

Reverse Osmosis Quick Change Water Purification System

Designed for Drinking Water, Ice, Hot Water, and Cooking Applications

Atlas Filtri® Under-Counter Quick Change Reverse Osmosis Water Purification System is a complete point-of-use solution designed to provide high quality purified water for all your drinking and cooking needs.

POINT-OF-USE APPLICATIONS

The system is designed to provide up to 50 gallons of pure water a day. In addition to the secondary faucet at the sink, the system can be connected to a refrigerator for ice and water dispensing, an under-counter ice machine, a hot water dispensing system, or all four points of use.

MULTI-STAGE FILTRATION & PROTECTION

1 Stage 1 – Sediment Pre-Filtration

A 5-micron sediment pre-filter reduces suspended particles & helps protect downstream filtration components.

2 Stage 2 – Premium Carbon Filtration

Coconut shell carbon block filter reduces chlorine taste and odor and chemicals such as detergents, herbicides, pesticides, and trihalomethanes (THMs).

3 Stage 3 – Reverse Osmosis Membrane

The primary purification stage features a 50 GPD membrane designed for influent TDS levels up to 2,000 ppm. The membrane reduces total dissolved solids (TDS) and other contaminants to produce bottle-quality water.

4 Stage 4 – Polishing Carbon Post-Filtration

An activated carbon polishing filter improves the final taste and quality of the purified water.

5 Stage 5 – Alkaline Remineralization

The final stage, which is included in the fourth cartridge, includes alkaline mineral media which replenishes minerals and electrolytes while increasing alkalinity and adjusting pH for improved taste. RO systems cause a pH to drop to 5.4, so the alkaline filter will raise the pH up to 7.8.

ADVANCED CONTAMINANT REDUCTION & FILTRATION

The reverse osmosis (RO) separation process reduces dissolved contaminants by up to 99%. Its ultra-fine 0.0001-micron membrane provides advanced reduction of contaminants including:

- Chlorine taste and odor
- Arsenic
- Barium
- Cadmium
- Chromium
- Mercury
- Fluoride
- Aluminum
- PFAS
- Chlorides
- Lead
- Viruses

SYSTEM DESIGN

The single-molded manifold with four integrated cartridges reduce potential leak points for a more efficient, reliable design. The encapsulated filter cartridges are designed for quick and sanitary change-outs for fast and efficient servicing of the system.

ENGINEERED BY ATLAS FILTRI

Atlas Filtri is dedicated to providing high-quality products that meet a wide range of water filtration requirements. Through advanced manufacturing, innovative design, and continuous investment in research & development, Atlas Filtri delivers high-performance solutions for residential, commercial, and industrial applications. This focus on innovation has resulted in numerous international patents and a growing portfolio of products to address evolving water treatment needs. Learn more about Atlas Filtri at atlasfiltri.com.



Reverse Osmosis Quick Change
 Water Purification System
 Part Number: REQCR0450



FEATURES

- Designed for residential filtration applications
- For use with encapsulated cartridges 2.5" OD
- 3/8" inlet and outlet quick fitting connections
- 50 GPD membrane capacity
- 2,000 ppm max. TDS
- Alkaline pH adjustment cartridge
- Lead-free system design
- 5-stage filtration for bottle-quality water

SPECIFICATIONS

Materials:

Head Connection: Reinforced polypropylene

Cartridge Construction: Reinforced polypropylene

O-rings: EPDM

Working Conditions:

Water Pressure: 45.5 - 116 PSI (3 - 8 BAR)

Temperature Range: 39°F - 113°F (4°C - 45°C)

Certifications:

- This tank is tested and certified by NSF International against NSF/ANSI Standard 58 for material requirements only.

PRODUCT SPECIFICATIONS AND PERFORMANCE

RO SYSTEM

Model	Description	Production Rate	Fitting	Box QTY	Box Size	Weight
REQCRO450	OASIS - Quick Change RO, 50GPD, bracket, wrench, dedicated faucet, tank	up to 50 GPD (190 LPD)	3/8" Quick Connect	1	12" x 26" x 24"	28.4 lbs

REPLACEMENT COMPONENTS

Model	Description	Replacement Interval	Box QTY	Box Size	Weight
REQTSERP	Replacement Kit for REQCRO450 Includes: REQTSED (Sediment Cartridge), REQTCB (Carbon Block Cartridge), REQTPCB (Polishing Carbon Cartridge with Alkaline Remineralizing Media)	1 Year	1	—	—
REQTTW50	Reverse Osmosis Membrane	3 Years	1	—	—

While testing was performed under standard laboratory conditions, actual performance may vary.

* Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.



TRACTABLE FILTER KEY HEAD OPTIONS



Service Kit (no membrane)
Part number: REQTSERP



RO Membrane
Part number: REQTTW50

RO System Operating Conditions

Specification	REQCRO450
Production Rate	Up to 50 GPD (190 L/day)
Inlet Pressure	45.5–116 psi (3–8 bar)
Operating Temperature	39.2–113°F (4–45°C)
Maximum Feed TDS	2,000 ppm
RO Membrane	50 GPD – 1812

NOTE: Change filters at minimum every 12 months and membrane every 36 months

Factors Affecting RO Production

RO Performance

Actual purified-water production will vary based on incoming water pressure, temperature, TDS level and storage tank pressure.

Alkaline Filter Cartridges Raise pH by up to 2.4 points after Mineral Cartridge

pH after Membrane	Alkaline Increase	pH Results
5.2	2.4	7.6 pH
5.8	2.4	8.2 pH
6.2	2.4	8.6 pH



Explore Atlas Filtri sustainable solutions and system configurations for a wide range of filtration applications at atlasfiltri.com



Atlas Filtri® is a registered trade mark of ATLAS FILTRI srl. Unauthorized use of the registered trade mark is prohibited. Images and context are the property of ATLAS FILTRI srl, which reserves the right to change product design and specification without prior notification.

Atlas Filtri North America LLC

1068 North Farms Road, Building 3, Wallingford, CT 06492, USA
Office +1 (203) 284-0080 | email: atlasfiltrinorthamerica@atlasfiltri.com

A company of the Atlas Filtri Group. World headquarters located in Italy. Production facilities located in Italy and USA.