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› AO Smith Reverse Osmosis Water Filter System User Manual

AO Smith AOS-HERO-CHR

AO Smith Reverse Osmosis Water Filter System User Manual

MODEL: AOS-HERO-CHR

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your AO Smith Reverse Osmosis Water Filter System, Model AOS-Hero-CHR. This 3-stage under-sink RO filtration system is designed to provide clean, healthy drinking water by reducing a wide range of contaminants.



Image: The complete AO Smith Reverse Osmosis Water Filter System, including the main filter unit, the pressure tank, and the dedicated chrome faucet.

2. Product Features

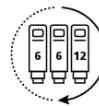
The AOS-Hero-CHR system incorporates advanced filtration technology to ensure high-quality drinking water.

- **Clean, Healthy Water:** Reduces up to 99% of 90 contaminants, including chlorine, chloramine, lead, pesticides, PFOA/PFOS, cysts, and microplastics.
- **Advanced Filtration:** Independently tested to NSF standards 42, 53, 58, and 401 for contaminant reduction.
- **Dedicated Faucet:** Includes a chrome air gap faucet for convenient access to filtered water.
- **Complete Kit:** Comes with the first set of filters, RO tank, faucet, and all necessary parts for under-counter installation.
- **SmartFlow® Technology:** Patented technology designed for more pure water, less water waste, and longer

filter life.



AOS-HERO-CHR HIGH EFFICIENCY REVERSE OSMOSIS with SmartFlow® technology



**6 & 12 Month Filter Life
365 Gallons**



**4+ People
Household Size**



**Reduces 99% of
90 Contaminants**



**WQA tested and certified
to NSF/ANSI Standards
42, 53, 58, and 401**

Image: Diagram highlighting key features such as 6 & 12 month filter life, 365 gallons capacity, suitability for 4+ people household size, 99% contaminant reduction, and WQA testing and certification to NSF/ANSI Standards 42, 53, 58, and 401.

REDUCES UP TO 99% OF 90 CONTAMINANTS

Including:

- ✓ Fluoride
- ✓ Lead
- ✓ Chlorine
- ✓ Arsenic
- ✓ Mercury
- ✓ Cysts
- ✓ Pesticides
- ✓ Pharmaceuticals
- ✓ Microplastics
- ✓ PFOA/PFOS

Image: A list of contaminants reduced by the system, including Fluoride, Lead, Chlorine, Arsenic, Mercury, Cysts, Pesticides, Pharmaceuticals, Microplastics, and PFOA/PFOS.

WHAT IS SMARTFLOW® TECHNOLOGY

Our patented Smartflow® technology provides you with more pure water, less water waste, and longer filter life than the average RO system.

Que és SmartFlow® technology?

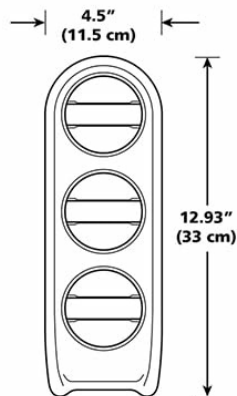
Nuestra tecnología SmartFlow® patentada le proporciona agua más pura, menos derroche de agua y una vida útil más prolongada del filtro que el sistema de OI promedio.

Image: Text explaining SmartFlow® Technology: "Our patented SmartFlow® technology provides you with more pure water, less water waste, and longer filter life than the average RO system."

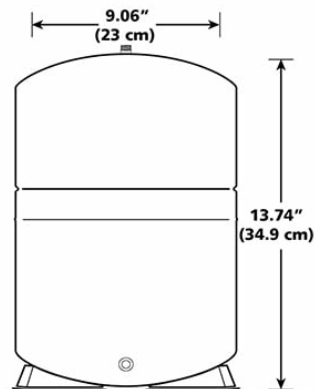
3. What's in the Box

Before beginning installation, verify that all components are present and undamaged.

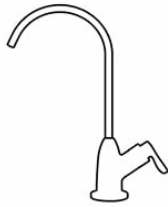
WHAT'S IN THE BOX



Filter system
Sistema de filtrado



Water tank with stand
Tanque de osmosis inversa



Chrome air gap faucet
Llave de metal cepillado



Carbon Block
Bloque de carbón



SmartFlow® Membrane
Membrana SmartFlow®



Advanced Carbon Block
Bloque de carbón avanzado

Includes all parts necessary for installation.

Image: A diagram illustrating the contents of the box, including the filter system unit (dimensions 4.5" x 12.93"), the water tank with stand (dimensions 9.06" x 13.74"), the chrome air gap faucet, and the three filter cartridges: Carbon Block, SmartFlow® Membrane, and Advanced Carbon Block. All parts necessary for installation are included.

- Filter System Unit
- Water Tank with Stand
- Chrome Air Gap Faucet
- Stage 1: Carbon Block Filter
- Stage 2: SmartFlow® Membrane Filter
- Stage 3: Advanced Carbon Block Filter
- All necessary installation parts (tubing, fittings, etc.)

4. Setup and Installation

Installation of the AO Smith Reverse Osmosis system typically involves connecting to your cold water line, installing the dedicated faucet, and setting up the RO tank and filter unit under your sink. While designed for DIY installation, professional plumbing assistance is recommended if you are unsure about any steps.



Image: An example of the AO Smith Reverse Osmosis system installed neatly under a kitchen sink, showing the filter unit, the pressure tank, and the connected water lines.

General Installation Steps:

1. **Pre-Installation Check:** Ensure you have adequate space under your sink and all required tools. Turn off the cold water supply.
2. **Faucet Installation:** Drill a hole in your countertop or use an existing sprayer hole for the dedicated RO faucet. Secure the faucet.
3. **Water Supply Connection:** Install the feed water adapter to your cold water line.
4. **Drain Saddle Installation:** Attach the drain saddle to the sink's drain pipe.
5. **System Assembly:** Connect the tubing from the feed water adapter, faucet, and drain saddle to the RO filter unit and pressure tank according to the provided diagram in the full instruction manual.
6. **Filter Installation:** Insert the filter cartridges into their respective housings.

7. **System Start-up & Leak Check:** Slowly turn on the cold water supply. Check all connections for leaks. Allow the tank to fill and then flush the system as per the operating instructions.

Refer to the detailed installation guide included with your product for specific diagrams and step-by-step instructions.

5. Operating Instructions

Once installed, operating your AO Smith RO system is straightforward. The system automatically fills the tank with purified water as it is consumed.

Initial System Flush:

1. After installation, open the RO faucet and let the water run until the tank is completely empty and the water flow stops to flush out any carbon fines or air. This may take several minutes.
2. Close the faucet and allow the tank to refill completely. This can take 2-4 hours depending on water pressure.
3. Repeat the flush process (steps 1 and 2) at least two more times. This ensures the system is properly flushed and ready for use.

Daily Use:

Simply open the dedicated RO faucet to dispense purified water. The system will automatically begin refilling the tank once water is drawn.

6. Maintenance and Filter Replacement

Regular maintenance, primarily filter replacement, is crucial for optimal performance and water quality. Always use certified, genuine AO Smith replacement filter cartridges.

Filter Replacement Schedule:

- **Stage 1 (Carbon Block) & Stage 3 (Advanced Carbon Block):** Replace every 6 months.
- **Stage 2 (SmartFlow® Membrane):** Replace every 12 months.

Filter Replacement Steps:

1. Turn off the cold water supply to the RO system.
2. Open the RO faucet to relieve pressure and drain the tank. Leave the faucet open.
3. Twist the old filter cartridges counter-clockwise to remove them.
4. Insert new filter cartridges by aligning them and twisting clockwise until secure.
5. Slowly turn on the cold water supply. Check for leaks.
6. Perform the initial system flush procedure (Section 5) to prepare the new filters for use.

7. Troubleshooting Common Issues

This section addresses common issues you might encounter with your RO system.

Problem	Possible Cause	Solution
Low Water Flow from Faucet	Low water pressure, clogged filters, kinked tubing, empty tank.	Check water supply pressure. Replace filters if due. Inspect tubing for kinks. Allow tank to refill.
Water Leaking	Loose connections, damaged O-rings, cracked housing.	Tighten all connections. Inspect and replace O-rings if necessary. Contact support if housing is cracked.
Unusual Noises (Gurgling/Bubbling)	Air in the system, drain line issues.	Ensure proper flushing after installation/filter change. Check drain line for proper slope and connection.
Poor Water Taste/Odor	Expired carbon filters, membrane fouling.	Replace carbon filters. If problem persists, consider replacing the RO membrane.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact AO Smith customer support.

8. Product Specifications

Specification	Detail
Product Dimensions	50.29 x 39.12 x 42.67 cm (19.8 x 15.4 x 16.8 inches)
Item Weight	9.71 kg (21.4 Pounds)
Model Number	AOS-HERO-CHR
Brand	AO Smith
Special Feature	Chlorine Reduction, NSF certified
Material	Stainless Steel (faucet)
Capacity	365 gallons (filter life)
Included Components	Filters, RO Tank, Faucet, Installation Parts
Installation Type	Under Sink
Purification Method	Reverse Osmosis
Power Source	Hand Powered (no electricity required for filtration)
Date First Available	Sept. 24 2023

9. Warranty and Support

AO Smith products are manufactured to high-quality standards and are backed by a manufacturer's warranty. Specific

warranty terms and conditions are provided with your product documentation.

For technical assistance, replacement parts, or warranty claims, please visit the official AO Smith website or contact their customer support directly. Ensure you have your model number (AOS-Hero-CHR) and date of purchase available when contacting support.