

Choosing the best GFX for your project

1. Do the residents take mostly showers?
2. Is there a basement or are there two or more stories? A home or building with a crawl space or slab on grade can still use GFX but a pumping system must be employed. Call us at 1-800-445-7511 for design and specification sheet.
3. How deep is the municipal sewer in the street or septic system's tank on the property?
4. Can the sewage line or septic system be installed lower to economically accommodate the 34" of vertical space needed for a 30" high GFX? See sizing below.
5. How deep is the sewer line going out under the house or building?
6. Is the drain stack servicing the most used shower(s) and hot water using fixtures exposed or accessible?
7. Is there ample vertical height available for the GFX? Must be at least 34", or 4" taller than the length of the unit desired, to accommodate all fittings?
8. What is the diameter of the drainpipe? Most likely, 3" or 4" nominal. 2" also available.
9. What is the diameter of the cold water supply? Probably 1/2" or 3/4" nominal.
10. Is the drainpipe close to the cold water supply and/or the water heater? In either case, use an S model, with 3/4" supply connections, which is required for equal or balanced flow. Most tank water heaters have a 3/4" supply, so an S model is best to provide the volume desired. If drainpipe is close to the shower only, use a G model, with 1/2" connections, and preheat only the cold water supply to the shower.

Model number nomenclature. XX-XX

First X

X = G - single coil - 1/2" nominal cold-water connections top (output) and bottom (input).

Or

X = S - two coils manifolded together - 3/4" nominal cold-water connection top (output) and bottom (input). Other coil configurations are available

Second X

Drain-waste-vent (DWV) line size X = 2", 3", or 4" diameter. 6" dia. is also available.

Third and fourth - XX

Vertical height of GFX unit XX = 20", 24", 30", 40", 48" or 60".

Tools and Other Materials:

1. Hand saw, pipe cutter, or if waste line pipe is cast iron then chain link type pipe cutter is needed.
2. (2) No-hub connectors. Use Fernco #3001 or equal. Must meet local code.
3. Copper or plastic fittings and pipe to attach cold water to GFX and back.
4. If copper, propane torch, solder, flux, pipe cutter, steel wool.
5. If plastic, pipe cleaner, glue primer, glue, and proper fittings or connectors.
6. Flat head screw and nut driver for pipe clamps.
7. Bubble type level, at least two feet long.
8. Tape measure and 24" level.
9. Strapping or other clamping system to hang or secure GFX in vertical position.
10. See installation guide.

**SHOWER
& BATH
92.4 GPD
(30%)**

**FAUCETS
BATHROOM
& KITCHEN
36.8 GPD
(12%)**

**TOILETS
86.4 GPD
(28%)**

**DISHWASHER
9.2 GPD
(3%)**

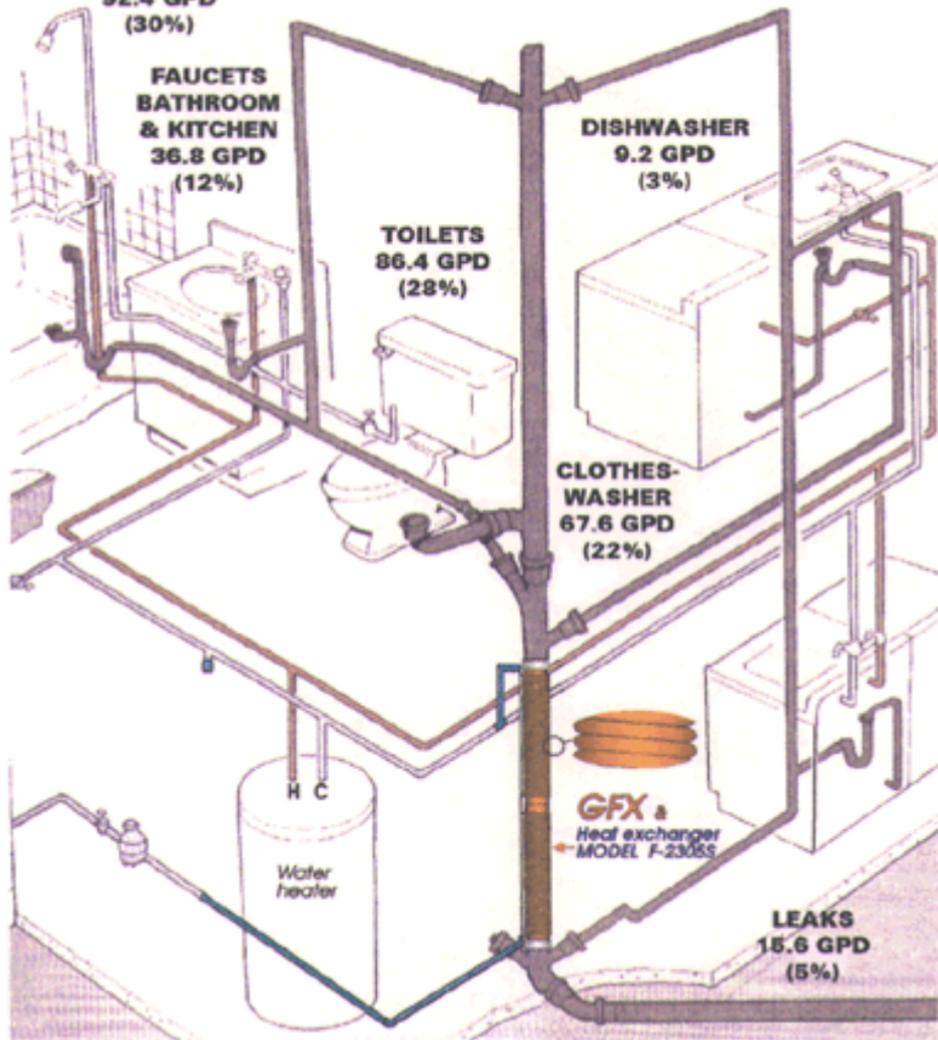
**CLOTHES-
WASHER
67.6 GPD
(22%)**

H C

Water
heater

GFX
Heat exchanger
MODEL F-2308S

**LEAKS
15.6 GPD
(5%)**



GFX Installation Guide

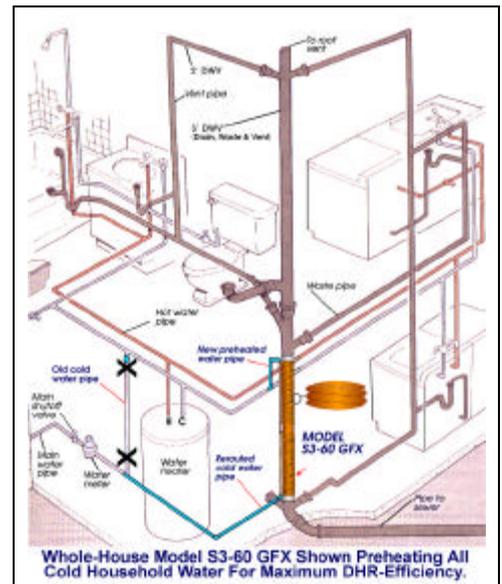
Please read these instructions carefully and completely before installing GFX.

Caution:

1. GFX installation should only be attempted by qualified persons familiar with plumbing/construction procedures, codes and specialty tools.
2. GFX is not sold with fittings, couplings or connectors, which are the responsibility of the installer as determined by on-site conditions.
3. Be sure no one uses the plumbing system until after the installation is complete on remodeling and renovation projects.
4. GFX may be installed on the second floor, first floor, crawl space and basement - virtually anywhere there is access to a sufficiently tall section of **VERTICAL** waste pipe having waste hot water flowing through it along with access to a cold water supply line. GFX may be installed in more than one location, as on-site conditions may allow. For best results, install at exit of main drain line.

Waste Pipe:

1. The Figure at the right shows the simplest and most efficient installation. As note above, Whole-House Models S3-60 or S4-60 can be installed in a wall to service upstairs showers and sinks, which often use most of the hot water in homes where clothes are routinely washed in cold water to conserve energy.
2. GFX must be installed in a **VERTICAL** (90 degrees) section of water pipe. Horizontal or diagonal positions are not effective. Shim as necessary when complete.
3. Determine the waste pipe diameter of the existing pipe. GFX must be equal or greater than the existing pipe diameter. Either end of GFX may be positioned up.
4. Properly support vertical waste pipe from top and bottom before cutting and removal. Measure, remove and replace a vertical section of the existing waste pipe being careful to allow enough clearance for connecting fittings and GFX. Deburr exposed pipe ends.
5. The couplings "Fernco #3001 or equal" used for connecting GFX into the existing waste system may vary depending on the type of existing waste pipe and any particular on-site conditions.



Water Pipe:

1. Install appropriate plumbing fittings on both ends of GFX coil that will be used to connect the GFX coil to the cold water supply.
2. Turn off the cold water supply and drain the water from the line.
3. Connect the **INCOMING** cold water to the **BOTTOM** port of the GFX coil.
4. Connect the **OUTGOING** pre-warmed water supply to the **TOP** port of GFX.
5. The placement and installation of shut off, drain or bypass valves and clean out traps, while not necessary for the installation of GFX, are determined by applicable state and local codes and are the responsibility of the installer.

The GFX is U.L. (# MH26850) listed as a double wall vented plumbing device. CSI Division 15700-Heat Transfer, sub-division 15755 and/or 15780 Energy Recovery.

Insulate all pipes (both waste and supply) and your GFX as desired to minimize heat loss, improve energy recovery efficiency, reduce noise, and help prevent freezing.