

TOTAL SOLUTION *S-Series*

QUICK SETUP GUIDE



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

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 Max Water System, a Salt-Based Water Softener and a reverse osmosis drinking system. Please read the guide below to get a basic understanding of the different individual systems in your Total Solution package.

1



Stage 1: WHOLE HOUSE MAX WATER SYSTEM

The Whole-House-Max water filter removes chlorine, chloramines, sediment and odors from the water throughout your entire home. You will be able to remove allergy causing chemicals, prevent dry sensitive skin and 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.

System Includes:



Bypass Valve
X 1



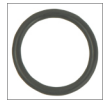
Elbow
Solvent Kit
X 2



Brass Sweat
Adapter Kit
X 2



1" Quick
Connect
X 4



Rubber
Orings
X 4



Plastic Split
Rings
X 4

2



Stage 2: Salt-Based Anti-Scale Water Softener

The SALT SOFTENER was designed using the most advanced technologies in the industry to provide you with truly luxurious soft water throughout your entire home without the hassle, inefficiencies and costs of traditional water softeners. By properly managing the salt-regeneration cycles, the SOFT-ENER-30 will save you time, money and trouble through its smart electronics softening process.

System Includes:



Bypass Valve
X 1



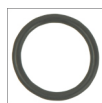
Elbow
Solvent Kit
X 2



Brass Sweat
Adapter Kit
X 2



1" Quick
Connect
X 4



Rubber
Orings
X 4



Plastic Split
Rings
X 4

3



Stage 3: REVERSE OSMOSIS DRINKING 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, 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 Manual for list of items it includes in the system.

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.

BEFORE INSTALLATION:

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.

For Whole House Max Water Filter & Salt-Based Anti-Scale Water Softener

- 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 filter.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfecting before or after.
- This water filter system will withstand up to 90 psi water pressure. If your house's water pressure is higher than 90 psi, install a pressure reducing valve before the system is installed.
- DO NOT install the water filter in an outside location or anywhere it will be exposed to direct sunlight.
- 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)

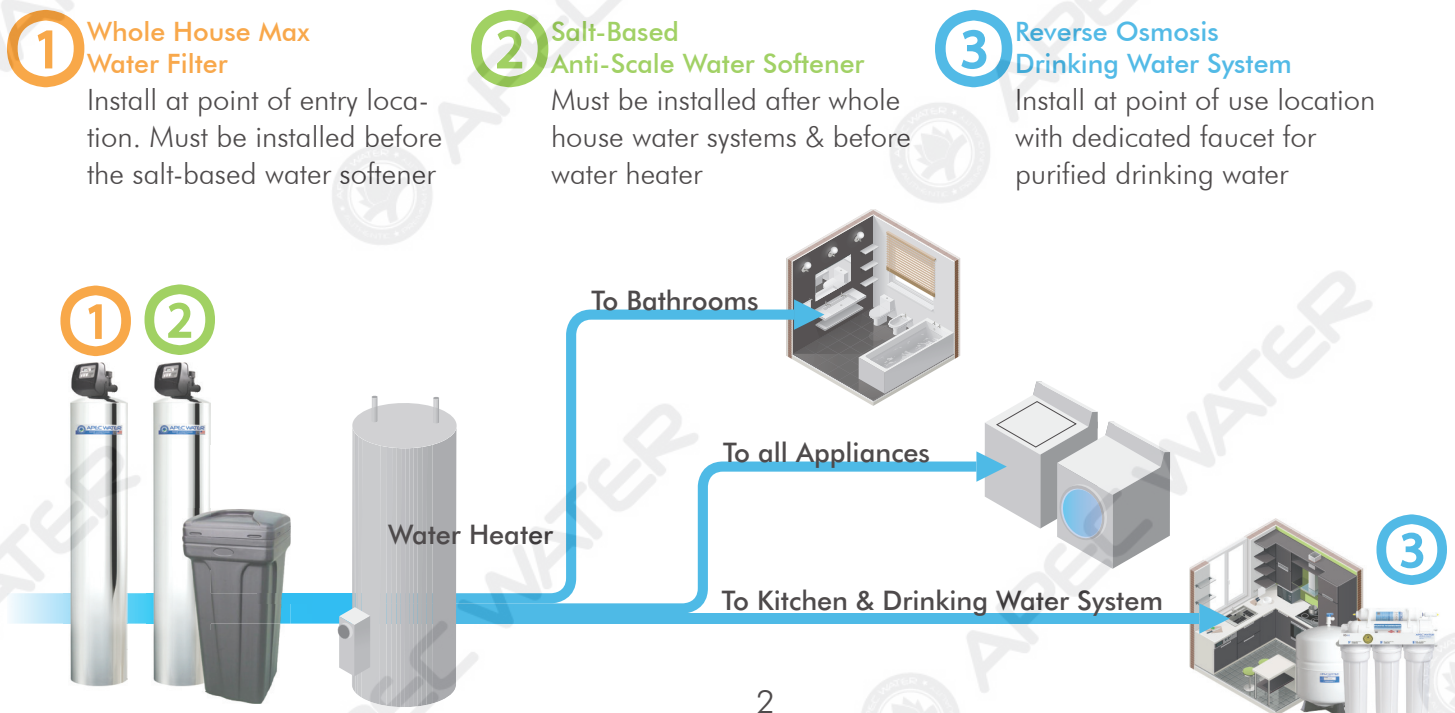
Recommended tools list:

- 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&1/4" hole)
- 5/8", 9/16" open-end wrench, or adjustable wrench, pliers
- Phillips screwdriver
- Utility knife, or scissors
- Teflon Tape

Operating Parameter:

- Operating pressure: 90psi maximum
- Feed water temperature: 40 – 100 °F (4-37 °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.
- 30 psi minimum of water pressure needed.

System Placement Guide

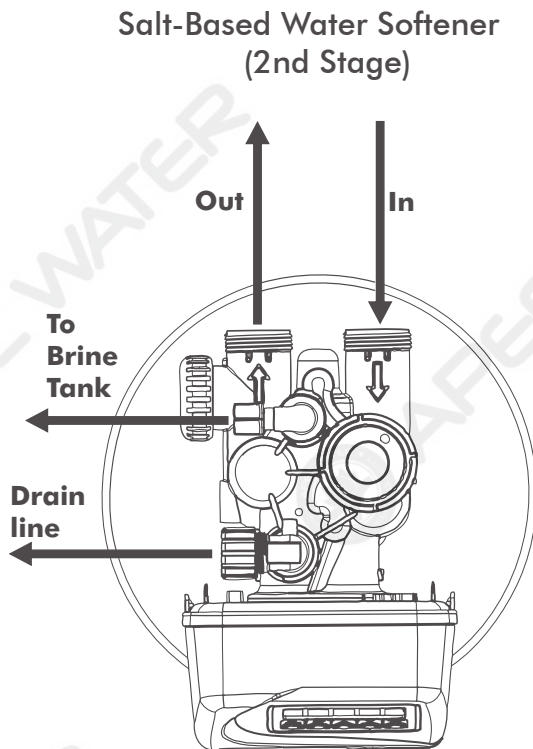


QUICK INSTALLATION DIAGRAM for Whole House Max & Salt-Based Softener

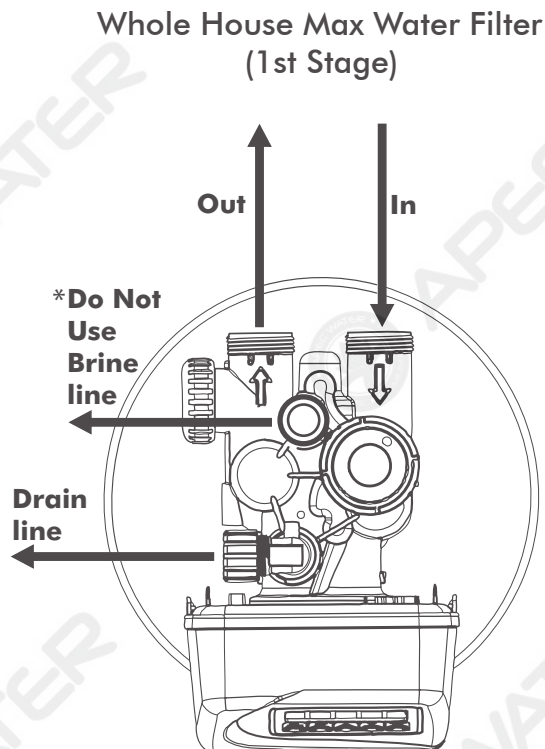
Pre Installation Preparation:

Whole House Max Water Filter & Salt-Based Water Softener

The media in both the Whole house Max water filter & Salt-Based Water Softener does not have to be pre soaked, however after both system is installed, please **manually backflush** both units 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 by adjusting the time & day settings. Please refer to pages 5-6 to manually backflush the unit and general setup.



Please note: The Control head of the Salt-Based Water Softeners requires 4 connections. Inlet, Outlet, Brine Line and Drain Line.



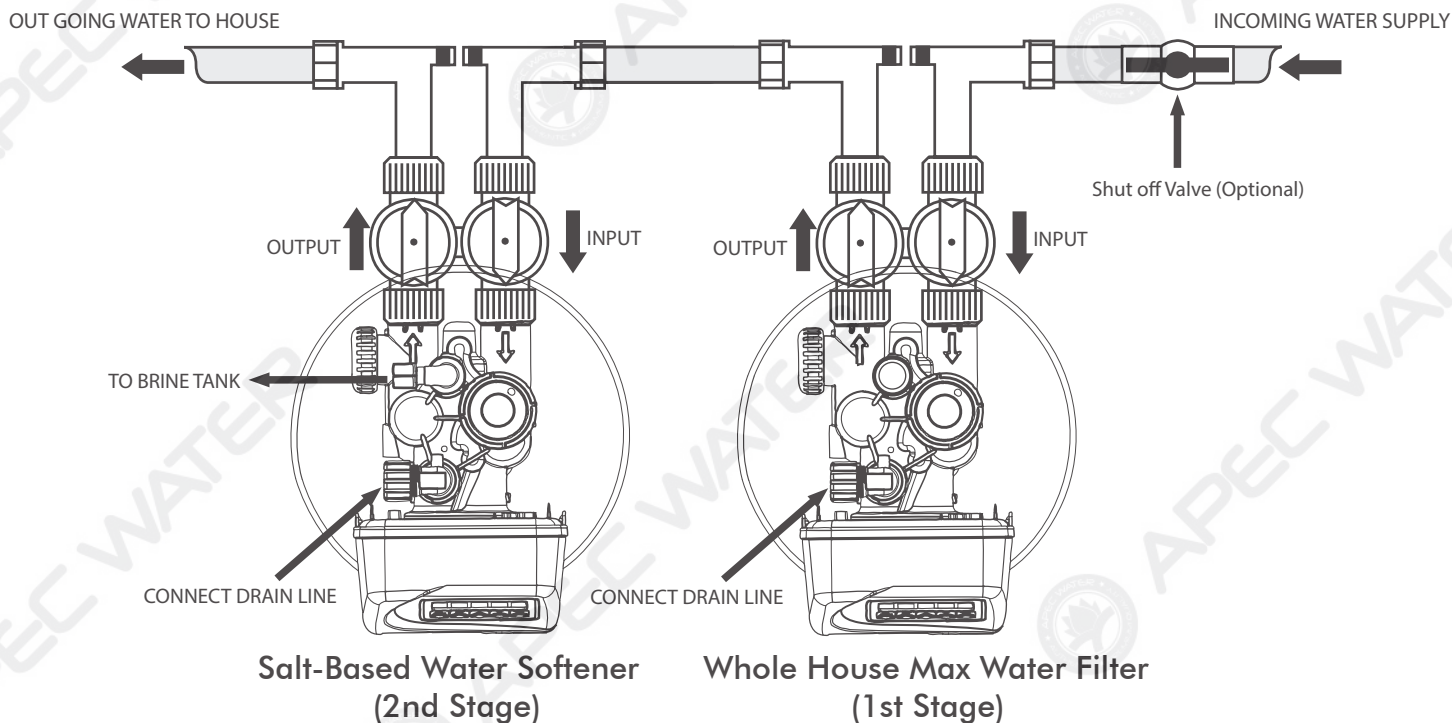
Please note: The Control head of the Whole house max only requires 3 connections. Inlet, Outlet and Drain Line.

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

Determine Installation Location For Installing Both Units:

- An electrical outlet will be required for both the (WTS) Whole House Max System, and Salt-Based Water Softeners
- Do Not install the units with less than 5-10 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 on a firm, level surface.
- Provided the drain line is not reduced, the drain line for the WTS Max **should not exceed** 5 feet Vertical. It is best to use a 1/2" ID (inner diameter) or larger drain line.

This is an overview for system installation.



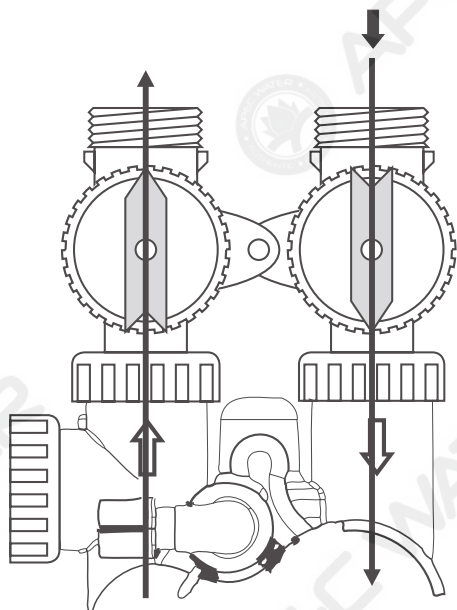
Please Set Time of Day on both the Whole House Max & Salt Softener's Control head once installation is completed.

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, simply pull up on the **RED ARROWS** and turn them to match what it is shown on the below figures.

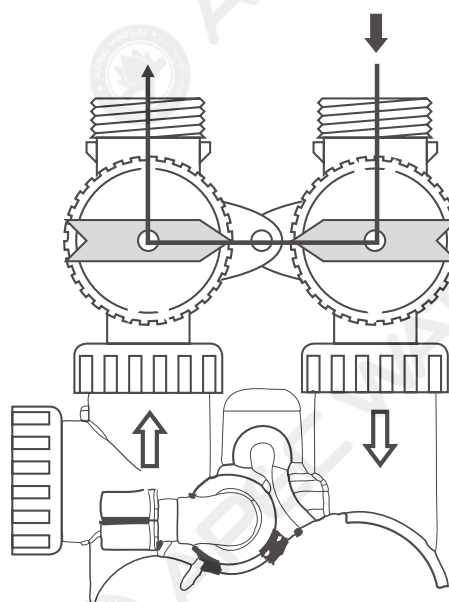
Normal Operation

Treated Water Exits Supply Water Enters



Bypass Operation

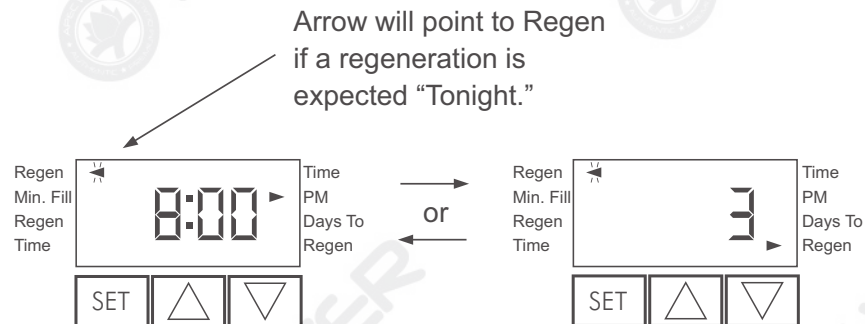
Supply Water Exits Supply Water Enters



SETTING UP TIMER CONTROL VALVE

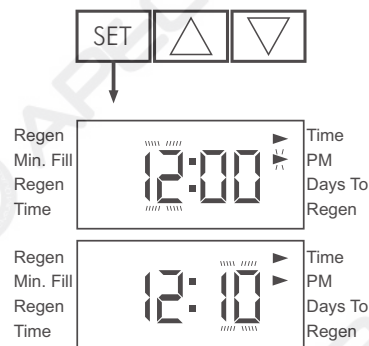
GENERAL OPERATION

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

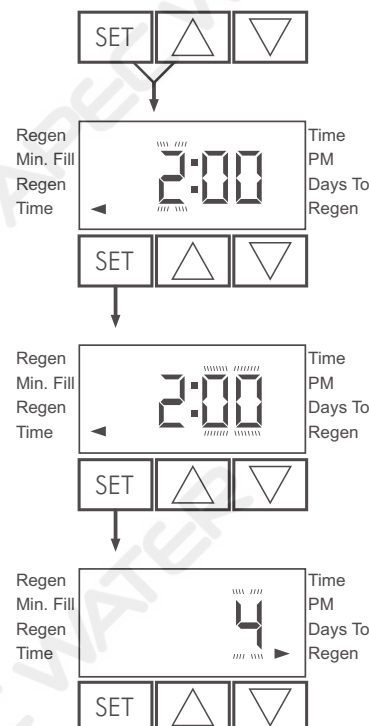
In the event of a prolonged power outage, time of day flashes, indicating that it needs to be reset. All other information will be stored in memory no matter how long the power outage. Please complete the steps as shown to the right. To access this mode, press "Set."



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.)

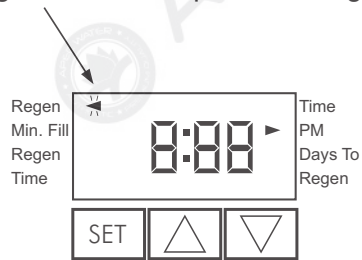


1. Accessed by pressing SET and ▲ simultaneously for about 3 seconds.
2. Set Regeneration Time Hour. Set the time for regeneration to start. Press SET to go to the next step.
3. Set Regeneration Time Minutes. Press SET to go to the next step.
4. Set number of Days between regeneration cycles.
5. Press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

Arrow will point to Regen if a regeneration is expected "Tonight."



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: RO (Reverse Osmosis) Drinking Water System

There are 4 main connections:

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.

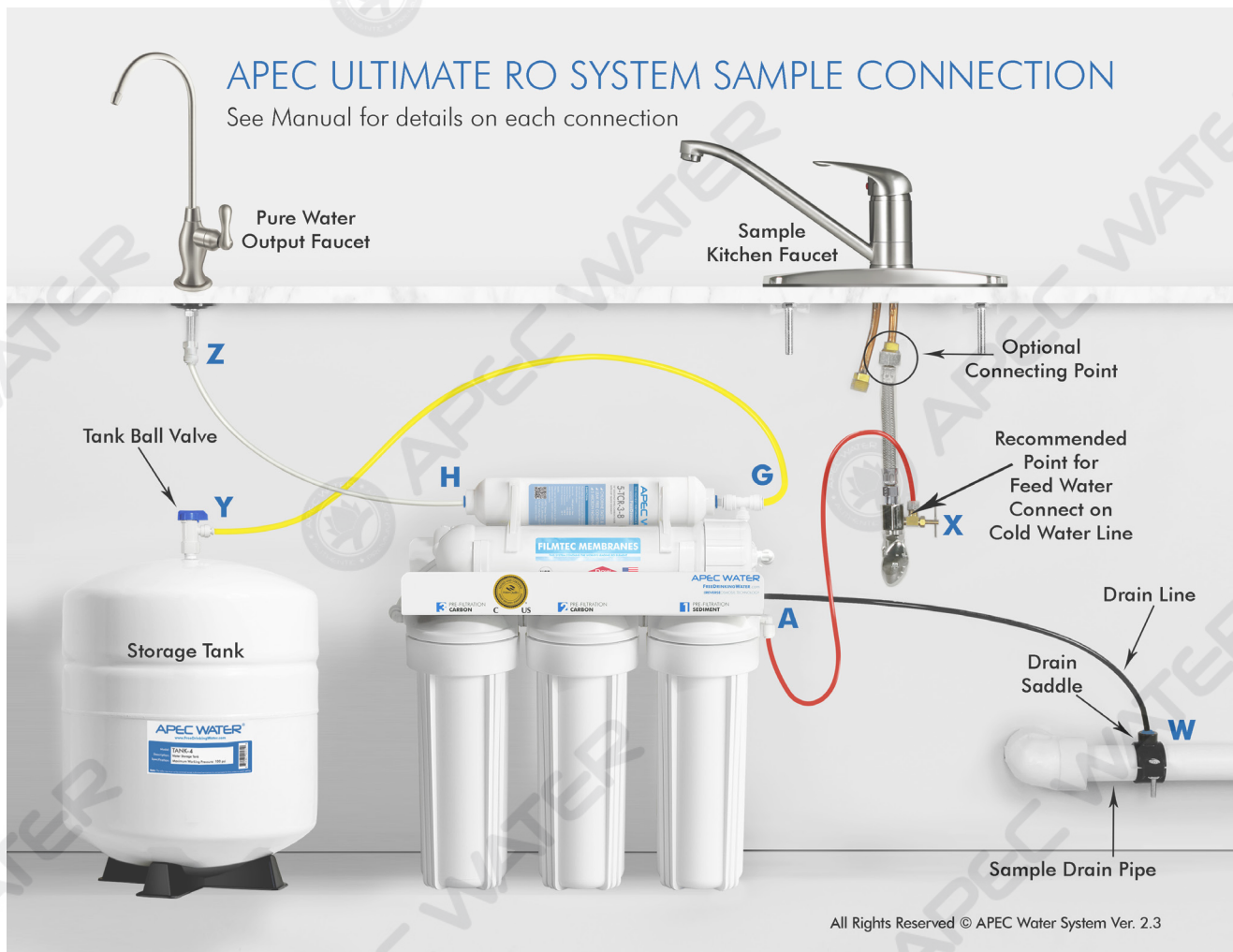
Point G to Y: Connect product water from 5th-stage filter to tank — Yellow tubing. This tubing is a 2-way line, Product water enters and leaves the tank via this line.

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

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

Please Note: The diagram below is for our Non Pump RO-45 and RO-Hi. If you are installing the RO Perm or RO Pump, please refer to the diagram in the addendum.*

* 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.

APEC WATER®

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