



Manuals.plus /

› HydroLogic /

› HydroLogic 150 GPD Stealth Ro150 Reverse Osmosis Water Purification Unit Instruction Manual

HydroLogic HL31035

HydroLogic 150 GPD Stealth Ro150 Reverse Osmosis Water Purification Unit

Model: HL31035

PRODUCT OVERVIEW

The HydroLogic Stealth-RO150 is a high-performance reverse osmosis water purification unit designed to remove over 98% of contaminants from tap water. It is particularly suited for gardening and hydroponics applications, providing ultra-pure water for optimal plant health. This unit features a 3-stage filtration system and offers flexible waste-to-product water ratios (1:1 and 2:1) to suit various needs.

- Removes 98%+ of all contaminants in your tap water.
- Includes a 3-Stage RO unit, 1 RO membrane, Green Coconut Carbon Filter, cleanable sediment filter, membrane power flush kit, automatic shut-off valve, and pressure gauge.
- Offers a choice of 1:1 and 2:1 waste to product water ratios.
- Produces 150 GPD (Gallons Per Day) of ultra-pure water.
- Newer models produce 50% more filtrate water than previous versions.



Image: The HydroLogic 150 GPD Stealth Ro150 Reverse Osmosis Water Purification Unit, showcasing its compact design with visible carbon and sediment filter housings and a pressure gauge.

SETUP GUIDE

Proper installation is crucial for the optimal performance of your Stealth-RO150 unit. Please follow these general steps. Refer to the official user guide for detailed, step-by-step instructions and diagrams.

- 1. Unpack and Inspect:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present and undamaged.
- 2. Choose Location:** Select a suitable location for the unit, ensuring it is near a water source, a drain, and has adequate space for maintenance. The unit is designed to be wall-mountable.
- 3. Mounting:** Securely mount the unit to a sturdy wall using the provided metal bracket and hardware. Ensure it is level and stable.

4. **Connect Inlet Water:** Connect the inlet tubing to your water source (e.g., garden hose, utility sink faucet) using the provided garden hose connector. Ensure a tight, leak-free connection.
5. **Connect Product Water Line:** Attach the product water tubing to the designated outlet on the unit. This line will carry the purified water to your collection reservoir.
6. **Connect Drain Line:** Connect the drain tubing to the waste water outlet on the unit and route it to a suitable drain. The system will discharge concentrated impurities through this line.
7. **Install Filters:** Insert the sediment filter and green coconut carbon filter into their respective housings. Ensure they are seated correctly before tightening the housings with the filter wrench.
8. **Initial Flush:** Before first use, perform an initial flush to remove any manufacturing residues and carbon fines. Consult the user guide for the specific flushing procedure and duration.
9. **Check for Leaks:** Slowly turn on the water supply and carefully inspect all connections for any leaks. Tighten connections as necessary.

OPERATING INSTRUCTIONS

Once installed, operating your Stealth-RO150 is straightforward. The unit is designed for continuous operation when connected to a pressurized water source.

- **Water Supply:** Ensure a consistent water supply with adequate pressure (typically 40-80 PSI for optimal performance). The integrated pressure gauge provides a visual indication of the incoming water pressure.
- **Automatic Shut-Off:** The unit is equipped with an automatic shut-off valve. This feature stops water flow to the unit when the product water line is pressurized (e.g., when a float valve in a reservoir closes), preventing continuous waste.
- **Waste-to-Product Ratio:** The Stealth-RO150 includes components to select either a 1:1 or 2:1 waste-to-product water ratio. The 1:1 ratio provides higher efficiency (less waste water) but may reduce membrane lifespan, while the 2:1 ratio offers better membrane longevity with more waste water. Choose the ratio that best suits your water quality and conservation goals.
- **Water Collection:** Allow the unit to produce purified water into a clean collection reservoir. The production rate is approximately 150 GPD, which translates to about 6.25 gallons per hour under ideal conditions.
- **Monitoring:** Periodically check the pressure gauge to ensure stable operation. Monitor the quality of the purified water using a TDS (Total Dissolved Solids) meter to determine when membrane or filter replacement may be necessary.

MAINTENANCE AND FILTER REPLACEMENT

Regular maintenance and timely filter replacement are essential to ensure the longevity and performance of your HydroLogic Stealth-RO150 unit and to maintain high water purity.

REPLACEMENT & UPGRADE FILTERS		
PART DESCRIPTION	HydroLogic Part #	Filter Replacement Schedule
Stealth-RO Sediment Filter	22125	Clean Regularly - Change Annually
Stealth-RO Coconut Carbon Filter	22110	1,250 Gal*
Stealth-RO KDF85/Granulated Catalytic Carbon Upgrade Filter	22060	2,000 Gal*
Stealth-RO 150/300 Membrane Element Filter***	22121	6 Months to 2 Years
Stealth-RO Chlorashield Upgrade Filter**	22021	1,500 Gal*
Stealth-RO De-Ionization Post-Filter	22016	7,500 ppm Capacity

* Based on product water
 ** ChloroShield upgrade filters remove 100% of chloramines
 *** Membrane life is based on proper prefiltration maintenance, source water quality, and the amount of purified water produced

Image: A table detailing the replacement and upgrade filters for HydroLogic Stealth-RO systems, including part numbers, descriptions, and recommended replacement schedules.

Filter Replacement Schedule:

Part Description	HydroLogic Part #	Filter Replacement Schedule
Stealth-RO Sediment Filter	22125	Clean Regularly - Change Annually
Stealth-RO Coconut Carbon Filter	22110	1,250 Gal*
Stealth-RO KDF85/Granulated Catalytic Carbon Upgrade Filter	22060	2,000 Gal*
Stealth-RO 150/300 Membrane Element Filter	22121	6 Months to 2 Years***
Stealth-RO Chlorashield Upgrade Filter	22021	1,500 Gal*
Stealth-RO De-Ionization Post-Filter	22016	7,500 ppm Capacity

* Based on product water

** ChloroShield upgrade filters remove 100% of chloramines

*** Membrane life is based on proper prefiltration maintenance, source water quality, and the amount of purified water produced

To Replace Filters:

1. Turn off the water supply to the unit.
2. Depressurize the system by opening a faucet or valve connected to the product water line.
3. Use the provided filter wrench to unscrew the filter housings.
4. Remove old filters and dispose of them properly.
5. Clean the inside of the filter housings.
6. Insert new filters, ensuring they are correctly oriented.
7. Screw the housings back on tightly with the filter wrench.
8. Slowly turn on the water supply and check for leaks.

For membrane replacement, refer to the detailed instructions in the official user guide, as it involves specific flushing procedures.

TROUBLESHOOTING COMMON ISSUES

This section addresses common issues you might encounter with your HydroLogic Stealth-RO150 unit. For more complex problems, consult the full user guide or contact customer support.

- **Low Water Production:**

Possible Causes: Low incoming water pressure, clogged pre-filters (sediment or carbon), fouled RO membrane, low water temperature.

Solutions: Check water pressure (should be 40-80 PSI), replace pre-filters, perform a membrane flush, ensure water temperature is within optimal range (typically 77°F / 25°C).

- **High TDS in Product Water:**

Possible Causes: Worn out RO membrane, incorrect waste-to-product ratio setting, bypass valve open.

Solutions: Replace RO membrane, verify correct waste-to-product ratio, ensure all connections are secure and no water is bypassing the membrane.

- **Leaks:**

Possible Causes: Loose fittings, damaged O-rings, cracked housings.

Solutions: Tighten all connections, inspect and replace O-rings if cracked or pinched, check housings for damage. Always turn off water supply before attempting repairs.

- **Excessive Waste Water:**

Possible Causes: Incorrect flow restrictor, low water pressure, cold water temperature.

Solutions: Verify the correct flow restrictor for your desired waste-to-product ratio, ensure adequate water pressure, and consider warming the incoming water if it's too cold.

TECHNICAL SPECIFICATIONS

Specification	Detail
Product Model	HL31035
Material	Plastic
Product Dimensions (D x W x H)	6" x 16.5" x 18.5"
Item Weight	10.5 Pounds
External Testing Certification	NSF
Water Production Rate	150 GPD (Gallons Per Day)
Waste to Product Water Ratios	1:1 and 2:1 (selectable)
Manufacturer	Hydro-Logic
UPC	748006941681, 812111010713

WARRANTY INFORMATION

For detailed warranty terms and conditions, please refer to the official user guide provided with your HydroLogic Stealth-RO150 unit or visit the HydroLogic website. Warranty coverage typically includes manufacturing defects and material flaws for a specified period from the date of purchase. Keep your proof of

purchase for any warranty claims.

CUSTOMER SUPPORT

If you require further assistance, have questions about installation, operation, maintenance, or troubleshooting, please contact HydroLogic customer support. You can also find additional resources and detailed instructions in the official user guide.

Official User Guide (PDF): [Download User Guide](#)

For the most up-to-date contact information and support options, please visit the HydroLogic official website.