



## ESSENTIAL Reverse Osmosis

Introducing our new four-stage reverse osmosis system, offering true protection from toxic contaminants.

- World-class EWS quality and performance.
- Highest quality carbon pre- and post-filtration.
- High performance membrane – up to 50 gallons per day.
- Pre-sediment stage for extra protection from particulates.
- Made in the USA, meets or exceeds all compliances.
- Protects you from chloramine (chlorine and ammonia compound), chlorine, THMs, VOCs, pesticides, lead, cysts, rust, silt, sediment, bacteria and viruses<sup>1</sup>, and more.<sup>2</sup>
- Removes inorganics, heavy metals, minerals, and total dissolved solids.

*Chlorine (a common disinfectant used in USA tap water) and its byproducts are known carcinogens. Drinking them, or inhaling and absorbing them while showering or bathing, is not recommended.\* The New York State Dept. of Health and President's Cancer Panel recommend water filtration to reduce or eliminate our exposure to these substances.*



### NO MORE WASTED MONEY. NO MORE PLASTIC BOTTLES.

With the **ESSENTIAL** at your sink, you will save at least \$500 every year in bottled water expenses and prevent plastic waste in our landfills and oceans. Simply fill up your reusable bottle at your sink and go!



### MEETS ALL YOUR NEEDS.

Enjoy contaminant-free water that meets your preferences for taste (i.e. "flatter" taste) and removal of minerals, total dissolved solids, fluoride, and inorganics. Not sure if reverse osmosis is right for you? Call EWS customer service at 702.256.8182 for assistance.



### PROTECTION FOR YOU, YOUR HOME, AND OUR PLANET.

The **ESSENTIAL** is designed for today's adverse water conditions and anticipated conditions in the future and is – without a doubt – the most advanced and highest quality filtration product available, capable of handling chloramine, chlorine, dyes, fuels, pharmaceutical residues, lead, cysts, bacteria<sup>1</sup> and more.<sup>2</sup> The result is truly clean water you can trust and enjoy.



### ADVANCED FILTRATION AND PERFORMANCE.

The **ESSENTIAL** was designed from the ground up with our full bed depth, fully compliant, USA-made filters to handle difficult contaminants like chloramine (chlorine and ammonia compound). It is a new breed of reverse osmosis that effectively protects you from chloramine, chlorine, THMs, lead, cysts, bacteria<sup>1</sup> and much more.<sup>2</sup>

**\*FILTER ALL THE WATER IN YOUR HOME WITH ONE SYSTEM.** Every sink, shower, and bath in your home could provide you with chlorine-free & pollutant-free water. No hassle, no maintenance, no salts or chemicals, and trusted by hospitals, health care centers, military, and private homes worldwide. For more information on EWS Central Water Filtration, visit us online at [www.ewswater.com](http://www.ewswater.com) or call EWS customer service at 702.256.8182 (Mon.-Fri. 8.30 am - 4.30 pm Pacific Time).



# TECHNICAL INFORMATION

## ESSENTIAL RO REVERSE OSMOSIS FILTRATION SYSTEMS

### MODEL #s: RO4 and RO4-UV

#### SYSTEM SPECIFICATIONS

**OPERATION TEMP:** Max. 100° F (38° C) / Min. 40° F (4° C)    **OPERATION PRESSURE:** Max. 75 psi / Min. 40 psi    **SYSTEM FLOW RATE:** <1.0 GPM

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Replace your filters and UV lamp annually or as needed (do not exceed 1 year). Install in cold water supply only. Install in compliance with local and state regulations.

All installation instructions, service manuals, technical and product information is available online at [www.EWSWATER.com](http://www.EWSWATER.com)

#### MODEL #    REPLACEMENT FILTER SET #

**RO4**    **F.SET.RO4** (includes: F-INLINE, F-GAC, F-MEM, F-GAC-B)

**RO4-UV**    **F.SET.RO4-UV** (includes: F-INLINE, F-GAC, F-MEM, F-GAC-B, F-LAMP)

**SERVICE LIFE ON FILTERS:  
UP TO 1 YEAR.\* REPLACE YOUR  
FILTERS ANNUALLY OR AS NEEDED.  
DO NOT EXCEED 1 YEAR.**

#### FILTER SPECIFICATIONS

##### ITEM #: F-INLINE (5 MICRON PRE-SEDIMENT FILTER)

**PURPOSE:** Protects you and the system from particulate matter, down to 5 micron.

**FEATURES & BENEFITS:** Removes tiny particles for enhanced performance and protection to the following filters.

**CONSTRUCTION:** Advanced carbon.

**MAX. FLOW:** <1.0 GPM / 3.4 LPM

**MAX. PRESSURE:** 75 PSIG / 5.17 Bar

**SERVICE LIFE:** 1 year†

**TEMPERATURE RANGE:** 40-100° F / 4-38° C

Fully Compliant  
with California  
No-Lead Standards.



This filter element tested and certified under ANSI/NSF Standard 42 & 53 for materials only.

##### STAGE 1 ITEM #: F-GAC

**DESCRIPTION:** Pre-Filter Advanced Carbon

**PURPOSE:** Filters chlorine, chloramine, and VOCs for clear, clean water. Reduces and/or eliminates bad tastes and odors.

**FEATURES & BENEFITS:** Increased surface area, almost no fines release, enhanced adsorption, excellent performance.

**CONSTRUCTION:** Advanced carbon.

**MAX. FLOW:** <1.0 GPM / 3.4 LPM

**MAX. PRESSURE:** 75 PSIG / 5.17 Bar

**SERVICE LIFE:** 1 year†

**TEMPERATURE RANGE:** 40-100° F / 4-38° C

##### STAGE 2 ITEM #: F-MEM

**DESCRIPTION:** Advanced RO Membrane

**PURPOSE:** Protection from inorganics, chloride, nitrates, nitrites, heavy metals, and more. Removes minerals and fluoride to meet your preferences.

**FEATURES & BENEFITS:** Completely "stripped" water for full protection and as a precaution against fluoride allergies.

**CONSTRUCTION:** Polyamide thin-film composite.

**PERMEATE FLOW:** 50 GPD / 189 LPD

**MAX. PRESSURE:** 125 PSIG / 8.6 Bar

**SERVICE LIFE:** 1 year†

**TEMPERATURE RANGE:** 40-113° F / 4-45° C

##### STAGE 3 ITEM #: F-GAC-B

**DESCRIPTION:** Post-Filter Carbon Block (1 Micron)

**PURPOSE:** Advanced final stage filter for chlorine, chloramine (chlorine and ammonia compound), lead, cysts, VOCs, and more.

**FEATURES & BENEFITS:** Increased surface area, enhanced adsorption, excellent performance in a carbon block form.

**CONSTRUCTION:** Activated carbon block.

**MAX. FLOW:** <1.0 GPM / 3.4 LPM

**MAX. PRESSURE:** 75 PSIG / 5.17 Bar

**SERVICE LIFE:** 1 year†

**TEMPERATURE RANGE:** 40-100° F / 4-38° C

##### ITEM #: F-LAMP\*\* (OPTIONAL, INCLUDED WITH MODEL #: RO4-UV)

**DESCRIPTION:** Ultraviolet (UV) Disinfection\*\*

**PURPOSE:** Kills bacteria, viruses, and other microorganisms.

**FEATURES & BENEFITS:** Independently tested to reduce E. coli by 99.99992% and micrococcus luteus by 99.93%.

**CONSTRUCTION:** UV lamp encased in glass and 316 bonded stainless steel interior housing.

**SERVICE LIFE:** 1 year†

**MAX. FLOW:** <1.0 GPM / 3.4 LPM

**MAX. PRESSURE:** 75 PSIG / 5.17 Bar

**TEMPERATURE RANGE:** 40-100° F / 4-38° C

†Filter service life is based on local water conditions and usage.

\*\*UV upgrade is available pre-assembled as model# RO4-UV. A UV upgrade kit can be added to any RO system at any time.

<sup>1</sup> UV upgraded systems only.

<sup>2</sup> These substances may or may not be in your water. Please ensure this is the correct system for your needs. Please see included instructions for proper installation and usage.

**SYSTEM SIZE:** 5" deep x 16" wide x 16" tall (allow 4" clearance at the bottom of the unit for filter replacement maintenance)

**TANK SIZE:** 11" x 11" x 16" (3.2 gal capacity, other tank sizes available)

**SHIPPING CARTON SIZE:** 12" x 12" x 30"

**SHIPPING CARTON WEIGHT:** 22 lbs.

The **ESSENTIAL** comes fully assembled and complete with everything you need for a proper installation:  
chrome faucet dispenser (finish options available), air gap, storage tank, angle stop valve connection, all fittings and tubings, mounting bracket, and all filters.

Pictured at Right:  
The **ESSENTIAL**.

Our **ESSENTIAL** drinking water filtration systems are available to suit specific water conditions or personal preferences. Please contact EWS Customer Service for more information.



MADE IN THE USA

CALL EWS CUSTOMER SERVICE: 702.256.8182 (MONDAY-FRIDAY 8.30 AM-4.30 PM PACIFIC TIME)

FAX: 702.256.3744 EMAIL: CUSTOMERSERVICE@EWSWATER.COM

WWW.EWSWATER.COM