

INSTALLATION INSTRUCTIONS

Heavy Duty Water Filtration System—GNWH38F

SAFETY PRECAUTIONS

- Check with your state and local public works department for plumbing and sanitation codes. You must follow these guidelines as you install the Heavy Duty Water Filtration System. Using a qualified installer is recommended.
- Be sure the water supply conforms with the *Performance Data*. If the water supply conditions are unknown, contact your municipal water company.

▲ WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

- It is highly recommended that a water shut-off valve be placed directly upstream of your household filter.

PROPER INSTALLATION

This Heavy Duty Water Filtration System must be properly installed and located in accordance with the Installation Instructions before it is used.

- **Check with your local public works department for plumbing codes. You must follow their guides as you install the Heavy Duty Water Filtration System.**
- **Use the Heavy Duty Water Filtration System on a potable, safe-to-drink, home COLD water supply only. The filter cartridge will not purify water or make unsafe water safe to drink. DO NOT use on HOT water (100°F max).**
- **Protect the Heavy Duty Water Filtration System and piping from freezing. Water freezing in the system will damage it.**
- **Your Heavy Duty Water Filtration System will withstand up to 100 psi water pressure. If your house water supply pressure is higher than 100 psi during the day (it may reach higher levels at night), install a pressure reducing valve before the system is installed.**

- Do not install on **HOT WATER**. The temperature of the water supply to the Heavy Duty Water Filtration System must be between the minimum of 40°F and the maximum of 100°F. See the *Filter Cartridge Life* section.

- **Do not** install the Heavy Duty Water Filtration System using copper solder fittings. The heat from the soldering process will damage the unit.

- If making a soldered copper installation, do all sweat soldering before connecting pipes to the system. Torch heat will damage plastic parts.

▲ WARNING: Discard all unused parts and packaging material after installation. Small parts remaining after installation could be a choke hazard.

- **Do not** install filter in an outside location or anywhere it will be exposed to sunlight.

REQUIRED TOOLS AND ACCESSORIES FOR INSTALLATION

- 2 Adjustable wrenches
- Pipe cutter
- Ruler or tape measure
- Cordless drill
- File
- Emery paper
- Screwdriver

Optional accessories are available (Visa, MasterCard or Discover cards accepted) by visiting our Website at www.GEAppliances.com or from Parts and Accessories, call 800.626.2002 (U.S.) or 800.663.6060 (Canada).

CONTENTS INCLUDED WITH PRODUCT

- Filter system (head and canister)
- Product literature
- Canister wrench
- Timer and batteries

- Mounting bracket

- Four 5/16" Hex-head screws and four 5/16" Hex washer-head screws

- 2 sets of fitting, ferrule, and nut

- 2 UL-approved grounding clamps and a #6 AWG grounding wire

- White sealing tape



GNWH38F is Tested and Certified by NSF International against NSF/ANSI Standard 42 for materials and structural integrity requirements only.

COMPONENT



GNWH38F is tested and certified by NSF International against NSF/ANSI Standard 42 with cartridge FXHTC for the reduction of Chlorine: Taste and Odor.

184D1064P001 (04-04 JR) 49-50125

www.GEAppliances.com

GENERAL ELECTRIC COMPANY, Appliance Park, Louisville, KY 40225

CARTRIDGE SPECIFICATIONS

Performance Data

This system has been tested according to NSF/ANSI 42 for the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

FXHTC Cartridge

Substance	Influent Challenge Concentration	Reduction Requirements	Average Reduction
Standard 42			
Chlorine: Taste and Odor	2.0 mg/L \pm 10%	\geq 50%	95.5%

Test Conditions

Flow Rate: 3 gpm (11.4 Lpm)
 pH: 7.5 \pm 1
 Inlet Pressure: 60 PSI (4.1 bar)
 Temperature: 68°F \pm 5°F (19.8°C \pm 2.5°C)

Operating Requirements

Pressure: 30–125 psi (2.1–6.9 bar)
 Turbidity: 5 NTU Max.
 Temperature: 40°F–100°F (4.4°C–37.7°C)
 Capacity: 5,000 gallons (18,927L) or 3 months

Testing was performed under standard laboratory conditions, actual performance may vary.

Additional Replacement Filter

FXHSC Filter could be used as a replacement filter.

FXHSC Cartridge

GE Model	Function	Life	Construction
FXHSC	Sediment* 30 Micron*	3 months/ 24,000 gallons	Pleated

**Based on manufacturer's internal testing.*

Operating Guidelines

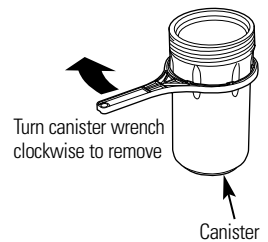
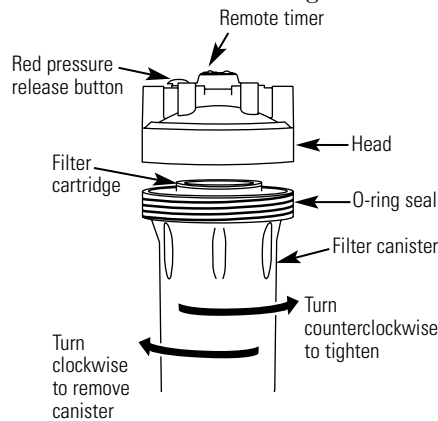
Minimum–Maximum Supply Water Pressure: 20–125 psi
 Minimum–Maximum Supply Water Temperatures: 40°F–100°F

Filter Cartridge Replacement

You should change your filter when the water flow is noticeably reduced or at least every 3 months.

- 1 Turn off water to filter. Water must be shut off from an upstream valve.
- 2 Press the red pressure release button to release pressure.
- 3 Unscrew the filter canister and discard used filter. Wash the filter canister with mild soap and water. **Do not** use harsh cleaners or hot water.
- 4 Inspect the filter canister O-ring. Make sure it is lightly lubricated with clean food grade silicone grease (silicone grease is available through GE Parts and Service: 1.800.626.2002, part number WS60X10005). Be sure the o-ring is seated in the groove. It is recommended that you replace the O-ring if it is damaged.
- 5 Place a new filter cartridge into the canister, making sure it is centered and completely seated on the bottom seal.
- 6 Reinstall the filter canister to the unit. Use the canister wrench to tighten the canister. **DO NOT OVERTIGHTEN.**

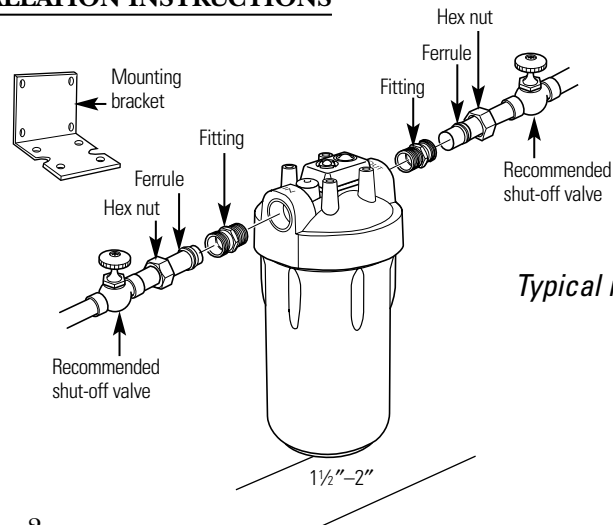
- 7 Slowly turn on water to the filter by using the upstream shut-off valve.
- 8 Press the red pressure release button to remove trapped air.
- 9 After installation, flush the cartridge for 10 minutes, wait one hour, then flush again for 10 minutes before using the water.



STEP-BY-STEP INSTALLATION INSTRUCTIONS

Installation Overview

NOTE: Be sure to allow a minimum space of 1½"–2" under the filter for removing the sump to change the cartridge.



STEP-BY-STEP INSTALLATION INSTRUCTIONS (cont.)

Select Location

Select a location for the filter that is:

- protected from freezing.

- not exposed to direct sunlight.

It is recommended that a shut-off valve be placed on both sides of the filter.

It is recommended that a mounting bracket be used.

Cut Water Line

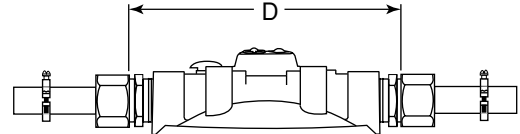
▲ WARNING: A copper or galvanized cold water pipe may be used to ground electrical outlets in the home. Failure to maintain this ground path may result in an electric shock hazard. If the cold water pipe is used to ground electrical outlets, please refer to the *Installing the Ground Wire* section before cutting the pipe.

- 1 Turn off the water supply and open a nearby faucet to drain the water out of pipes.
- 2 Using a tape measure or ruler, measure the distance “D” as shown.

■ **NOTE:** It is recommended that the shut-off valve be placed before and after the filter as shown in the *Installation Overview* illustration.

- Select a secure location surface to install filter and mounting bracket. The location should align the filter system with inlet and outlet pipe and should not cause the pipes to bend or damage. Mark the distance “D” on the pipe. D is about 7¾”.

- 3 Using a pipe cutter, cut pipe. Sand (file) cut ends of pipe to assure that they are square and smooth.



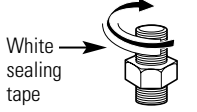
■ **NOTE:** Have a bucket and towel available to collect excess water.

Install Mounting Bracket and Fittings

Instructions are for installing fittings supplied with the filter system or similar fittings onto copper plumbing. If the unit is to be installed on any other type of tubing (plastic, PVC, galvanized), consult a qualified plumber for additional hardware.

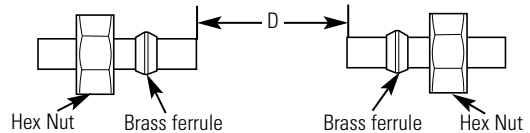
- 1 Attach heavy duty mounting bracket to head assembly with four hex-head screws as shown in illustration. Failure to use the bracket may result in a leak over time. The bracket can be used as a template for marking the location of the mounting screws.



- 2 Apply 4 or 5 wraps of white sealing tape, in a clockwise direction, to the pipe threads of each fitting. **DO NOT** use joint compound on any parts connecting to filter system.  White sealing tape
- 3 Assemble fitting to the inlet and outlet of the head. Start each fitting by hand to make sure they don't cross thread. Use an adjustable wrench to tighten fittings. **DO NOT OVERTIGHTEN.** About 1–2 thread(s) should remain visible.
- 4 Use four hex washer-head screws to mount bracket to the wall firmly. Use proper anchors on wall. Anchors are **NOT** included.

Attach Fittings to Water Line

- 1 Slip a compression nut onto each pipe.
- 2 Next, slip the brass ferrule onto each pipe.



Installing the Unit

- 1 Align filter assembly with pipe ends making certain that the **incoming** water supply is going into the filter opening marked “IN”. It may be necessary to spread the pipe ends apart to install filter assembly.
- 2 Using two adjustable wrenches, hold incoming fitting securely with one wrench and tighten nut with second wrench. Repeat this procedure for outgoing fitting.

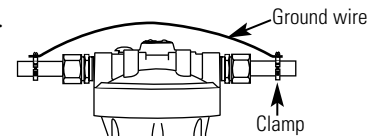
- 3 If mounting bracket is not used, support the water pipe on either side of the filter unit.
- 4 Install a filter and tighten canister to seal (see filter cartridge replacement section).

Installing the Ground Wire

NOTE: If your house plumbing is plastic, it would not be used as a grounding path, and this step should be skipped.

IMPORTANT: A copper or galvanized house cold water pipe is often used to ground electrical outlets in the home. **Grounding protects you from electrical shock.** The water filter system may have broken this ground path. To restore connection, install an 16” long, 6-gauge copper wire across the filter, tightly clamped using UL approved 1/2”–1” bronze grounding clamps at both ends as shown.

- 1 Clean copper pipe and ends of wire with emery paper. Bare wire is recommended. If insulated wire is used, it should be stripped 1” at each end before cleaning with emery paper.
- 2 Attach bronze clamps to pipe. Tighten screws.
- 3 Attach wire to clamps as shown. Tighten screws firmly to the copper wire at stripped end.

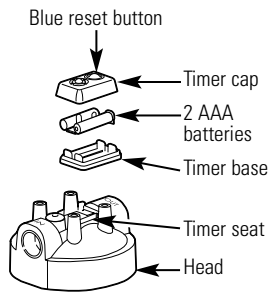


Final Check

- 1 Install filter, if not already done (see *Filter Cartridge Replacement* Section).
- 2 Slowly turn on water supply.
- 3 Check entire system for leaks.

- 4 If leaking from fittings, shut off water flow and tighten or reseal fittings. If leaking from the canister, tighten canister with a wrench.
- 5 After installation, flush the cartridge for 10 minutes, wait one hour, then flush again for 10 minutes before using the water.

Timer Installation and Reset Instructions



Timer battery installation and change

Insert coin or screw driver in the slot between timer cap and base. Gently pry them open and separate time base from cap. Install or change 2 new AAA batteries. After having the batteries in place, line up the base and cap and snap them back together.

It is recommended to change the batteries at least every 2 filter changes.

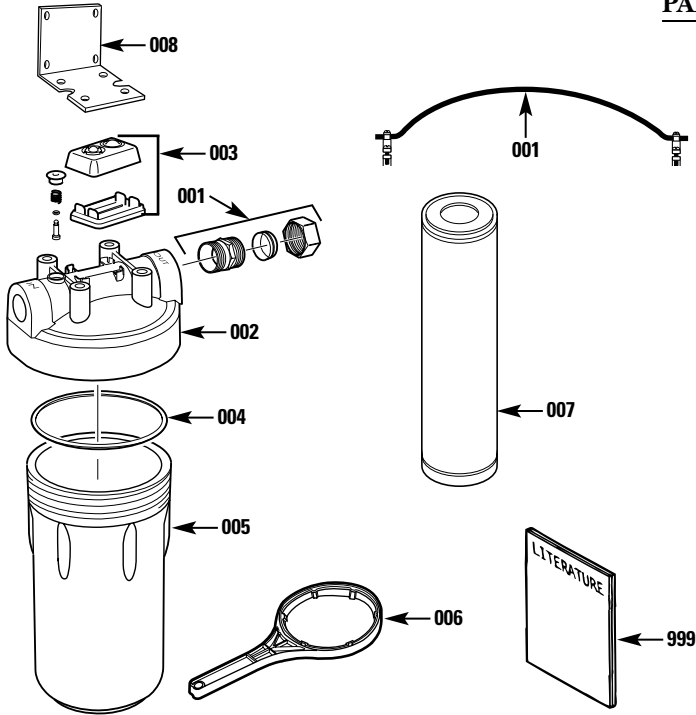
Installation of timer

Hold the timer body in the center and gently push timer to its seat at the top of the head. Or attach it in a remote location for easy viewing.

Timer reset and application

After new batteries are installed or filter is changed, push and hold the timer blue reset button for approximately 5 seconds. Release the reset button after the light flashes 5 times. The light will flash again in 90 days to remind you that it is time to change the filter.

PARTS LIST



Ref. No.	Part No.	Part Description	
001	HDKIT	Grounding Clamps and Wire	1
001	HDKIT	3/4" Copper Tube Fittings	1
002	HDCAP	Head	1
003	WHTIMER	Timer	1
004	HDRING	O-Ring	1
005	HDSMP	Canister	1
006	HDWRNCH	Canister Wrench	1
007	FXHTC	Filter Element—Carbon Filter	—
	FXHSC	Filter Element—Pleated	—
008	HDBRKT	Mounting Bracket	1
999	49-50125	PM Installation Instructions	1

To obtain replacement parts, call toll-free 800.626.2002 (U.S.), 800.663.6060 (Canada—English), 800.361.3869 (Canada—French).

BEFORE YOU CALL FOR SERVICE...



*Troubleshooting Tips
Save time and money! Review the chart below
first and you may not need to call for service.*

Problem	Possible Causes	What To Do
Water contains tiny black particles	New filter cartridges contain activated carbon, which is a harmless black powder.	<ul style="list-style-type: none"> • Turn on a water faucet and allow these harmless carbon particles to purge from the cartridge. Turn off the faucet when the water is clear.
Water has air bubbles and is cloudy	Air in system after installation.	<ul style="list-style-type: none"> • Will go away after water runs for a while.
Indicator light on the timer is flashing	Three months usage has occurred. This is the maximum life of the filter cartridges.	<ul style="list-style-type: none"> • Replace filter cartridge and batteries in the timer. • Reset timer by holding down the reset button for 5 seconds.
Indicator light on the timer is not working	Timer operating normally.	<ul style="list-style-type: none"> • Light flashed 5 times when reset. It will not flash again until 3 months have passed. • No action required.
	Batteries may need to be replaced or they may have been installed incorrectly.	<ul style="list-style-type: none"> • Observe orientation markings on the holder and install correctly. Replace batteries if they are old.
Timer not reset	Reset button has built-in time delay.	<ul style="list-style-type: none"> • Reset timer by holding down reset button for 5 seconds.
Chlorine taste and /or odor in the product water	The filter cartridge is no longer removing chlorine from the water supply.	<ul style="list-style-type: none"> • Replace FXHTC filter cartridge.
	FXHSC Filter (pleated paper) is installed, which does not remove chlorine.	<ul style="list-style-type: none"> • If chlorine reduction is desired, change to FXHTC filter cartridge.
Fittings are leaking between fitting and head	Not enough sealing tape on fittings.	<ul style="list-style-type: none"> • Unscrew fitting from head and remove old sealing tape. Add new sealing tape to the fitting.
	Fitting has become loose.	<ul style="list-style-type: none"> • Install mounting bracket if not used. • Tighten fittings with wrench.
Water dispenses very slowly	The filter has been installed for too long.	<ul style="list-style-type: none"> • A three-month change-out period is recommended. Replace filter cartridge.
	The filter cartridge has become clogged.	<ul style="list-style-type: none"> • High sediment levels can cause premature clogging. Replace filter cartridge.
Fittings are leaking between fitting and pipe	Piping system is not 3/4" copper pipe.	<ul style="list-style-type: none"> • This fitting is designed for 3/4" copper pipe only. Consult a licensed plumber if other piping is used.
	Compression nut has become loose.	<ul style="list-style-type: none"> • Tighten the compression nut with wrench while holding other half of fitting with second wrench.
Canister is difficult to remove	Inlet water supply still on.	<ul style="list-style-type: none"> • Shut off inlet water and push red pressure relief button.
	Internal water pressure has not been relieved.	<ul style="list-style-type: none"> • Push red pressure relief button.
Leaking between canister and head	Seal O-ring is missing or damaged.	<ul style="list-style-type: none"> • Replace O-ring (Part #HDRING)
	Canister is loose.	<ul style="list-style-type: none"> • Turn off water supply. • Press red pressure relief button. • Tighten canister with canister wrench.

GE Water Filtration System Warranty.



All warranty service provided by our SmartWater™ Authorized Servicer Network. To schedule service, on-line, 24 hours a day, visit us at www.GEAppliances.com, or call 800.952.5039 in the U.S., or toll-free 866.777.7627 in Canada.

Staple your receipt here.
Proof of the original purchase date is needed to obtain service under the warranty.

For The Period Of: **GE Will Replace:**

One Year
From the date of the original purchase

Any part of the Water Filtration System (excluding filters) which fails due to a defect in materials in workmanship. During this **full one-year warranty**, GE will also provide, **free of charge**, all labor and in-home service to replace the defective part. All warranty service will be provided by a GE SmartWater™ Authorized Servicer.

What GE Will Not Cover:

- Service trips to your home to teach you how to use the product.
- Improper installation.
- Failure of the product if it is abused, misused, or used for other than the intended purpose.
- Defects that result from improper installation or damage not caused by GE.
- Liability on the part of GE under this or any other warranty for any indirect or consequential damage.
- Products that are used for commercial or industrial applications.
- Use of this product where water is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Filter cartridges.
- Replacement of house fuses or resetting of circuit breakers.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this appliance.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General. THIS WARRANTY IS INTENDED TO BE IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Warrantor: General Electric Company. Louisville, KY 40225

NOTES

Consumer Support.

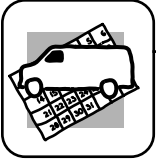


GE Appliances Website

In the U.S.: www.GEAppliances.com

Have a question or need assistance with your appliance? Try the GE Appliances Website 24 hours a day, any day of the year! For greater convenience and faster service, you can now download Owner's Manuals, order parts, catalogs, or even schedule service on-line. You can also "Ask Our Team of Experts™" your questions, and so much more...

In Canada: www.geappliances.ca



Schedule Service

In the U.S.: www.GEAppliances.com

Expert GE repair service is only one step away from your door. Get on-line and schedule your service at your convenience 24 hours any day of the year! Or call 800.GE.CARES (800.432.2737) during normal business hours.

In Canada, call 1.800.361.3400



Real Life Design Studio

In the U.S.: www.GEAppliances.com

GE supports the Universal Design concept—products, services and environments that can be used by people of all ages, sizes and capabilities. We recognize the need to design for a wide range of physical and mental abilities and impairments. For details of GE's Universal Design applications, including kitchen design ideas for people with disabilities, check out our Website today. For the hearing impaired, please call 800.TDD.GEAC (800.833.4322).

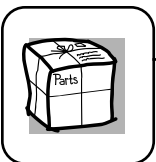
In Canada, contact: Manager, Consumer Relations, Camco, Inc.
Suite 310, 1 Factory Lane
Moncton, N.B. E1C 9M3



Extended Warranties

In the U.S.: www.GEAppliances.com

Purchase a GE extended warranty and learn about special discounts that are available while your warranty is still in effect. You can purchase it on-line anytime, or call 800.626.2224 during normal business hours. GE Consumer Home Services will still be there after your warranty expires. **In Canada,** call 1.888.261.2133



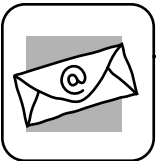
Parts and Accessories

In the U.S.: www.GEAppliances.com

Individuals qualified to service their own appliances can have parts or accessories sent directly to their homes (VISA, MasterCard and Discover cards are accepted). Order on-line today, 24 hours every day or by phone at 800.626.2002 during normal business hours.

Instructions contained in this manual cover procedures to be performed by any user. Other servicing generally should be referred to qualified service personnel. Caution must be exercised, since improper servicing may cause unsafe operation.

Customers **in Canada** should consult the yellow pages for the nearest Camco service center, or call 1.888.261.3055.



Contact Us

In the U.S.: www.GEAppliances.com

If you are not satisfied with the service you receive from GE, contact us on our Website with all the details including your phone number, or write to:

General Manager, Customer Relations
GE Appliances, Appliance Park
Louisville, KY 40225

In Canada: www.geappliances.ca, or write to: Director, Consumer Relations, Camco, Inc.
Suite 310, 1 Factory Lane
Moncton, N.B. E1C 9M3



Register Your Appliance

In the U.S.: www.GEAppliances.com

Register your new appliance on-line—at your convenience! Timely product registration will allow for enhanced communication and prompt service under the terms of your warranty, should the need arise. You may also mail in the pre-printed registration card included in the packing material, or detach and use the form in this Owner's Manual.

In Canada: www.geappliances.ca