

OWNER'S MANUAL & INSTALLATION GUIDE



ecoPLUS™ G2- All Models

Standard Models: EP-600-G2 | EP-1000-G2

w/ TAC Salt-Free Hard Water Conditioning:
EP-600-TAC-G2 | EP-1000-TAC-10-G2 | EP-1000-TAC-G2

w/ UV Disinfection:
EP-600-UV-G2 | EP-1000-UV-10-G2 | EP-1000-UV-G2

w/ Ultimate Protection:
EP-600-ULT-G2 | EP-1000-ULT-10-G2 | EP-1000-ULT-G2

**PLEASE READ THIS MANUAL CAREFULLY BEFORE ATTEMPTING
INSTALLATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY
AFFECT THE PERFORMANCE OF YOUR SYSTEM, VOID YOUR
WARRANTY, AND RESULT IN PROPERTY DAMAGE.**

Congratulations on the purchase of your ecoPLUS™ G2 Series premium whole house water filtration system.

All of our ecoPLUS™ models are specifically engineered to treat city water by removing chlorine, chloramine, disinfection by-products, bad tastes and odors, and other trace contaminants. ecoPLUS™ delivers refreshing, great tasting drinking water, and protects your skin and hair from the damaging effects of these contaminants.

ecoPLUS™ is a modular treatment system that allows you to add additional functionality to our standard models including our popular ecoTAC™ salt-free hard water conditioning system, and a powerful UV disinfection system to provide wide-spectrum treatment for your home.

Our ecoTAC™ hard water conditioners use a salt-free water treatment technology called Template Assisted Crystallization (or "TAC" for short) to prevent hard water scale problems in your plumbing system, appliances, and more.

Our premium grade ultraviolet (UV) sterilizer which disinfects the water without the use of any chemicals, ensures your water is free of harmful bacteria, viruses, and other microbiological contaminants like cryptosporidium and giardia (beaver fever).

To get maximum performance from your ecoPLUS™ system, we encourage you to read this manual in its entirety before installation and operation of your filter system.

IMPORTANT SAFETY SYMBOLS



Hazards or unsafe practices that may result in personal injury and/or severe property damage.



Hazards or unsafe practices that may cause operational problems with your water treatment system.

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GENERAL WARNINGS



Do not allow children or pets to play on or around the water filter.

Do not install or store this filter system where it will be exposed to freezing temperatures.

Do not tamper with controls.

Do not install, repair, replace, or attempt to service any part of the system unless specifically instructed to in this manual and you have the understanding, tools, and skills necessary to carry out the procedure.

Packing materials can be dangerous to children. Keep all packing material (plastic bags, polystyrene, boxes, etc.) well out of children's reach.

Individual components of this water treatment system, and the installed system, are heavy. Precautions should be taken to prevent personal injury or strain. Do not move heavy components without assistance if you are not physically capable of safely carrying out the procedure.

If the water treatment system is to be left unattended for an extended period of time (vacation, etc.), we strongly recommend that you turn off the water supply to the system, or the whole house, while you are away.

If your water pipes are metal (galvanized or copper), they may be used to ground electrical systems, appliances, or your phone line. If this is the case, be sure to install regulation ground clamps to the metal pipe on each side of the filter system and connect a jumper wire between the 2 clamps (consult your local electrical code for wire gauge recommendation). Consult a certified electrician or plumber if you are unsure.

This water treatment system is designed specifically for the treatment of chlorinated city water supplies. ecoPLUS™ is not intended to be used to treat water from private wells or private surface water sources.

OPERATING CONDITIONS

The following chart provides guidance on the conditions required for successful operation of your ecoPLUS™ system.

This water treatment system is designed specifically for the treatment of chlorinated city water supplies. Unless directed by a water treatment professional, ecoPLUS™ is not intended to be used to treat water from private wells or private surface water sources. If you are unsure of the status of your water supply, please contact your dealer for assistance.



USE OF THIS EQUIPMENT OUTSIDE OF THESE OPERATING CONDITIONS MAY ADVERSELY AFFECT THE PERFORMANCE OF YOUR SYSTEM, RESULT IN SYSTEM DAMAGE INCLUDING WATER LEAKS AND CORRESPONDING PROPERTY DAMAGE, AND MAY VOID YOUR WARRANTY.

Model	Maximum Service Flow Rate	Recommended Service Flow Rate
EP-600-G2	10 GPM (37 LPM)	<7 GPM (26 LPM)
EP-600-TAC-G2		
EP-600-UV-G2		
EP-600-ULT-G2		
EP-1000-TAC-10-G2		
EP-1000-UV-10-G2		
EP-1000-ULT-10-G2		
EP-1000-G2	15 GPM (56 LPM)	<10 GPM (37 LPM)
EP-1000-TAC-G2		
EP-1000-UV-G2		
EP-1000-ULT-G2		

Water Supply	Treated City Water
Minimum Water Pressure	20 PSI
Maximum Water Pressure	90 PSI*
Recommended Water Pressure	40-70 PSI
Water Temperature	36F to 100F (2 to 38C)
Minimum Air Temperature	32°F (0°C)**
pH Range	6.5*** to 8.5

* While the ecoPLUS™ system is built to withstand pressures of up to 90 PSI, if your water pressure is greater than 70 PSI, we recommend that you have a certified plumber install a pressure reducing valve ahead of the ecoPLUS™ system.

** The system cannot be subjected to freezing conditions or severe damage to the system and your property could occur.

*** pH correction is strongly recommended where pH levels are less than 6.5 to prevent damage to your plumbing system, and to prevent the leaching of metals from copper and brass plumbing components and solder in your home. Contact your dealer for recommendations.

It is very important to note that the presence of elevated levels of iron, manganese, copper, and certain other contaminants can damage the TAC media in the models with a TAC salt-free hard water conditioner, reducing its effectiveness and shortening its life.



FOR MODELS WITH A TAC SALT-FREE HARD WATER CONDITIONER, WATER EXCEEDING ANY OF THE FOLLOWING LEVELS SHOULD BE PRE-TREATED TO REDUCE CONTAMINANT LEVELS BELOW THE STATED LEVEL:

Iron	0.3 ppm (mg/l)
Manganese	0.05 ppm (mg/l)
Copper	1.3 ppm (mg/l)
Polyphosphates	Must be removed
Oils	Must be removed

The presence of these contaminants in municipally treated (city) water is very rare, with the exception of copper which can be found in homes with newly installed copper pipes.



FOR HOMES WITH SIGNIFICANT NEWLY INSTALLED COPPER PIPES PRIOR TO THE ECOTAC™ UNIT, IT IS RECOMMENDED THAT INSTALLATION OF THE SYSTEM BE POSTPONED FOR 3-4 WEEKS TO ALLOW A PROTECTIVE COATING TO FORM ON THE NEW COPPER PIPES.

INSTALLATION



WE RECOMMEND THAT YOU READ THIS ENTIRE MANUAL BEFORE STARTING THE ACTUAL INSTALLATION. WHILE WE STRONGLY RECOMMEND THAT A LICENSED PLUMBER OR WATER TREATMENT PROFESSIONAL PERFORM ALL INSTALLATION WORK, A MECHANICALLY-INCLINED HOMEOWNER WITH SUITABLE PLUMBING KNOWLEDGE CAN INSTALL THIS SYSTEM. IN ALL CASES, IT IS CRITICAL THAT THE INSTALLATION BE DONE IN ACCORDANCE WITH THESE INSTRUCTIONS AND ALL APPLICABLE PLUMBING AND ELECTRICAL CODES. BE SURE TO OBTAIN ALL REQUIRED PERMITS. IF THESE INSTRUCTIONS AND THE APPLICABLE CODES ARE IN CONFLICT, THE RELEVANT PLUMBING/ELECTRICAL CODE SHALL BE FOLLOWED. EQUIPMENT FAILURE, PERSONAL INJURY, OR PROPERTY DAMAGE CAN RESULT IF THIS EQUIPMENT IS NOT INSTALLED PROPERLY.



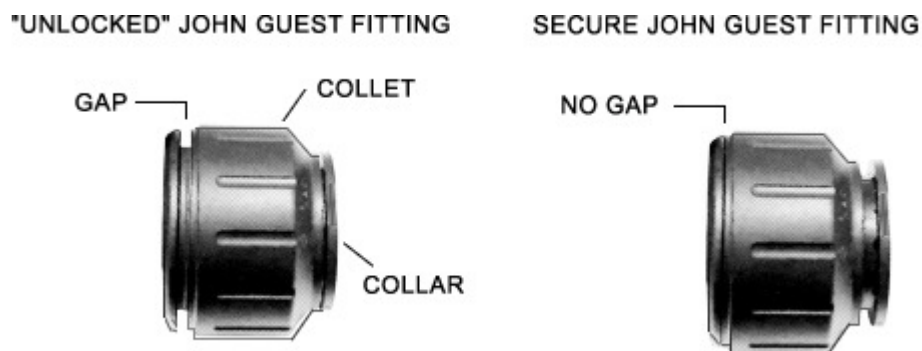
ONCE FILLED WITH MEDIA, KEEP THE MEDIA TANKS UPRIGHT AT ALL TIMES.



FOR MODELS WITH A TAC SALT-FREE HARD WATER CONDITIONER: WE RECOMMEND THAT NEW COPPER PIPE NOT BE USED IN THE INSTALLATION. THIS IS BECAUSE NEW COPPER WATER LINES MAY RELEASE SOME COPPER IONS INTO THE WATER FOR SEVERAL WEEKS AFTER INSTALLATION AND THESE IONS CAN HAVE A NEGATIVE IMPACT ON THE ECOTAC™ MEDIA. TO FURTHER MINIMIZE ANY PROBLEMS WITH COPPER, AVOID APPLYING EXCESS FLUX ON THE INNER SURFACES OF THE PIPE AND USE A LOW-CORROSIVITY WATER SOLUBLE FLUX LISTED UNDER THE ASTM B813 STANDARD. FOR HOMES WITH SIGNIFICANT NEWLY INSTALLED COPPER PIPES PRIOR TO THE ECOTAC™ UNIT, IT IS RECOMMENDED THAT INSTALLATION OF THE SYSTEM BE POSTPONED FOR 3-4 WEEKS TO ALLOW A PROTECTIVE COATING TO FORM ON THE NEW COPPER PIPES.

John Guest® Quick-Connect Style Fittings

Several connections in the installation use a special type of quick connect fitting made by John Guest®. To connect a John Guest® fitting, unlock the fitting by turning the collet counter-clockwise until the fitting loosens. A small gap will open between the collet and the back of the fitting. Push the tube firmly into the fitting as far as it will go. Turn the collet clockwise until tight to secure the fitting. Pull out on the tube to ensure a good connection has been made. The pipe can be removed from the fitting by loosening the collet again and depressing the collar evenly while pulling outward on the tube.



Step 1. – Pre-Installation Inspection

Inspect all of the components that you received with your system. There will be multiple boxes. Which boxes you receive will depend on the model you selected (see chart below). A checklist detailing the contents of each of the boxes will be included inside each box.

Model	Boxes
EP-600-G2	Boxes 1, 2, 3, 4 & 5
EP-600-TAC-G2	Boxes 1, 2, 3, 4, 5, 10 & 12 You will also receive a SWC1-18 flexible connector which will be packaged in one of the other boxes.
EP-600-UV-G2	Boxes 1, 2, 3, 4 & 5 You will also receive a VQUA VH200 UV Sterilizer, and a SWC1-18 flexible connector which will be packaged in one of the other boxes.
EP-600-ULT-G2	Boxes 1, 2, 3, 4, 5, 10 & 12 You will also receive a VQUA VH200 UV Sterilizer, and two SWC1-18 flexible connectors which will be packaged one or more of the other boxes.
EP-1000-TAC-10-G2	Boxes 1, 2, 6, 7, 8, 9, 10 & 12 You will also receive a SWC1-18 flexible connector which will be packaged in one

	of the other boxes.
EP-1000-UV-10-G2	Boxes 1, 2, 6, 7, 8 & 9 You will also receive a VQUA VH200 UV Sterilizer, and a SWC1-18 flexible connector which will be packaged in one of the other boxes.
EP-1000-ULT-10-G2	Boxes 1, 2, 6, 7, 8, 9, 10 & 12 You will also receive a VQUA VH200 UV Sterilizer, and two SWC1-18 flexible connectors which will be packaged in one or more of the other boxes.
EP-1000-G2	Boxes 1, 2, 6, 7, 8 & 9
EP-1000-TAC-G2	Boxes 1, 2, 6, 7, 8, 9, 11 & 12 You will also receive a SWC1-18 flexible connector which will be packaged in one of the other boxes.
EP-1000-UV-G2	Boxes 1, 2, 6, 7, 8 & 9 You will also receive a VQUA VH410 UV Sterilizer, and a SWC1-18 flexible connector which will be packaged in one of the other boxes.
EP-1000-ULT-G2	Boxes 1, 2, 6, 7, 8, 9, 11 & 12 You will also receive a VQUA VH410 UV Sterilizer, and two SWC1-18 flexible connectors which will be packaged in one or more of the other boxes.

Step 2. – Selecting an Installation Location

While exterior installation in warm climate areas is possible, we strongly recommend interior installation only. The system cannot be allowed to freeze or severe system damage could occur. The system should not be installed in direct sunlight, as long-term exposure to UV light could damage components of the system or cause excessive water temperatures in the system. If your ecoPLUS™ model includes a UV sterilizer, the electronic components of the UV sterilizer should not be exposed to rain, excessive dust, or moisture.

Select a location for installation of your water filter that is within close proximity to the main incoming water line of the home. The location should have a firm, level surface with enough space for the unit itself and sufficient space surrounding the unit to facilitate maintenance.

The approximate installation space required for the installation will depend on the model you purchased. The following are estimates only based on typical use of the flexible stainless steel connectors that come with each system, and common layout of components.

See the figure corresponding with your model at the back of this manual for a general depiction of the layout of your system.

Model	Approximate Installation Space Required	Figure (see back of manual)
	Inches Wide x Inches High x Inches Deep	
EP-600-G2	35 x 50 x 20.5	#1 on page 35
EP-600-TAC-G2	47 x 50 x 20.5	#2 on page 36
EP-600-UV-G2	45 x 64 x 20.5	#3 on page 37
EP-600-ULT-G2	55 x 63 x 20.5	#4 on page 38
EP-1000-TAC-10-G2	47 x 60 x 21.5	#5 on page 39
EP-1000-UV-10-G2	45 x 66 x 21.5	#6 on page 40
EP-1000-ULT-10-G2	55 x 66 x 21.5	#7 on page 41
EP-1000-G2	35 x 60 x 21.5	#8 on page 42
EP-1000-TAC-G2	48 x 60 x 21.5	#9 on page 43
EP-1000-UV-G2	45 x 66 x 21.5	#10 on page 44
EP-1000-ULT-G2	56 x 66 x 21.5	#11 on page 45

ecoPLUS™ should be installed after your pressure tank and booster pump, if applicable, and before your hot water heater. In most cases, the system should also be installed after the branch line(s) to exterior irrigation, unless you want your exterior faucets to deliver treated water. Depending on the configuration of your plumbing system, this is not always possible.

 **CAUTION**

IF YOU HAVE OTHER WATER TREATMENT EQUIPMENT, YOU SHOULD DISCUSS THE ORDER OF YOUR TREATMENT EQUIPMENT WITH YOUR DEALER PRIOR TO INSTALLATION.

 **WARNING**

WHILE WATER LEAKS ARE VERY RARE AND UNEXPECTED, YOUR WATER FILTER SYSTEM SHOULD BE LOCATED NEXT TO A FLOOR DRAIN OR PROTECTED BY A WATER LEAK DETECTION SYSTEM WITH AUTOMATIC SHUT-OFF VALVE TO PREVENT WATER DAMAGE TO YOUR PROPERTY IN THE UNLIKELY EVENT OF A WATER LEAK. RECOMMENDED WATER LEAK DETECTION SYSTEMS ARE AVAILABLE AT www.a-leak-detector.com AND www.homepluswater.com/leak-detection.php.

Step 3. – Load ecoPLUS Main Media Tank

Note that the black base of the media tank is not permanently attached to the rest of the tank. If your tank appears to be crooked, the base has likely been knocked out of alignment during shipping. This can be corrected by picking the tank up and tapping it on a hard surface while holding it perpendicular to the floor. A few light taps will generally straighten it out.

Insert the riser tube assembly into the tank. On one end of the riser tube, there is a distributor which looks like a cone-shaped plastic screen. There is a recess in the center of the tank to accept the distributor to keep it properly aligned. The riser tube has been pre-cut to the correct height for you. When the distributor is correctly positioned, the top of the riser tube will be very close to flush to the top of the tank. If the tube is protruding above the top of the tank, the distributor is likely not nested correctly in the recess at the bottom of the tank.

Add enough water to the tank to cover the distributor with a minimum of 12 inches of water. This will prevent damage to the lower distributor as media is loaded. Place the funnel into the tank so that the riser tube is in the middle. Place tape over the open end of the riser tube. This will prevent gravel or media from accidentally going down the tube during the following steps.

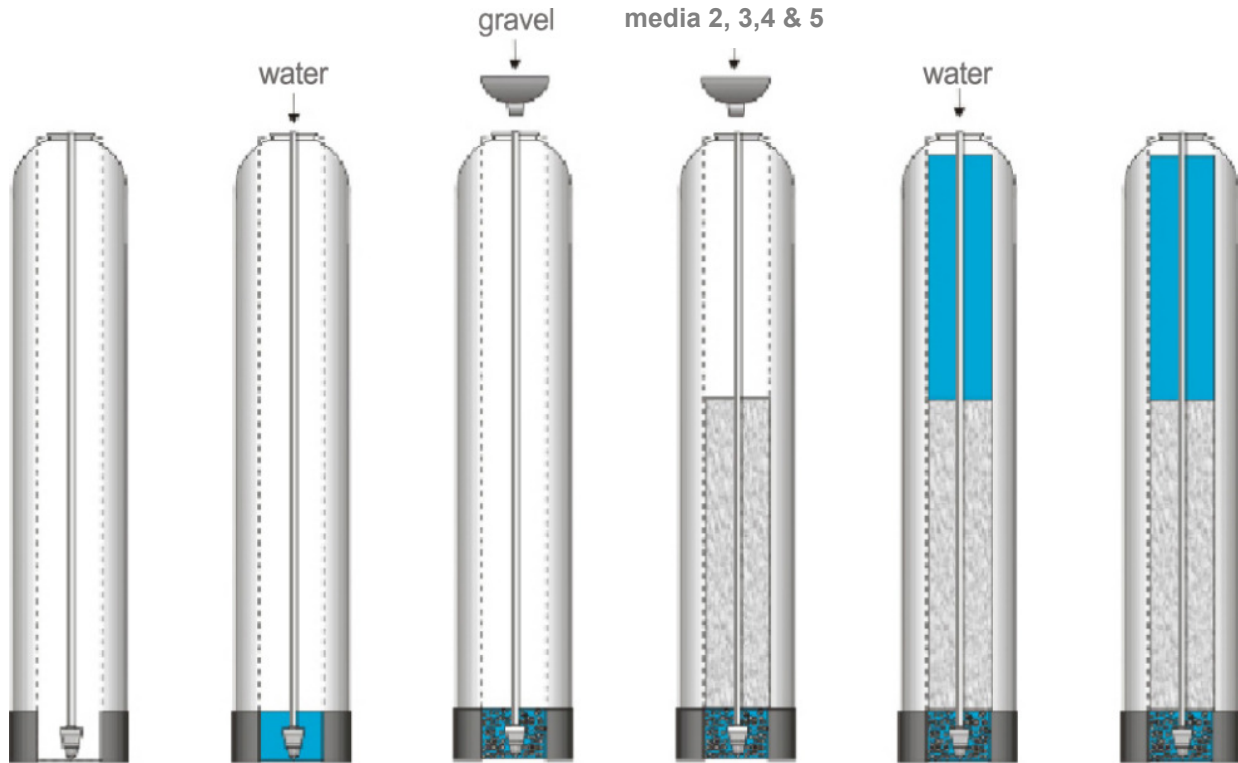
For the following steps, we recommend that you wear an N95 or P100 dust mask and ventilate the area so you have a fresh air supply. Take the bag/box of gravel and, using a small scoop, add the gravel to the tank through the funnel to completely cover the distributor. Use all of the gravel. Be sure to provide some downward pressure on the riser tube while adding the gravel to ensure that the distributor does not shift out of its recess or rise up. Ensure that you create an even layer of gravel across the bottom of the tank. Ensure that the riser tube remains centered in the opening at the top of the tank.

Once this is complete, add the KDF 55 Media next (marked Media #2) in the same manner. Use all of the KDF 55 media provided.

Next, add the Coconut Shell Activated Carbon (marked Media #3) in the same manner. Use all of the media provided. Using a small scoop to add the media slowly will help reduce dust.

Finally, add the Catalytic Carbon (marked Media #4), and the Inert Beads (marked Media #5) in the same manner. Use all of the media provided.

Depending on the capacity of the system, there will only be enough media to fill the tank to about 2/3 full. This is normal. The media tank should never be filled to the top of the tank as the remaining space, known as the “freeboard,” is necessary for the media to have room to expand during the service cycle.



Once you have finished adding the media to the tank, remove the tape from the distributor tube. Be careful not to pull upwards on the riser tube while doing this as it is important that the distributor remain in its recess at the bottom of the tank.

Fill the media tank with water up to within a couple of inches of the top of the tank. This will allow the media to pre-soak, thereby preventing media loss during the initial flushing.

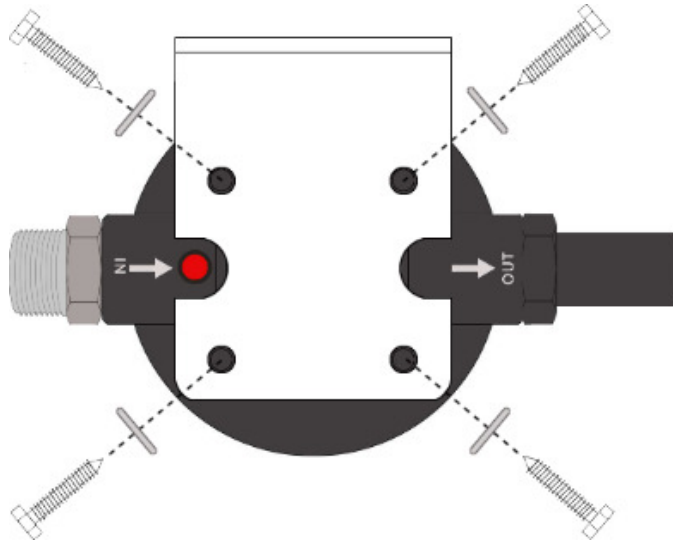
Apply a small amount of lubricant to the top inch of the outside of the riser tube and to the large o-ring on the bottom of the ecoPLUS™ Valve Head. **Note: Only use food-grade silicone lubricant. A small tube of lubricant is provided in the small parts bag in Box 1. Do NOT use petroleum jelly.**

The ecoPLUS™ Valve Head can now be secured to the top of the tank. Before attaching the Valve Head, check to make sure that there is no debris such as gravel or media in the tank threads. Screw the Valve Head onto the tank – make sure that the riser tube inserts into the center hole in the upper screen and the control valve as you screw down the valve. The

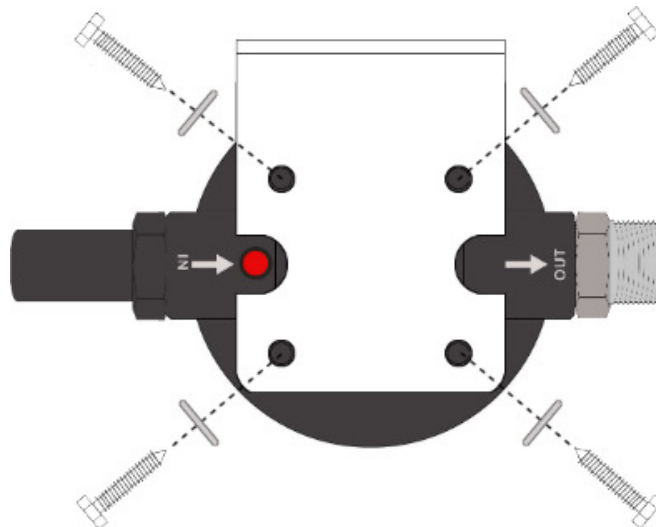
control valve should be hand-tightened (clockwise). A firm grasp with both hands will work. Do not over-tighten. Do NOT use pipe cement (“pipe dope”) or Teflon® tape on the threads.

Step 4. – Attach Mounting Bracket to Housing Cap

Locate Box #1. Using four (4) of the lag bolts and washers from this box, attach the mounting bracket to the pre-filter cartridge filter housing cap as shown in the diagram below. Note that the stainless steel threaded fitting should be on the left (inlet) and the black plastic stem fitting should be on the right (outlet).



Locate Box #2. Using four (4) of the lag bolts and washers from this box, attach the mounting bracket to the post-filter cartridge filter housing cap as shown in the diagram below. Note that this time, the fittings will be reversed. The black plastic stem fitting should be on the left (inlet) the stainless steel threaded fitting should be on the right (outlet).



Step 5. – Attach Housing Caps to Wall

Attach the cartridge filter housing caps and mounting brackets to your wall using the remaining four (4) lag bolts and washers as shown below.

For EP-600 Series Models: The top of the mounting brackets should be mounted **EXACTLY 52 3/4 (52.75) inches** off the floor and **12 1/8 (12.125) inches** apart (see diagram on next page).

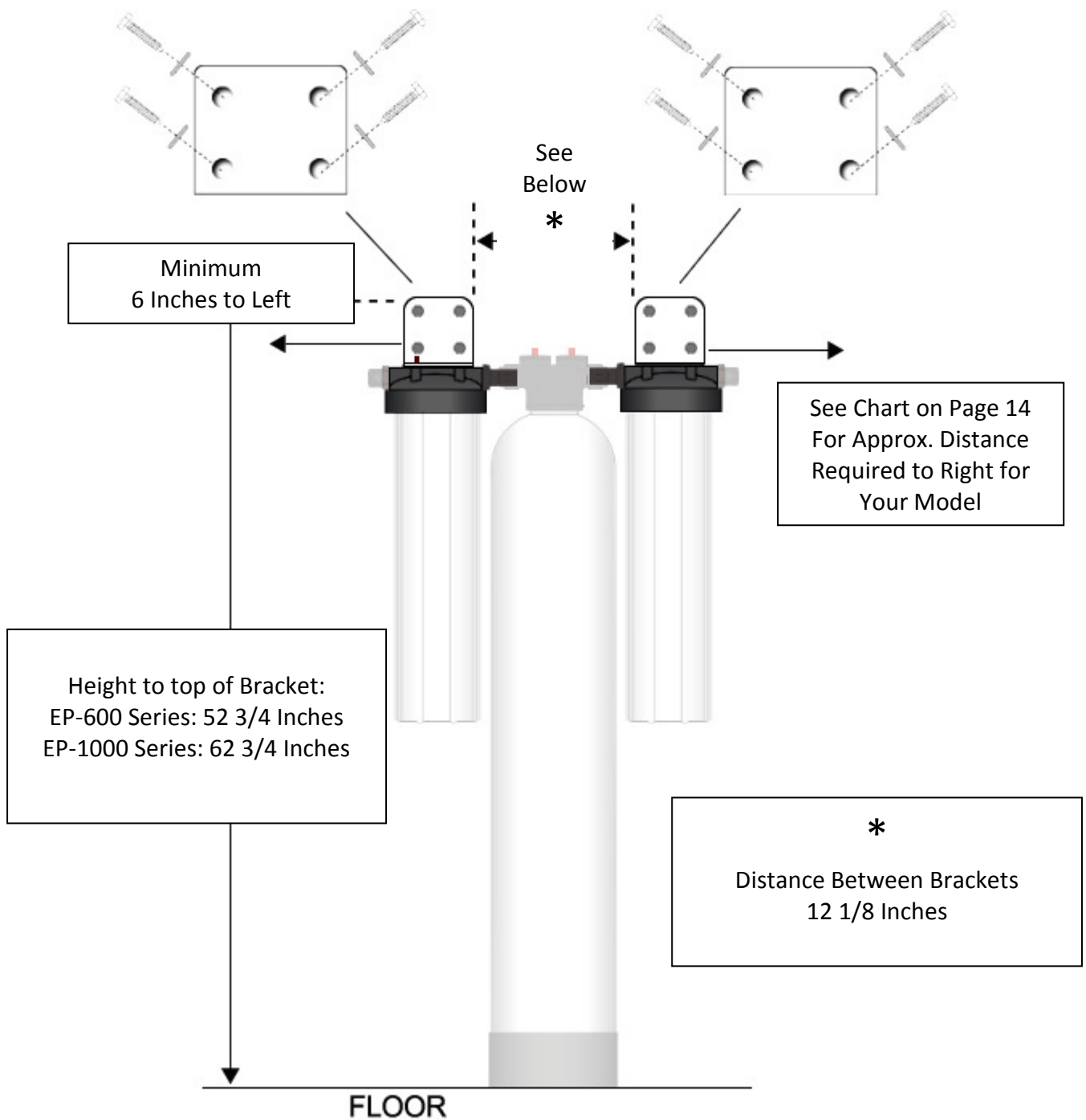
For EP-1000 Series Models: The top of the mounting brackets should be mounted **EXACTLY 62 3/4 (62.75) inches** off the floor and **12 1/8 (12.125) inches** apart (see diagram on next page).

If mounting to drywall, we recommend that you use suitable wall anchors or that you mount a small piece of 3/4 inch plywood to the wall first, ensuring that it is securely screwed into the wall studs. When the cartridge filter housings are full of water, they are heavy, so it is important to ensure that the mounting will be strong enough to support the weight.

Use a carpenter's level to ensure that the brackets are mounted level to the floor. You will need to ensure that there is adequate space to the right side of the post-filter bracket to accommodate the rest of the system. You will need a minimum of 6 inches on the left of the pre-filter housing and the following distance to the right of the post filter housing depending on your model:

Model	Approximate Space Required to Right of Housing (Inches)
EP-600-G2	6
EP-600-TAC-G2	18
EP-600-UV-G2	16
EP-600-ULT-G2	26
EP-1000-TAC-10-G2	18
EP-1000-UV-10-G2	16
EP-1000-ULT-10-G2	26
EP-1000-G2	6
EP-1000-TAC-G2	19
EP-1000-UV-G2	16
EP-1000-ULT-G2	27

See the figure corresponding with your model at the back of this manual for a general depiction of the layout of your system.



Step 6. – Install Cartridge Filters and Attach Sumps

Remove the protective plastic wrap from the sediment pre-filter (SDC-45-2005) from Box 1 and place it in its housing sump. At the bottom of the sump, there is a raised portion in the middle (standpipe) that will help center the filter in the housing. The standpipe will fit inside the hole that runs through the middle of the filter cartridge. Check to make sure that the black O-ring is seated properly in the groove at the top of the housing sump and that it is

well lubricated with food-grade silicone lubricant, then screw the housing sump containing the filter cartridge onto the cartridge filter housing cap on the left. Hand tighten only - If you use the spanner wrench, use it only to provide convenient grip, do not over-tighten! Excessive force is not required to obtain a good seal.

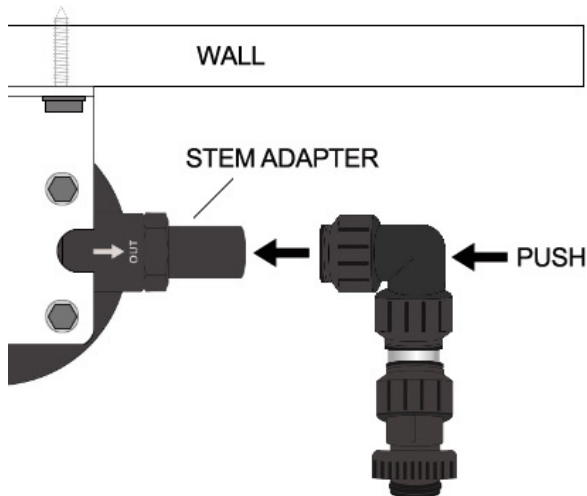
Repeat this process for the sediment post-filter (SDC-45-2001) from Box 2 and install it onto the cartridge filter housing on the right.

Step 7. – Connect the Inlet and Outlet Assemblies to the Caps

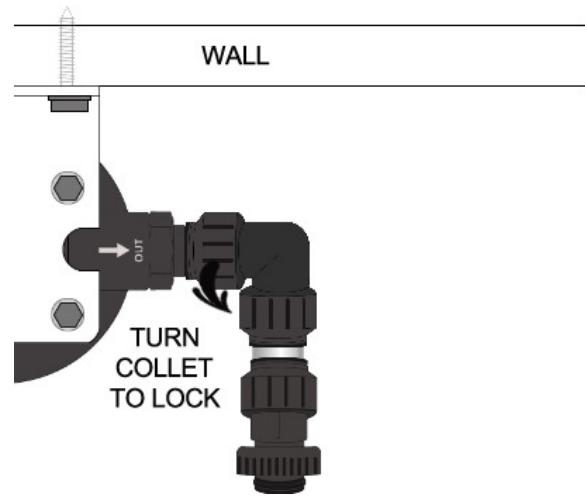
Refer to [John Guest® Quick-Connect Style Fittings](#) above. First, ensure the John Guest® fittings are “unlocked.”

Locate the inlet and outlet assemblies in Boxes #1 and #2. They are the same and can be used interchangeably. Attach these to the black stem fittings in the outlet of the pre-filter housing cap, and the inlet of the post-filter cap as shown in the diagrams below:

Push the elbow end of the inlet and outlet assemblies onto the black stem adapter as far as they will go.

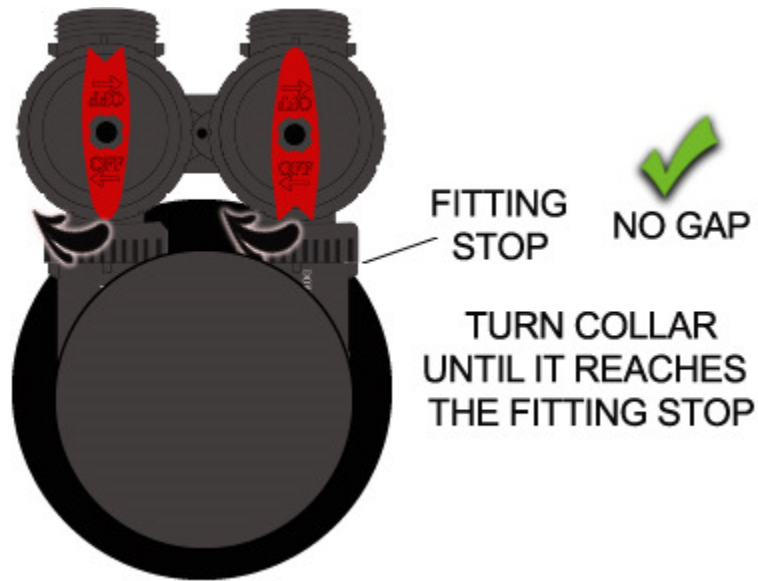


Then, turn the collet to securely lock the fitting.



Step 8. – Connect Bypass Assembly to ecoPLUS™ Valve Head

Connect the bypass assembly to the ecoPLUS™ Valve Head. Be sure to screw the collar all the way up to the fitting stop so there is no gap.

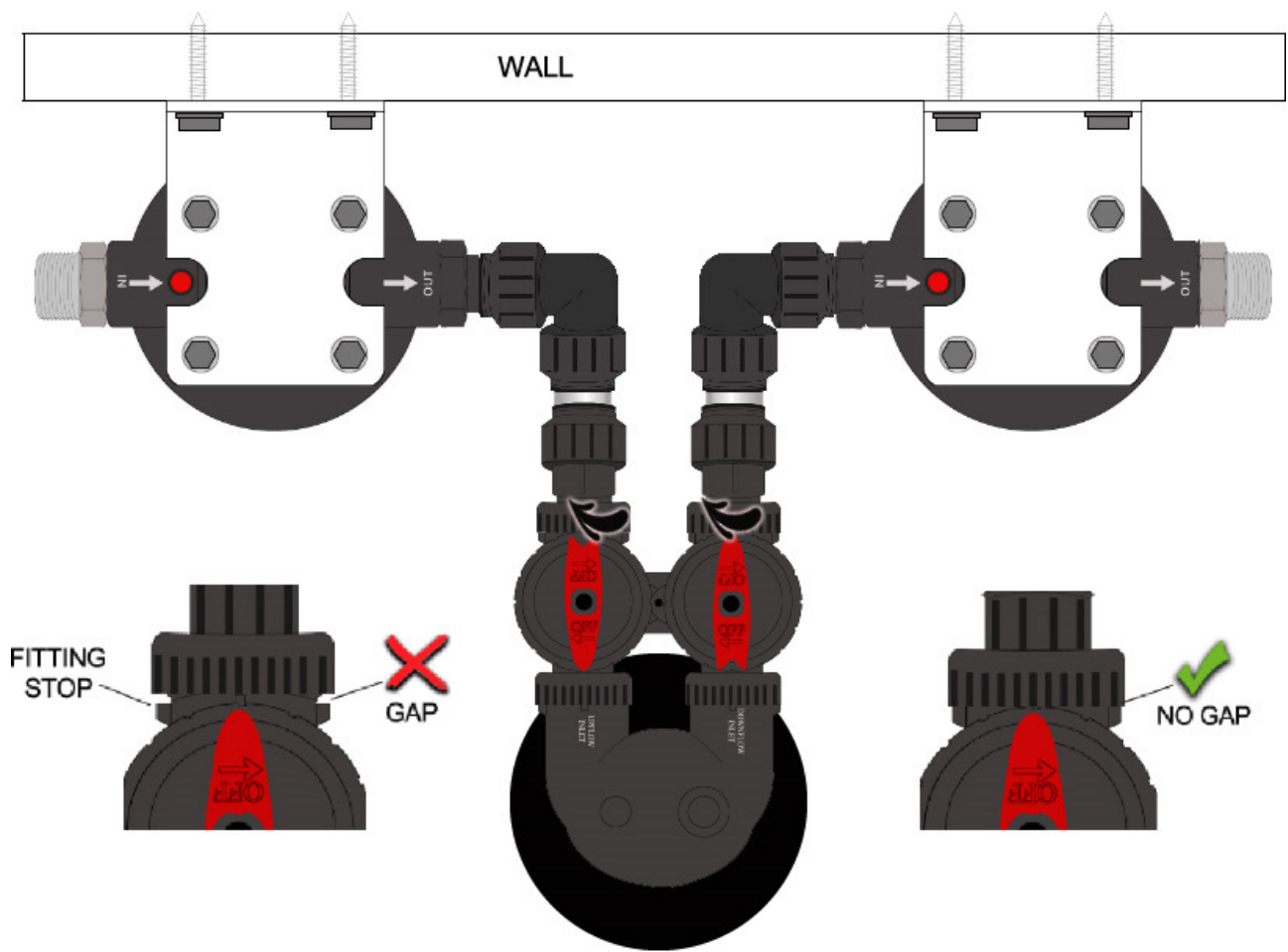


Step 9. – Connect the ecoPLUS™ Tank to the Inlet and Outlet Assemblies

Position the ecoPLUS™ media tank to align the bypass assembly with the inlet and outlet assemblies attached to the two cartridge filter housing caps.

Thread the inlet and outlet assemblies onto the bypass assemblies in the same manner as the previous step. Make sure that the fittings thread on all the way to the fitting stop so there is no gap between the fitting and the fitting stop.

There is a small amount of “play” in the bypass assembly to help address minor misalignments. This is normal and will prevent undue stress on the components. If you are having any problems aligning the parts, you can temporarily loosen the screws that secure the bracket to the wall and that secure the bracket to the housing cap. This will create some additional “play” in the alignment to assist you in securing the connections. Don’t forget to re-tighten the screws when you are done. Make sure that the tank sits perpendicular to the floor.



Step 10. – Connect ecoTAC™ System (If Applicable)

This step only applies to the following models. If this step does not apply to you, just skip to the next step.

Step 10 Applicable Models:
EP-600-TAC-G2
EP-600-ULT-G2
EP-1000-TAC-10-G2
EP-1000-ULT-10-G2
EP-1000-TAC-G2
EP-1000-ULT-G2

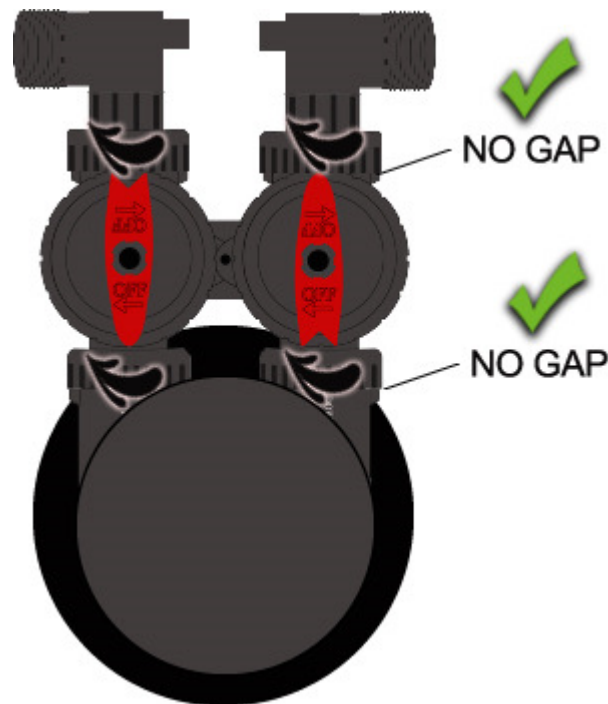
Confirm that the ecoTAC™ treatment tank is perpendicular to the floor. The black base of the media tank is not permanently attached to the rest of the tank. If your tank appears to be crooked, the base has likely been knocked out of alignment during shipping. This can be

corrected by picking the tank up and tapping it on a hard surface while holding it perpendicular to the floor. A few light taps will generally straighten it out.

The ecoTAC™ media tank is pre-assembled and loaded with media for you. Note: the tank has much less media in it and it is very light in comparison. This is normal. The salt-free hard water conditioning media requires a very large amount of freeboard.

Connect the bypass valve to the ecoTAC media tank in the same manner as you connected the bypass valve to the ecoPLUS™ media tank in step 8 above.

Connect the gray plastic elbow adapters from box #12 to the other side of the bypass valve as shown. Again, be sure to screw the collar of the fittings all the way up to the fitting stops so there are no gaps as shown.



Position the assembled ecoTAC™ to the right of the ecoPLUS™ system and use one of the SWC1-18 flexible stainless steel connector to connect the outlet side of the ecoPlus™ system to the inlet side of the ecoTAC system. The flexible connector can be bent as needed to make this easier. It is designed to be bent many times but not repeatedly over and over. Doing so may reduce the structural integrity of the fitting. The fitting on the inlet side of the ecoTAC™ can also be rotated if desired.

The black ends of the flexible stainless steel connector threads onto the stainless steel fitting on the outlet of the ecoPLUS™ post filter housing cap and the gray plastic fitting on the inlet side of the ecoTAC™ in the same way as you would attach a garden hose to an outdoor faucet. Do not use Teflon® tape or other thread sealants and do NOT over-tighten. Excessive force is not required to obtain a good seal.

Step 11. – Mount and Install UV Sterilizer

This step only applies to the following models. If this step does not apply to you, just skip to the next step.

Step 11 Applicable Models:
EP-600-UV-G2
EP-600-ULT-G2
EP-1000-UV-10-G2
EP-1000-ULT-10-G2
EP-1000-UV-G2
EP-1000-ULT-G2

You will connect the UV system to the rest of your new filter system using one of the SWC1-18 flexible stainless steel connectors. The flexible connector can be bent as needed to make this easier. It is designed to be bent many times but not repeatedly over and over. Doing so may reduce the structural integrity of the fitting.

The UV sterilizer should be mounted immediately to the right of your current installation with the bottom of the UV sterilizer a little below the height of the top of the current installation. Just be sure that your intended installation location for the UV chamber is within reach of your flexible stainless steel connector, and that you have enough room above the UV chamber to remove the UV lamp (about the same length as the chamber). We recommend that the UV sterilizer be mounted vertically although a horizontal installation is acceptable (see UV manual for details).

Follow the instructions/owner's manual that came with your UV sterilizer to mount it securely to the wall and otherwise prepare it for service.

Connect the UV sterilizer to the rest of your system using the SWC1-18 flexible stainless steel connector. The black ends of the flexible stainless steel connector thread onto the stainless steel fitting on the outlet of the ecoPLUS™ (or onto the gray plastic outlet fitting on the ecoTAC™ if you have one), and to the inlet side (bottom) of your UV sterilizer in the same way as you would attach a garden hose to an outdoor faucet. Do not use Teflon® tape or other thread sealants and do NOT over-tighten. Excessive force is not required to obtain a good seal.

Step 12. – Turn Off Water & Electric Water Heaters



FAILURE TO FOLLOW THIS PROCEDURE COULD RESULT IN SERIOUS, PERMANENT DAMAGE TO THE HEATING ELEMENTS IN YOUR WATER HEATER.

If you have a conventional electric water heater or an on-demand (tankless) electric water heater, we highly recommend that you turn off the power to the heater while starting up any new water treatment equipment. Turn off power to your water heater now.

Turn off the household main water shutoff valve. Open several plumbing fixtures inside the home as well as the outside faucets to drain as much water out of the plumbing system as possible.

Following completion of the entire installation, restore the water flow by turning on the household main water valve and allow all air to be purged from the plumbing system before turning the power back on to your water heater.

Step 13. – Connect System to Inlet and Outlet Pipes

The 1 inch NPT stainless steel fitting on the inlet side of the cartridge filter housing cap should be plumbed to your incoming water supply pipe.

If within reach, this can be done with one of the PTC1JG-1N-18 flexible stainless steel connectors provided with your system if you have 1 inch PEX, copper, or CPVC water lines. The non-threaded end of the connector can be connected directly to 1 inch diameter PEX, copper, or CPVC tubing by pushing the fitting on to the tubing as far as it will go. Unlike the other John Guest® fittings used previously in the installation, there is no locking collet. The

black end of the flexible stainless steel connector threads onto the stainless steel fitting on the inlet side of your pre-filter housing cap in the same way as you would attach a garden hose to an outdoor faucet. Do not use Teflon® tape or other thread sealants and do NOT over-tighten. Excessive force is not required to obtain a good seal. The flexible connector can be bent to reach your incoming water line. It is designed to be bent many times but not repeatedly over and over. Doing so may reduce the structural integrity of the fitting.

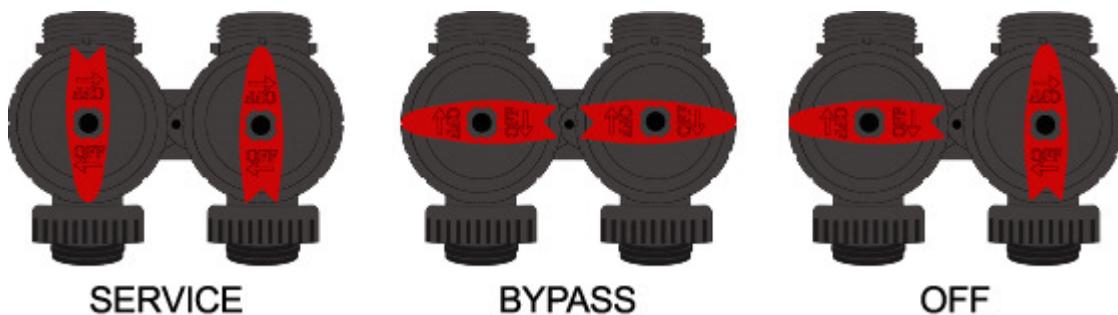
Alternatively, you can make the plumbing connection between your stainless steel fitting on the pre-filter cartridge filter housing cap and your incoming water line with suitable pipe tubing and fittings from your plumbing supply store.

The outlet side of your system can be similarly connected to your plumbing pipes either with another of the PTC1JG-1N-18 flexible stainless steel connectors included with your system, or it can be plumbed with your own pipe tubing and fittings if preferred or required.

If desired, you can plumb in shut-off valves before and after the system and/or a bypass loop that can provide untreated water to your home during servicing.

Step 14 – Initial Start-up and Leak Testing

Ensure that all bypass valves are in the “bypass” position.



Turn on the main water supply. Open a cold water tap nearby and let the water run for a few minutes until the system is free of foreign material and air that may have resulted from the installation. Once the water is running clear and free of air, close the water tap.



INSPECT ALL PLUMBING CONNECTIONS AND THE INTERFACE BETWEEN THE MEDIA TANKS AND THEIR VALVE HEADS, AND THE CARTRIDGE HOUSINGS FOR LEAKS AND REPAIR ANY LEAKS FOUND BEFORE PROCEEDING.

If you have an ecoTAC™ salt-free hard water conditioner as part of your system, open the bypass valve for the ecoTAC™ filter to the service position. **Leave the bypass for the ecoPLUS™ filter in the bypass position.** Slowly open a nearby faucet, allowing a slow flow of water. It may take several minutes for the flow of water to arrive as the media tank will be slowly filling with water. During this time, air will escape from the faucet. Run the water until the system is free of air then turn off the faucet **and turn the bypass valve for the ecoTAC™ unit back to the bypass position.**

Media Pre-Soak

Open the bypass valve on the ecoPLUS™ system to the “service” position. Slowly open a nearby faucet, allowing a slow flow of water. It may take several minutes for the flow of water to arrive as the media tank will be slowly filling with water. During this time, air will escape from the faucet. It is normal for the water to be discolored at this stage as carbon fines are purged from the system. Continue until all air is purged. Then, turn off the faucet and set the bypass valve on the ecoPLUS™ filter to the “bypass” position.

It is now safe to turn the electricity back on to your water heater.

Allow the media to soak for a minimum of twenty-four (24) hours.

Final Media Rinse

After the media has soaked for at least twenty-four (24) hours, set the bypass valve on the ecoPLUS™ system to the “service” position again and open a nearby faucet to allow a slow flow of water to run for 5 minutes. Thereafter, gradually increase the flow rate until a moderate flow of water is achieved and run at this level for at least another 10 minutes. It is normal for the water to be discolored at this stage as carbon fines are purged from the system. Gradually increase the flow rate a little more and run the water until it is completely clear. If you notice a significant decline in flow rate to the faucet at any point in the process, shut the water off and wait 10 minutes, then resume the process where you left off.

Step 15 – System Disinfection

This step only applies to the following models. If this step does not apply to you, just skip to the next step.

Step 15 Applicable Models:
EP-600-UV-G2
EP-600-ULT-G2
EP-1000-UV-10-G2
EP-1000-ULT-10-G2
EP-1000-UV-G2
EP-1000-ULT-G2

Ensure that the ecoPLUS™ and ecoTAC™ bypass valves (if applicable) are in the “bypass” position. Follow the instructions in the *Viqua Owner’s Manual Section 3.2 “Disinfection Procedure”* to disinfect the UV sterilizer and downstream plumbing.

Familiarize yourself with the UV control panel functions and maintenance requirements by reading *Viqua UV Owner’s Manual* thoroughly.

Step 16 – You’re Done!

Set the bypass valves on the ecoPlus™ and ecoTAC™ (if applicable) to the “service” position.

Congratulations!

Your system is now ready to provide treated water to your home!

We recommend that you limit the use of high flow rate applications for the first few days of operation to allow your carbon media to be fully conditioned and saturated. It is common and normal for some carbon dust to be released from the filter in the first few days of operation. This carbon is harmless and will generally go away within about a week.

WHAT TO EXPECT IN THE FIRST FEW WEEKS W/ ecoTAC™

If you have an ecoTAC™ salt-free hard water conditioner as part of your system, during the first 1-6 weeks after the installation of the ecoTAC™ conditioner, a de-scaling effect whereby

existing hard water scale previously built-up in the plumbing system is released, will often occur. Over time, this will enhance performance of water heating equipment and restore flow performance of plumbing fixtures. However, it may be necessary to clean out your faucet aerators and showerhead periodically during this period to remove pieces of scale that have dislodged from your pipes. This effect will stop once the pipes have been de-scaled.

After installation of EcoTAC™, low or phosphate-free cleaning products (for clothes and dishwashing) are recommended to achieve optimum results. Modern surfactant or detergent based, liquid soaps are preferred over old-fashioned caustic solid soaps.

Water heaters

Existing mineral accumulations in your water heater may also de-scale after the installation of ecoTAC™. We recommend that you clean out this material by opening the bottom drain valve on the hot water heater 30 to 60 days after installation of ecoTAC™. Be sure to turn off the electricity to your water heater before draining your tank. Follow the manufacturer's instructions for draining and flushing the tank. The good news is that a clean water heater uses much less electricity or gas to keep the water hot!

Using your dishwasher after installing ecoTAC™

To accelerate de-scaling in your dishwasher, you may wish to put a cup of white vinegar in the upper basket during the washing cycle for the first few weeks. You can also use citric acid or a commercial product like CLR or Lime Away instead of the white vinegar. This will help dissolve the existing scale in the washer arms and inside surface of the dishwasher. You may need to do this until all of the scale in the plumbing is dissolved. If you are using harsh dishwashing detergents that have low ph, high chlorine, and phosphates, some of the nano-crystals formed by the ecoTAC™ system may break down and cause spotting on the dishes. We recommend that you reduce your soap usage as much as 50%, and that you use eco-friendly phosphate-free dishwashing detergents. Using an anti-spotting agent such as Jet-Dry® may also be useful.

A word about glass shower doors...

Over a few weeks you may see the existing scale slowly dissolve in your shower heads thereby increasing water flow. You may need to clean the inlet screen of your shower head during the first few weeks as mentioned above to remove some of the scale that is being

removed from your pipes. We recommend that you first clean the shower from existing scale with a cleaning product that dissolves old scale that has built up before installation of the ecoTAC™ conditioner system. CLR or Lime Away are good cleaner choices for this purpose. We then recommend that you coat the walls in the shower, and your glass shower doors with Rain-X® (www.rainx.com), a commercial product used for automobile windshields. The Rain-X® allows the majority of the nano particles to be easily washed to drain. The few nano particles that are left can be easily wiped down because they can no longer adhere to the sides of the shower.

TROUBLESHOOTING

Problem	Solution
Reduced water pressure and/or flow rate after initial installation.	Limit high flow rate demands during the first few days of operation to allow time for the media bed to condition and saturate with water. If significant pressure loss is experienced, turn off water, wait 10 minutes and try again. Ensure flow rate demands do not exceed capacity specifications.
Reduced water pressure and/or flow rate at other times.	The sediment pre or post filter cartridges may need to be replaced. In most cases, they should be replaced every 9 to 12 months. Ensure flow rate demands do not exceed capacity specifications.
Treated water is discolored.	During the initial start-up and for roughly the first week after installation, you may notice small black specs or a grey/black discoloration caused by carbon fines (dust). This is normal and will go away on its own. The carbon dust is not harmful. Air trapped in your water lines after installation can sometimes cause the water to appear milky. If you fill a glass of water and it appears milky at first, but clears relatively quickly, this is likely due to micro air bubbles. This situation is harmless and will go away as the air is completely purged out of your system.

Faucet Aerators are Plugging with Calcium Deposits

See "What to Expect in the First Few Weeks with ecoTAC™" above.

Troubleshooting information related to the UV sterilizer can be found in the *Viqua UV Owner's Manual Section 6*.

MAINTENANCE



THE SYSTEM MUST BE DEPRESSURIZED BEFORE REMOVING ANY COMPONENTS FOR SERVICING. TO DEPRESSURIZE THE SYSTEM, CLOSE YOUR MAIN WATER SHUT-OFF VALVE AND RUN WATER AT SEVERAL FAUCETS.

Cleaning

The outside of your system, including cartridge filter housing and media tank, can be washed with a mild soap and water if desired. Do NOT use strong cleaners as they may cause damage to the system components.

Sediment Pre and Post Filters

The sediment pre-filter and post-filter cartridges should be replaced every 9 to 12 months or as necessary to provide satisfactory water pressure to your home. The life of the pre-filter in particular will depend on the amount of sediment in your feed water supply. If you notice reduced water pressure, it is likely that your pre-filter needs to be replaced.

The replacement pre-filter cartridge for your system is: Hydronix SDC-45-2005
The replacement post-filter cartridge for your system is: Hydronix SDC-45-2001

These are unique multi-gradient cartridges with high dirt-holding capacity and improved water pressure performance. We strongly recommend the use of only genuine replacement filters in your system. While other filters may fit, they could compromise the performance of your system.

Filter Cartridge Replacement Procedure:

1. Turn off the water supply to the system using your main household water shut-off. Briefly open a faucet in the home to relieve pressure. Turn the bypass valve(s) on your media tank(s) to the "off" position as shown. Depress the red pressure release button on the top of the filter housing cap to allow any remaining pressure inside the housing to escape.
2. Unscrew the sump (bottom of the housing) from the cap using the spanner wrench (included with original purchase of your system).
3. Locate and remove the large O-ring at the top of the sump. Try not to remove any of the lubricant from the O-ring. The housing O-ring should be replaced at least once annually or at each filter change if any damage to the O-ring is noted (kinked, cracked, stretched, etc.), or if any leakage between the housing cap and the housing sump cannot be stopped. Put the O-ring in a safe place where it will not get dirty or otherwise contaminated. **Replacement O-Ring: Pentek Buna-N Big Blue O-Ring #151122**
4. Take out the used filter cartridge and discard it.
5. Scrub the inside of the sump and underside of the housing cap with dish soap and warm water using a sponge or soft cloth. Fill the sump 1/3 with water and add about 2 tablespoons of unscented household bleach. Scrub to disinfect (we recommend that you use rubber gloves). **Rinse all parts thoroughly!**
6. Lubricate the O-ring with food-grade silicon lubricant if needed. Insert O-ring in the groove at the top of the sump and press into place. **Make sure the O-ring is seated level in the groove!**
7. Remove the protective plastic wrapping from the new filter cartridge and insert the cartridge into the housing sump, making sure that it slips over the standpipe in the bottom of the housing.
8. Screw the sump onto the housing cap and hand tighten. **You can use the spanner wrench for convenient grip, but do not use it for leverage. Do not over-tighten.**
9. Turn the bypass valve(s) on the media tank(s) back to the service position. Turn on the water supply slowly to allow the system to fill with water. **Inspect carefully for leaks.** If a leak is found, first inspect the O-ring to ensure that it is seated properly before tightening the sump more.
10. Flush the system by running water from a nearby faucet for 5 minutes.

Media Replacement

The media in your ecoPLUS™ system and ecoTAC filter are designed for a life of 5 years or 600,000 gallons for EP-600 Series models and 1,000,000 gallons for EP-1000 Series models, whichever comes first.

The replacement media kit for your ecoPLUS™ filter is:

For EP-600 Series Models: EP-600-R

For EP-1000 Series Models: EP-1000-R

The replacement media for your ecoTAC™ filter is: ScaleStop

The ScaleStop volume depends on your model as follows:

Model	ScaleStop Volume
EP-600-TAC-G2	3.5 Liters
EP-600-ULT-G2	
EP-1000-TAC-10-G2	
EP-1000-ULT-10-G2	
EP-1000-TAC-G2	5 Liters
EP-1000-ULT-G2	

Detailed media replacement instructions are provided with the replacement media kits.

UV Sterilizer (If Applicable)

To ensure optimal disinfection, your UV sterilizer requires lamp replacement every 12 months, and sleeve cleaning as necessary to ensure the sleeve remains clean. If you have hard water and are not using a water softener or our ecoTAC™ hard water conditioner, this may need to be done every few months. If you have soft water or you have treatment for your hard water problem, sleeve cleaning is generally only required once per year when your lamp is replaced. Over a period of time, the sleeve may become etched or damaged. If cleaning is no longer effective in restoring clarity to the sleeve, it should be replaced. Complete UV maintenance instructions can be found in the *Viqua UVMax Owner's Manual Section 5*. This includes instructions to replace the lamp and to clean the sleeve.

The replacement parts for your UV system are:

Model	UV Lamp	UV Sleeve	Combo Pack
EP-600-UV-G2	S200RL-HO	QS-001	QL-200

EP-600-ULT-G2	S200RL-HO	QS-001	QL-200
EP-1000-UV-10-G2			
EP-1000-ULT-10-G2			
EP-1000-UV-G2	S410RL-HO	QSO-410	QL-410
EP-1000-ULT-G2			



PLEASE NOTE THAT IT IS CRITICAL THAT ONLY GENUINE VIQUA REPLACEMENT PARTS BE USED IN YOUR UV STERILIZER. THE USE OF ALTERNATE PARTS MAY COMPROMISE THE DISINFECTION OF YOUR WATER RESULTING IN UNSAFE CONDITIONS, OR COULD CAUSE DAMAGE TO THE UV CONTROLLER. SUCH DAMAGE IS NOT COVERED UNDER THE MANUFACTURER'S WARRANTY.

VALIDATIONS

Only the best components are used in our ecoPLUS™ water treatment systems. They are sourced from some of the leading manufacturers in the business, and assembled/prepared at our factory in Canada. You can be assured that only the finest materials have gone into the manufacture of all ecoPLUS™ systems and that the materials used are safe for potable water contact. The following is a list of key system components:

Component	Manufacturer	Material Safety Validations
Valve & Bypass Assembly	Clack Corporation Windsor, WI, USA Made in USA	NSF/ANSI Standard 44 NSF/ANSI Standard 372
Media Tank	Pentair PLC Milwaukee, WI, USA Made in USA	NSF/ANSI Standard 42
Calgon and Centaur Catalytic Activated Carbons	Calgon Carbon Corporation Moon Township, PA, USA Made in USA and India	NSF/ANSI Standard 61
KDF-55 Process Media	KDF Fluid Treatment, Inc. Three Rivers, MI, USA Made in USA	NSF/ANSI Standard 42
Salt-Free Conditioning Media	Next Filtration Technologies Inc. Lake Worth, FL, USA Made in USA	NSF/ANSI Standard 61

Cartridge Filter Housing	Pentair PLC Milwaukee, WI, USA Made in China	NSF/ANSI Standard 42
Cartridge Filter	Hydronix Water Technology Ontario, CA, USA Made in Taiwan	NSF/ANSI Standard 42
Quick Connect Fittings	The John Guest Group of Companies Middlesex, England Made in England	NSF/ANSI Standard 14 NSF/ANSI Standard 61 (G)
Flexible Stainless Steel Connectors	Falcon Stainless Inc. Temecula, CA, USA Made in China	NSF/ANSI 61 Section 9 ASME A112.18.6 CSA B125.6
UV Sterilizer	VIQUA (Trojan Technologies) Guelph, ON Canada Made in Canada	Stainless Steel UL USA/CAN

SATISFACTION GUARANTEE

ecoPLUS™ premium water treatment systems are backed by a 90 day satisfaction guarantee. If you are not completely satisfied with your ecoPLUS™ system, contact us within 90 days for assistance. In most cases, we can quickly help you resolve problems to your satisfaction. If not, you may return your system for a full refund less the actual original shipping cost to ship the product to you, or a full credit towards an alternative product. Of course, all ecoPLUS™ systems are also backed by our comprehensive warranty program (see below).



WARRANTY INFORMATION

ecoPLUS™ premium water treatment systems are backed by a comprehensive warranty program including Limited Lifetime Warranty on major components.



Major components, including the cartridge filter housing, media tank(s), riser tube(s), upper media screen(s), and tank valve(s) also known as an in/out valve, are warranted by HomePlus Products Inc. to be free of defects in material and workmanship for the life of the system, subject the limitations noted below.

Subject the limitations noted below, all other components are warranted by HomePlus Products Inc. to be free of defects in material and workmanship for the following periods:

UV Sterilizer Chamber: 10 Years

UV Sterilizer Controller: 3 Years

All Other Components: 1 year

ecoPLUS™ EP-600 Series Media: 600,000 gallons or 5 Years whichever comes first, Pro-rated*

ecoTAC™ EP-1000 Series Media: 1,000,000 gallons or 5 Years whichever comes first, Pro-rated*

*Note: ecoPLUS™ systems are designed to treat water supplied by a public water utility. The ecoPLUS™ and ecoTAC™ media warranties are void if supplied by untreated well or surface water, or if feed water falls outside of the specified operating conditions.

The term of these warranties begins on the date of delivery of the product to the customer and continues until the earlier of:

- the end of the warranty term noted above; or
- the date in which the product(s) is/are removed from the original location of installation; or
- the date in which the original purchaser sells or otherwise transfers ownership of the home in which the product(s) was/were originally installed.

Only products purchased from an Authorized Dealer or HomePlus Products Inc. directly are eligible for this warranty. The products must have been installed and operated in accordance with the instructions and operating conditions stated in the Owner's Manual.

Customer must register his or her warranty with HomePlus products Inc. within 90 days of original purchase for the warranty to remain valid.

This warranty applies only in Canada and the United States of America.

In the event that a part is deemed defective, the user must immediately inform HomePlus Products Inc. who will furnish a replacement part at no cost to the user. HomePlus' obligation to the customer shall be limited to the replacement of the defective part by prepaid standard freight to the original point of installation. Expedited shipping is available at the discretion and cost of the customer. When required, the return of defective parts to HomePlus is the responsibility of the customer.

This warranty does not cover any labour costs including labour costs related to troubleshooting, repair, installation, or maintenance.

This warranty does not apply to the following situations: misuse; normal wear and tear; neglect; unauthorized repair or damage caused through installation, adaptation, or modification; use in an improper manner or manner inconsistent with the manufacturer's installation, operating, and maintenance instructions; misapplication; wear or deterioration due to environmental conditions; damage occurring during transit; mishandling; improper storage; incorrect supply of water; tampering or alteration; fire, freezing; Act of god; or any cause beyond the control of HomePlus Products Inc.

The original warranty period does not change in the event of part replacement by HomePlus Products Inc.

This warranty is issued exclusively to the original consumer purchaser of record so long as the product remains installed in the original location of installation, and is not transferable.

The provisions of the foregoing warranties are in lieu of any other warranty, whether expressed or implied, written or oral (including any warranty of merchantability or fitness for a particular purpose). HomePlus Product Inc.'s liability arising out of the manufacture, sale, or supplying of the products or their use or disposition, whether based upon warranty, contract, tort, or otherwise, shall not exceed the actual purchase price paid by the authorized distributor or consumer for the product. In no event shall HomePlus Products Inc. be liable to the distributor or any other person or entity for special, incidental, consequential or punitive damages (including, but not limited to, property loss, loss of incomes, or loss of use damages) arising out of the manufacture, sale, or supplying of the products, even if HomePlus Products Inc. has been advised of the possibility of such damages or losses. These warranties are governed by the laws of the Province of British Columbia, Canada, and may change without notice.

To report a warranty problem with your system or request warranty service, please call HomePlus Products Inc. toll free: 1-866-376-2690

MANUFACTURED BY:



HomePlus Products Inc.

5-1490 Pearson Place
Kamloops, BC V1S 1J9 Canada

Phone: 250-374-2690

Fax: 250-374-2692

www.homeplusproducts.com

FIGURE 1
TYPICAL INSTALLATION LAYOUT EP-600-G2

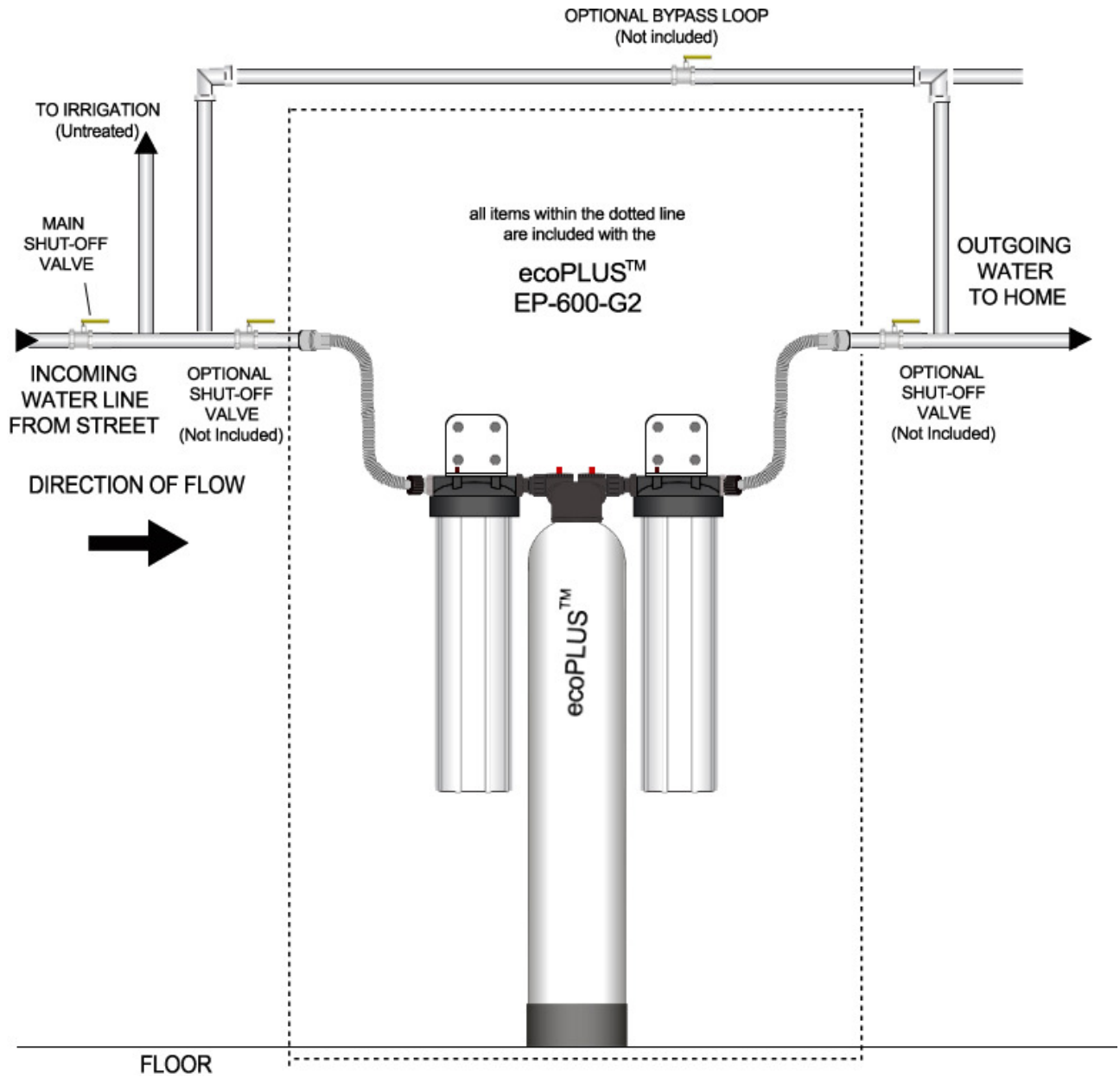


FIGURE 2
TYPICAL INSTALLATION LAYOUT EP-600-TAC-G2

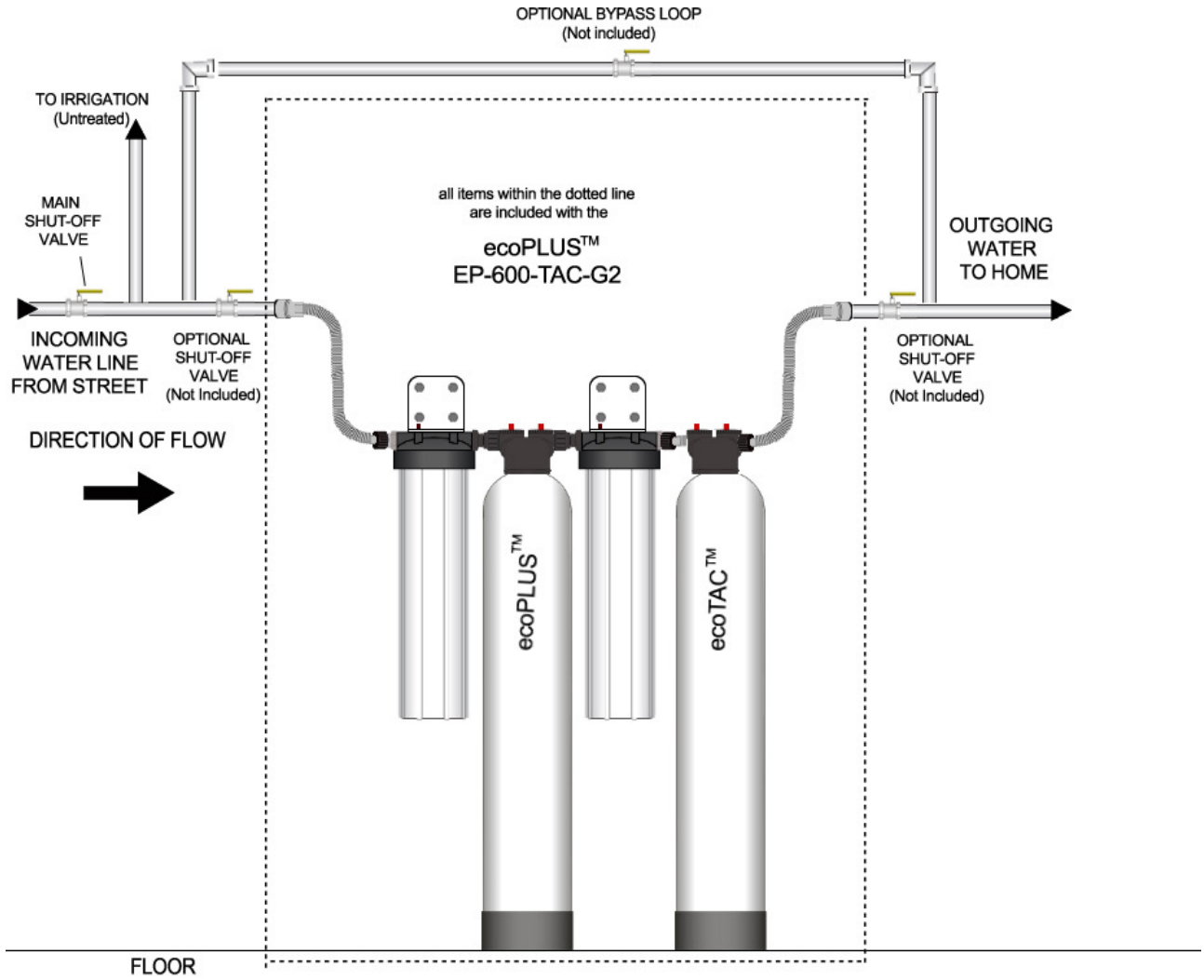


FIGURE 3
TYPICAL INSTALLATION LAYOUT EP-600-UV-G2

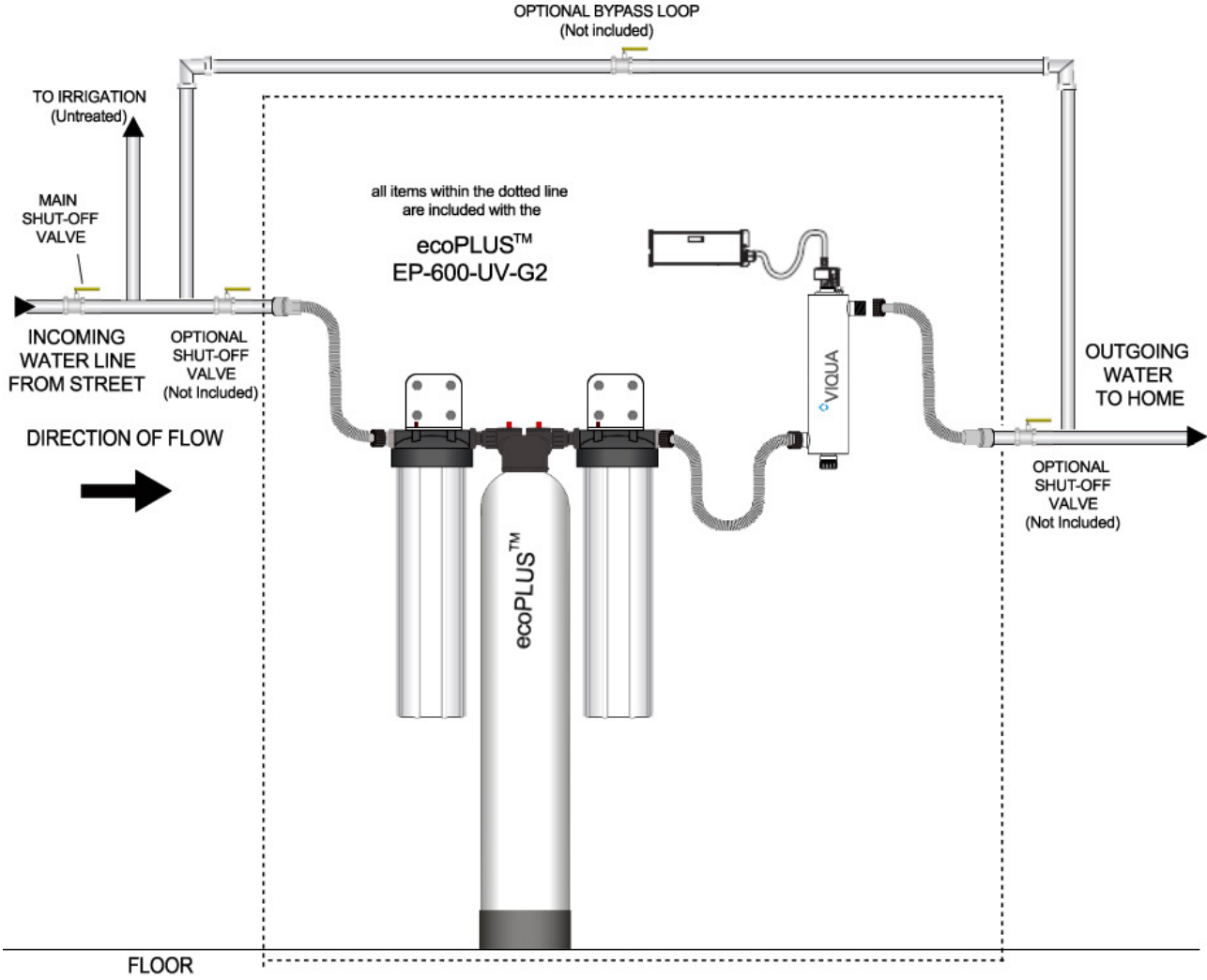


FIGURE 4

TYPICAL INSTALLATION LAYOUT EP-600-ULT-G2

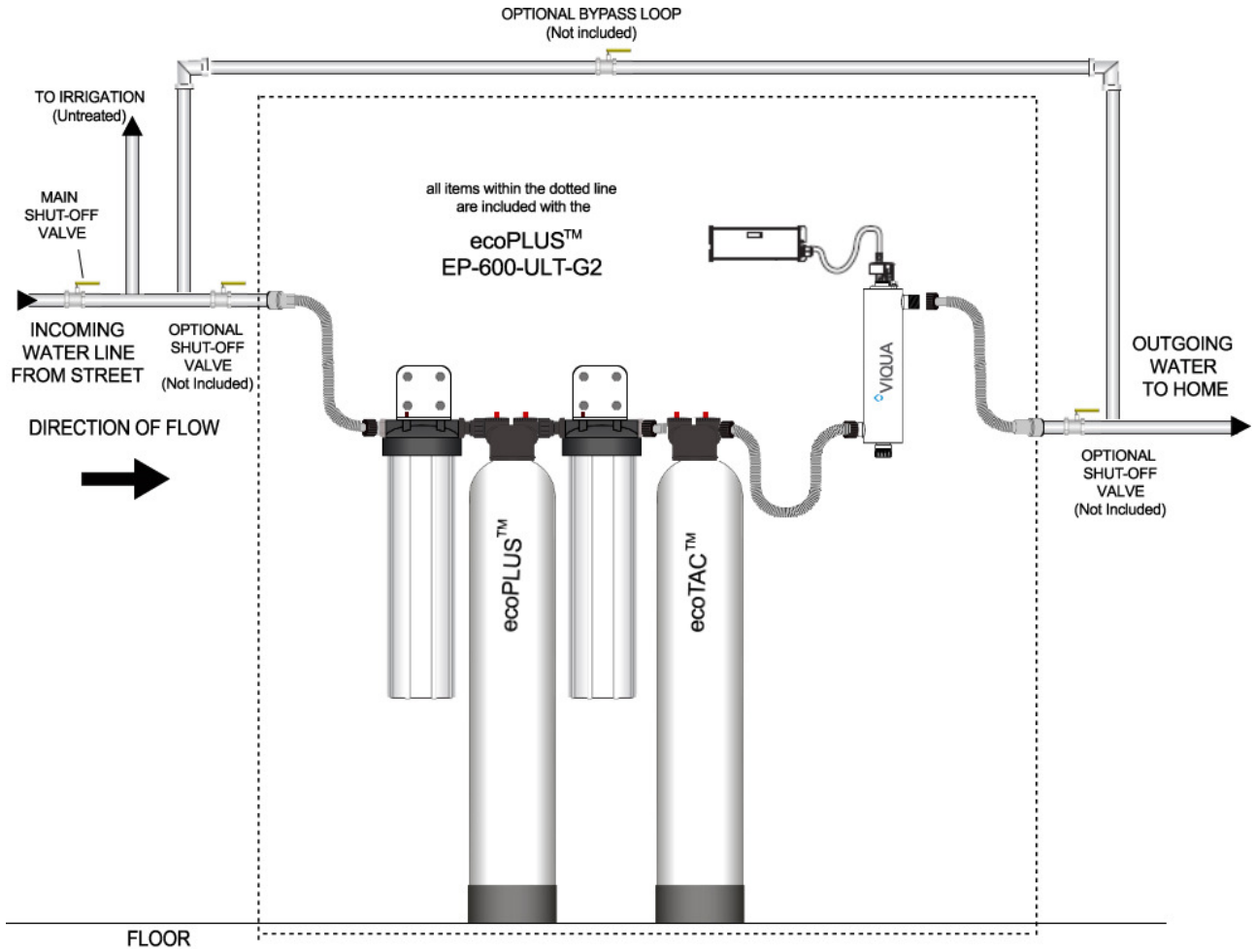


FIGURE 5
TYPICAL INSTALLATION LAYOUT EP-1000-TAC-10-G2

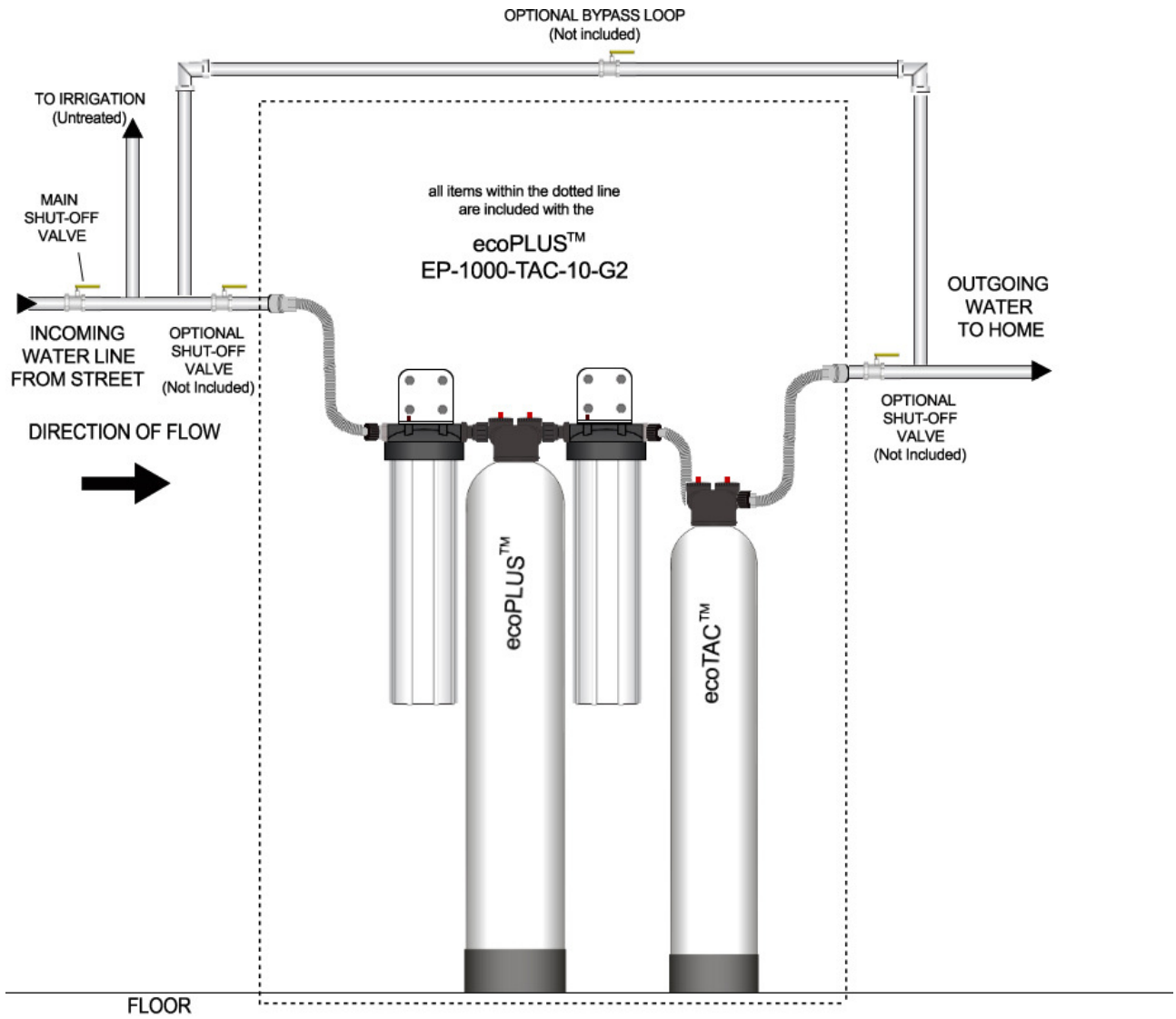


FIGURE 6

TYPICAL INSTALLATION LAYOUT EP-1000-UV-10-G2

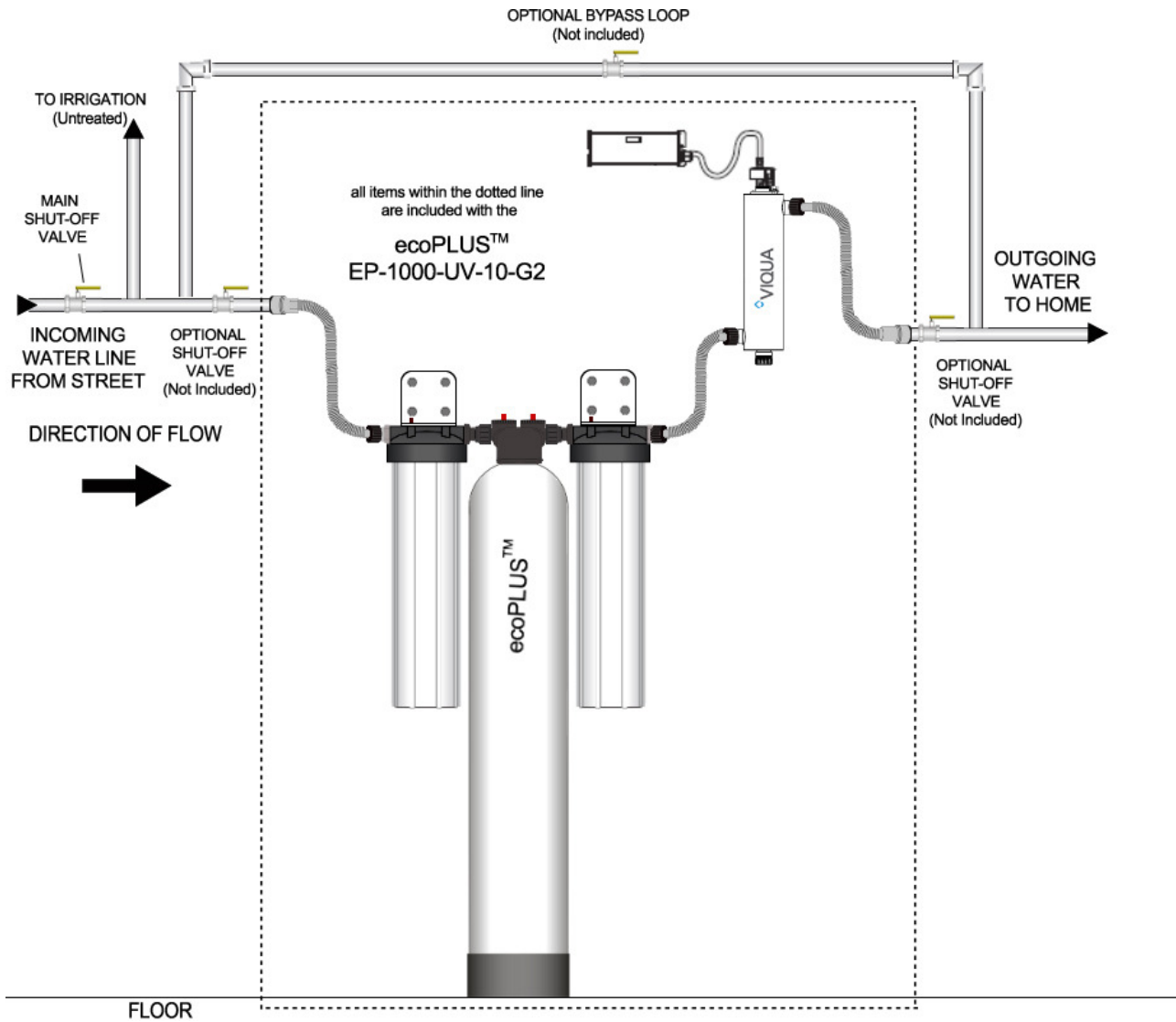


FIGURE 7

TYPICAL INSTALLATION LAYOUT EP-1000-ULT-10-G2

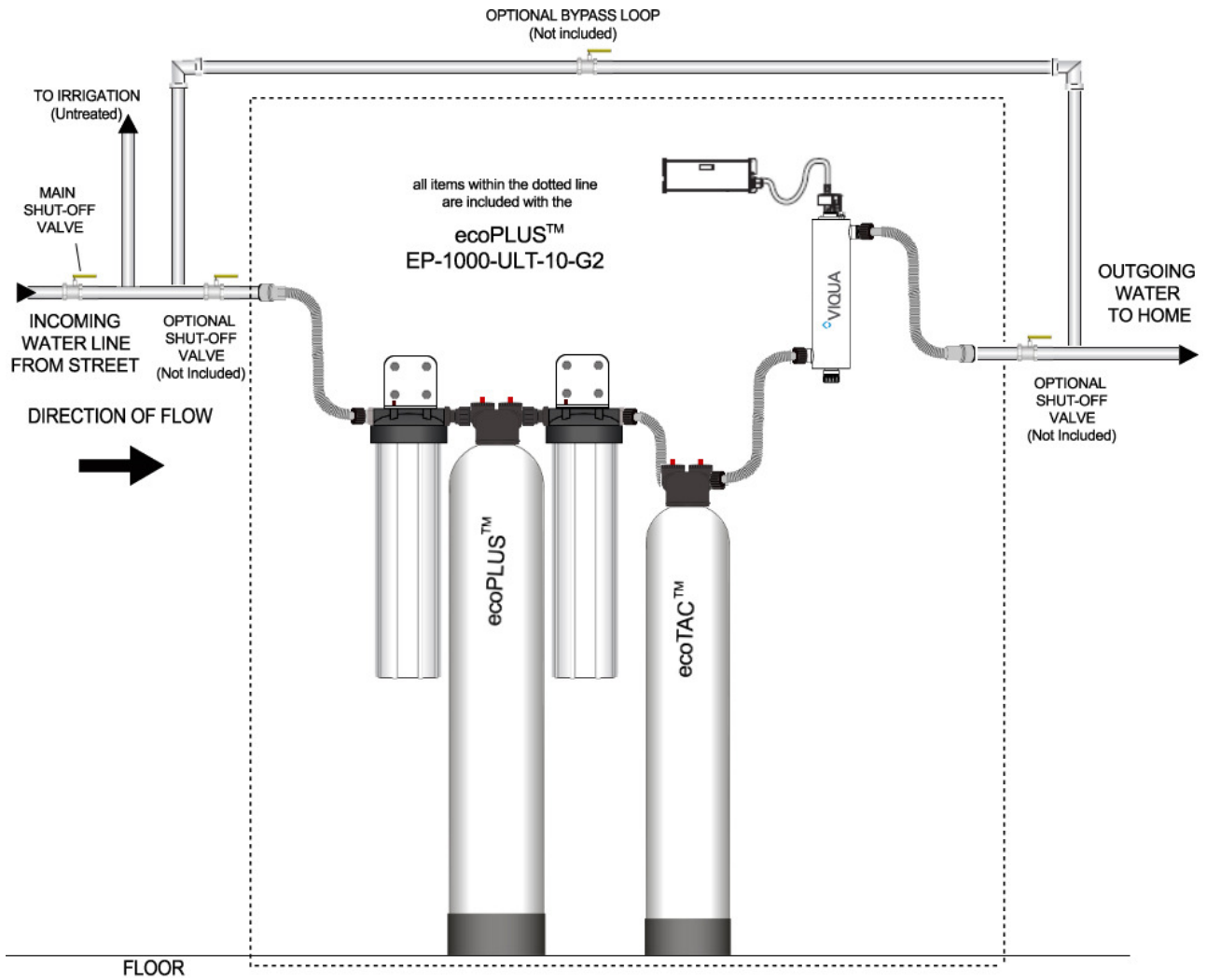


FIGURE 8
TYPICAL INSTALLATION LAYOUT EP-1000-G2

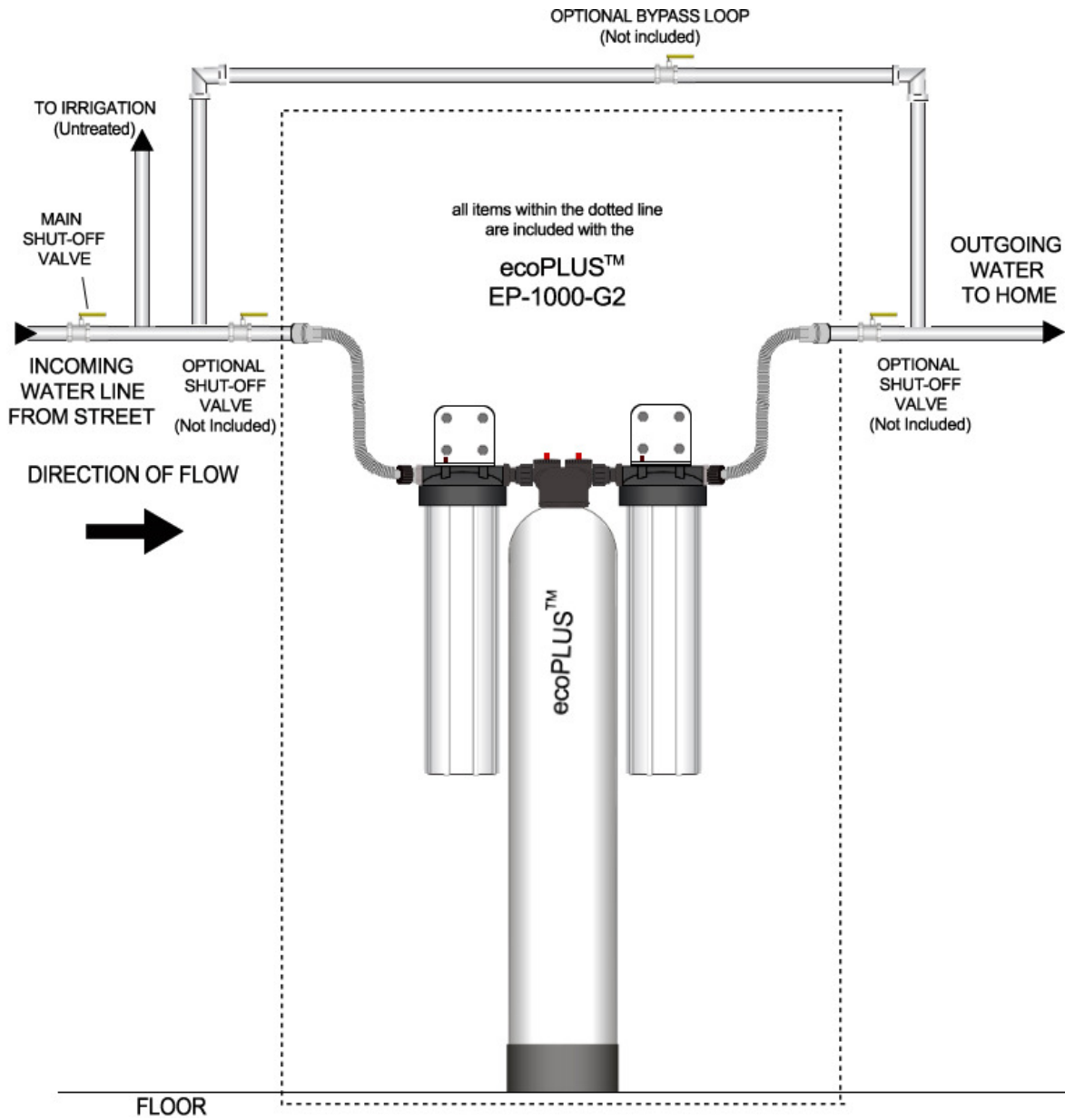


FIGURE 9
TYPICAL INSTALLATION LAYOUT EP-1000-TAC-G2

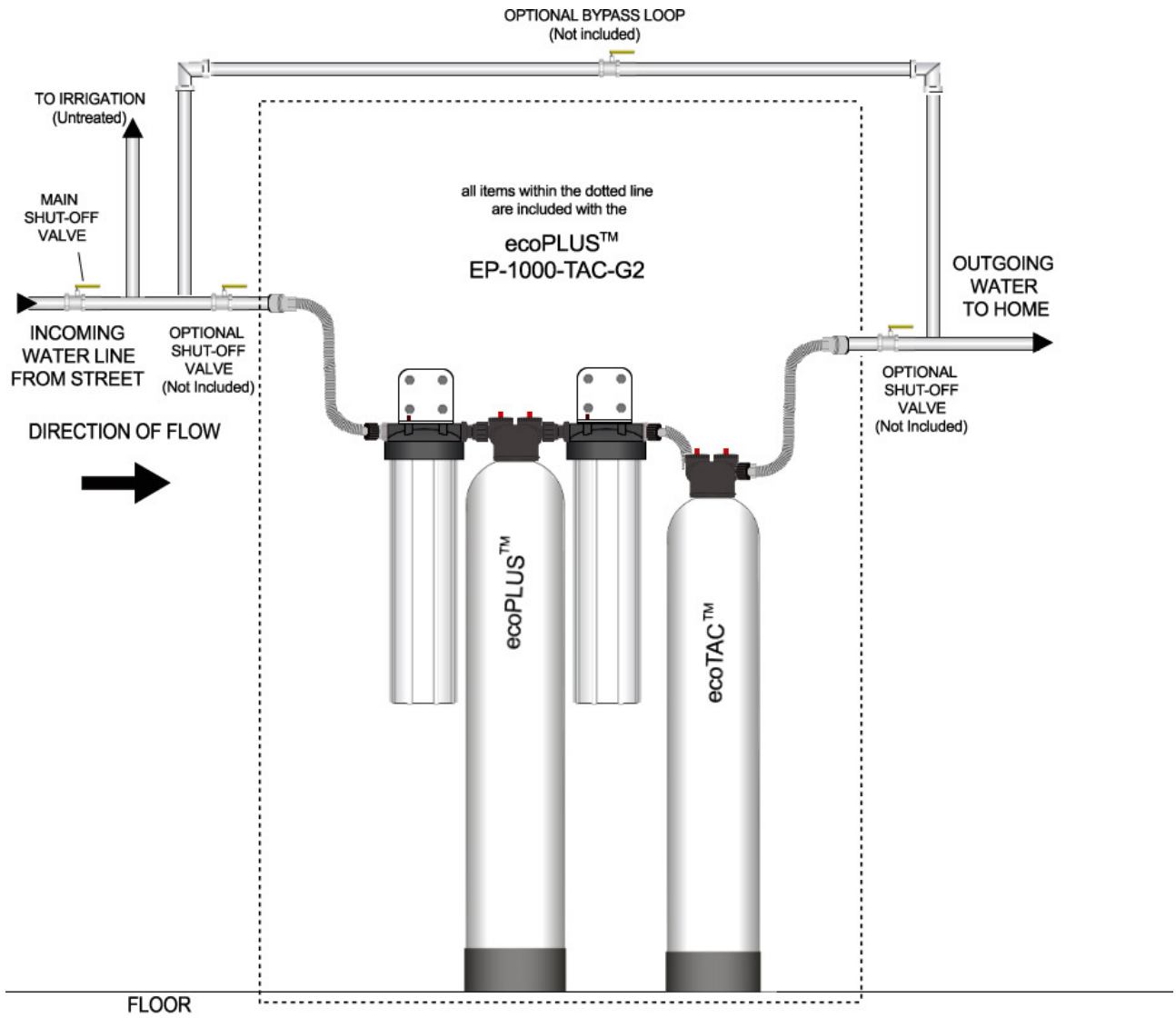


FIGURE 10
TYPICAL INSTALLATION LAYOUT EP-1000-UV-G2

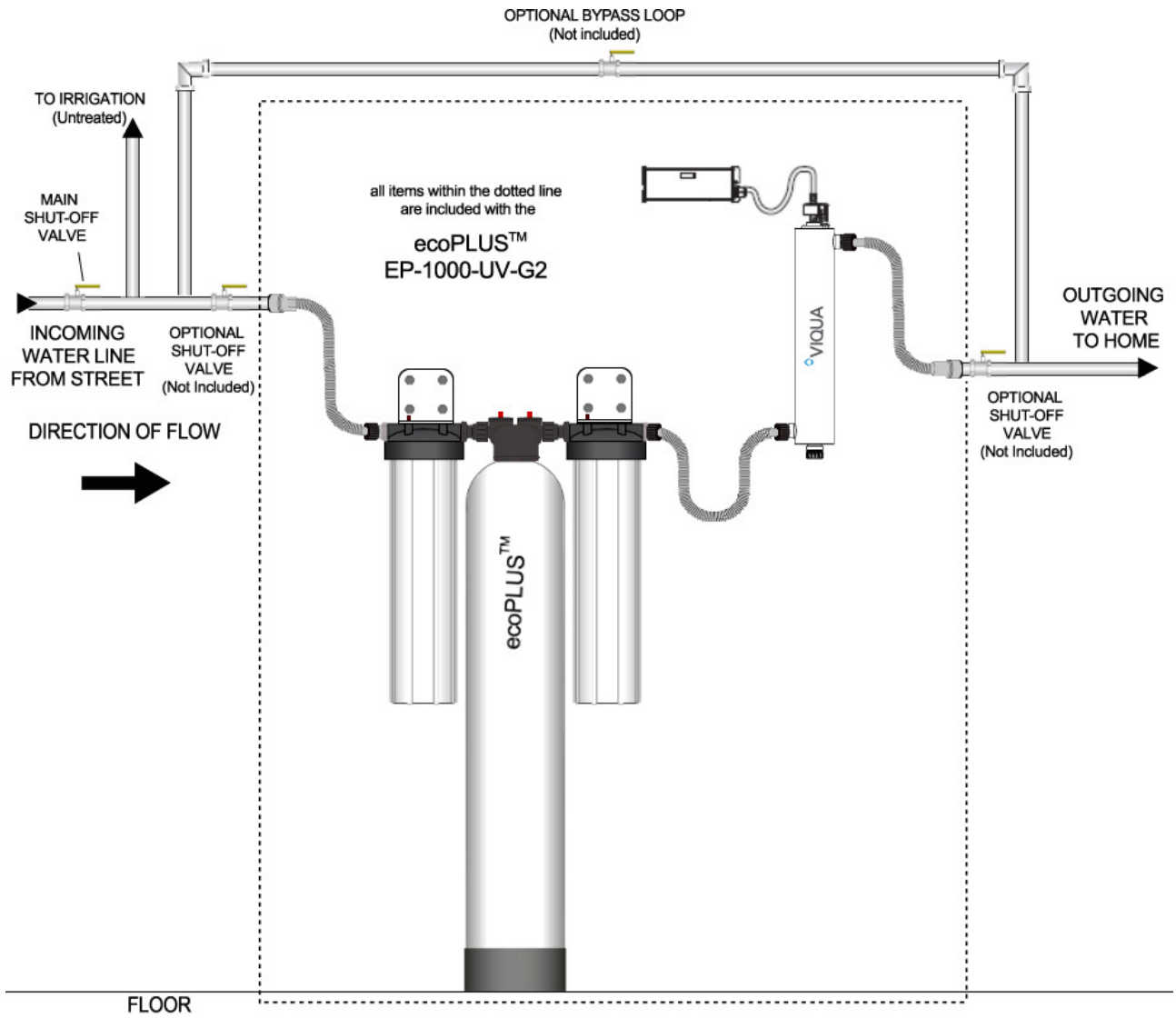


FIGURE 11
TYPICAL INSTALLATION LAYOUT EP-1000-ULT-G2

