

MTWHF MOUNTAIN PURE FULL HOUSE WATER FILTER

INSTRUCTIONS



Recommended Items Not Provided :

- Valves for Bypass
- Pipes
- 1" Male NPT Fittings
- 5/8" Vinyl Drain Tubing
- Two Pressure Gauges (1/8" NPT)
Optional
- Diluted Bleach Water for
Disinfection

Included :

- Backflow Prevention Device
- 1/2" Drain Hose Fitting
- Bottom Drain Valve
- Filter Inner Cartridge
- Filter Housing with O-Ring
- Bracket Screws
- Silicone Lubricant
- Extra Housing O-Ring
- Housing Wrench



Installation(Pages 2-8): The installation instructions are designed for trained water treatment professionals or licensed plumbers. If you're a homeowner, we suggest reaching out to a qualified water treatment specialist or your preferred plumber for assistance.

Maintenance (Page 9): Maintenance Instructions are for the owner of the filter that would only require a few minutes to replace Inner Cartridge about once a year to maintain peak operating condition.

MTWHF-PRE (Page 10): Pre filter and setup to fit needs for more particulates passing through.

Note: All items labeled with part numbers are covered by warranty

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ADDITIONAL PARTS PROVIDED



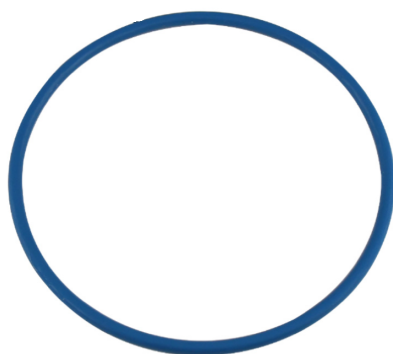
Bracket Screws



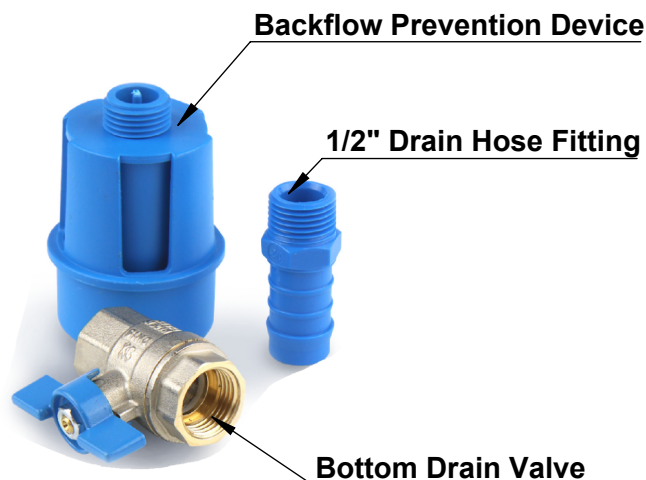
**Housing Wrench
(MTWHF/WRENCH)**



**Bracket Screws
(MTWHF/SIL-LUBE)**



**Housing O-Ring
(MTWHF/O-RING)**



Backflow Prevention Device

1/2" Drain Hose Fitting

Bottom Drain Valve

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INSTALLATION INSTRUCTIONS



Set Up : To hang your System, find a wall near your main supply line, before your water heater and after the outdoor spigots. If installing on a well water system, be sure to install it after the pressure tank. Be certain the wall will support the System's weight -- do not hang directly on drywall. If necessary, use a board, strut or similar to span 2 wall studs. Then anchor the board to wall studs and hang the System on the board. The System itself might weigh more than 50 lbs., so make sure the wall or board you mount to can hold at least 100 lbs.. Also, be sure to leave a minimum 6" clearance below the System to allow for filter changes.

If an inside location is not ideal, you can install the System outside. But keep it out of direct sun and in a place that will not freeze or exceed 113 degrees Fahrenheit. And when it comes to where in your piping to install, you'll typically want to put it after irrigation and before anything else.

As you prepare to install the System, make sure you can protect the wall and floor around it from any water spillage (which can happen during installation).

Before installation, be sure to flush the hot water heater. This will remove as much minerals as possible from the tank, reducing the time until the treated water is at its best.

Mounting : First, remove the filter from the housing.

Mark the housing with the installation date or use the filter monitor timer to show when one year has passed.

The inlet and outlet are marked on housing cap. Housing cap may be rotated so the inlet is on the left or right to suit your requirements. Connect the Wall Mount Bracket to the Housing Cap with provided stainless steel screws and washers provided. It is a good idea to mark the inlet and outlet so it's easy to see.

Next, mount the Bracket with Cap on a solid, flat, vertical surface or board spanning wall studs making sure Bracket and Cap are level. See "Set up" above for more details.

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INSTALLATION INSTRUCTIONS



Connecting the System: To control the flow of water during installation and maintenance, begin by installing valves on the inlet and outlet.

Caution: Use only Teflon® tape to seal threads -- do not use thread sealant or sealing compound.

For ease of future maintenance install a bypass assembly around the System (see *Installation Diagram On Page 12*). A bypass allows for water downstream during filter changes or if a leak develops in the System and is required by plumbing codes.

Install the included Bottom Drain Valve (BDV) on Filter Housing nipple. Remove the black shipping cap from the Housing nipple and discard. Only use parts that come with the System and not custom fittings. See diagram - *Bottom Drain Valve Assembly Details in Page 11*. BDV components and Housing nipple are all European thread, and they will leak if used with standard NPT pipe thread.

Connect the BDV to drain: you'll have two different options.

The first option, the larger fitting, is the backflow prevention device.

The second option, the smaller barbed fitting, is for routing 5/8" tubing (not supplied) to drain or a clean bucket to collect water during filter changes.

Connect the Filter Housing to the Housing Cap. **DO NOT** use the filter wrench to tighten the housings to the cap. This will cause it to be too tight. After ensuring there is an O-Ring in the groove simply tighten the housings by hand, allowing the lubricated O-ring to make the seal.

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INSTALLATION INSTRUCTIONS



Important Notes:

- **DO NOT** use petroleum-based products to lubricate the O-ring. Use only silicon lubricant
- **DO NOT** use any type of thread sealant or tape on the housing to cap threads. If a leak develops, replace the O-ring lubricated with SIL-LUBE.
- We **DO** supply an extra O-ring with your system.

CONSIDER at this time...

You can install 0-100 pressure gauges on the inlet and outlet side of the Housing Cap (1/8" NPT). This would also help troubleshoot and know when it's time to change the filter.

If you have pressure gauges installed...

Use them after System is fully installed by recording the pressure while the downstream tap is fully open and water is flowing. Then record the difference in pressure between the inlet and outlet.

Make a note of which tap you used and use that same tap to check the pressure differential in the future. As the filter traps particulate resistance to water flow will increase. An increase in pressure differential is an indicator it's nearing time to change the filter.

We recommend keeping a spare filter on hand. This makes good sense when you consider that water quality and the number of gallons used over time changes. Both water quality and gallons used affect useful filter life span. Having a spare set of filters on hand makes it easy to adjust to changes as needed.

In the long run, this won't cost you any extra. But it will allow you to easily change your filter when the time comes.

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INSTALLATION INSTRUCTIONS



Checking for Leaks:

- Close valves: Inlet, Outlet, Bottom Drain, Bypass Valve
- Open inlet valve just enough to let water flow slowly. This will fill the Housing with water and force air out the Air Vent
- Watch for water to come out of the air vent
- Close water inlet valve then wait for air valve to stop spitting air, then close air valve, this is to allow the o-ring to seal properly.
- Fully open inlet valve and check for any leaks and repair if needed. Pay close attention to the O-ring between the Cap and Housing
- Fully open a treated water tap downstream
- Let the water run for five minutes or until it runs clear to ensure all filter fines and air bubbles are evacuated from the system.
- Pop bubble on filter monitor and stick to your fridge or system to remember when to change filter next

Repairing Leaks:

If there is a leak where the Filter Housing meets the Housing Cap, turn off the water valves and use the vent to relieve pressure. Then drain the System by opening the BDV. You may need a wrench to loosen the leaking housing. Once loosened, check the O-ring for damage (replace if needed); check the O-ring groove for debris; reinstall clean lubricated O-ring and hand tighten housing to cap. Once complete, close the vent and BDV. Then check again for leaks.

If there is a leak where plumbing connects to the inlet or outlet **Do Not Overtighten. Damage caused by overtightening is NOT covered by warranty.** Repair by removing the fitting from Housing Cap, carefully clean threads of existing Teflon® tape and reapply new Teflon® tape using slightly more tape than the first time. Then reassemble then check for leaks again.

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INSTALLATION INSTRUCTIONS



Install Filter(s):

To install the filters, first drain the housing(s). Start by turning off the water Inlet and Outlet valves and open the Bypass valve (if present) and use the Air Vent valve to relieve pressure. Then, empty the housing by opening the BDV. Once empty, use a wrench (if needed) to remove the housing(s). Caution: the housings will be heavy, so take precautions do not drop and damage Housing or BDV.

If used filters are present remove and dispose of them. At this point, it's important to stop and disinfect the housing(s) prior to installing the cartridges. That includes washing your hands, but also wiping the inside with a clean cloth and diluted bleach. After complete, close the BDV.

Important Notes :

- If you're using a **PolyCor™** filter System, then make sure to insert the **Blue Cap up** in the housing.
- Remove the protective wrap on the filter. If installing more than one System or a two-filter System remove protective wrap one at a time taking note as to which filter goes into which housing.
- From here, once complete, hand-tighten (**DO NOT** use the Housing Wrench) to re-install the Filter Housing to Filter Cap.

At this point, you're ready to check for leaks again following the same process outlined above.



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INSTALLATION INSTRUCTIONS



Prepare for Use :

Final steps to finish installation.

- Start by closing all valves: Inlet, Outlet, Bottom Drain, Bypass Valve and the Air Vent.
- Open Air Vent approximately 1 complete turn.
- Open inlet valve just enough to let water flow slowly. This will fill the Housing and force air out the Air Vent. When air has escaped water begins to flow out the Air Vent close the Air Vent.
- Clear any air and filter fines.
- Fully open a treated water tap downstream.
- Let the water run, usually around five minutes, or until it runs clear. Once the water is clear, all filter fines and air bubbles will be out of the treatment system and plumbing.
- Mark the filter housing with the date to determine when replacement is needed after a year

Ready to use :

Congratulations! Your MTWHF System is now ready to use and enjoy!

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MAINTENANCE INSTRUCTIONS



When to Change Filter :

Generally, a filter for an MTWHF System lasts about a year. Even if you don't see any signs (as indicated below), it is still recommended to follow this replacement schedule to continue enjoying high quality water.

Signs it is time to replace your filter :

There are a few signs that indicate it's time to change your filter as follows:

- 1 year has passed since your MTWHF System was installed or filter changed.
- Soap suds for treated water are bigger. So, if you no longer notice the difference, your filter likely needs to be changed.
- The same goes for water spots. If they're not easier to clean in your treated vs non-treated water, it is past time to change your filter.
- When the taste changes, or odor or staining reappears, these again are signs your filter needs to be changed.

Make note as to how long the filter was in service before it needed changing and let this be your personal guide to filter changing frequency.

Changing Your Filters :

Follow instructions in the section **Install Filter(s)** above.

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MTWHF-PRE



To accommodate homes with elevated levels of particulate matter in their water supply, we offer an optional pre-filter (**MTWHF-PRE**) designed to work in series with the primary whole-house filtration system .

This additional stage of filtration is particularly beneficial in areas with older plumbing, well water sources, or municipal systems prone to sediment and debris.

The pre-filter is engineered to capture larger particles before they reach the main filter, helping extend the life of the primary filtration media and maintain optimal water flow. When paired with our standard system, a more comprehensive defense against both physical contaminants and hard water minerals.

Installation of the pre-filter is simple and non-intrusive, and it can be added at any time if water conditions require it.

It follows the same set up process as the setup described in this manual, only with the addition of one more filter added in series as shown in the diagram on Page 12.

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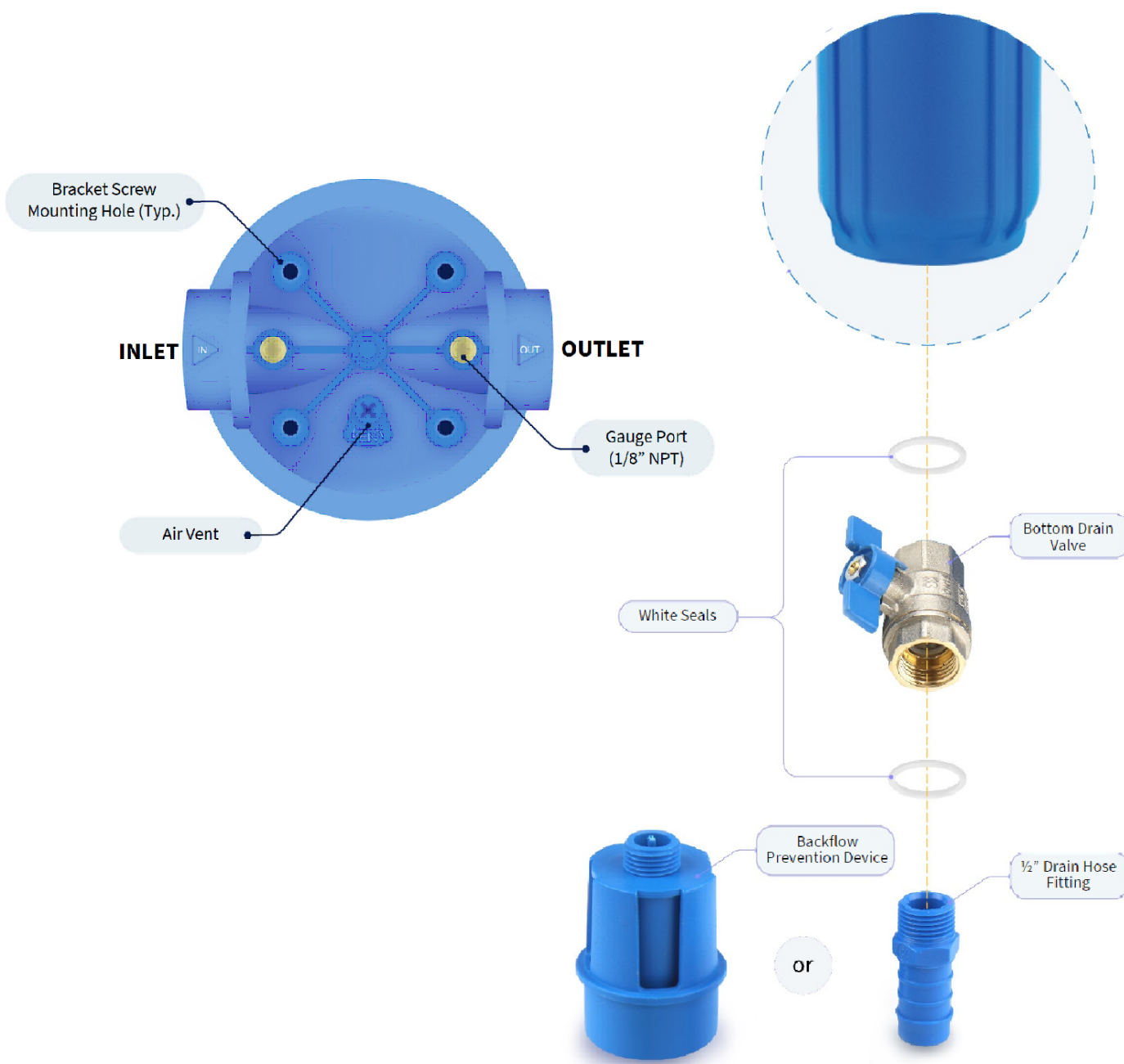
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DIAGRAMS



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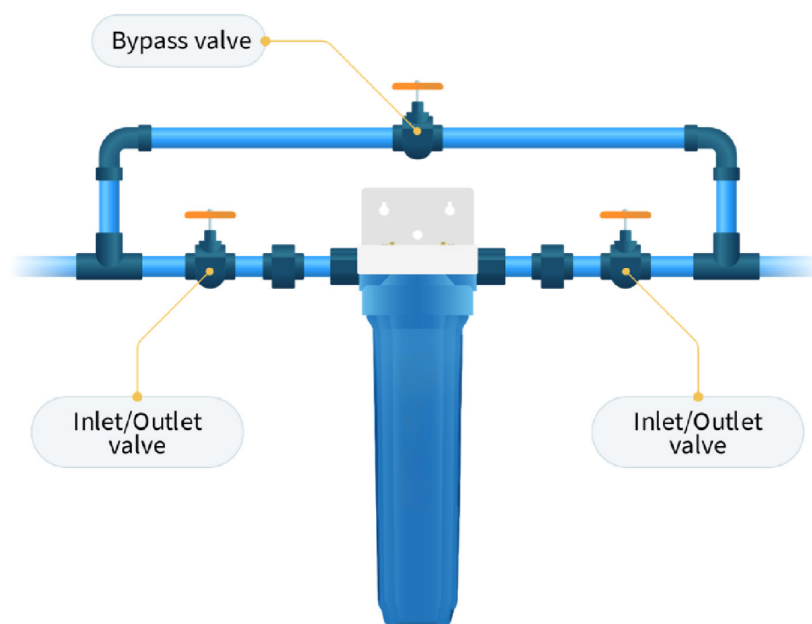
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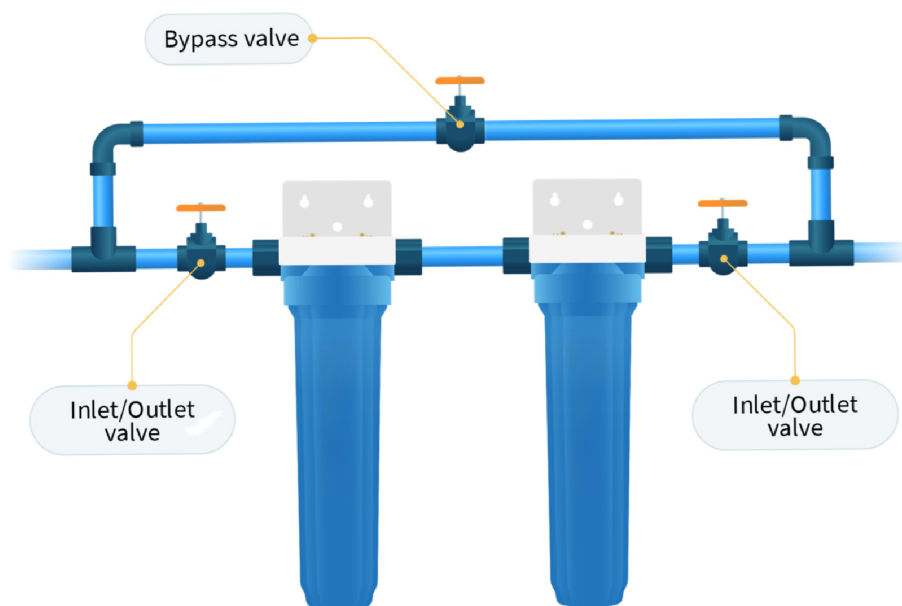
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MTWHF MOUNTAIN PURE FULL HOUSE WATER FILTER

DIAGRAMS



MTWHF Setup



MTWHF-PRE Setup

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