



WH Chloramine

Premium Multi-Stage Whole House Chloramine Reduction Filter System



Package Contents:

- two (2) heavy-duty Pentek Big Blue 20" filter housing (1" NPT) w/ pressure relief buttons
- one (1) mounting bracket and related lag bolts and washers
- one (1) Hydronix SDF-45-2010 multi-gradient sediment filter
- one (1) Pentek CRFC-20BB radial flow chloramine reduction filter
- one (1) 1" housing coupler used to join the 2 filter housings
- one (1) spanner wrench & one (1) roll of Teflon tape

The WH-Chloramine whole house filter package utilizes an advanced radial flow granular activated carbon filter for specialized chloramine reduction. The first filter housing features a Hydronix SDC Series multi-gradient sediment filter. This filter uses the entire depth of its media by trapping the largest sediment particles on the outside of the filter, then gradually stepping down the size of particles it will reject as the water moves closer to the core of the filter, finally ending at 10 microns. The result is longer filter life and higher flow rates (less pressure drop). The polypropylene media is highly resistant to bacteria, making this an excellent choice for well water treatment applications.

The sediment filter is followed by Pentek's highly specialized 20 micron CRFC-20BB chloramine reduction filter. This filter features superior chloramine and chlorine reduction as compared to standard activated carbon filters. Approximately 80% chloramine reduction for 10,000 gallons at a flow rate of 5 gallons per minute (25,000 gallons at 2.5 GPM).

Specifications	
Housing Material:	Polypropylene
Housing O-Ring Material:	Buna-N
Housing Pressure Drop:	1 PSI at 15 Gallons Per Minute (0.1 bar at 57 LPM)
SDF-45-2010 Filter Pressure Drop:	1 PSI at 20 Gallons Per Minute (0.1 bar at 76 LPM)
Pentek CBC-20BB Filter Pressure Drop:	2.5 PSI @ 5 Gallons Per Minute (0.17 bar @ 19 LPM)
Maximum Recommended Flow Rate:	5 Gallons Per Minute (19 LPM)
Recommended Operating Temp. Range:	40-100°F (4.4 to 37°C)
Maximum Recommended Pressure:	90 PSI (6.2 bar)

Note: We recommend that this product be installed by a professional plumber. If you install this product yourself, please ensure that your installation meets all local building and plumbing codes. The following instructions are meant only as a general guide and should not be considered a substitution for your local plumbing and / or building codes.

Typical Installation:

You will need the following plumbing supplies:

- two (2) shut-off valves with suitable sized unions to connect to your incoming and outgoing water lines. You can select threaded, compression or sweat (soldered) fittings on the shut-off valves as desired.
- plumber's cement or Teflon tape for all threaded fittings.

The plumbing connections on the inlet and outlet of the water filter housings are 1" inside diameter (female) NPT threaded fittings. You may require additional plumbing adapters to connect to your selected shut-off valves. Your plumber will have all of these items, or they can be purchased at your local hardware or plumbing supply store at minimal cost (take these instructions to the store with you so the store clerk can make sure you get everything you need). Note: In older homes with galvanized piping all fittings should be threaded.

STEP 1. Select an installation location. There are a variety of ways to install your filter system into a main or branch water line. As a general recommendation, this system should be installed on the main **cold water line** after the pressure tank or water meter. Select an installation location with convenient access for regular filter replacements and maintenance.

STEP 2. Shut off the main water supply and drain the pipes. Opening the highest and lowest fixtures in the house will help drain the pipes.

STEP 3. Using a pipe cutter, cut out a section of your main water line at the point where you want to install your filter system. There will probably be some water remaining in the system, so be sure to have a bucket and some rags handy to clean up any small spills. Make sure that the section of water line you remove is appropriately sized such that all of the components of the system including the shut-off-valves, adapters, and the black filter caps will fit snugly when assembled. If in doubt, cut a smaller section at first – you can always remove a slightly larger section upon final assembly if necessary.

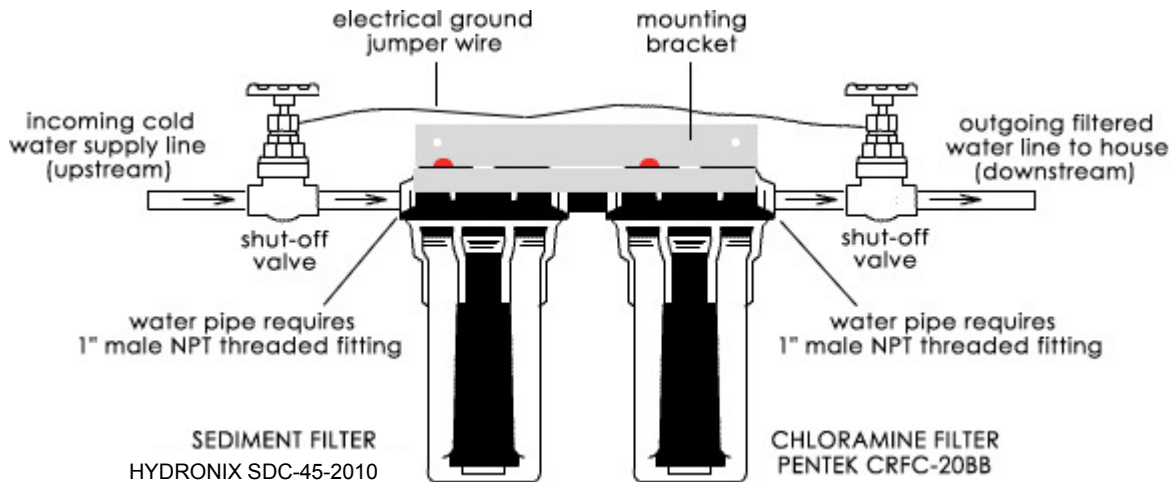
STEP 4. Assemble the components according to the diagram below. Use the 1" housing coupler provided with this package to connect the 2 black housing caps. We recommend installing shut-off valves both upstream and downstream of the filter housings. A shut-off valve is not required on the upstream side of the housing if the filter will be located within a couple of feet of the main line shut-off valve. **Plumber's cement or Teflon tape should be used on all threaded fittings.** Secure the mounting bracket to the black cap of the filter housing using the lag bolts and washers provided. Secure the bracket to the wall with suitable anchors based on the material of your wall. Remember that the filters will be heavy when full of water so secure to the wall well. Allow enough space below the black caps to accommodate the blue housing sumps plus a minimum of an additional 3 inches of clearance.

IMPORTANT WARNINGS:

Use extreme caution when soldering any connections between the main water line and the shut-off valve or between the shut-off valves & filter housings if your filter housings are connected to the pipes, or serious damage to the filter housings could occur. If at all possible, solder all connections before the pipe is connected to the filter housings.

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 plastic filter housing and connect a

jumper wire between the 2 clamps (#4 gauge solid copper wire recommended). Alternatively, your plumbing code MAY allow you to connect the jumper wire to the 2 shut-off valves (see diagram). Consult a certified electrician or plumber if you are unsure.



STEP 5. Remove the protective plastic wrap from the filter cartridges and place each in its appropriate blue 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 O-ring is seated properly in the groove at the top of the blue housing sump, then screw each blue housing sump containing the filter cartridge onto its black housing cap. Use the spanner wrench to tighten. Do not over-tighten. Excessive force is not required to obtain a good seal.

STEP 6. Turn on the water and inspect all plumbing connections very carefully for leaks. Also inspect the seal between the black housing caps and the blue housing sumps to ensure that the O-ring has formed a good seal. Tighten this connection again using the spanner wrench if necessary. If this connection still leaks, turn off the water supply and check to make sure that the filter is aligned properly in the housing and repeat your test for leaks. When you are confident that all connections are sound, run cold water for 5 minutes at any faucet to purge air out of your system and flush the filter before use. New cartridges may release "fines" (very fine black powder) after installation. Wait one hour, and flush again for another 5 minutes prior to using the water.

Important Notes:

1. The manufacturer recommends that the blue housing sumps be replaced every 10 years or if you notice any cracks or damage.
2. 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.
3. 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.
4. 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.

5. The contaminants or other substances removed or reduced by this water treatment device are not necessarily in your water.

6. If you suspect that your water pressure will at any time exceed the maximum rating of 90 PSI (6.2 bar), a pressure regulator must be installed before the system. It is recommended that the pressure regulator be set at 75 PSI (5.2 bar) or less.

Maintenance and Filter Replacement Information:

To maintain the optimal performance of your whole house water filter system, filters should always be replaced in accordance with manufacturer specifications. Filters may need to be replaced more frequently than specified, depending on the level of contaminants, particularly sediments, in your water supply. If significant water pressure reduction is noticed, the filter may have become clogged. We recommend that you keep a "Filter Replacement Log" attached to your system where you can record the date of filter changes, and that you write a note on your household calendar reminding you of filter replacement schedules.

Replacement Filters:

Hydronix SDC-45-2010 – replace every 6-12 months

Pentek CRFC-20BB – replace every 25,000 gallons or approx. 4-6 months

Replacement Filters can be Obtained as Follows:

Phone Toll Free 1-866-376-2690 or

Order Online at: www.home-water-purifiers-and-filters.com

Filter Cartridge Replacement Procedure:

1. Turn off the water supply to the system using the shut-off valves you installed on the inlet and outlet of the filter housing. Depress the red pressure release button on the top of the filter housing cap to allow any pressure inside the housing to escape, thereby allowing the blue filter sump to be removed easier.
2. Unscrew the blue sump (bottom of the housing) from the cap using your spanner wrench (included with original purchase of your system).
3. Locate and remove the large O-ring. Try not to remove any of the lubricant. 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 black housing cap and the blue housing sump is detected and does not seal after tightened with the spanner wrench. 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 old filter cartridge and discard it.
5. Scrub the bottom of the housing and cap with dish soap and warm water using a sponge or soft cloth. Fill 1/3 with water and add about 2 tablespoons of 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 blue 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 blue sump onto the black housing cap tighten using the spanner wrench. **Do not over tighten.**
9. Turn on the water supply slowly to allow the system to fill with water. Depress the red pressure release button on top of the unit again to release any trapped air. **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. Tighten using the spanner wrench as necessary to achieve a good seal and stop leaks.
10. New cartridges may release "fines" (very fine black powder) after installation. Flush the system by running water from a nearby faucet for 5 minutes. Wait one hour, and flush again for another 5 minutes prior to using the water.