
  - **CF Filter:** Carbon block filter for chlorine and odor reduction.
  - **RO Filter:** Reverse Osmosis membrane for advanced contaminant removal.



Figure 2: Smart LED Faucet with TDS display and filter indicators.

4. Setup and Installation

The Waterdrop G3P600 system is designed for straightforward under-sink installation. While professional installation is not strictly required, basic plumbing knowledge and tools are necessary.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Placement:** Position the main filtration unit under your sink, ensuring it is close to a power outlet and water lines. The tankless design optimizes space.
3. **Faucet Installation:** Drill two holes in your countertop (if not pre-drilled) for the smart faucet and the drain pipe connection. The faucet requires a 1-inch hole.
4. **Water Line Connections:** Connect the system to your cold water supply line using the provided adapter. Connect the pure water line to the smart faucet and the waste water line to the drain. Color-coded lines (e.g., red

for waste) simplify this process.

5. **Electrical Connection:** Plug the system into a dedicated 110-volt electrical outlet under the sink.
6. **Initial Flush:** After installation, run water through the system for at least 15 minutes to flush out any carbon fines and prepare the filters for use.

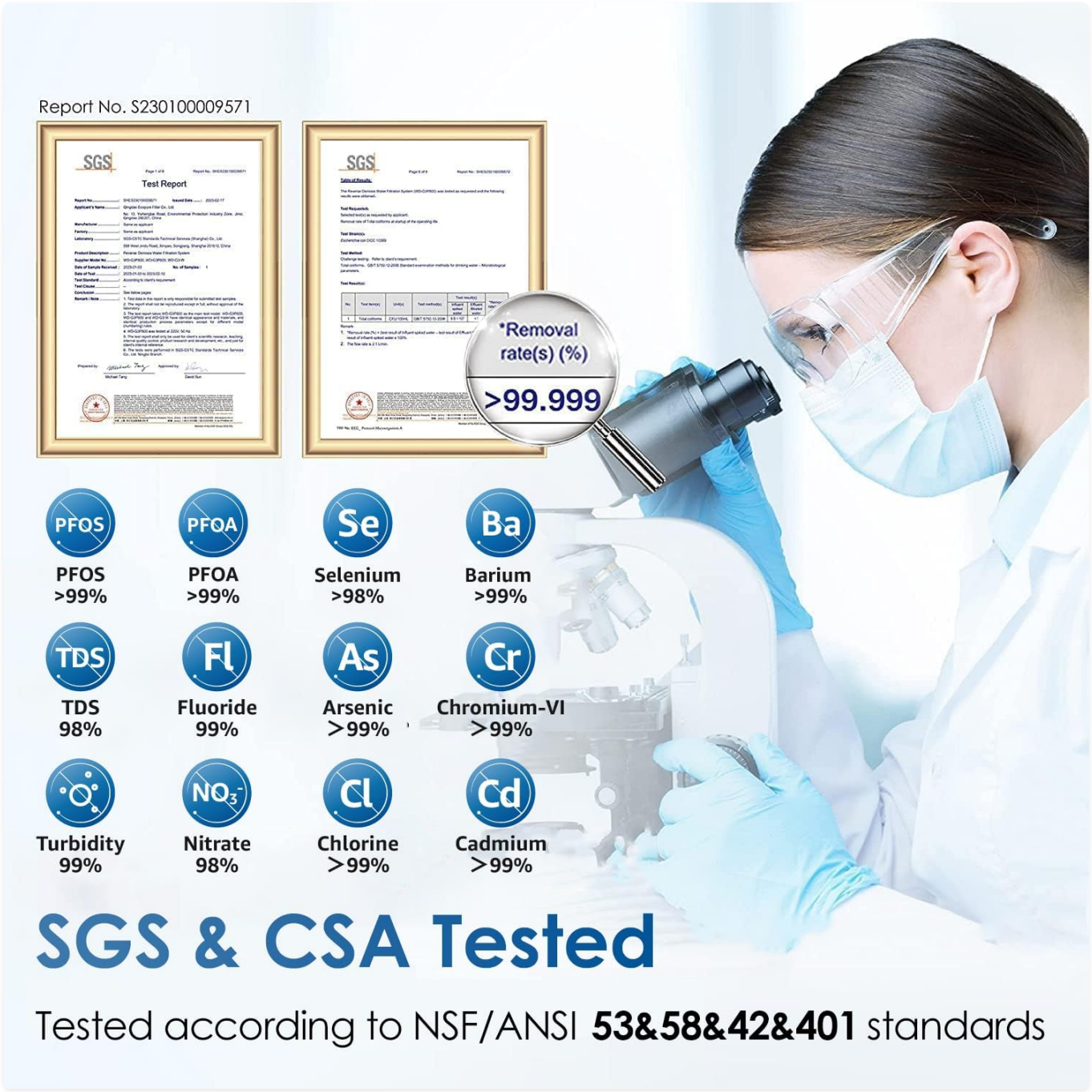

Figure 3: Tankless design saves space under the sink, requiring an electrical outlet.



Figure 4: Product dimensions for cabinet clearance: 18.12"L x 5.67"W x 17.72"H.

5. Operating Instructions

Operating the Waterdrop G3P600 is simple and intuitive, thanks to its smart features.

- **Water Dispensing:** Turn the handle on the smart faucet to dispense purified water.
- **TDS Monitoring:** The smart faucet features a built-in TDS (Total Dissolved Solids) monitor that displays the quality of your filtered water in real-time. Lower TDS readings indicate higher water purity.
- **Filter Life Tracking:** The smart display on the faucet also shows the remaining life of each filter (CB, CF, RO), indicating when replacement is needed with color-coded lights (e.g., blue for good, yellow for nearing end, red for replacement needed).
- **Fast Flow Rate:** The system provides a fast and stable water flow rate of 0.42 gallons per minute, filling an 8 oz cup in approximately 8 seconds.



Figure 5: The G3 P600 offers a faster water flow rate compared to traditional RO systems.

6. Filtration Technology

The Waterdrop G3P600 utilizes an advanced 8-stage filtration process to ensure comprehensive purification of your tap water.



Figure 6: Detailed view of the 8-stage filtration layers for excellent performance.

This system is rigorously tested and certified to reduce a wide range of contaminants:

- **NSF/ANSI 58 Certified:** Reduces TDS (Total Dissolved Solids) effectively.
- **NSF/ANSI 372 Certified:** Ensures lead-free material construction.
- **NSF/ANSI 42 Certified:** Reduces chlorine, bad taste, and odor.
- **Additional Reduction:** Effectively reduces chromium, PFAS, radium, fluoride, arsenic salt, iron, calcium, particles, chloride, and radioactive substances. It also reduces chemicals such as vinyl chloride, ethylhexyl acrylate, isobutylene, and ethylene glycol.



Figure 7: IAPMO Certificate of Listing for NSF/ANSI 58 & 372. View Report



Figure 8: SGS & CSA Tested results confirming high removal rates for contaminants like TDS, Fluoride, Arsenic, Chromium-VI, PFOS, PFOA, PFAS, Selenium, Barium, Turbidity, Nitrate, Chlorine, and Cadmium.

7. Maintenance

Regular filter replacement is crucial for maintaining optimal performance and water quality. The Waterdrop G3P600 makes this process simple and tool-free.

- **Filter Life Indicators:** The smart LED faucet will indicate when each filter needs to be replaced (yellow for warning, red for immediate replacement).
- **Easy Replacement:** To replace a filter, simply twist the old cartridge counter-clockwise to remove it, and then insert the new filter by twisting it clockwise until it locks into place. No tools are required, and you do not need to move the main unit.
- **Flushing After Replacement:** After replacing any filter, it is recommended to flush the system by running water

for a few minutes to ensure proper function and remove any air or loose carbon particles.



Figure 9: Filter replacement is a simple twist-and-pull action.

8. Troubleshooting

If you encounter any issues with your Waterdrop G3P600 system, please refer to the following common troubleshooting tips:

- **No Water Flow:** Check if the power cord is securely plugged in. Ensure the water supply valve is fully open. Verify that filters are correctly installed and not clogged (check filter life indicators).
- **Low Water Pressure:** This could indicate clogged filters. Check filter life indicators and replace as needed. Ensure adequate incoming water pressure.
- **Unusual Taste/Odor:** This typically means filters need replacement. Perform a system flush after replacement.

- **Leaks:** Check all connections for tightness. Ensure O-rings on filters are properly seated. If a leak persists, turn off the water supply and contact support.
- **TDS Reading High:** If the TDS reading on the smart faucet is consistently high after flushing, the RO membrane may need replacement.

For more detailed troubleshooting steps and solutions, please consult the official User Manual PDF:User Manual (PDF)

9. Specifications

Specification	Detail
Brand	Waterdrop
Model Name	WD-G3P600
Product Dimensions (L x W x H)	18.12" x 5.67" x 17.72"
Installation Type	Under Sink
Power Source	Corded Electric (110 Volts)
Item Weight	32 Pounds
Maximum Flow Rate	0.42 Gallons Per Minute
Operating Pressure Range	Up to 87 PSI
Supported Water TDS Level Maximum	1500 PPM
Certifications	NSF/ANSI 42, 58, 372

10. Warranty and Support

Waterdrop is committed to providing high-quality products and excellent customer service.

- **Warranty:** Please refer to the product packaging or the official user manual for specific warranty details. Note that using well water as a source without proper pre-filtration may affect warranty coverage due to potential filter clogging.
- **Customer Support:** For any questions, technical assistance, or parts replacement, please contact Waterdrop customer support. Refer to the User Manual for contact information.

Additional resources can be found in the User Guide (PDF):User Guide (PDF)

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