APEC WATER®

www.FreeDrinkingWater.com

TOTAL SOLUTION SYSTEM

QUICK SETUP GUIDE



Thank you for choosing APEC Total Solution system.
You now own one of the finest and most complete whole house water purification systems in the world.

Please read and become familiar with instructions and parts needed before proceeding with the installation.

General Installation/Operation/Maintenance Requirements

For Whole House Max Water Filter & Futura Salt Free Water Conditioner

- Use a licensed plumber to install these products.
- Check with your state and local public works department for plumbing and sanitation codes. You must follow these guidelines as you install the whole house water filters.
- DO NOT use with water that is microbiologically unsafe or of unknown quality without adequate disinfecting before or after.
- The water filter systems will stand up to 90 psi water pressure. If your house's water pressure is higher than 90 psi, install a pressure reducing valve before the installation of the systems.
- DO NOT install the water filter systems in an outside location or anywhere they will be exposed to direct sunlight or very cold weather temperature.
- Manufacturer warranty can be voided if the installation requirements above are not met.

For Reverse Osmosis Drinking Water System
(You can install by yourself or by a licensed plumber)

Recommended tools list:

- Variable speed drill
- Drill bit: 1/4" (for the waste line), 1/8" (as pilot, not mandatory), and 1/2" (for standard faucet hole, air-gap faucet requires 1" hole)
- 5/8", 9/16" open-end wrench, or adjustable wrench, pliers
- Phillips screwdriver
- Utility knife, or scissors
- Teflon Tape

RO System Operating Parameter:

- Operating pressure: 85 psi maximum
- Feed water temperature: 40 – 100 degree F (4-37 degree C)
- DO NOT connect this unit to hot water source
- Install the RO in a sheltered environment, avoid exposure to hot and cold weather or under direct sun light.

BEFORE INSTALLATION:

Inspect the system

Please take the system and all the components out of the box. Inspect the system and all the connection fittings carefully, make sure nothing is damaged during shipping. If any part is cracked or broken, please do not proceed with the installation and contact APEC or your distributor for an exchange or diagnosis.

System Placement Guide

①

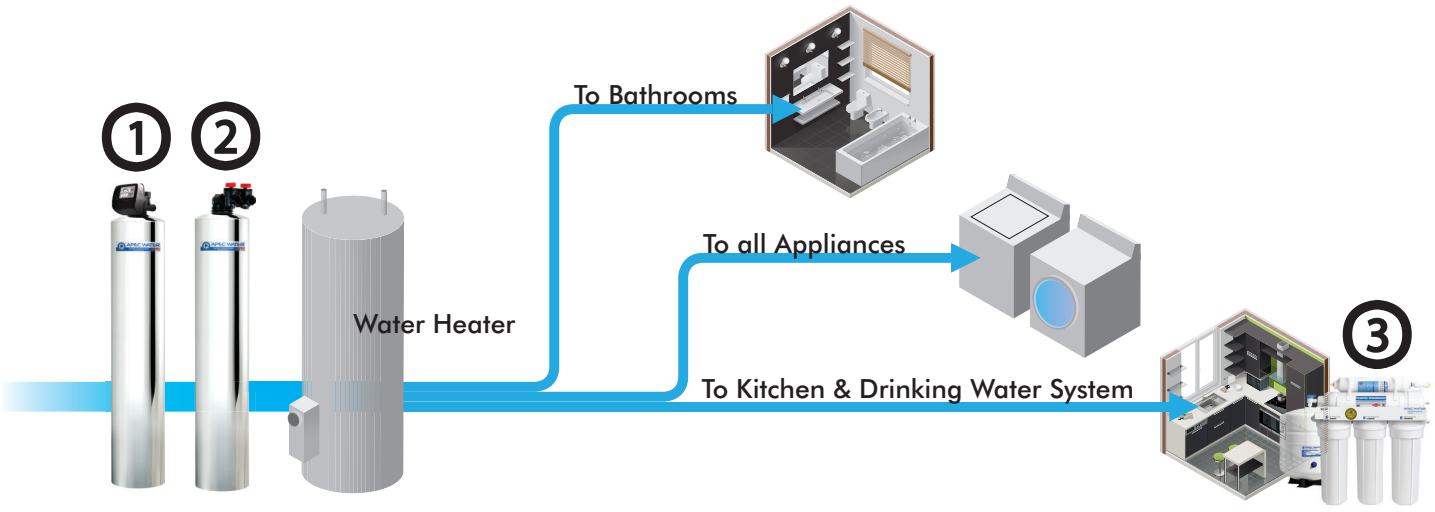
Whole House Max Water Filter
Install at point of entrance location. Must be installed before the salt-free water conditioner

②

Futura Salt-Free Water Conditioner
Must be installed after whole house water systems & before water heater

③

Reverse Osmosis Drinking Water System
Install at point of use location with dedicated faucet for purified drinking water



GET TO KNOW YOUR SYSTEM:

The Total Solution is a multi-stage system made up of three specialized water purification units which include a whole house water filter, a whole house water conditioner and a reverse osmosis drinking water system. Please read the guide below to get a basic understanding of the different individual systems in your Total Solution package.



Stage 1: WHOLE HOUSE MAX WATER FILTER SYSTEM

The Whole-House-Max water filter removes chlorine, chloramines, sediment and odors from the water throughout your entire home. It is able to remove allergy causing chemicals and prevent dry sensitive skin. You can enjoy spa quality water at every faucet. This primary whole house filter should be installed first, just after the main water valve to treat water at the entry point going into your home.

(Please see Wholehouse Max Water Filter System manual for installation).
(3 Packages).



Stage 2: FUTURA SALT-FREE WATER CONDITIONER

The FUTURA whole house water conditioner provides naturally soft water without using salts or chemicals. Benefits include reduced hard water scale for long-lasting appliances and pipes, minimized water spots for easier cleaning, and softer skin and smoother hair. This unit is the 2nd stage system and it should be installed right after the Whole-House-Max but ahead of your existing water heater in the garage or basement.

(Please see Futura System manual for installation).
(1 Package).



Stage 3: REVERSE OSMOSIS DRINKING WATER SYSTEM

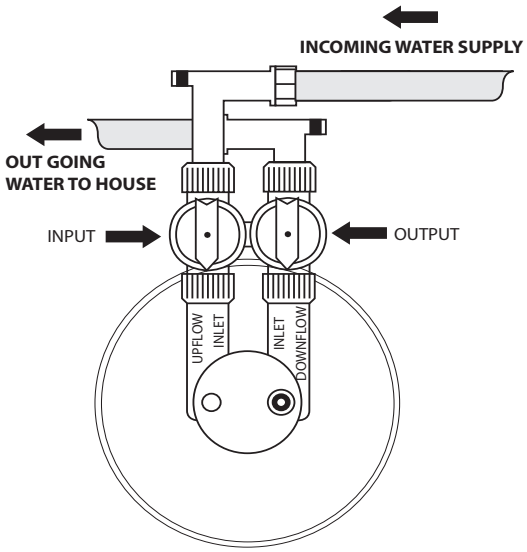
APEC's reverse osmosis system will provide you with unlimited ultra-fresh, healthy, and great tasting water right at home. You will enjoy the best quality water for cooking and making coffee, tea and ice while saving money, time, and hassle of buying bottled water. As the final stage of filtration, the reverse osmosis (RO) unit should be installed under the kitchen sink separate from the other two systems. This system provides ultra-pure water only at one source, from a dedicated faucet (provided) which is mounted on the sink counter.

(Please see RO System manual for installation).
(1 Package).

Note: This is only a basic introduction to the Total Solution System's features and setup. For complete installation information, please refer to the installation manual that is provided for each individual system.

QUICK INSTALLATION DIAGRAM for Whole House Max & Futura System

Pre Installation Preparation:

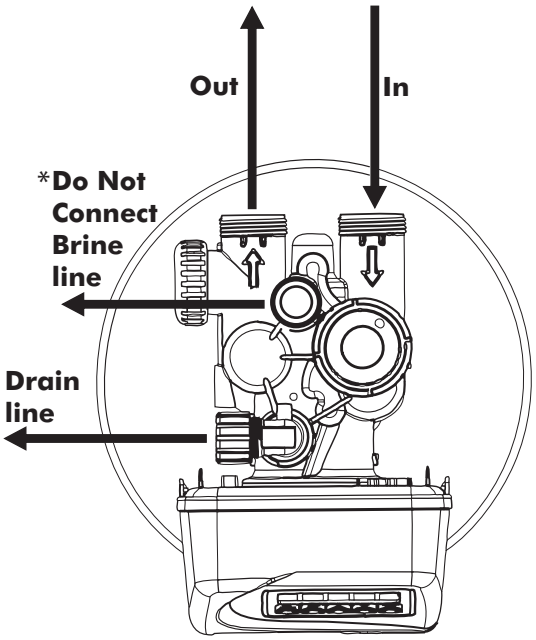


For Futura Salt Free Water Conditioner

The media in the Futura Conditioner is recommended to be soaked by water for 15 to 20 minutes before usage. **The salt free ceramic media has already been placed in the Futura media tank by the manufacturer.** Place the Futura Conditioner at the location of Installation, as the tank will be heavy to move once filled with water. Once the system input/output connections are connected, please turn on the incoming water supply to fill the Futura Conditioner and soak the media for 15-20 minutes before using water at home.

For Whole House Max Water Filter

After the Whole House Max is installed, please **manually back-flush** the unit once before use. The head has been factory pre programmed to regenerate once a week, but you can set the regeneration time to your preference. You basically will just need to set up the time of day. Please refer to pages 5-6 to manually backflush the unit and general setup.



Please note: The Control head of the Whole House Max only requires 3 connections. Inlet, Outlet and Drain Line.

DO NOT connect the Brine Line. The Brine line is only used when salt is needed in a water softener application.

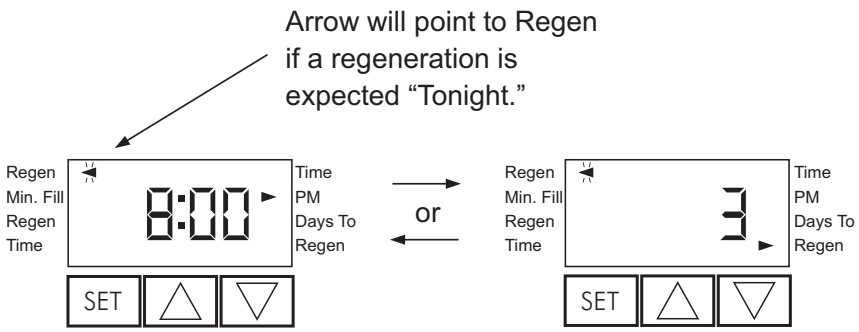
Determine Installation Location For Both Units:

- An electrical outlet will be required for the (WTS) Whole House Max System, but not for the Futura Water Conditioner.
- Do Not install Futura Water Conditioner with less than 5 feet of piping between its outlet and the inlet of the water heater.
- Do Not install the units where the location is subjected to room temperatures under 34 degrees Fahrenheit.
- The tanks should be placed on a firm, level surface.
- It is best to use a 1/2" ID (inner diameter) or larger drain line. The drain line for the WTS Max **should not exceed** 5 feet vertical.

SETTING UP TIMER CONTROL VALVE

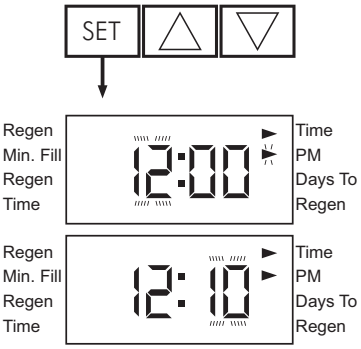
GENERAL OPERATION

When the system is operating one of two displays will be shown: time of day or days until next regeneration.
Pressing ▲ or ▼ button will toggle between the two choices.



TO SET TIME OF DAY

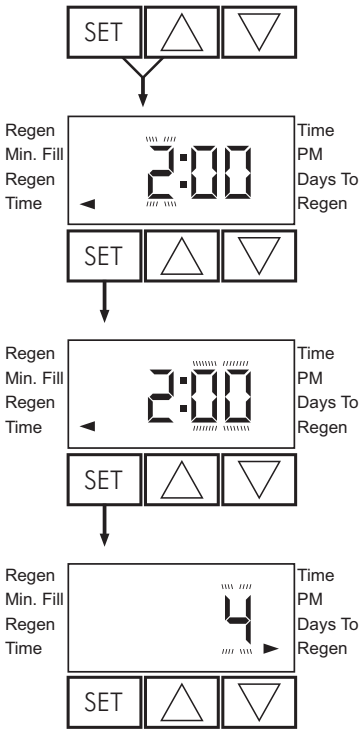
In the event of a prolonged power outage, time of day flashes, indicating that it needs to be reset. All other information will be stored in memory no matter how long the power outage. Please complete the steps as shown to the right. To access this mode, press “Set.”



1. Accessed by pressing SET for approximately 3 seconds.
2. Adjust hour with ▲ or ▼. With 60 Hz line frequency detection on power-up, timekeeping is 12 hour with PM indicator. With 50 Hz line frequency detection on power-up, timekeeping is 24 hour without the PM indicator. Press SET to go to the next step.
3. Adjust minutes with ▲ or ▼.
4. Press SET to complete and return to normal operation.

TO SET TIME OF REGENERATION AND DAYS BETWEEN REGENERATION

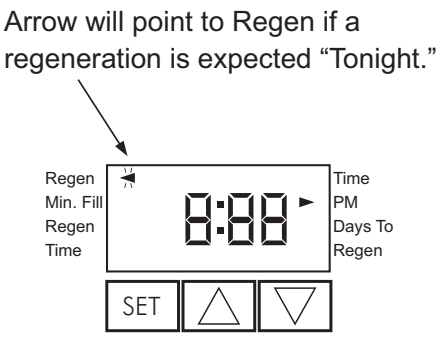
For initial set-up or to make adjustments, please complete the steps as shown. Access this mode by pressing SET and ▲ for approximately 3 seconds. The number of days between regenerations may need to be varied based on usage and water conditions. (This step will not appear if the 7-day clock option is selected.)



1. Accessed by pressing SET and ▲ simultaneously for about 3 seconds.
2. Set Regeneration Time Hour. Set the time for regeneration to start. Press SET to go to the next step.
3. Set Regeneration Time Minutes. Press SET to go to the next step.
4. Set number of Days between regeneration cycles.
5. Press SET to complete and return to normal operation.

MANUAL REGENERATION

NOTE: If you need to initiate a manual regeneration, either immediately, or tonight at the pre programmed time (typically 2 a.m), complete the following steps.

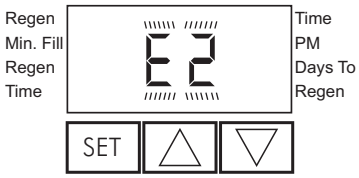


For Immediate Regeneration:
Press and hold ▲ and ▼ simultaneously until valve motor starts (typically 3 seconds).

For Regeneration Tonight:
Press and release ▲ and ▼ simultaneously (notice that arrow points to Regen).

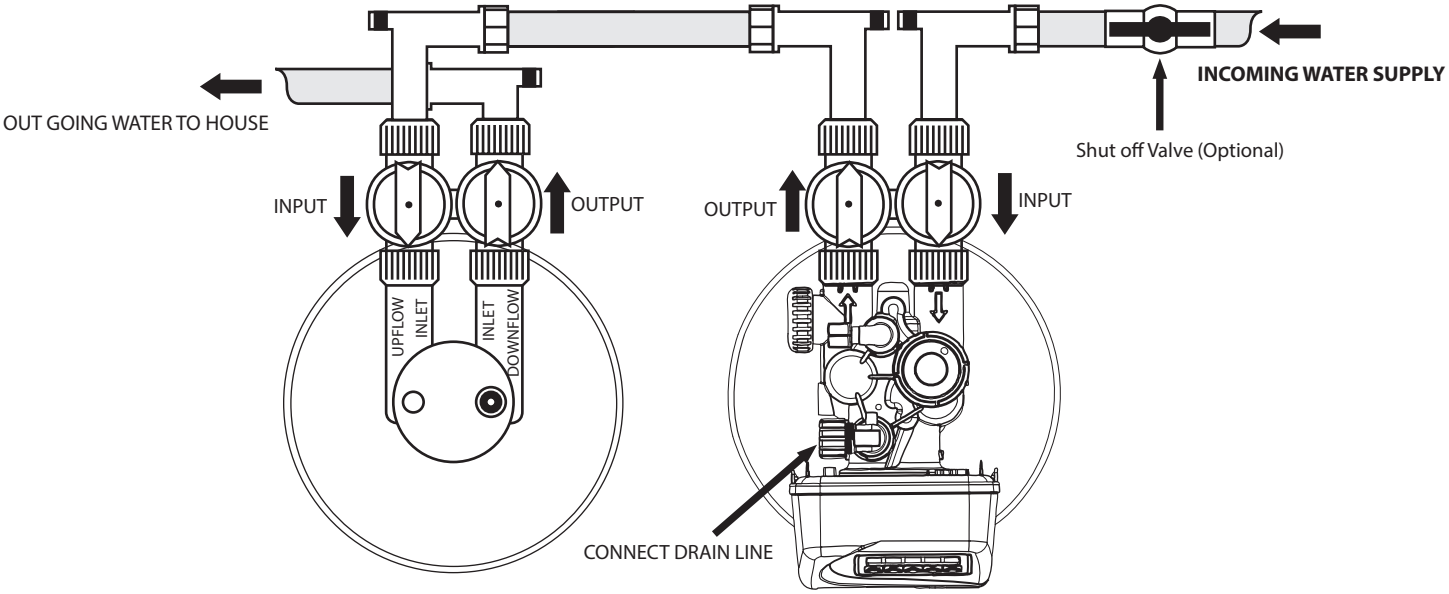
ERROR MESSAGES

If the display shows “E1,” “E2,” “E3”, or “E4” (for error), call a service technician.



System Installation:

This is an overview for system installation.



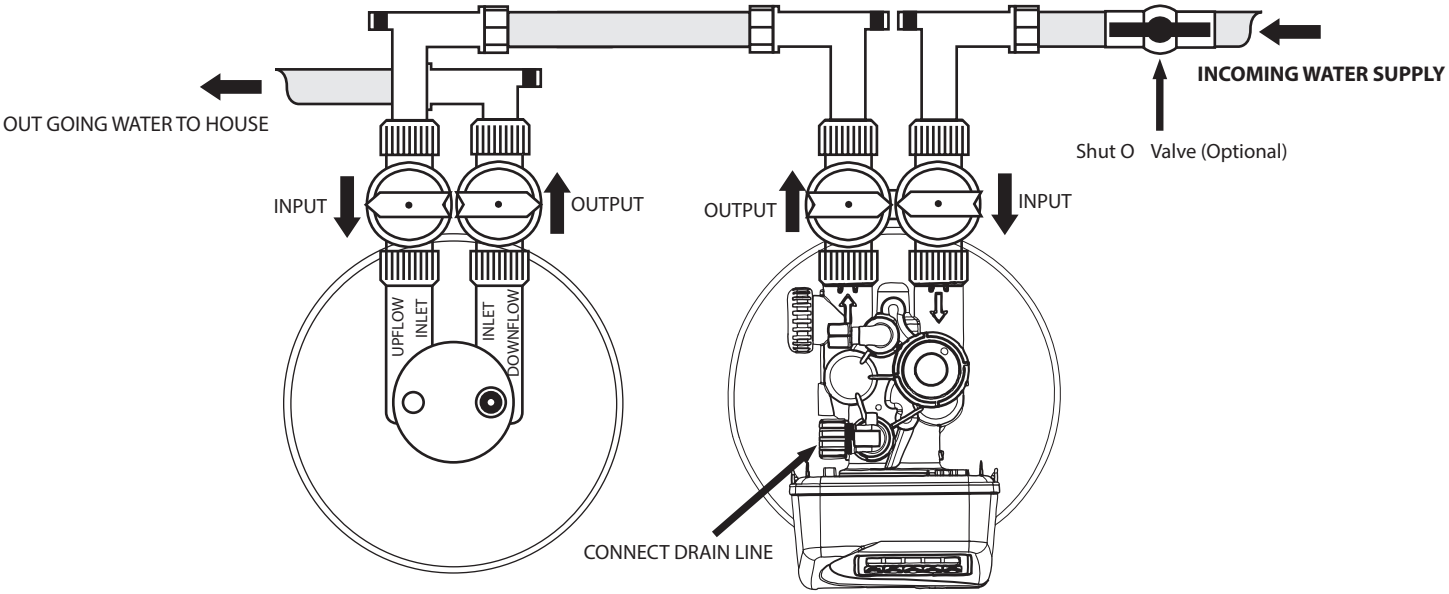
Futura Water Conditioner **(2nd Stage)**

Whole House Max Water Filter **(1st Stage)**

Please Set Time of Day on Whole House Max control head once installation is completed.

SHUTTING OFF WATER TO THE SYSTEM FOR MAINTENANCE

To **shut off water** to the system, please position arrow handles as shown in the bypass operation diagram below. If your valve doesn't look like the diagram below, contact your service technician for instructions on how to shut off water.



Futura Water Conditioner **(2nd Stage)**

Whole House Max Water Filter **(1st Stage)**

SYSTEM INSTALLATION: RO (Reverse Osmosis) Drinking Water System

<u>There are 4 main connections:</u>

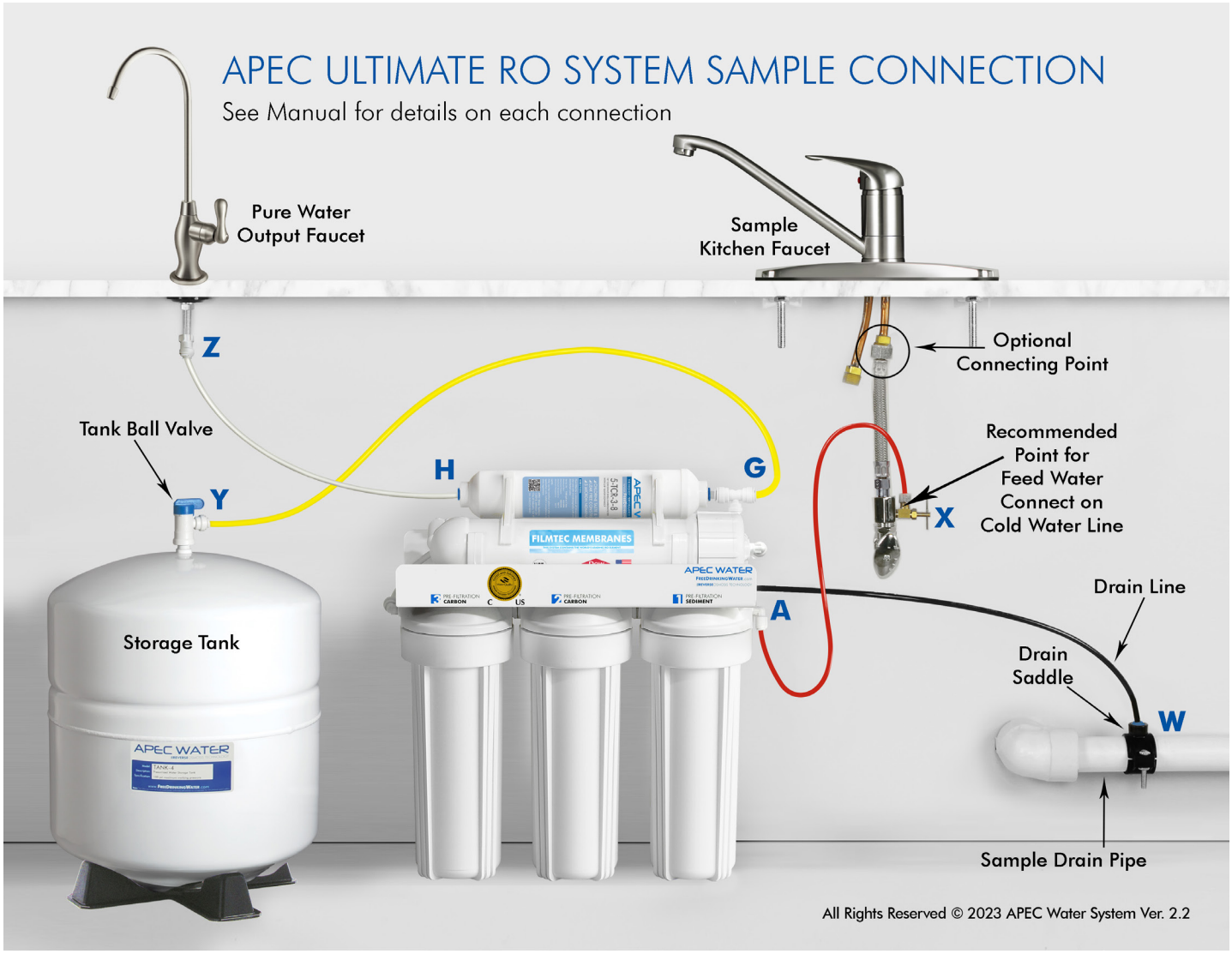
Point A to X: Using the provided Male and Female feed water adapter provided. Connect RO feed water line to COLD water supply — Red tubing.

Point G to Y: Connect product water from 5th-stage filter to tank — Yellow tubing. This tubing is a 2-way line, Product water enters and leaves the tank via this line.

Point H to Z: Connect product water from 5th-stage output to RO faucet — Clear tubing.

Drain line to W: Connect waste water from 4th-stage membrane to drain outlet — Black tubing.

* The quick setup guide should only be used as a summary. Please refer to the manual that is included with each individual unit for proper installation.



WARRANTY POLICY

Please refer to individual system manual for warranty coverage and details.

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