

Chart for possible and varied well water conditions and system install order*

CONDITIONS

APPLICATIONS

Source Water - Test Results

Pre-Treatment (options &/or requirements)

Coliform/Bacterial/E-Coli microorganism problems, decaying vegetation, organic bonding, Iron/manganese bacteria, Tannins (yellow)

Pre-treatment is the primary need to disinfect, break down organic bonds and/or add oxygen to water. To remove iron, manganese, pre-filter, balance pH and/or generally prepare the water for consumption additional filtration is used to minimize water issues for use in the home. Water must be microbiologically safe for all systems to function as specified.

Oxidation/aeration

**location or sequence of tank may vary*

Low supply water flow and/or pressure

Based on Test Results

Chlorination/Chemical Feed (as needed)
Ozonation,
UV (only safeguard, not a solution)

Storage tank and Equipment

Booster Pump (Need minimum of 40 psi & 8 gpm (or 12 gpm for all 1354 tank systems)

Iron Removal (as needed)

Iron (red or pinkish)

Manganese (black or brownish)

Hydrogen sulfide (rotten egg smell)

(pictured) High Purity - High Oxidation Media Systems

Pre-Sediment Filtration (as needed)

Silt, dirt, heavy particulate matter

**location or sequence of unit may vary*

3-micron Self Cleaning System or (pictured) 5-micron Pre-Sediment Cartridge Unit (not a whole home filter)

pH Balancing (as needed)

Low pH, less than 6.6, corrosive, acidic water

High pH, more than 8.6, corrosive, basic water

**location or sequence of unit may vary*

Custom Blended, (pictured) pH Increasing Reagent System
pH Decreasing Ion-Exchange

Point of Entry - Whole Home Filtration (as needed)

Chlorine, VOC's, herbicides, pesticides, solvents, dyes, fuels, odor, taste, clarity

CWL Series - Filtration only
EWS Series - Filtration and Conditioning vs. Softening

(as needed, must be installed either at the inlet to water heater(s) or after all other systems)

Softening

Hard water conditions with excessive mineral content based on test results or perception/customer preference for soft water

Softened hard water, removal of hardness minerals for either sodium or potassium chloride

Softeners strictly soften water and have their application. However, softeners replace valuable calcium and magnesium minerals (non-contaminants) with sodium or potassium chloride. The resultant water may be of lesser water quality, has warranty issues with other products and may be legally restricted due to the damaging brine discharge. To filter any softened water would require the correct reverse osmosis system regardless of water conditions.

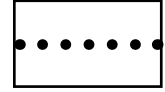
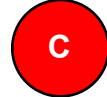
The EWS Series of appliances is applicable up to 30 grains of hardness and is an alternative. EWS/CWL system can be installed at the main service line and a softener after the EWS/CWL system or on the hot side (supply line the heater(s) based on the preference of the consumer or water condition.

Point of Use - Sink Filtration (as needed)

Dependent upon test results, removal and/or safeguard, as applicable

Various Drinking Water Systems (pictured to the left or Reverse Osmosis Unit (pictured under Softener to the right)

Both types of sink filtration systems have their advantages, capabilities, and in the case of reverse osmosis, some disadvantages. EWS, Inc. can provide either system correctly specified for the application and with UV disinfection options.



*All systems should be correctly applied and installed based on water issues, concerns and/or consumer preference. Contact EWS Customer Service if you have any questions.

o. Monday - Friday, 8:00am - 4:30pm, Pacific Time or email customerservice@ewswater.com