

GF801D SERIES
Models with Input Rates from
50 to 150 kBTU
[15 to 44 kW]
(U.S. & Canadian Models)



80% A.F.U.E.[†] DOWNFLOW GAS FURNACES

The $Sure\ Comfort^{\intercal}$ line of downflow gas furnaces is designed for installation in closets, alcoves, utility rooms, or attics. The design is certified by CSA International.

Features

- Innovative design results in reliable, efficient operation at sound levels which provide distinct competitive advantage.
- Patented heat exchanger, constructed of both stainless and aluminized steel for the maximum in corrosion resistance.
- Low profile "34 inch" [864 mm] design is lighter and easier to handle, and leaves room for optional equipment.
- Left or right side gas and electric inlet connections with quick, simple change.
- Direct Spark ignition.
- Integrated board with humidifier and electronic air cleaner hookups.
- Pre-paint galvanized steel cabinet.
- Grab-holes in doors to aid in easy door removal and replacement.

A variety of cooling coils and plenums designed to use with $Sure\ Comfort^{TM}$ gas furnaces are available as optional accessories.

†A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.









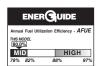
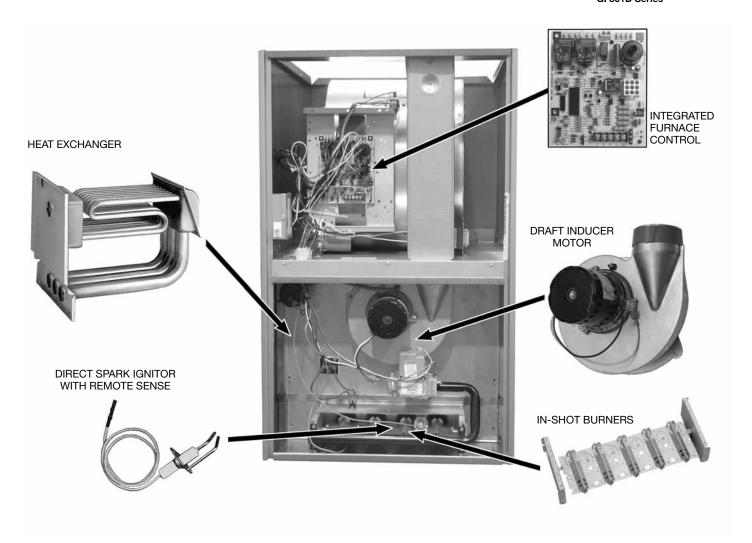


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STANDARD EQUIPMENT

Completely assembled and wired; induced draft; pressure switch; redundant main gas control; blower compartment door safety switch; solid state time on/time off blower control; limit control; manual shut-off valve, pressure regulator for natural and L.P. (propane) gas; transformer; direct drive multi-speed blower motor. Furnaces are equipped with cooling/heating relay and transformer (40VA) ready for air conditioning applications. (Please note: a thermostat is not included as standard equipment.) Flame sensor diagnostics; on-board twinning; fused-protection (secondary), 3rd speed option for continuous fan; common heat/cool terminal.

OPTIONAL EQUIPMENT

NOTE: Furnace is not listed for use with fuels other than natural or L.P. (propane) gas.

The complete terms of limited and other warranties are available at our sales office, or through local installer.

All models can be converted by a qualified *Sure Comfort*TM distributor or local service dealer to use L.P. (propane) gas without changing burners. Factory approved kits must be used to convert from natural to L.P. (propane) gas and may be ordered as optional accessories from a *Sure Comfort*TM parts distributor.

For L.P. (propane) operation, refer to Conversion Kit Index Form.

NOTE: For natural and L.P. (propane) gas models, direct spark ignition is 100% lockout type.

WARNING

THIS FURNACE IS NOT APPROVED
OR RECOMMENDED
FOR USE IN MOBILE HOMES

Model Features

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- Left or right side gas and electric inlet connections with quick, simple change.
- · Direct Spark ignition.
- Integrated board with humidifier and electronic air cleaner hookups.
- Pre-paint galvanized steel cabinet.
- Grab-holes in doors to aid in easy door removal and replacement.

Physical Data and Specifications U.S. and Canadian Models

MODEL NUMBERS GF801D	GF801D050	GF801D075	GF801D100	GF801D125
Input-BTU/Hr [kW] ②	50,000 [15]	75,000 [22]	100,000 [29.3]	125,000 [36.6]
Heating Capacity BTU/Hr [kW] ①	41,000 [12]	60,500 [18]	80,000 [23]	99,000 [29]
High Altitude Input [kW]	45,000 [13]	67,500 [19.8]	90,000 [26.4]	112,500 [33]
High Altitude Output Capacity [kW]	36,500 [10.7]	54,000 [15.8]	72,000 [21.1]	89,000 [26.1]
Heat Ext. Static Pressure [kPa]	.10 [.025]	.12 [.029]	.15 [.037]	.20 [.05]
Blower (D x W) [mm]	11 x 6 [279 x 152]	11 x 6 [279 x 152]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Motor H.P. [W]–Speeds [W]– PSC Type	¹ / ₂ -4-PSC [373]	¹ /2-3-PSC [373]	¹ / ₂ -3-PSC [373]	³ /4-3-PSC [559]
Motor Full Load Amps	6.8	5.8	7.9	9.5
Heating Speed	LOW	MEDIUM	MED	LOW
Cooling Speed	HIGH	HIGH	HIGH	HIGH
Cooling CFM @ .5" [kPa] E.S.P. (Nominal) [L/s]	1200 [566]	1200 [566]	2000 [944]	2000 [944]
Rated E.S.P. (In. W.C.) [kPa]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]
Temperature Rise Range °F [°C]	25-55 [13.9-30.6]	30-60 [16.7-33.3]	40-70 [22.2-38.9]	40-70 [22.2-38.9]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	165 [73.9]	190 [87.8]	180 [82.2]
Standard Filter [mm]	(1) 14 x 20 [356 x 508]	(2) 12 x 20 [305 x 508]	(2) 12 x 20 [305 x 508]	(2) 14 x 20 [356 x 508]
Approx. Shipping Weight (Lbs.) [kg]	85 [38.6]	105 [47.6]	120 [54.4]	140 [63.5]
AFUE-Electric Ignition Models ①	80%	80%	80%	80%

NOTES: All models are 115V, 60HZ, $1\emptyset$. Gas connection size for all models is 1/2" N.P.T.

 $[\]ensuremath{\textcircled{1}}$ In accordance with D.O.E. test procedures.

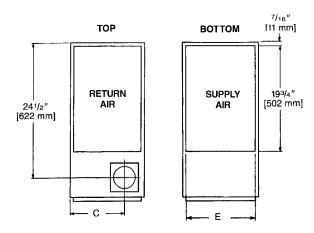
② See Conversion Kit Index Form for high altitude derate in U.S. applications. For Canadian applications, reference the furnace installation instructions.

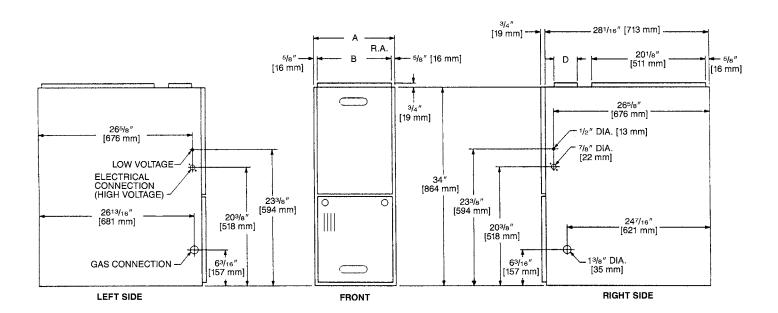
Model Number Identification—Downflow Models

<u>GF</u>	<u>80</u>	<u>1</u>	<u>D</u>	<u>125</u>	<u>A</u>	<u>s</u>	<u>60</u>
Gas Furnace	80 = Efficiency	1 = 1 Stage	D = Downflow	Models Input BTU/HR [kW] 050 50,000 [15] 075 75,000 [22] 100 100,000 [28] 125 125,000 [37]	A = Variations	Variation S = Standard W = Wide	Nominal Cooling Designation 36 = 3 Tons 48 = 4 Tons 60 = 5 Tons

^[] Designates Metric Conversions

Downflow Dimensions





Dimensions and Clearance to Combustible Material (inches) [mm]

MODEL						REDUCED CLEARANCES (IN.) [mm]						
GF801D SERIES	A	В	С	D	E	LEFT SIDE	RIGHT SIDE	ВАСК	ТОР	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]
050	14 [356]	12 ²⁷ / ₃₂ [326]	103/8 [264]	1	131/8 [333]	0	4 ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
075	171/2 [445]	1611/32 [415]	121/8 [308]	1	165/8 [422]	0	3 ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
100	21 [533]	19 ²⁷ / ₃₂ [504]	137/8 [352]	1	201/8 [511]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
125	241/2 [622]	2311/32 [593]	155/8 [397]	1	235/8 [600]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]

NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and/or Can/CGA-B149 Installation Codes and in accordance with local codes.

② May be 0" [0 mm] with type B vent.

³ May be 1" [25 mm] with type B vent.

Blower Performance Data—Downflow Models

MODEL NUMBER GF801D	BLOWER SIZE	MOTOR H.P.	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN							IWER EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN						
SERIES	[mm]	[W]	SPEED	.1 [.02]	.2 [.05]	.3 [.07]	.4 [.10]	.5 [.12]	.6 [.15]	.7 [.17]							
GF801D050	11 x 6 [279 x 152]	1/2 [373]	LOW MED-LO MED-HI HIGH	735 [347] 1025 [484] 1185 [559] 1345 [635]	715 [337] 1015 [479] 1165 [550] 1330 [628]	690 [326] 995 [470] 1150 [543] 1310 [618]	660 [311] 975 [460] 1130 [533] 1295 [611]	635 [300] 955 [451] 1100 [519] 1265 [597]	605 [286] 930 [439] 1075 [507] 1235 [583]	575 [271] 905 [427] 1040 [491] 1205 [569]							
GF801D075	11 x 6 [279 x 152]	1/2 [373]	LOW MED HIGH	1104 [529] 1284 [606] 1478 [698]	1081 [510] 1269 [599] 1438 [679]	1050 [496] 1236 [583] 1397 [659]	1025 [484] 1206 [569] 1362 [643]	999 [471] 1179 [556] 1392 [657]	971 [458] 1139 [538] 1282 [605]	940 [444] 1102 [520] 1242 [586]							
GF801D100	11 x 10 [279 x 254]	1/2 [373]	LOW MED HIGH	1303 [615] 1697 [801] 2078 [981]	1304 [615] 1674 [790] 2068 [976]	1280 [604] 1655 [781] 2037 [961]	1250 [590] 1638 [773] 2010 [949]	1222 [577] 1621 [765] 1988 [938]	1188 [557] 1581 [746] 1938 [915]	1160 [547] 1542 [728] 1898 [896]							
GF801D125	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH		1690 [798] 2090 [986] 2395 [1130]	1660 [783] 2035 [960] 2335 [1102]	1635 [772] 1985 [937] 2260 [1067]	1580 [746] 1930 [911] 2185 [1031]	1535 [724] 1850 [873] 2080 [982]	1480 [698] 1785 [842] 1965 [927]							

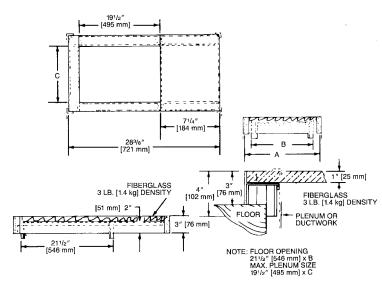
NOTES: Recommended blower speeds are in bold.

DOWNFLOW ACCESSORIES

DOWNFLOW WARNING: Unit design is certified for installation on non-combustible floor. A special factory supplied combustible floor sub-base is required when installing on a combustible floor. Failure to install the sub-base may result in fire, property damage and personal injury.

COMBUSTIBLE FLOOR BASE DIMENSIONS

COMBUSTIBLE FLOOR BASE	USE WITH Furnace Sizes	A IN. [mm]	B IN. [mm]	C IN. [mm]
RXGC-B14	80LS-05	14 ¹ / ₂ [368]	131/4 [337]	111/4 [286]
RXGC-B17	80LS-07, 80LS-10(-)EB	18 [457]	163/4 [425]	143/4 [451]
RXGC-B21	80LS-10ED	211/2 [546]	201/4 [514]	181/4 [464]
RXGC-B24	80LS-12, 80LS-15	25 [635]	233/4 [603]	213/4 [552]



GXGP-F03

PARALLEL FURNACE KITS—are for parallel operation requirements.

RXPF-F01 and F02

FOSSIL FUEL KITS—are for use with *Sure Comfort*[™] Heat Pumps and 80% warm air furnaces. The RXPF-F02 meets TVA requirements.

RXGF-CC*

FILTER RACK—Downflow top return mount.

NOTE: Filter racks are shipped without filters.

*Filters available through PROSTOCK ®.

RXGF-DB*

Each order contains (1) one box of 10 filter racks supplied without filters. *Filters available through PROSTOCK®.

FOR HIGH ALTITUDES:

HIGH ALTITUDE OPTION CODE: U.S. & Canada -

None required for high altitudes.

HIGH ALTITUDE CONVERSION KITS: U.S. & Canada -

None required for high altitudes.

80+ HIGH ALTITUDE INSTRUCTIONS

Caution: Always follow National Fuel Gas Code (NFGC) guidelines when converting for high altitudes.

High altitude option codes are not required for these models. However, the burner orifice size needs to be recalculated and verified at elevations above 2000 ft. See Installation Instructions for more information.

NOTE: For Canadian installations only, an optional derate (manifold gas pressure reduction) method may be used to adjust the furnace for altitude. See Installation Instructions for more information. This optional method may NOT be used for U.S. installations.

GENERAL TERMS OF LIMITED WARRANTY*

Sure Comfort™ will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Heat Exchanger.....Ten (10) Years
PartsFive (5) Years

Notes

GF801D Series

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

Sure Comfort™

P.O. Box 17010, Fort Smith, AR 72917



"In keeping with its policy of continuous progress and product improvement, Sure Comfort™ reserves the right to make changes without notice."

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