

Perfect Water Technologies

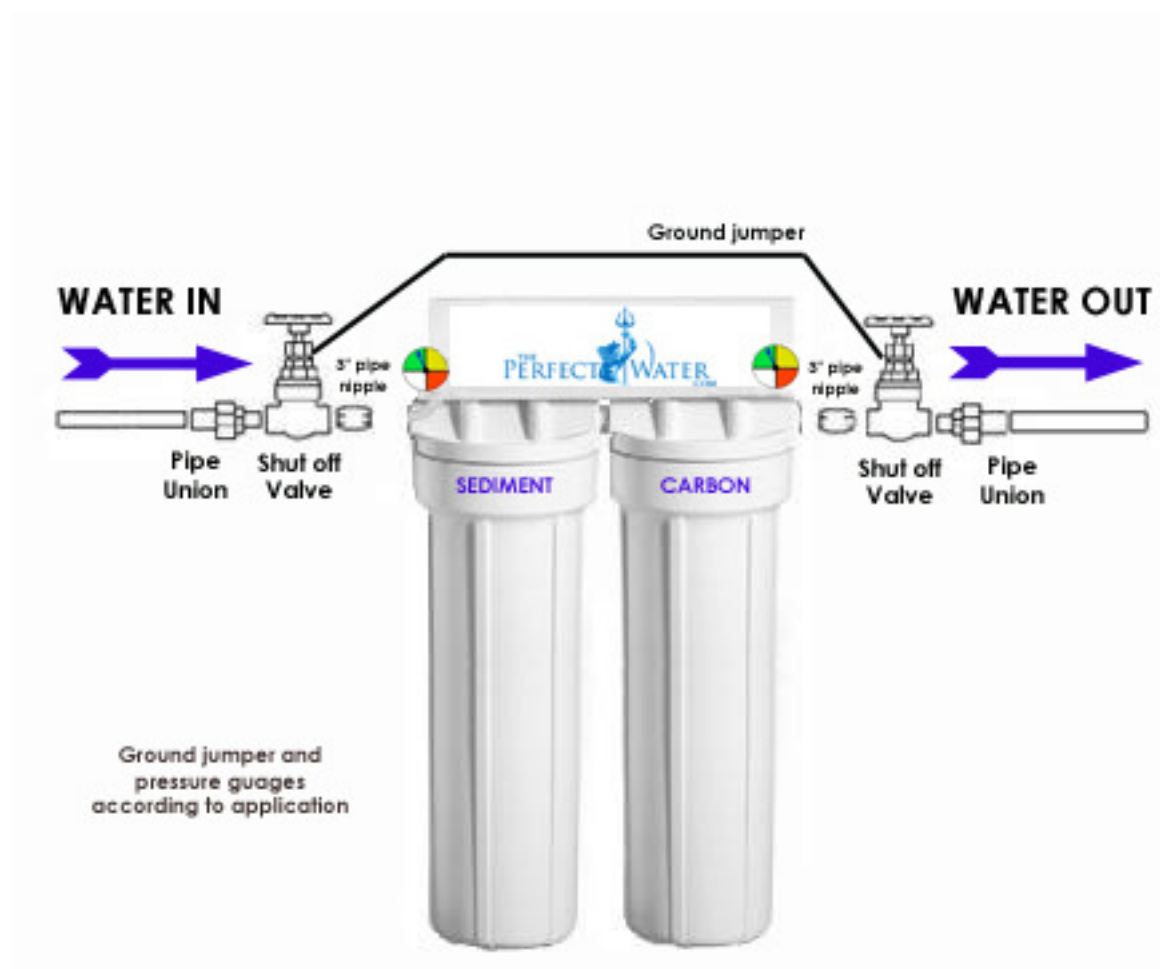
Home Master Water Filter Installation & Service Manual

HMF1C
HMF2SdgC
HMF3SdgFeC
HMF-CYO



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**USE A LICENCED PLUMBER TO
INSTALL THIS PRODUCT**



Contents:

- Instruction book: detailed descriptions, photos and troubleshooting guide.
- Filtration system, mounting bracket & screws
- Filter housing wrench

Maintenance Schedule

SEE APPENDIX A

General System Specifications

- Feed water: PSI 20 - 90 PSI ; for pressure greater than 90 PSI install a pressure regulator set to 75 PSI**
- Feed water Temperature: 40° - 100°(F)**

APPENDIX A

Annual Water Consumption	
1 person	25,000 gallons
2 people	55,000 gallons
4 people	100,000 gallons

Filter part #	Filter type	Filter change schedule	Home Master Water Filter Model #											
			HMF1S	HMF1C	HMF2SC	HMF2Sdgb1	HMF2Sdgc	HMF2SS	HMF3Fe	HMF3SSS				
CFpItR30-20BB	sediment	as needed	X							X				
CFpIt5-20BB	sediment	as needed									X			X
CFpIt1-20BB	sediment	as needed											X	
CFdgd2501-20BB	sediment	as needed					X		X					
CFRtIgc20-20BB	carbon	100,000 gallons		X						X				
CFB1-20BB	carbon	150,000 gallons					X							
CFtFe-20BB	iron	80,000 gallons per 1ppm iron									X			

Filter Change Instructions

1. Turn off the water supply to the system. Depress the red pressure release button on the top of the filter housing to relieve system pressure. If your system was not equipped with a pressure relief valve, leave open a nearby faucet. This will make removing the filter housing easier.
2. Unscrew the housing from the cap using the filter wrench included with your system, or a commercially available "strap" type wrench.
3. Locate and remove the large o-ring using a small, clean flat head screw driver. Try not to remove any of the lubricant. Set aside a clean, safe place.
4. Remove and discard old filter cartridge.
5. Scrub the housing and cap with warm water mixed with about 2 tablespoons of household bleach using a sponge or soft rag. Wear rubber gloves. **Rinse all parts very thoroughly!**
6. Lubricate the o-ring with clean silicon grease if needed. DO NOT USE PETROLIUM JELLY. Insert o-ring in groove and press into place. **Make sure the o-ring is seated level.**
7. Remove filter packaging and insert new filter cartridge into the housing, making sure that it slips over the standpipe in the bottom of the housing.
8. Fit the bottom of the housing into the cap and hand tighten, then use the filter wrench to fit snug. **Do not over tighten.**
9. Close any open valves. Turn on the water supply slowly to allow the system to fill with water. **Inspect carefully for leaks.** If a leak is found, first remove the housing and inspect the o-ring to ensure that it is seated properly. Then retighten.
10. Flush the system by turning on a few cold-water faucets. Allow the water to run until the air and carbon has been purged. Water may be cloudy initially. New activated carbon filter cartridges may contain loose carbon and air bubbles after installation.

Installing The Whole House Filtration System

Tools Required

Safety glasses	hacksaw
Towels	Soldering iron or torch
Flat head screwdriver	Power drill
Medium Crescent wrench	Teflon tape
Monkey wrench	

Parts required (not included)

(2) shut off valves	bypass valve (s) (optional)
(2) hex nipples or pipe nipples	pressure gauge (s) (optional)
(2) pipe unions	pressure regulator (as needed)
(1) ground jumper cable	
(2) pipe hangers	

USE A LICENCED PLUMBER TO INSTAL THIS PRODUCT

Preliminary Notes

- **This installation guide provides a step by step, start to finish procedure for installing your Home Master water filter.**
- **All steps provided herein are for typical installations only. Your application may be different.**

Pre-Installation

- **Filter should be protected from freezing, direct sunlight, extreme temperatures, kept dry and level.**
- **Make a list of all the plumbing fittings and tools you will need to completely install the system according to your application.**
- **Turn the water off to your house while installing the system.**
- **Turn off the electricity to your electric water heater during installation. After the system is installed and pressurized, turn on a few hot and cold-**

water faucets, and let them run until there is no more air in your lines, then turn the electricity back on to your water heater.

- **Use Teflon tape on threaded fittings.**
- **Be sure to note inlet and outlet markings. The sediment filter is the first stage of the water filter.**
- **A three-valve by-pass valve and loop may be installed to loop the entire system which makes servicing easier.**
- **Hard copper pipe generally comes in two types. Use the thicker "L" type copper pipe rather than thinner "M" type copper pipe.**
- **Follow all local plumbing and building codes.**

Installation

1. Turn off the main line water shutoff valve to the house.
2. Next, open all plumbing fixtures in the house in order to drain the lines of as much water as possible.
3. The filter should be placed on the main water supply line near where it enters the house, at any point past the main shut-off valve for the whole house, but before pipes branch off into multiple directions. However you may choose to locate the filter after the line branches to the inside and outside plumbing depending on your desire for filtered water in your outdoor plumbing.
4. Measure, cut and remove a section of the main incoming water line near where the system is to be installed. When determining the length of pipe to cut, account for filter width, shut off valves, union fittings, nipple fittings, pressure gauges (if used) and by-pass valve (if used). Allow this line to drain thoroughly. Smooth the newly cut ends down to avoid jagged points or edges. **Your filter should be located in a dry, level area and protected from freezing, and direct sunlight.**
5. Place a shutoff valve and/or a pressure gauge immediately on either side of the filter for future ease of service.
6. Securely mount the whole house filter using supplied mounting bracket and bolts. Ensure system is level.
7. You may now need to adjust pipe length or distance. Fit a pipe union onto the cut section of the main Water Line IN. (see diagram).
8. Fit together pipe union and shut off valve. Use Teflon tape on threaded fittings.

9. Simultaneously fit together shut off valve and whole house filter using pipe nipple or hex nipple to draw then together on the IN side of the filter.
10. Fit pipe hanger on water IN side for additional support.
11. Simultaneously fit together filter and the shut off valve on the OUT side of the filter. Fit pipe union to shut off valve on OUT side.
12. Check pipe length and pipe union length to see if additional pipe length or union required. Join pipe union and pipe.
13. Fit pipe hanger on water OUT side for additional support. Connect ground jumper cable (if necessary)

Turing the water back on

Turn your water on slowly. In a few minutes, the sound of water entering the system will stop. After the unit is installed, it is necessary to flush the unit thoroughly. Do this at the nearest COLD water faucet. **DO NOT USE A HOT WATER FAUCET TO PERFORM INITIAL SYSTEM FLUSH.** The water will be blackish in color for some time - this is normal carbon dust. Continue to run water until it runs clear and all air has been purged. Shut the water off and let the unit sit for a while, and then flush it again. It is not unusual for the water to appear "cloudy" for a day or so following installation - this cloudiness is actually tiny air bubbles being purged from the carbon. This is normal, harmless, and will clear up in a day or two.

Notes

- Even though there is filtered water in the cold water lines, the hot water heater is still full of raw water. Through normal use, this water will be replaced with filtered water in about 2 or 3 days.
- This filter system should not be used with water that is microbiologically unsafe or of unknown quality without adequate disinfection before and/or after the system.
- Water filter systems should never be exposed to freezing temperatures - severe damage to the filter and housings could result. Such damage is not covered under any warranty.
- After prolonged periods of non-use (such as a vacation), it is recommended that the system be flushed thoroughly for at least 5-10 minutes before using the water.