

FIND THE RIGHT SINK FILTER FOR YOU

Whether your water is treated with chlorine or chloramine, whether you prefer reverse osmosis (RO) or not, Environmental Water Systems has the right drinking water system to protect you and your family. If you need help, please call EWS Customer Service at 702.256.8182 Monday-Friday 8.30 am - 4.30 pm Pacific Time, or visit us at www.ewswater.com.



MADE IN THE USA



MY DRINKING WATER OPTIONS

Taste does not equal health or quality. If it did, then McDonalds fries and Oreos would be health foods. (We wish.) Our ESSENTIAL systems are the first and only drinking water systems built from the ground up to offer true protection from toxic contaminants like chlorine, chloramine, VOCs, THMs, pesticides, obesogens, pharmaceutical residues, and more.

The result is water that not only tastes good, but is good for you and your family. The ESSENTIAL filters the water at the point of use (usually a kitchen sink) and provides filtered water for cooking and drinking. The ESSENTIAL suits all budget or space concerns.

Due to its advanced filtration, no water tank, and crisp mineral water taste, about 80% of families choose the ESSENTIAL Drinking Water System over reverse osmosis.

ESSENTIAL DRINKING WATER SYSTEM

The ESSENTIAL removes chlorine, chloramine, and thousands of other contaminants and offers the additional safeguard of reducing lead and removing 99.99% of cysts (cryptosporidium and giardia). **Model #: DWS.**

ESSENTIAL DRINKING WATER SYSTEM WITH UV

Our most popular upgrade provides the same great benefits of the ESSENTIAL, with an upgrade to our patented 99.99% effective UV safeguard. Kills bacteria, viruses, E.coli and other microorganisms. Ideal for people with compromised immune systems. **Model #: DWS-UV.**

MY REVERSE OSMOSIS OPTIONS

Reverse osmosis is ideal for those who are allergic to the fluoride in city tap water, are on water that does not meet EPA limits for heavy metals, or who prefer a more stripped down or "flatter" taste to their water.

In about 80% of homes, the ESSENTIAL Drinking Water System (see left) is the proper choice, due to its highly advanced filtration, conservation of minerals for a crisp mineral water taste, and no need for a water storage tank.

ESSENTIAL THREE-STAGE REVERSE OSMOSIS

Our ESSENTIAL RO3 uses a high-performance, 50 gallon per day membrane which removes inorganics, heavy metals, fluoride, naturally found minerals, lead, and cysts (cryptosporidium and giardia). **Model #: RO3.**

ESSENTIAL THREE-STAGE REVERSE OSMOSIS W/UV

Our ESSENTIAL RO3-UV uses a high-performance, 50 gallon per day membrane which removes inorganics, heavy metals, fluoride, naturally found minerals, lead, and cysts. Our patented UV upgrade kills 99.99% of bacteria, viruses, E.coli and other microorganisms. Ideal for people with compromised immune systems. **Model #: RO3-UV.**

Four-stage (RO4) and five-stage (RU500T35) reverse osmosis options (not shown) are available for particulate water and difficult well water applications.

STOP

ARE YOU ON WELL WATER?

If you are on private or community well water, you need information to determine any water issues and their solutions. Well water requires complete and independent testing. Call EWS Customer Service at 702.256.8182 or visit EWSWATER.COM for more information.

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 or call EWS customer service at 702.256.8182 (Mon.-Fri. 8.30 am - 4.30 pm Pacific Time).



F-GAC and F-GAC-B Filters: Stages 2 and 3 found in all EWS DWS and DWS-UV Systems
 Stages 1 and 3 found in all EWS RO3 and RO4 Systems.

Versatility of Process

Filters allow the bonding of single or multiple types of extremely small sized particles onto a single support structure. For example, fine powdered lead sorbents bonded onto larger carbon support structures. This unique feature enables EWS to produce complex composite filtration media that can meet the requirements of complicated water contamination problems.

Increased Surface Area

The ability to bond extremely fine powdered media onto larger support particles results in increased surface area and improved kinetic efficiency. Instead of having one large particle available for filtration purposes, EWS technology makes possible the bonding of thousands of fine particles onto the surface of the larger support particles which greatly increases the surface area of the composite media.

Enhanced Kinetics

The process of increasing the surface area of a media enhances the adsorption kinetics and catalytic effects of that media. Consequently, EWS technology allows us to use less media and still achieve similar or superior filtration results. As a result, with this technology, we are now able to design smaller, more aesthetically appealing filtration devices with excellent performance characteristics.

Improved Performance

EWS carbon media for cartridge and block has improved catalytic and adsorption characteristics because of the increase in surface area and kinetic activity. Test results have proven that EWS composite adsorption products exceed the performance characteristics of simple, one component, granular based products.

Standard 42 Aesthetic Effects/Standard 53 Health Effects

Parameter	US EPA MCL	Influent Challenge	Effluent Average	Effluent Maximum	Percent Reduction Average	Percent Reduction Minimum
Chlorine	-	2.0 mg/L	0.03 mg/L	0.06 mg/L	98.5	97
Cyst	99.95% Reduction	111,750 Particles/ml	1 particle/ml	2 particles/ml	99.99%	99.99
Lead pH 8.5	15 ug/L	135 ug/L	5.5 ug/L	13 ug/L	95.9%	90
Lead pH 6.5	15 ug/L	149 ppb	1 ug/L	1 ug/L	99%	99

Notes Regarding NSF Compliant Testing

The F-GAC and F-GAB-B were challenged to remove 2 mg/L of chlorine where the average effluent in most tap water can be approximately .5 mg/L and a maximum up to 1.5 mg/L.

The challenge level of chlorine is much higher than found in treated tap water and makes the assumption for chloramine found as an alternative treatment method to disinfect tap water.*

The challenge of each filter resulted in a minimum chlorine reduction of only 97% and an average of 98.5% over 1,500 gallons at .9 gpm with a lead and cyst removal of 90 to 99% based on variances in pH range.



Note:

The lead and cyst testing was done where the amounts tested were 10 times the allowable limit set by the EPA.

Why EWS Uses Multiple Filters?

In order for good taste to actually equate to good quality and health, EWS uses 3 filters. A 5 micron (human hair is up to 20 times larger) Pre-Sediment Filter is used to protect and allow the Advanced Carbon Filters to perform at peak efficiency. Two (2) Advanced Carbon Filters are used as separate stages. Filtration becomes more effective as water passes through the first Carbon Filter and then through the final 1 micron Carbon Block to complete the filtration process.

A second pass for the water to be filtered through an additional stage is more effective than one pass through one multi-media filter (a filter with multiple materials) based on total filter bed depth, surface area and contact time to effectively remove contaminants. (See Carbon Filter Removal Chart for All Essential Filtration Systems)

*Chloramine is a compound comprised of chlorine and ammonia. For the removal of this compound to be effective, carbon must be able to have catalytic and kinetic capabilities of drawing the chlorine and attached ammonia onto the surface area of the carbon and drawing it into the interior surface area of the carbon granule. Greater surface area and contact time is necessary for adequate removal over the life of the filter cartridge.

Warning:

Most filters may remove the chloramine for a short time (taste only) until they become incapable of removing the entire compound. Single stage filters, multi-media filters, refrigerator filters, pitcher, carafe and faucet filters simply reduce the chlorine and allow the ammonia portion of the chloramine compound to shear off and render the filter useless as a foul or bad taste becomes evident and are limited by their filtration capacities. Therefore, similar to bottled water, taste becomes the actual consumer standard and not the health of the water or actual contaminants removed.

ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA



F-GAC advanced carbon filter meets or complies with NSF Standard 42 for reduction of Chlorine and other Volatile Organic Compounds. The cartridge utilizes a high performance advanced kinetic and catalytic granular activated carbon which provides exceptional filtration capacity and effectively reduces by an average of 98.5% chlorine, voc's, bad taste and odor in drinking water.

About Municipally-Treated Water

Municipal water is heavily regulated, monitored, tested, filtered and treated. Most taste, quality and health issues are directly related to the treatment or disinfection of the water and their by-products, as well as man-made pollutants common to most water (see reference #'s below generally between 3 to 5). Issues with heavy metals and primary contaminants (see reference #'s below generally between 0 to 2) are highly regulated and effectively treated by water utilities. These contaminants are rarely an issue with water quality.

How to Use the (GAC) Carbon Filtration Reference Chart

Below is a simple reference chart to give some perspective as to GAC's capabilities with various substances. Some items are heavy metals and inorganics, while others are VOC's (volatile organic compounds), some of which are man-made pollutants. Still other items, such as hardness, are not even considered contaminants. In general, GAC is very economical and a great compliment to municipally-treated water without the disadvantages of more aggressive filtration. GAC is used in all filtration due to its removal capacities. Know your water to select the correct product for you, your family and your home.

Acetaldehyde	4	Emulsions	2	Lead	3	Precipitated Sulfur	2
Acetic Acid	3	Ethyl Acetate	5	Lime	0	Propioic Acid	4
Acetone	4	Ethyl Acrylate	5	Mercaptans	4	Propionaldehyde	3
Alcohols	4	Ethyl Alcohol	4	Metal Salts	1	Propyl Acetate	4
Alkalinity	1	Ethyl Amine	4	Methyl Acetate	4	Propyl Alcohol	4
Amines	3	Ethyl Chloride	4	Methyl Alcohol	4	Propyl Chloride	4
Ammonia	3	Ethyl Ether	4	Methyl Bromide	5	Radon	4
Amyl Acetate	5	Fertilizers	1	Methyl Chloride	4	Rubber Hose Taste	5
Amyl Alcohol	5	Fluorides	2	Methyl Ethyl Ketone	5	Seawater	1
Antifreeze	4	Formaldehyde	2	Naphtha	5	Sediment	2
Arsenic	1	Gasoline	5	Nitrates	0	Soap	3
Benzene	5	Glycols	5	Nitric Acid	3	Sodium Hypochlorite	5
Bleach	5	Hardness	0	Nitrobenzene	5	Soluble Iron	2
Boron	1	Heavy Metals	3	Nitrotoluene	5	Solvents	4
Butly Alcohol	5	Herbicides	5	Odors (General)	5	Sulfuric Acid	1
Butly Acetate	5	Hydrogen Bromide	2	Oil - Dissolved	5	Sulphonated Oils	4
Calcium Hypochlorite	5	Hydrogen Chloride	1	Oil - Suspended	2	Suspended Matter	2
Carbon Dioxide	0	Hydrogen Fluoride	1	Organic Acids	4	Tannins	4
Chloral	5	Hydrogen Iodide	2	Organic Esters	5	Tar Emulsion	4
Chloramine	5	Hydrogen Peroxide	5	Organic Salts	4	Tartaric Acid	4
Chloroform	5	Hydrogen Selenide	3	Oxalic Acid	5	Taste (DI Water)	4
Chlorine	5	Hydrogen Sulfide	3	Oxygen	5	Taste (From Organics)	4
Clorobenzene	5	Hydrochlorous Acid	5	Ozone	4	THM's	5
Chlorophenol	5	Inorganic Acids	1	PCB's	5	Toluene	5
Chlorophyll	4	Inorganic Chemicals	1	Pesticides	5	Toluidine	5
Citric Acid	4	Insecticides	5	Phenol	5	Trichlorethylene	5
Cresol	5	Iodine	5	Phosphates	0	Turpentine	5
Defoliant	5	Isopropyl Acetate	5	Plastic Taste	5	Urine	2
Detergents	3	Isopropyl Alcohol	5	Plating Wastes	3	Vinegar	3
Diesel Fuel	5	Ketones	5	Potassium Permanganate	4	Xanthophyll	4
Dyes	5	Lactic Acid	4	Precipitated Iron	2	Xylene	5

KEY TO THE ABOVE LIST FOR CARBON FILTRATION:

5 - EXCELLENT: Proven Application **4 - VERY GOOD:** Proven Application **3 - GOOD:** Very Acceptable Result
2 - FAIR: limited application **1 - POOR:** not a recommended application (See RO) **0 - Not applicable** (See RO)

- Carbon Block technology has additional filtration capabilities and is the last stage in all EWS Essential Drinking Water Systems. See additional information.
- UV Disinfection for greater safeguards (DWS-UV, optional with Reverse Osmosis). See additional information.
- To prevent the absorption and inhalation of chlorine, chloramine, VOCs, by-products and pollutants. See CWL or EWS Whole Home Systems for GAC filtration to the entire home for bathing, showering and all uses.

ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA



F-GAC-B 1 micron carbon block filter meets or complies with NSF Standard 42 and 53 for reduction of Chlorine, other Volatile Organic Compounds, Lead and Cysts. The cartridge utilizes a high performance advanced kinetic and catalytic granular activated carbon as an extruded 1 micron carbon block which provides exceptional filtration capacity and effectively reduces by an average of 98.5% chlorine, VOCs, bad taste and odor in drinking water. This same filter also reduces lead by an average between 95.9% (@ pH 8.5) and 99% (@ pH 6.5) while eliminating Cysts by 99.99%. This is the last stage and final pass the water makes in all EWS Essential Drinking Water Systems.

Lead and Heavy Metal Reduction and Reduction of Soluble and Insoluble (Particulate) Lead

Particulate filtration is used to intercept insoluble lead-containing particles. F-GAC-B filters will reduce lead, a minimum of 95.9 (@ pH 8.5) and 99% (@ pH 6.5) over 1,500 gallons @ 0.9 gpm meeting NSF test protocol for Standard 53.



Chemical Adsorption

F-GAC-B 1 micron carbon block filters offer high levels of chemical reduction in potable drinking water, including the removal of chlorine and other compounds that contribute to taste and odor and reduces chlorine in a testing challenge by an average of 98.5% over 1,500 gallons @ 0.9 gpm meeting NSF test protocol for Standard 42.

Particulate, Cyst and Turbidity Reduction

F-GAC-B 1 micron carbon block filters provide >99.99% reduction of 3-4 µm particulate, and 99.99% reduction of 1-2 µm particulates.

Used in conjunction with high performance 5 micron sediment filters, F-GAC-B will have extended life. Pre-Sediment and Advanced Carbon Pre-Filtration in all EWS DWS Systems and Advanced Carbon Pre-Filtration and 50 GPD RO Membrane in all EWS RO Systems combined as separate full bed depth stages of filtration will provide several times greater life and filter capacities and capabilities than any single-pass multi-media filters.

UV Disinfection Technical Specifications (DWS-UV, RO3-UV, RO4-UV only)

F-LAMP is the lamp within the UV module which provides for the safeguard against Bacteria, E-coli, Viral and other Microorganisms and meets or complies with NSF Standard 55. See specifications and testing below.

- Lamp Information: Life specified up to 1 year of continuous operation based on testing protocol**
- Housing: 2"O.D. x 11.50" L Fittings: Compression x 1/4 in. MNPT
- Bulb Wattage: 6 Watts UV Output: 30,000 micro-watts at maximum flow rate
- Min/Max Water Temp: 40° to 85°F (4.4° to 29.5° C) Max Water Pressure: 60 PSI / 4.14 Bar
- Flow Rate : <1.0 GPM / 3.78 LPM
- Max Static Temp Rise: up to 16.1° F above ambient - Water will be warm when sitting. Run water until cool.

Lower Housing contains a 316 bonded stainless steel interior for better UV contact which maximizes killing power by reflecting UV light and the off-centered in/out, side ports allow water to spin through module to eliminate any shadowing or shading during UV contact. Sight port allows consumer to see whether UV lamp is on.

Upper Housing Cap seals module and contains opening and easy-to-clean quartz sleeve where UV lamp is inserted.

UV Lamp with snap-fit top, 4 pin red cord with electrical step-down transformer. Never open upper housing cap. Just simply pull lamp out for removal and snap back in for replacement. Electric connection is simple plug in.



UV Results: "The unit was effective in killing E-coli and significantly reducing the level of micrococcus luteus. Based on previous testing, the unit produces approximately 17,000 µwatt/seconds when operated at a low rate of 0.75 gallons per minute." TRUESDAIL LABORATORIES, INC., TUSTIN, CA, U.S.A. 1989 LABORATORY NO. 26995.

Organism Tested	Control Count	Exposed Count	Percent Reduction of Control
E-Coli	1,400,000	<1*	>99.99992
Micrococcus Luteus	500,000	1170	99.66
Micrococcus Luteus	500,000	850	99.83

The unit was tested by pumping bottled spring water seeded with E-coli (ATCC 8739) and Micrococcus luteus (ATCC 9341) through at a rate of 0.75 gallons per minute. The unit was allowed to warm up five minutes before testing. Samples of the exposed and non exposed water were taken and duplicate plate counts conducted (plate Count Agar, 35C, 48 hours). The results are given above.:

**Warning: The UV lamp is effective through one year of continuous service and must be replaced annually to maintain a 99% effective rate.

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Reverse Osmosis or "RO" has become a term that has slipped into our common language. When you need a tissue and ask for a "Kleenex", its not the brand you need, it's the tissue. It's the same with RO. You may ask for the device or told that you need one, or be considering buying one without understanding what you're asking for. Unlike the tissue, this decision can be impactful.

How does an RO work?

Water is forced by pressure through a semi-permeable membrane while dissolved solids and particulate matters are left behind. The residual contaminants are flushed to the drain. The resulting product water is a cleaner, safer water. These residential units are point of use or sink applications. Asking to do the whole house does not take into account; storing the production water and other drawbacks to the installation and operation of an RO system. Commercial or industrial RO systems can be very complicated, expensive and are designed for specific needs and applications.

Drawbacks to an RO unit

The drawbacks are why EWS provides the consumer a selection of product and why we include this information to help you decide what product is right for you. Here are only a few things to consider.

- WASTE:** RO can waste up to 20 gallons of water for one produced (our ratio is a low 3 gallons per 1).
- AGGRESSIVE & CORROSIVE:** RO produce very aggressive water. You can not plumb the filtered water in copper (the water will eat away or leach the copper) and, if cross-connected to other sources such as an ice-maker, it may provide warranty or service issues. When bottled water is produced, one of the methods to produce that water is reverse osmosis, however essential minerals are added back "for a pure, fresh taste" as quoted on any label of Dasani, a bottled water produced throughout the USA by Coca Cola. Please note - all spring waters, bottled at the source, have natural minerals and total dissolved solids of varying degrees, which provide the consumer a choice based on taste. (see Evian, Panna, Pellegrino, etc...)
- If an RO system is working correctly, the water can taste flat (like distilled) or metallic. The water produced may be wet, however your plants may not like it. The water is aggressive, it flushes, and does not allow for assimilation starving the plant which may be a drawback for you as well.

When is an RO appropriate to use?

See the following page on rejection rates and all those scary things. If you're on municipal water, call your utility and request a recent report. Those items on that list are highly regulated. They are either not in your water or municipally treated, and therefore RO can be redundant and unnecessary. If you're on well water, have your water completely and independently tested. Do not trust a local salesman. He's the guy who's usually pushing RO along with the softener, so the RO can take the salt out of the water that the softener put in!

Are you looking for better tasting water? Reverse Osmosis or a Drinking Water Filtration System?

This may be the best place to start and finish. The RO unit would **not** take out taste and odor, chlorine or any VOCs if not for the Carbon (GAC) filter. Maybe you simply need the advanced Essential Drinking Water System (DWS). To upgrade to lead and cysts removal, the RO is fine, but so is the DWS. Bacterial safeguard? Add our UV option to your RO unit or see the complete DWS-UV as an alternative.

Frequent Question - Removal of fluoride?

- Yes Remove the fluoride, I'm allergic - Use RO as your sink water filtration system to remove fluoride from drinking or cooking
- No Do not remove - I want the fluoride. Then use any of the drinking water system options (DWS or DWS-UV), as mentioned above which will not remove fluoride.

The Bottom Line - Filtration at the Sink - Reverse Osmosis or a Drinking Water Filtration System.

Drinking water systems take up less room (RO has a storage tank), make as much water as you like (RO have limited production) are easier to install and maintain, can be cross-connected without issues, have less hassles, and are less costly (RO have drain connections, need an air gap by some codes, and make noise during production). However, if an RO is required based on your taste, needs, concerns and/or local water conditions at least you made an informed decision and have been provided a complete selection of superior RO product by EWS for proper application.

Last note: Why only a 3-stage RO System when there are so many systems with more stages?

Most offer more poor filters for replacement and not more or better filtration. The Essential RO3 is a totally complete RO system for municipally treated water, properly specified with the highest capabilities and results. The 4-stage unit is offered (RO4) for municipal water that may be more particulate and simply needs a pre-sediment filter to enhance system longevity or for use on well water of known quality. EWS has 5-stage systems specifically for difficult well water applications only. Correct and truthful specification by EWS.

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APPROXIMATE RO REJECTION RATES OF VARIOUS IMPURITIES*

Aluminum	up to 98%	Manganese	up to 98%	Barium	up to 92%	Mercury	up to 97%
Bicarbonate	up to 98%	Nitrate	up to 95%	Bromide	up to 96%	Organic Pesticides	up to 98%
Cadmium	up to 98%	Phosphate	up to 98%	Calcium	up to 98%	Polyphosphate	up to 98%
Chloride	up to 98%	Potassium	up to 98%	Lead	up to 98%	Copper	up to 98%
Radium	up to 98%	Cyanide	up to 96%	Silica	up to 98%	Detergents	up to 98%
Silicate	up to 98%	Fluoride	up to 98%	Sodium	up to 96%	Iron	up to 98%
Sulfate	up to 98%	Radioactivity	up to 97%	Boron	up to 70%	Magnesium	up to 97%
Ammonium	up to 90%	Nickel	up to 98%	Strontium	up to 97%	Silver	up to 96%
Chromium	up to 96%	Chromate	up to 95%	Sulphite	up to 96%	Thiosulfate	up to 98%
Ferrocyanide	up to 98%	Borate	up to 50%	Selenium	up to 95%		
Zinc	up to 98%	Arsenic	up to 95%	Orthophosphate	up to 98%		

* Operational, maintenance, and replacement requirements are essential for the product to perform as tested and specified.

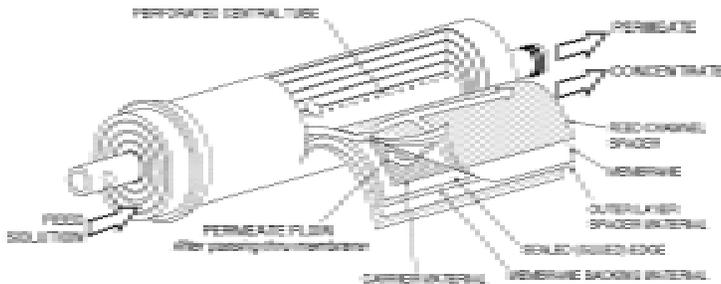
Rates based on the following test feed water:

Temperature: 77°F (25°C) TDS: 500 ppm. Pressure: 60 PSI.

Membranes meet or comply with NSF Standard 58.

This is partial list or sample of impurities. New items are added based on developing protocols and standards.

Go to www.EWSWATER.com for the most complete and updated information.



TFC (Thin Film Composite): TFC membrane is a long-life membrane for non-chlorinated water supplies. A carbon filter must precede the RO element if used on chlorinated feedwater. Appropriate for well water of known quality.



Performance Parameters

F-MEM

Daily Production Rate (To Atmosphere at 4.25 Kg/Sq. cm: 60 PSI: 25° C/ 77° F: 500 mg/l. TDS)	up to 50 GPD
Average TDS Rejection	94-98%
Feed Water Chlorine Tolerance	No unless carbon prefilter
Feed Water Temperature	40° to 85°F (4.4° to 29.5° C)
Feed Water pH	3.0 - 11.0
Feed Water Pressure*	40-60 PSI
Maximum TDS	2000 mg./l
Maximum Hardness**	350 mg./l
Maximum Iron Feed Water	0.1 mg./l
Maximum Manganese Feed Water	0.05 mg./l
Free Chlorine Feed Water	< 1.5 mg./l
System Recovery Rate	20% @ 4.25 Kg./Sq. cm.

*Contact EWS customer service for correct specification if you have low line pressure below 40 psi or high TDS (above 1,000) that affects pressure over membrane. Low pressure below 40 psi calculated over the RO membrane will lower rejection rates.

**Maximum hardness is either 350 mg/l or the equivalent 20.5 grains per gallon. Contact EWS customer service for proper specification if water hardness exceeds the RO tolerance. Water hardness exceeding maximum limits will lower rejection rates.

The advanced F-MEM is a high-density TFC membrane with an integrated RO check valve and direct drain water rejection line. The replacement of the F-MEM ensures a long system life. All RO3 and RO4 systems also include a RO automatic shut-off valve for optimum performance. In all RO3 and RO4 systems, flow rate across the membrane is constant, enabling it to function at its optimum level. As a result, the life of the membrane will be extended as well. Better performance, less maintenance, less wasted water, and a product not subject to the typical leaking of the other manufacturers' units.

ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA



FDA*, EPA and NSF Compliances**

Please be advised that all the materials and components utilized in producing all POU (Point of Use) drinking water filtration and reverse osmosis systems, and all POE (Point of Entry) filtration, conditioning and softening equipment, by EWS, Inc., comply with, but are not limited to, one or more of the following regulating standards:

NSF STANDARD 14	FDA 21 CFR 177.1520	FDA 21CFR 177.1640	FDA 21 CFR 177.1350
FDA 21 CFR 175.105	CAS # 7440-44-0	ANSI 304	CDA C360000
NSF STANDARD 60	NSF STANDARD 61	NSF STANDARD 58	ANSI 302
ANSI 316	FDA 21 CFR 177.2600	FDA 21 CFR 175.300	FDA 21 CFR 177.2550
NSF STANDARD 52	NSF STANDARD 42	NSF STANDARD 18	FDA 21 CFR 177.2550
FDA 21 CFR 177.1655	FDA 21 CFR 177.1630	FDA 21 CFR 177.2800	FDA 21 CFR 175.300
FDA 21 CFR 177.2260	FDA 21 CFR 181.32	FDA 21 CFR 177.2660	FDA 21 CFR 177.1950
FDA 21 CFR 177.2910	FDA 21 CFR 177.2250	FDA 21 CFR 177.1680	NSF STANDARD 53
NSF STANDARD 55	CAAB1953		

- *The standards listed above relate to the Code of Federal Regulations of the United States of America, Title 21, Charter 1, Subchapter B set forth by the U.S. Food and Drug Administration.
- **The NSF (National Sanitation Foundation) standards correlate to materials and potable water. The National Sanitation Foundation is not a government agency.

Furthermore, and without, exception every component included in all POU and POE systems by EWS, Inc. are compliant for food and beverage contact and/or meet or comply with the most current, appropriate, and applicable standards without exception.

All EWS product has been independently tested to NSF standards by an accredited third-party laboratory for all claims made regarding NSF/ANSI standards.

Please take note of this helpful and enlightening information on this confusing subject:

Contrary to common belief and less than truthful marketing, drinking water treatments units are NOT required to be "NSF Certified" (as tested by NSF itself), but they must be independently tested to applicable NSF standards by an accredited, independent laboratory. Though the test standards bear the NSF/ANSI name, NSF is just one of many accredited institutions.

- All EWS Product is No-Lead Compliant to California AB1953 and the No-Lead Standards which will take effect throughout the USA as of 2014.

Factory Preparation:

All systems are factory prepared and thoroughly checked to assure proper function and if applicable, quality tests of product water produced to assure that minimum standards of rejection have been met, and/or tests of specific components to assure correct function and flow rate measurements to assure efficiency specifications are met.

Product Performance:

- ◆ For all product capabilities, compliances and/or warranties to remain valid, all systems are dependent upon proper application, specification, and installation of any specific unit and/or combination of units.
- ◆ Please know your local or individual water condition(s), and plumbing application(s). Please review system(s) capabilities, applications, setup, installation, startup, maintenance, and related warranties.
- ◆ Detailed information is published in EWS Product Manuals and specific Product Service Guides (included with each specific unit) and made available upon request throughout US distribution and/or EWS corporate offices. All current information is available online @ www.ewswater.com

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**Summary of Performance Guidelines, Factory Preparation,
Product Performance, and Compliances**

Product performance may vary based on local water conditions, proper product specification and application, proper plumbing application, setup, installation, startup, maintenance and/or usage. To ensure proper operation, follow all setup, installation, start-up and maintenance procedures as detailed in all service guides. In addition, follow all applicable local plumbing codes.

The feed water must comply with the following conditions for all systems capabilities, compliances, and warranties to remain valid. All commercial POU and POE systems: Performance guidelines and feed water compliance dependent on specification and application, please consult with EWS, Inc. upon specification.

Water Temperature Range:	minimum 40°F, maximum 80°F		
Water Pressure:	Point of Use (POU):	minimum 40 psi, maximum 75 psi;	
	Point of Entry (POE):	minimum 40 psi, maximum 75 psi	
Water Flow Rates:			
Point of Use (POU):	water supplied to residential sink product:	at a minimum of 1 gpm	
Point of Entry (POE):	water supplied to tanks up to 1054:	at a minimum of 8 gpm	
	water supplied to 1354 tanks:	at a minimum of 12 gpm	

All product must be connected to main or cold water supplies. Product not intended to be connected to hot water supplies or allow heated water to flow through systems. Contact EWS, Inc. for product available for this purpose.

All product contain water. Do not allow any product to freeze.

Do not use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit(s).

Reverse Osmosis Systems Only: Never allow reject water to be hindered or stopped, without the reject water flow or improper drain connection, impurities may build up on membrane.

Point of Entry (POE) Units: Do not prevent backwash or brine lines to be stopped or restricted. Create and allow air gap to prevent any cross contamination.

Compliances:

Please be advised that all the materials and components utilized in producing all POU (Point of Use) drinking water filtration and reverse osmosis systems, and all POE (Point of Entry) filtration, conditioning and softening equipment, by EWS, Inc., comply with, but are not limited to, any one or more of the appropriate regulating standards. Furthermore, and without exception, every component included in all POU and POE systems by EWS, Inc. are compliant for food and beverage contact and/or meet or comply with the most current, appropriate, and applicable standards without exception.

Factory Preparation:

All systems are factory prepared and thoroughly checked to assure proper function and if applicable, quality tests of product water produced to assure that minimum standards of rejection have been met, and/or tests of specific components to assure correct function and flow rate measurements to assure efficiency specifications are met.

Product Performance:

- ◆ For all product capabilities, compliances and/or warranties to remain valid, all systems are dependent upon proper application, specification, and installation of any specific unit and/or combination of units.
- ◆ Please know your local or individual water condition(s), and plumbing application(s). Please review system(s) capabilities, applications, setup, installation, startup, maintenance, and related warranties.
- ◆ Detailed information is published in EWS Product Manuals and specific Product Service Guides (included with each specific unit) and made available upon request throughout US distribution and/or EWS corporate offices. All current information is available online @ www.ewswater.com



The EWS, Inc./Environmental Water System Product available through:



Authorized Kitchen & Bath Showrooms, Appliance Showrooms, Building & Plumbing Wholesale Supply Locations and their building, plumbing, HVAC and service contractors, and Authorized Online Distributors. All Distribution adheres to an EWS, Inc. MAP Policy for published pricing. EWS, Inc. does not sell directly to the retail consumer or directly to building, plumbing, HVAC and service contractors.

ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA



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Have a Question...?

Seriously....give us a call. We're here to help.



Complete Booklets on All Product are Available (PDF)
by e-mail attachment by simply contacting EWS Customer Service



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