

Slant/Fin
GALAXY™
High performance gas boilers



HOT WATER AND STEAM
NATURAL AND
L.P. PROPANE GASES

Slant/Fin GALAXY™

Cast-iron boilers

Slant/Fin's Galaxy is one of America's most trusted gas boilers. Installed in tens of thousands of homes, Galaxy is the choice of experienced heating professionals everywhere. For homeowners, it's the wise choice for long-term efficiency and reliability.

Fuel saving performance with traditional cast-iron boiler design

We've fine tuned natural draft cast-iron boiler technology to its most advanced state. With AFUE ratings to 84.78%, Galaxy keeps fuel costs low. It doesn't rely on complex technologies or exotic materials for its efficiency, so there's less to pay for now and less to go wrong. While other boilers become subject to performance and breakdown problems over the years, you can count on Galaxy for efficient, trouble-free performance.

Lifetime Limited Warranty

Galaxy water boilers are so reliable they come with a lifetime limited warranty. Steam models have a 10-year limited warranty.



**LIFETIME
LIMITED
WARRANTY**



Galaxy's handsome extended jacket conceals controls, wires and gas valve, giving the boiler a neat, clean appearance. Baked enamel finish harmonizes nicely with the decor of a finished basement.

Versatility to meet your home's unique heating needs

- Sizes from 75,000 to 399,000 Btuh
- Hot water and steam models
- Standing pilot or intermittent pilot
- Natural gas or propane
- Tankless heater optional
- Low profile steam models available



GG SERIES

Hot water models
External draft hood



GX-GXH SERIES

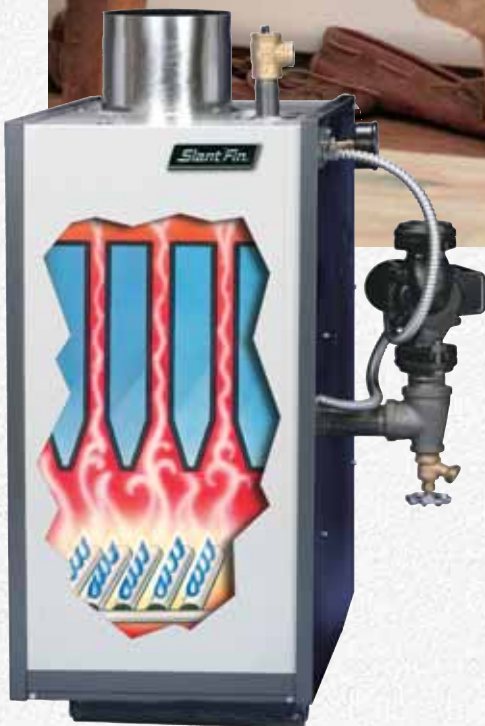
Hot water with tankless coil
Steam with tankless coil optional
External draft hood



GXHA SERIES

Steam with tankless coil optional
Integral draft diverter

A boiler is an important investment in your home.



Advanced Design Heat Exchanger

The advanced design of Galaxy's heat exchanger maximizes the transfer of heat from the gas flame to the water in your heating system.

Specially tapered thermal pins in the heat exchanger system are shaped to ensure that the hot combustion gases "lick" each and every surface. The flue passage design and thermal pin pattern ensure uniform heat transfer, reducing thermal strain and prolonging the life of the casting.



Slant/Fin GALAXY™

Built for superb performance
and long life.

Each Galaxy boiler is tested in our factory, not in your basement.

We test individual Galaxy boiler sections under pressure of up to 250 p.s.i. (at least 20 times the normal residential operating pressure). Repetitive testing of individual sections, assembled heat exchanger and completed boiler ensure the leak-free integrity of every boiler shipped. Plus, complete testing of the electrical system, valves, wiring and accessories all add to Galaxy's high reliability.

Fast, simple installation. Easy maintenance.

Your Slant/Fin heating contractor can install a new Galaxy boiler in about a day. Packaged hot water models come fully pre-wired and pre-set. For easy access, the front panel goes on and off in seconds. Burners, controls, pilot, combination gas valve and circulator are all mounted and easily within reach from the front of the boiler. On PZ steam models, the convenient speed skimmer trough makes skimming easy for the installer or homeowner.

GALAXY STEAM MODELS

Galaxy steam models are the industry's best solution to system noise and boiler maintenance problems. Galaxy is an ideal replacement boiler for an old steam heating system or for new steam heat jobs. High efficiency models, with intermittent pilot and vent damper, are also among the most efficient steam boilers you can buy. There are 29 Galaxy steam models, with choice of standing pilot or intermittent pilot ignition, all with tank-less heater optional. An external draft hood is shipped with each GX and GXH model.

Larger tapings, dry steam.

The Galaxy produces dry steam and delivers it to the system through a 2½" supply tapping. This ensures lower steam velocity and reduces the incidence of water in the mains, resulting in quieter system operation.

Speed skimmer trough.

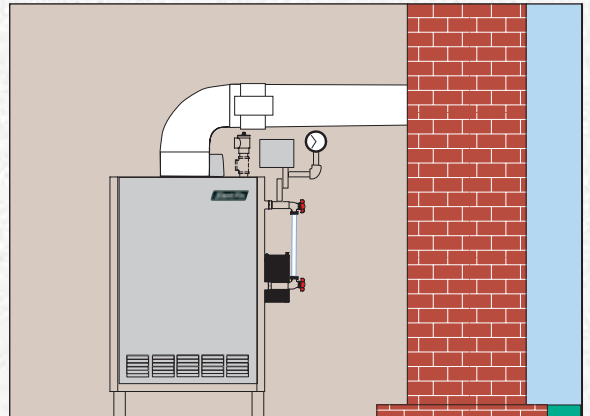
In any steam boiler installation, it's important that the water is kept free from dirt and contaminants that can cause surging and noise. With ordinary steam boilers, elimination of these contaminants is a cumbersome and time-consuming problem. With the speed skimmer trough built into Galaxy "PZ" steam boilers, skimming time and efforts are reduced dramatically. Surface films of grease, oil and other contaminants cascade into the trough and are discharged through an ordinary ¾" drain cock. It makes skimming as easy as turning a faucet.

Low profile GXHA models.

Galaxy GXHA steam models do not require an external draft hood. A built-in integral draft diverter on the four GXHA models reduce clearance requirements above the boiler to 18", making them ideal for use in locations with low chimney breaching or with overhead obstructions.



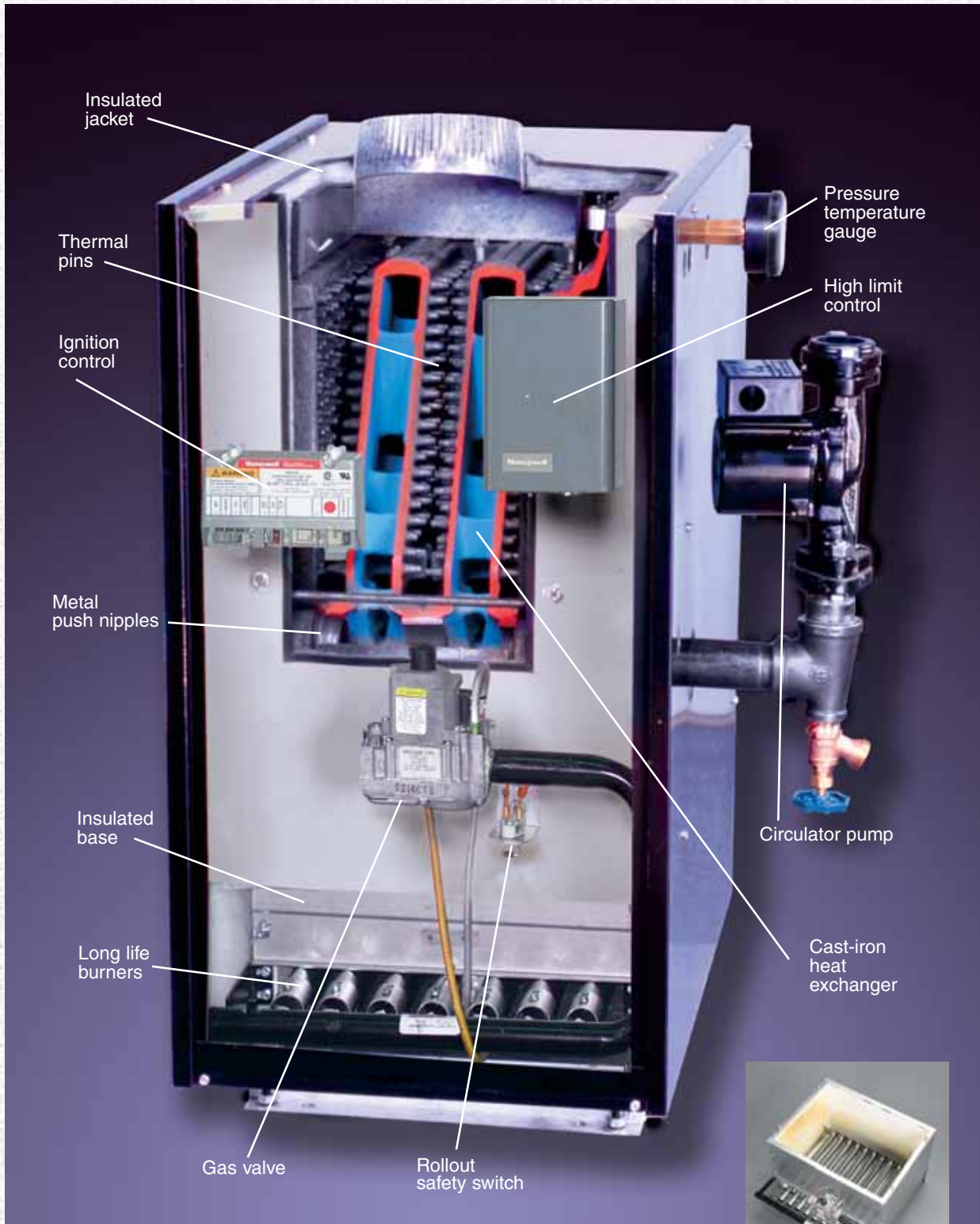
Repetitive testing ensures the leak-free integrity of every Galaxy boiler shipped.



Clearance requirements of just 18" above the boiler make the GXHA steam model ideal for tight installations.



Speed skimmer trough reduces cleaning time dramatically.



Automatic, motorized vent damper.

Increases efficiency of boiler by reducing standby losses. Motor closes the chimney vent when the burner is off, fully opens it in anticipation of combustion. An interlock prevents burner operation unless the damper is in an open position.



Long-life burners.

Stainless steel burners are quiet, lightweight, long lasting and easy to install or remove. Special port construction will not permit flame to "lift" or flash back.



Energy saving intermittent pilot.*

When thermostat calls for heat, solid state igniter sparks to light pilot. Sensor reads pilot flame and opens main gas valve. Factory installed. Polarized receptacle provided for quick connect to vent damper.
 * Some codes may require an intermittent ignition device. Please order accordingly.



Insulated base.

Base is constructed of heavy gauge aluminized steel. Thick refractory type insulation surrounds combustion chamber, minimizing standby losses and increasing efficiency.

Metal push nipples.

All cast-iron boilers are made with multiple sections that are joined together. Slant/Fin uses only metal push nipples that expand and contract with the individual boiler sections that they connect. The rubber gaskets that are substituted for push nipples in many other boilers could deteriorate. This results in water leaking from the boiler and major repair bills.



RATINGS - NATURAL AND L.P. PROPANE GAS

GG SERIES Hot Water Model

MODEL NUMBER ±	RATINGS FOR WATER		NET I=B=R RATING WATER (Btuh)*	WATER (Sq.Ft.)
	A.G.A. INPUT (Btuh)	D.O.E. CAPACITY (Btuh)		
GG-75H	75,000	64,000	56,000	371.3
GG-100H	100,000	83,000	72,000	481.3
GG-125H	125,000	103,000	90,000	597.3
GG-150H	150,000	125,000	109,000	742.6
GG-175H	175,000	145,000	126,000	840.6
GG-200H	200,000	167,000	145,000	968.0
GG-225H	225,000	186,000	162,000	1078.0
GG-250H	250,000	209,000	182,000	1211.3

MODEL NUMBER †	RATINGS FOR WATER		NET I=B=R RATING WATER (Btuh)*	WATER (Sq.Ft.)
	A.G.A. INPUT (Btuh)	D.O.E. CAPACITY (Btuh)		
GG-275H	275,000	228,000	198,000	1322.0
GG-300	300,000	240,000 **	209,000	1390.0
GG-325	325,000	260,000 **	226,000	1510.0
GG-350	350,000	280,000 **	243,000	1620.0
GG-350H	350,000	291,000 **	253,000	1684.0
GG-375	375,000	300,000 **	261,000	1740.0
GG-375H	375,000	304,000 **	264,000	1760.0
GG-399H	399,000	327,000 **	284,000	1893.3

GX and GXH Hot Water Models (tankless heaters) GX, GXH and GXHA Low Pressure Steam Models (optional tankless heater)

MODEL NUMBER †	RATINGS STEAM OR WATER			WATER (Sq.Ft.)	NET I=B=R*			TANKLESS HEATER CAPACITY (G.P.M.)‡
	A.G.A. INPUT (Btuh)	D.O.E. CAPACITY WATER (Btuh)	D.O.E. CAPACITY STEAM (Btuh)		WATER (Btuh)	STEAM (Btuh)	STEAM (Sq.Ft.)	
GXHA-100	100,000	—	81,000	—	61,000	254	2 1/2	
GXH-105	105,000	86,000	86,000	495	75,000	271	2 1/2	
GXHA-120	120,000	—	97,000	—	—	304	3	
GXH-125	126,000	104,000	104,000	600	90,000	325	3	
GXH-150	147,000	120,000	120,000	695	104,000	375	3 1/4	
GXHA-160	160,000	—	130,000	—	—	408	3 1/2	
GXH-170	168,000	137,000	137,000	795	119,000	429	3 1/2	
GXH-190	189,000	155,000	155,000	895	135,000	483	3 3/4	
GXHA-200	200,000	—	163,000	—	—	508	4	
GXH-210	210,000	172,000	172,000	995	150,000	538	4	
GX-225	225,000	184,000	179,000	1065	160,000	560	4	
GXH-230	231,000	189,000	189,000	1095	164,000	591	4 1/4	
GX-250	250,000	204,000	198,000	1180	177,400	620	4 1/2	
GXH-250	252,000	206,000	206,000	1195	179,000	646	4 1/2	
GXH-275	273,000	223,000	223,000	1290	194,000	696	5	
GXH-300	300,000	240,000 **	240,000 **	1395	209,000	750	5 1/2	
GXH-300H§	300,000	243,000 **	243,000 **	1405	211,000	758	5 1/2	

GALAXY DOE SEASONAL EFFICIENCY (AFUE)*	
MODEL	EFFICIENCY
GG-75 HED	84.78%
GG-100 HED	82.78%
GG-125 HED	82.39%
GG-150 HED	82.98%
GG-175 HED	82.45%
GG-200 HED	83.19%
GG-225 HED	82.51%
GG-250 HED	83.40%
GG-275 HED	82.57%
GXH-105 ED	81.00
GXH-125 ED	81.00
GXH-150 ED	81.14
GXH-170 ED	81.14
GXH-190 ED	81.14
GXH-210 ED	81.17
GX-225 ED	81.30
GXH-230 ED	81.21
GX-250 ED	80.70
GXH-250 ED	81.24
GXH-275 ED	81.28
GXHA-100 ED	81.00
GXHA-120 ED	81.20
GXHA-160 ED	81.20
GXHA-200 ED	81.30

± GG models: Add suffix "S" for standard water boiler, "P" for packaged water boiler. Add suffix "E" for intermittent pilot ignition system (available only with 24 volt gas valve). Type of gas: After model number, specify gas by name "Natural" or "Propane"

* Net ratings are based on a piping and pick-up allowance of 1.33 (steam) and 1.15 (hot water). Slant/Fin should be consulted before selecting a boiler for installation having unusual piping and pick-up requirements. Ratings must be reduced by 4% at 2,000 feet elevation and an additional 4% for every additional 1,000 feet elevation over 2,000 feet.

† GXH and GX models: Add suffix "PT" for standard water boiler with tankless heater, "PZ" for steam boiler, "PZT" for packaged steam boiler with tankless heater. Add suffix "E" for intermittent pilot ignition system (available only with 24 volt gas valve). Type of gas: After model number, specify gas by name "Natural" or "Propane".

** CSA output rating (Btuh).

§ Ratings for GXH-300H are for natural gas only.

‡ Tankless heater ratings based on intermittent draw.

NOTE: All boilers under 300,000 Btu input are tested and rated for capacity under the U.S. Dept. of Energy (D.O.E.) Test Procedure for boilers.

* Includes intermittent pilot and vent damper. Annual Fuel Utilization Efficiency based on constant circulation for hot water models.

equipment

ALL MODELS include pre-assembled heat exchanger; base; flue collector; gas burners; gas orifices and manifold assembly; combination gas valve including manual shut-off, pressure regulator, pilot adj., automatic pilot-thermocouple safety; pressure relief valve (ASME); draft hood (integral draft diverter in GXHA models); blocked vent safety switch; rollout safety switch; pre-assembled insulated semi-extended jacket (extended as shown); automatic vent damper (except GG-300 through GG-399 and GXH-300).

BASIC WATER BOILER (SUFFIX S) includes all equipment listed for ALL MODELS, plus built-in air eliminator; hi limit control; pressure and temperature gauge.

PACKAGED WATER BOILER (SUFFIX P) includes all equipment listed for ALL MODELS and for model S, plus 2-way combination control (hi limit and circulator relay), instead of hi limit control; circulator; drain cock.

PACKAGED WATER BOILER WITH TANKLESS HEATER (SUFFIX PT) includes all

equipment listed for ALL MODELS, plus built-in air eliminator; pressure and temperature gauge; circulator; drain cock; 3-way combination control (hi-limit, circulator relay and lo-limit with differential); tankless heater.

PACKAGED STEAM BOILER (SUFFIX PZ) includes all equipment listed for ALL MODELS, plus steam pressure limit control with siphon; pressure gauge; low water cutoff and water level sight glass (unmounted); drain cock, transformer and junction box.

PACKAGED STEAM BOILER WITH TANKLESS HEATER (SUFFIX PZT) includes all equipment listed for ALL MODELS and for model PZ, plus tankless heater instead of cover plate; low limit control.

OPTIONAL EQUIPMENT Room thermostat. Air package consisting of diaphragm expansion tank, fill and pressure reducing valve, and automatic air vent. Combustible floor kit. Intermittent pilot ignition system.

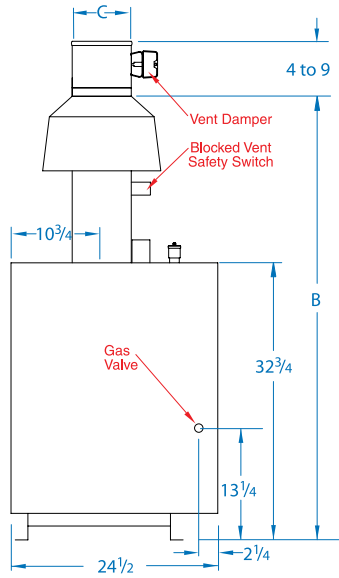
Before purchasing this appliance read important energy costs and efficiency information available from your contractor.



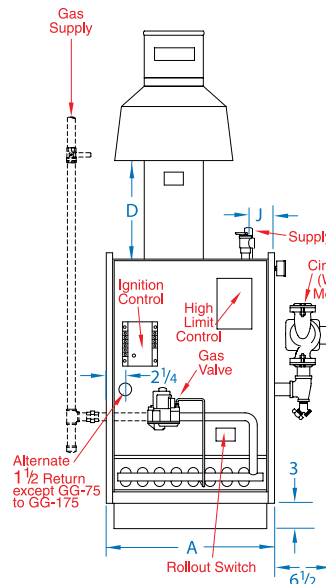
THE HYDRONICS INSTITUTE

Certified Ratings

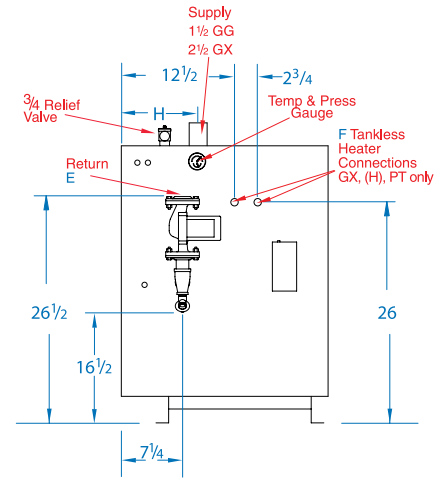




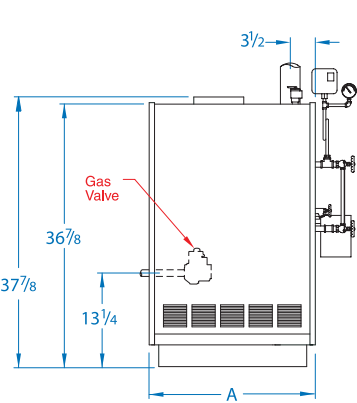
LEFT SIDE VIEW
All GG and GX(H)



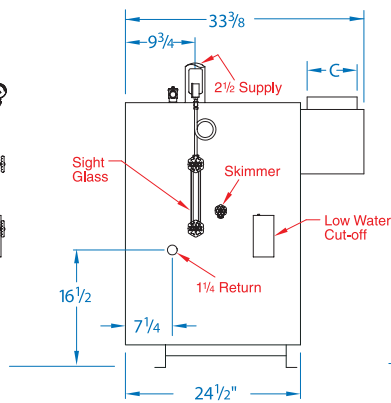
FRONT VIEW
GG and GX(H)
Water Models



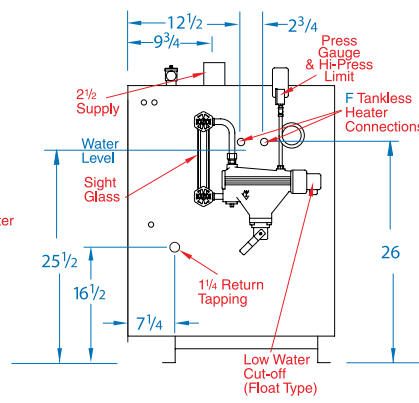
RIGHT SIDE VIEW
GG and GX(H) PT
Water Models



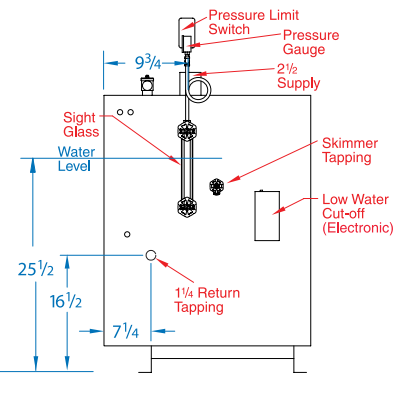
FRONT VIEW
GXHA
Steam Boiler



RIGHT SIDE VIEW
GXHA
Steam Boiler



RIGHT SIDE VIEW
GX(H) PZT, PPZT
Steam Models



RIGHT SIDE VIEW
GX(H) PZ
Steam Models

DIMENSIONS INCHES	MODEL GG SERIES — HOT WATER														
	GG-75H	GG-100H	GG-125H	GG-150H	GG-175H	GG-200H	GG-225H	GG-250H	GG-275H	GG-300	GG-325	GG-350	GG-350H	GG-375H	GG-399H
A JACKET WIDTH	13 ⁹ / ₁₆	13 ³ / ₁₆	13 ³ / ₁₆	16 ⁹ / ₁₆	16 ⁹ / ₁₆	19 ¹⁵ / ₁₆	19 ¹⁵ / ₁₆	23 ⁵ / ₁₆	23 ⁵ / ₁₆	26 ¹¹ / ₁₆	26 ¹¹ / ₁₆	30 ¹ / ₁₆	30 ¹ / ₁₆	30 ¹ / ₁₆	30 ¹ / ₁₆
B DRAFT HOOD HEIGHT	46 ³ / ₈	53 ¹ / ₄	53 ¹ / ₄	53 ¹ / ₄	53 ¹ / ₄	57 ¹ / ₂	57 ¹ / ₂	59 ⁵ / ₈	59 ⁵ / ₈	59 ⁵ / ₈	59 ⁵ / ₈	66 ¹ / ₈	66 ¹ / ₈	59 ⁵ / ₈	62 ⁵ / ₈
C FLUE COLLAR DIAMETER	5	6	6	6	6	7	7	8	8	8	8	9	9	10	10
D JACKET TOP TO DRAFT HOOD	6 ³ / ₄	13	13	13	13	16	16	17	17	17	17	22 ¹ / ₂	22 ¹ / ₂	15	18
E CIRCULATOR RETURN FLANGE	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂
G RIGHT SIDE TO SUPPLY †	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄	2 ³ / ₄
H FRONT TO SUPPLY ‡	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄	9 ¹ / ₄

GAS VALVE CONNECTION—Size is 1/2" f.p.t. for all models, except GG-250 and larger, which are 3/4" f.p.t.

DIMENSIONS INCHES	MODEL GX and GXH SERIES											MODEL GXHA SERIES				
	HOT WATER WITH TANKLESS HEATER — LOW PRESSURE STEAM WITH OPTIONAL TANKLESS HEATER											LOW PRESSURE STEAM WITH OPTIONAL TANKLESS HEATER				
	GXH-105	GXH-125	GXH-150	GXH-170	GXH-190	GXH-210	GX-225	GXH-230	GX-250	GXH-250	GXH-275	GXH-300H	GXHA-100	GXHA-120	GXHA-160	GXHA-200
A JACKET WIDTH	16 ⁹ / ₁₆	16 ⁹ / ₁₆	19 ¹⁵ / ₁₆	19 ¹⁵ / ₁₆	19 ¹⁵ / ₁₆	23 ⁵ / ₁₆	23 ⁵ / ₁₆	23 ⁵ / ₁₆	23 ⁵ / ₁₆	26 ¹ / ₁₆	26 ¹ / ₁₆	26 ¹ / ₁₆	16 ¹ / ₂	16 ¹ / ₂	20	23 ¹ / ₄
B DRAFT HOOD HEIGHT	46 ⁵ / ₈	53 ¹ / ₄	55 ¹ / ₂	55 ¹ / ₂	55 ¹ / ₂	55 ¹ / ₂	56 ⁵ / ₈	55 ¹ / ₂	56 ⁵ / ₈	55 ¹ / ₂	55 ¹ / ₂	59 ¹ / ₈	—	—	—	—
C FLUE COLLAR DIAMETER	5	6	7	7	7	7	8	7	8	7	7	9	5	5	6	7
D JACKET TOP TO DRAFT HOOD	6 ³ / ₄	13	14	14	14	14	14	14	14	14	14	15	—	—	—	—
E CIRCULATOR RETURN FLANGE	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	—	—	—	—
F TANKLESS COIL CONNECTIONS	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1/2	1/2	1/2	3/4
G RIGHT SIDE TO SUPPLY †	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂	3 ¹ / ₂
H FRONT TO SUPPLY ‡	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄	9 ³ / ₄

GAS VALVE CONNECTION—Size is 1/2" f.p.t. for all models, except GXH-230 and larger, which are 3/4" f.p.t.

VENT TAPPING: 1/2" for all water models.

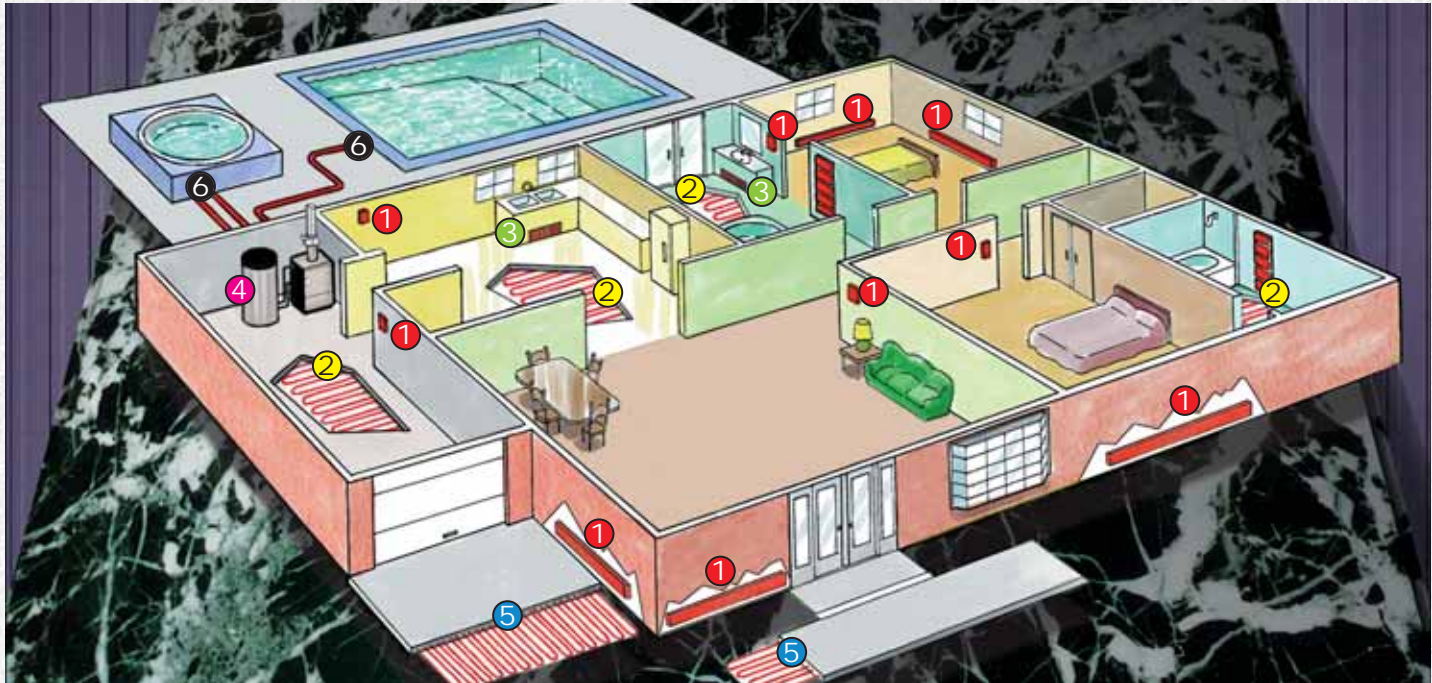
† Standing pilot.

‡ Crates for all models are 30" wide, 38" high, depth 30" (GG-75 through GG-225) and (GXH-105 through GXH-190), 38" (GG-250 through GG-399), 40-1/4" (GXH-210 through GXH-300).

Make your house a more comfortable home

With a Galaxy boiler at the heart of your heating system, you can enjoy deluxe heating comfort all around your home. A Galaxy boiler can be installed to provide heating energy for any or all these hydronic heating systems:

- 1 Zone heating with Slant/Fin hot water baseboard and individual room temperature controls.
- 2 Warm floors with Terra Thermo radiant heating by Slant/Fin.
- 3 Slant/Fin hot water fan-convection heaters under cabinets or stairs.
- 4 Hot water with a high volume Slant/Fin indirect-fired water heater.
- 5 Snow melting for driveway and sidewalks with Terra Thermo radiant tubing.
- 6 Pool or spa water heating with a Slant/Fin boiler and external heat exchanger.



Zone your heating system for even greater fuel savings. By dividing your home into separate heating zones, you can save energy by heating only those areas you're using. Depending on your existing piping arrangement, it may be quite simple to zone your system.

Galaxy can provide hot water for your kitchen, bath and laundry.

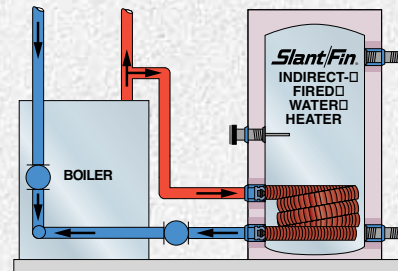
Optional tankless heater. This coil type "instant" hot water maker is located inside the boiler where the constant flow of hot boiler water heats your fresh water as it passes through the coil. Recovery is fast and the total capacity will vary with the boiler size. Available on GX Series hot water or steam boilers.



Stainless steel bolts on the cover plate won't rust or break off when servicing the tankless heater.

Indirect-fired water heaters

If you prefer to have a larger reserve of hot water, your installer can provide a Slant/Fin Model WH indirect-fired water heater. It's connected just like a heating zone to the Galaxy boiler and will store between 30 and 80 gallons of hot water. Tapping the boiler's heating capacity, the Slant/Fin water heater offers far better efficiency, faster recovery and longer life than an ordinary direct-fired water heater. The 40 gallon model, for instance, delivers 195 gallons of hot water per hour!



Typical indirect water heater system.