



# 2 Stage Whole House System Installation Manual



Customer Support **1-800-992-8876**



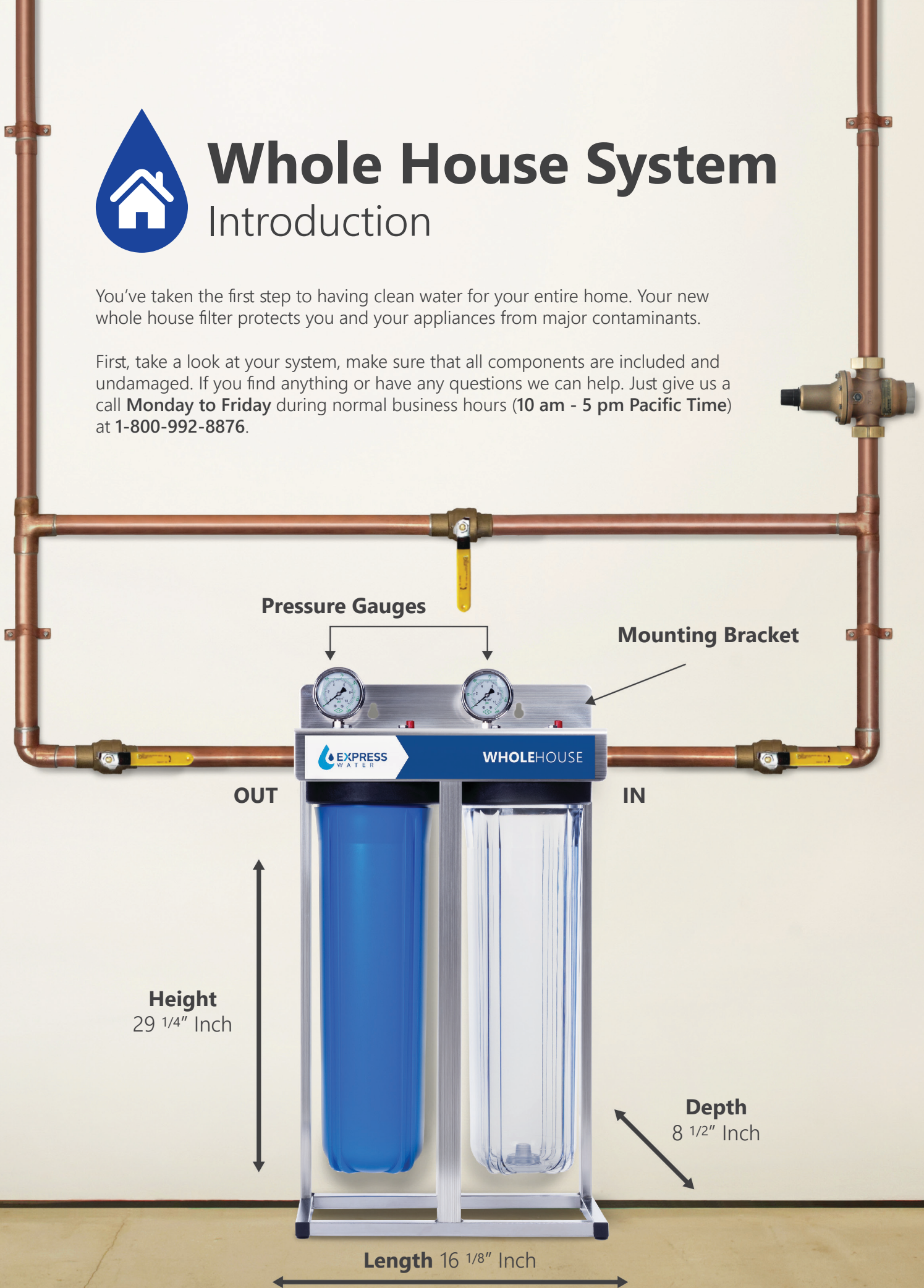


# Whole House System

## Introduction

You've taken the first step to having clean water for your entire home. Your new whole house filter protects you and your appliances from major contaminants.

First, take a look at your system, make sure that all components are included and undamaged. If you find anything or have any questions we can help. Just give us a call **Monday to Friday** during normal business hours (**10 am - 5 pm Pacific Time**) at **1-800-992-8876**.



# Conditions

## System Usage Conditions:

Feed Water Pressure: 20-80 PSI  
Feed Water Temperature: 40-100 °F

We recommend using a professional licensed plumber for the Whole House Filtration System Installation. If your feed water is prone to spikes in pressure or is over 80 PSI you will need a pressure protection or reducer valve installed before the feed water flows to the system. Always use appropriate safety measures and methods for the installation.

Your installation must comply with all of your state and local codes. The installation area needs to be level and dry. The system must be installed in a sheltered environment with no exposure to extreme hot or cold weather, out of direct sunlight. Never expose the system to freezing temperatures. The system cannot be installed upside down.

Express Water assumes no liability for the determination of the proper equipment necessary for your home. This system does not remove biological contaminants. We recommended a UV light if your water is biologically unsound.






Visit our website: [www.ExpressWater.com](http://www.ExpressWater.com) or call us at **1-800-992-8876** to explore UV filtration options.

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# Visit [ExpressWater.com](http://ExpressWater.com) for filter replacements

## Replacements Table

	 <b>Sediment</b>	 <b>Granular Activated Carbon</b>	 <b>Activated Carbon Block</b>	 <b>Sodium Polyphosphate</b>	 <b>Kinetic Degradation Fluxion</b>
<b>SKU</b>	FLTWH2045S1	FLTWH2045G	FLTWH2045C1	FLTWH2045P	FLTWH2045K
<b>Size</b>	4.5" x 20"	4.5" x 20"	4.5" x 20"	4.5" x 20"	4.5" x 20"
<b>Filtration</b>	5 Micron	5 Micron	5 Micron	Anti-Scale	Heavy Metals
<b>PSI</b>	45-80 PSI	45-80 PSI	45-80 PSI	45-80 PSI	45-80 PSI
<b>Temperature</b>	40°F-100°F	40°F-100°F	40°F-100°F	40°F-100°F	40°F-100°F
<b>Material</b>	Layered Pure Polypropylene	Polypropylene Shell and Coconut Carbon	Polypropylene Shell and Coconut Carbon	Slow Dissolve Sodium Polyphosphate	Catalytic Carbon and High Purity Copper and Zinc
<b>Life Cycle</b>	6-12 Months Or 100,000 Gallons	6-12 Months Or 100,000 Gallons	6-12 Months Or 100,000 Gallons	6-12 Months Or 100,000 Gallons	6-12 Months Or 100,000 Gallons



# Installation Diagram

Every setup will be different depending on the plumbing setup of your home. You may use different pipes or fittings.

Incoming Water ↓

## Pressure Reduction

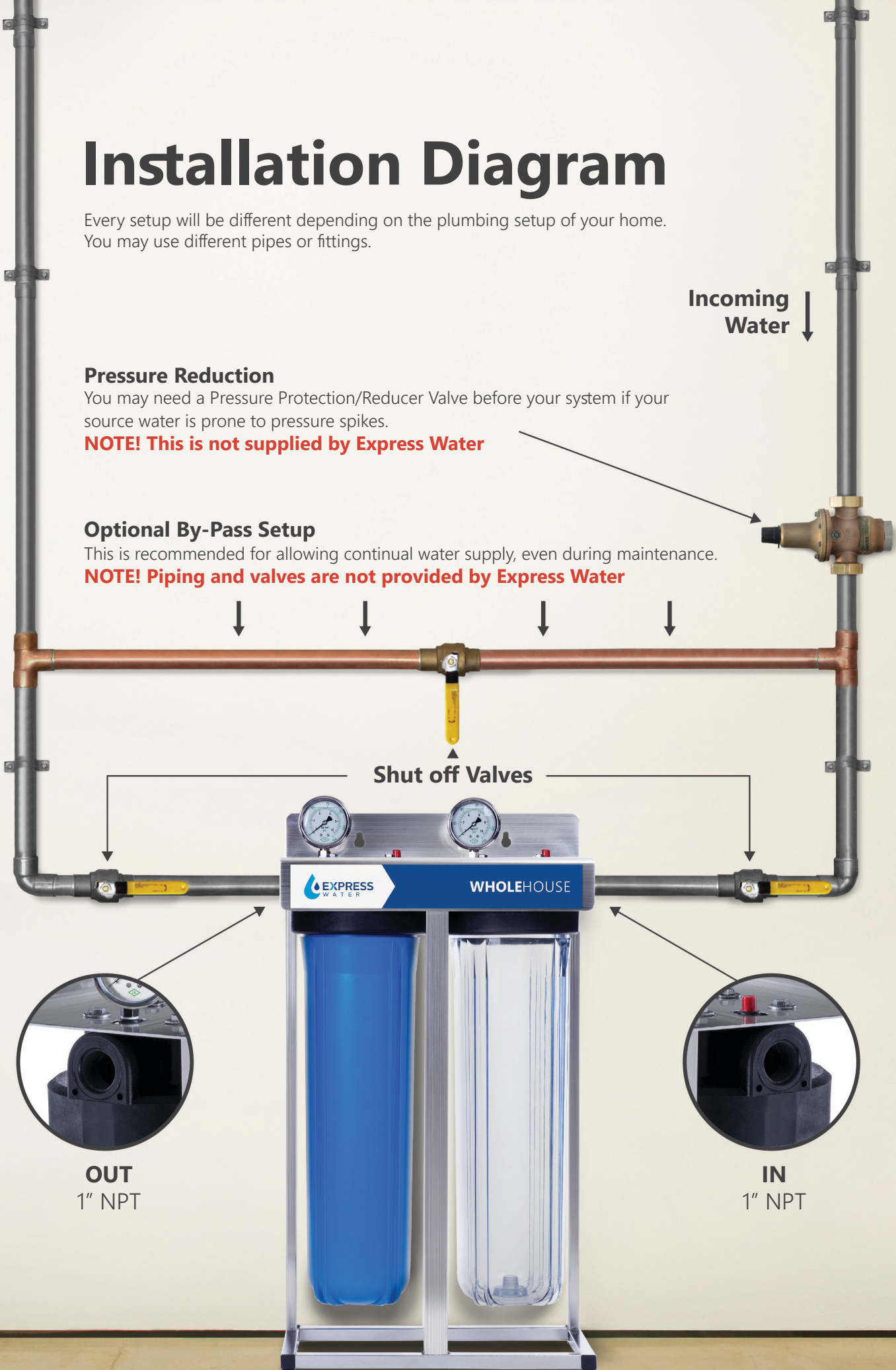
You may need a Pressure Protection/Reducer Valve before your system if your source water is prone to pressure spikes.

**NOTE! This is not supplied by Express Water**

## Optional By-Pass Setup

This is recommended for allowing continual water supply, even during maintenance.

**NOTE! Piping and valves are not provided by Express Water**



OUT  
1" NPT

IN  
1" NPT

# Tools and Parts

## Tools

Towels  
Medium Crescent Wrench  
Monkey Wrench  
Pipe Cutter (Depends on pipes used) (eg: ratchet cutter, hacksaw, wheel cutter)  
Teflon Tape  
Plumber's Silicone Grease

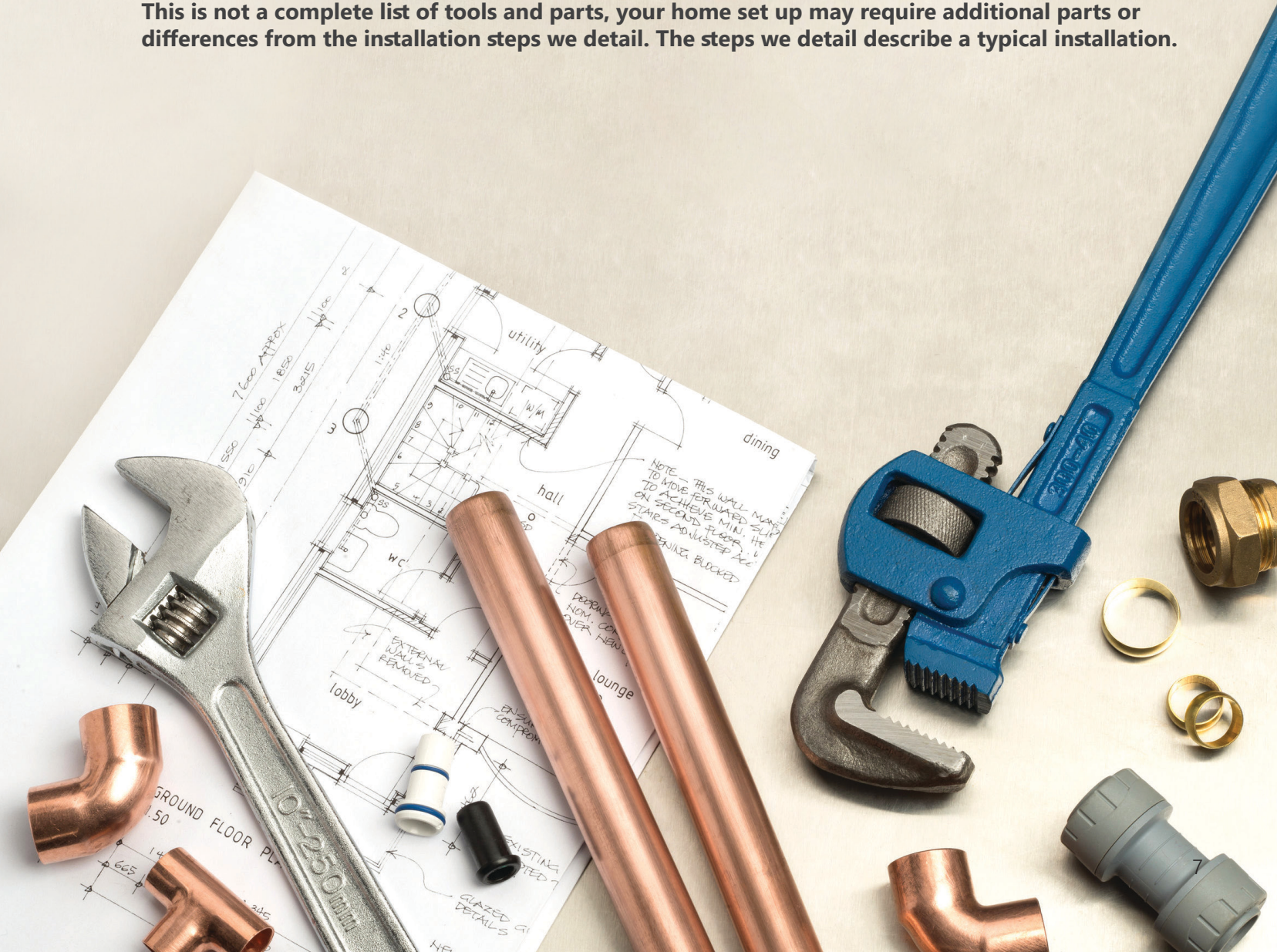
Depending on plumbing setup, you may need:  
Soldering Iron or Torch  
Power Drill

## Parts

Depending on your setup you may need:  
Shut-Off Valves  
Pipe Converter (1" to 3/4") (or other)  
Additional Piping  
Pipe Hangers  
Pressure Protection or Reducer Valve

## NOTE!

**This is not a complete list of tools and parts, your home set up may require additional parts or differences from the installation steps we detail. The steps we detail describe a typical installation.**



# How to Change the Direction of Your Flow

**Note:** If needed for your setup these steps will reverse the flow of your whole house system so your feed water can enter the opposite side.



**1.** Unscrew the Filter Housings for the Caps at the top



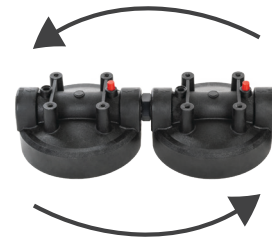
**2.** Unscrew the Pressure Gauge(s) by hand and set them aside



**3.** Unscrew the 8 screws on top of the metal bracket to disconnect the black Housing Caps from the Metal Bracket. Leave the black caps connected to each other and make sure to note the direction the Housing Caps are oriented in.

**4.** Rotate the black Housing Caps 180 degrees. The Housing Cap on the right should now be the housing cap on the left. Make sure the new indicated by the cap is correct for your setup.

**Rotate 180 Degrees**



**5.** Reattach the Housing Caps to the system with the 8 screws, then screw the pressure gauges back in by hand. Make sure your filters are in the correct order before reattaching the Filter Housings to the Housing Caps.

**You have now reversed the inflow direction of your whole house filtration system.**





# Before You Begin

Make a list of all the plumbing parts and tools you will need to completely install the system to fit your home's needs.

Confirm the inflow direction of the system and your install location.

Turn off all incoming water to the house. The valve for this may be located under the house, on the side of the house, under a ground panel, or elsewhere.

If you have an electric water heater turn off the electricity to your water heater.

If you have a gas water heater turn the knob to pilot.

We suggest planning for a bypass loop around the system.

Use teflon tape on the threaded connections



# Installation

After shutting off the main water line open all of your home plumbing fixtures to drain as much water as possible and reduce pressure in your plumbing.

## Prepare Your Install Site

Your install location should be at any point after the main water supply line enters your home, but before the line splits or meets the hot water heater. If your line branches off to outdoor and indoor plumbing you may wish to install on the indoor line if you would only like to filter your indoor water.

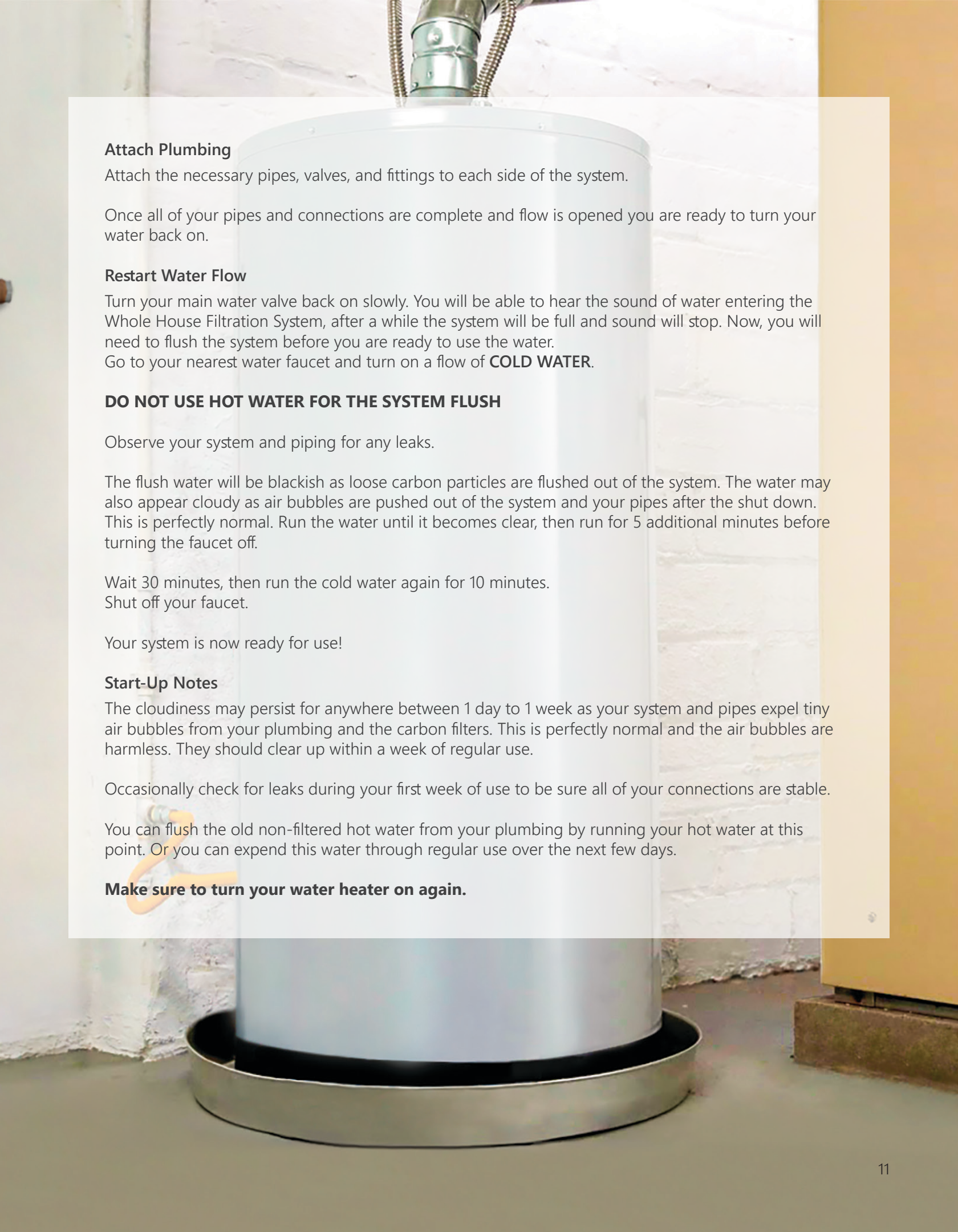
Measure the amount of line you will need to remove at your install location.

You will need enough space for the system, and any adapters, shut-off valves, bypass valves, or other fittings you may need.

Prepare for the line to discharge water once cut. Allow the line to drain before proceeding. Make sure the end of the line is smooth with no jagged edges after cutting.

You can mount the system to the wall at your install location, or it can stand on its frame on the floor. If you are mounting the system off the floor make sure the wall can support the weight of the system when full of water.





### Attach Plumbing

Attach the necessary pipes, valves, and fittings to each side of the system.

Once all of your pipes and connections are complete and flow is opened you are ready to turn your water back on.

### Restart Water Flow

Turn your main water valve back on slowly. You will be able to hear the sound of water entering the Whole House Filtration System, after a while the system will be full and sound will stop. Now, you will need to flush the system before you are ready to use the water.

Go to your nearest water faucet and turn on a flow of **COLD WATER**.

### DO NOT USE HOT WATER FOR THE SYSTEM FLUSH

Observe your system and piping for any leaks.

The flush water will be blackish as loose carbon particles are flushed out of the system. The water may also appear cloudy as air bubbles are pushed out of the system and your pipes after the shut down. This is perfectly normal. Run the water until it becomes clear, then run for 5 additional minutes before turning the faucet off.

Wait 30 minutes, then run the cold water again for 10 minutes.  
Shut off your faucet.

Your system is now ready for use!

### Start-Up Notes

The cloudiness may persist for anywhere between 1 day to 1 week as your system and pipes expel tiny air bubbles from your plumbing and the carbon filters. This is perfectly normal and the air bubbles are harmless. They should clear up within a week of regular use.

Occasionally check for leaks during your first week of use to be sure all of your connections are stable.

You can flush the old non-filtered hot water from your plumbing by running your hot water at this point. Or you can expend this water through regular use over the next few days.

**Make sure to turn your water heater on again.**

# Filter Change

Each filter is good for approximately 6 months or up to 100,000 gallons of water. The amount of time and water depends on the quality, temperature, and pressure of your water supply. Your replacement cycle may be longer or shorter because of this.

If you notice a drop in your water pressure in your home or on the pressure gauges, this usually indicates you are ready for a filter replacement. Once your pressure has dropped 10-12 PSI from your initial pressure we suggest replacing your filters.

**First, turn off water supply to the system.**

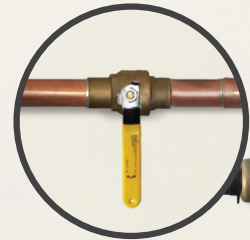
Open the nearest faucet until flow stops to depressurize your plumbing. Shut off the faucet once flow stops.

Prepare for water discharge then press the red pressure release button.



## Tools Needed:

- Filter Housing Wrench
- Gasket Lubricant
- Replacement Filters
- Towels



**Turn Off Water Supply**



**Pressure Release Button**

**Press the red pressure release button.**

Prepare for the system to discharge water when you remove the housing. Use your Filter Housing Wrench to unscrew the filter housings from your system.



Remove the old filter and throw it away. Drain any water from your filter housing.

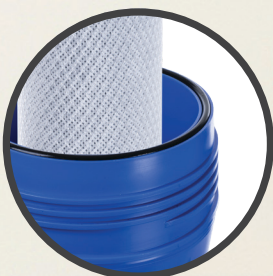
### Filter Cleaning

We recommend cleaning your filter housings once a year. To do this scrub the inside of the housing and the inside of the top manifold with one gallon of warm water mixed with 1 tablespoon of household bleach. Make sure to protect your hands during cleaning. Rinse all parts with water until all traces of bleach are gone.

**Note! Do not add bleach directly to any part of the system.**



**Throw Away Old Filter**



**Correct O-Ring Placement**

### Reattaching Housings

Your o-ring may come loose during the housing removal. If it doesn't carefully remove it from the housing and apply your silicone grease to the o-ring, before setting it back in place.

Apply gasket lubricant to the threads of each filter housing.

Support the base of the filter and insert it back into the top manifold. Insert the new filters facing the correct direction.

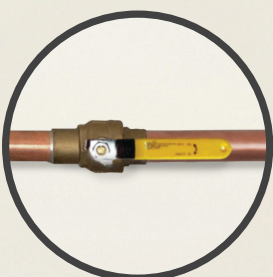
**NOTE! The carbon (ACB or GAC), KDF, or PHO filters will need to have their silicone o-ring facing the top of the system.**

Make sure your filter is correctly aligned and then begin tightening by hand. Once the housing is hand tight, use your filter housing wrench to give a slight additional turn. You should only need a fourth turn or a half turn with the wrench, be careful not to over-tighten.

Repeat these steps for the other filter housing.



**Align New Filters**



### System Start-up

Once all of your filters have been replaced and your housings are in place you are ready to turn on water supply to the system.

Check the system for leaks as it fills with water. If you discover a leak turn the water off, inspect your connection points and o-rings, retighten, and try again.

## Turn On Water Supply

### Flushing New Filters

Flush your new filters by turning on the closest cold water faucet.

The flush water will be blackish as loose carbon particles are flushed out of the system. The water may also appear cloudy as air bubbles are pushed out of the system and your pipes after the shut down. This is perfectly normal. Run the water until it becomes clear, then run for 5 additional minutes before turning the faucet off.

Wait 30 minutes, then run the cold water again for 10 minutes. Shut off your faucet.

**Your system is now ready for use!**

# Available at [ExpressWater.com](http://ExpressWater.com)



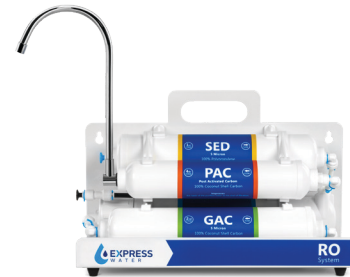
## Reverse Osmosis Purification

The purest most convenient drinking water available, installs quick and easy under the sink. Remove up to 99% of contaminants, make alkaline water, sterilize your water, and more!



## Whole House Filtration

Filter water for the entire house! Clean showers, laundry, and more! Remove common contaminants, heavy metals, and prevent scale build up!



## Countertop Reverse Osmosis

The quickest easiest answer for pure drinking water from most any sink. Remove major contaminants with a simple screw on installation countertop system



## Water Storage Tanks

100% food grade water storage tanks in sizes from 2 to 40 gallons



## Adjustable Booster Pump

If your water pressure is too low for the RO System the Booster Pump will increase your pressure.



## Adjustable Power Chiller

The easy to install compact Adjustable Power Chiller allows you to have cold refreshing water on demand from any faucet.

# 1 Year Limited Warranty



## We Cover

This warranty covers any defects in the parts or manufacturing of your Express Water Whole House Water Filtration System. We will give you new replacement parts in exchange for any defective parts.

## What to Do

Give us a call at 1-800-992-8876 or send an email to [support@expresswater.com](mailto:support@expresswater.com) and describe the problem to our support. Be sure to have a copy of your purchase confirmation email or receipt. Our support will verify that the product and problem are under warranty and help you arrange to send your defective part back to Express Water with your receipt and contact information (name, address, phone number, email address). Support will help arrange sending of the defective part, the delivery of your replacement part, as well as guiding you through the installation.

## Time Covered

This warranty is effective for 1 full year from the date of original purchase.

## Not Covered

This warranty does not cover labor for removal or installation, accumulation of dirt or grime (you are responsible for your own cleaning), systems with the serial number removed or altered, damage from improper storage (high or low temperature, sun damage, etc), damage from a system not installed as instructions directed, anyone other than original purchaser, damage from system abuse or unintended operation of system, acts of God, improper water source, modification, negligence, commercial use of the system, Filters, RO Membrane, incidental damages from system failure, systems used with parts not provided by Express Water (including tanks, filters, faucets, pumps, diverter valves), or cosmetic damages.

## Your State

Some states has further regulation on damages and warranty coverage. You may have other rights depending on your state.

For warranty questions, service, or help give us a call **Monday - Friday 10 am to 5 pm PST:**  
**1-800-992-8876**

Email us:  
[support@expresswater.com](mailto:support@expresswater.com)

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