

GF901U SERIES

Models with Input Rates 45, 60, 75, 90, 105 & 120 kBTU [13.19, 17.58, 21.9, 26.4, 30.77 & 35.17 kW]

(All Models 90% A.F.U.E.† or Above)



90 HIGH EFFICIENCY UPFLOW GAS FURNACES

The Sure Comfort[™] 90 High Efficiency line of upflow gas furnaces are designed for utility rooms, closets, or alcoves. Because of the low-profile 34 inch height, this model can be used vertically to satisfy most applications that traditionally call for a horizontal furnace.

The design is certified by CSA.

Features

- Low profile "34 inch" design is lighter and easier to handle and leaves room for optional accessories.
- Left or right side gas, electric, and condensate drainage connections on upflow models.
- Integrated control board manages all operational functions and provides accessory hookups for an electronic air cleaner.
- A slow-opening gas valve and a specially designed inducer system make it one of the quietest furnaces on the market today.
- Pre-paint galvanized steel cabinet.
- Optional indoor or outdoor combustion air. In addition, combustion air may be piped to either the top or right side of the cabinet on all upflow models. A special molded fitting is provided to ease installation.
- Control board diagnostics.

A variety of cooling coils and plenums designed to use with the *Sure Comfort*[™] 90 gas furnaces are available as optional accessories for air conditioning models.

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





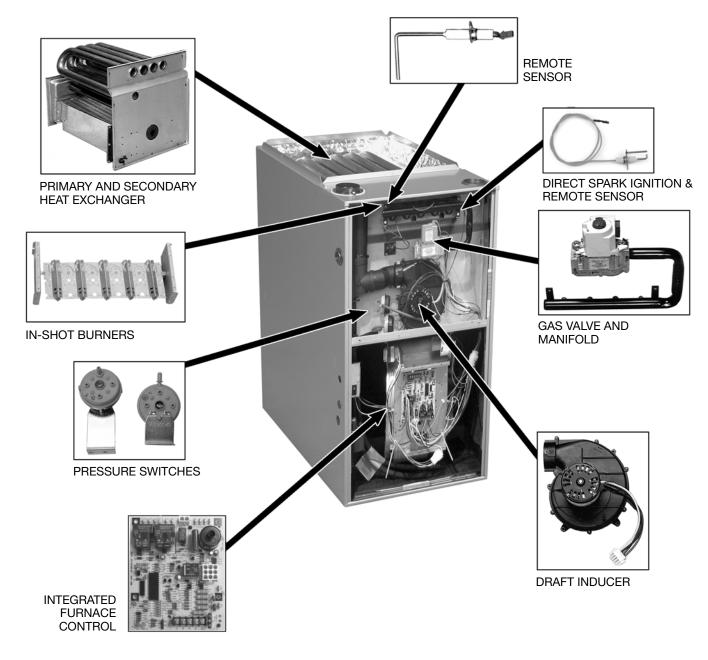






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STANDARD EQUIPMENT

Completely assembled and wired; heat exchanger; primary: aluminized steel, secondary: 29-4C stainless steel; induced draft; pressure switches; redundant main gas control; blower compartment door safety switch; solid state time on/off blower control; limit controls; manual shut-off valve; 100% safety lock out; cool fan off delay; field selectable heat fan off delay; one hour automatic retry; self-test diagnostics; flame sense current diagnostics; electronic air cleaner connections; pressure regulator for natural and L.P. (propane) gases; transformer; direct drive, multi-speed blower motor. (Please note: a thermostat is not included as standard equipment.)

OPTIONAL EQUIPMENT

(See Accessory Page)

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

All models can be converted by a qualified 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 parts distributor.

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

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

Model Features

- The design is certified by CSA.
- Low profile "34 inch" design is lighter and easier to handle and leaves room for optional accessories.
- Left or right side gas, electric, and condensate drainage connections on upflow models.
- Integrated control board manages all operational functions and provides accessory hookups for an electronic air cleaner.
- A slow-opening gas valve and a specially designed inducer system make it one of the quietest furnaces on the market today.
- Pre-paint galvanized steel cabinet.
- Optional indoor or outdoor combustion air. In addition, combustion air may be piped to either the top or right side of the cabinet on all upflow models. A special molded fitting is provided to ease installation.
- Control board diagnostics.

Physical Data and Specifications—Upflow Models U.S. and Canadian Models

MODEL NUMBERS	045AS36	060AS36	075AS36	090AS60	105AS60	120AS60
Input–BTU/Hr [kW] ①	45,000 [13.19]	60,000 [17.58]	75,000 [21.98]	90,000 [26.37]	105,000 [30.77]	120,000 [35.17]
Heating Capacity BTU/Hr [kW]	42,000 [12.31]	56,000 [16.41]	70,000 [20.51]	84,000 [24.61]	97,000 [28.43]	113,000 [33.12]
High Altitude Input [kW] 2	40,500 [11.87]	54,000 [15.83]	67,500 [19.78]	81,000 [23.73]	94,500 [27.70]	108,000 [31.65]
High Altitude Output Capacity [kW] ②	37,800 [11.07]	50,400 [14.77]	63,000 [18.46]	76,000 [22.27]	87,500 [25.64]	100,000 [29.31]
Blower (D x W) [mm]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	12 x 11 [305 x 279]	12 x 11 [305 x 279]	11 x 10 [279 x 254]
Motor H.P. [W]– Speeds–Type	1/2 [373] 4-PSC	1/2 [373] 3-PSC	1/2 [373] 3-PSC	3/4 [559] 3-PSC	3/4 [559] 3-PSC	3/4 [559] 3-PSC
Motor Full Load Amps	6.8	6.8	6.8	9.5	9.5	9.5
Heating Speed	Med-Low	Low	Med	Low	Low	Low
Cooling Speed	High	High	High	High	High	High
Heat Ext. Static Pressure (In. W.C.) [kPa]	.10 [.025]	.12 [.029]	.12 [.029]	.15 [.037]	.20 [.049]	.20 [.049]
Rated Ext. Static Pressure (In. W.C.) [Kpa]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]
Heating CFM @ .2" [.049 kPa] W.C. E.S.P. [L/s]	885 [417]	845 [398]	1050 [495]	1465 [691]	1445 [682]	1580 [745]
Cooling Cfm @ .5" [.124 Kpa] W.C. E.S.P. [L/S]	1195 [564]	1100 [519]	1110 [524]	1910 [901]	1810 [854]	1900 [897]
Temperature Rise Range °F [°C]	30-60 [16.7-33.3]	40-70 [22.2-38.9]	45-75 [25-41.7]	35-65 [19.4-36.1]	50-80 [27.8-44.4]	50-80 [27.8-44.4]
Return Air Cabinets (Opt.) RXGR- Filter Size [mm]	C17B (2) 12" x 16" [305 x 406]	C17B (2) 12" x 16" [305 x 406]	C17B (2) 12" x 16" [305 x 406]	C21B (2) 12" x 16" [305 x 406]	C21B (2) 12" x 16" [305 x 406]	C24B (2) 24" x 16" [609 x 406]
Approx. Shipping Weight (Lbs.) [kg]	111 [50.3]	117 [53.1]	123 [55.8]	148 [67.1]	152 [68.9]	160 [72.6]
AFUE 3	93.5%	92.5%	92.8%	93.5%	92.0%	93.5%
California Seasonal Efficiency ③	84.68%	86.44%	87.16%	85.96%	86.93%	87.57%

NOTES: All models are 115V, 60HZ, 1Ø. Gas connection size for all models is 1/2" [13 mm] N.P.T.

① See Conversion Kit Index Form for high altitude derate.

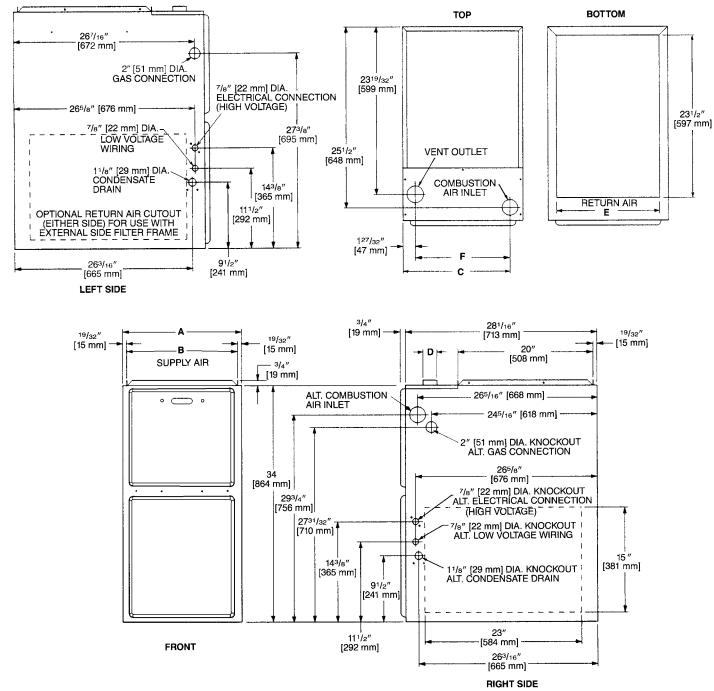
O Canadian installations only.

③ In accordance with D.O.E. test procedures.

Model Number Identification

GF	<u>90</u>	<u>1</u>	U	<u>120</u>	<u>A</u>	S	<u>60</u>
Gas Furnace	90 = 90% Efficiency	1 = 1 Stage	U = Upflow	Heating Input Designation Model Input BTU/HR [kW] 045 45,000 [13.1] 060 60,000 [17.6] 075 75,000 [21.9] 090 90.000 [26.4] 105 105,000 [30.7] 120 120,000 [35.2]	A = Variation	Variations S = Standard W = Wide Cabinet	Nominal Cooling Designation 36 = 3 Tons 48 = 4 Tons 60 = 5 Tons

Upflow Models



MODEL							- LEFT		IIMUM C	LEARANC	E (IN.) [m	m]	SHIP
GF901U	A	В	C	D	E	F	SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	WGTS. [kg]
045	17 ¹ /2 [445]	16 ¹¹ /32 [415]	15 ⁵ /8 [397]	2 [51]	15 [422]	13 ²⁵ /32 [352]	0	0	0	1 [25]	2 [51]	0	111 [50]
060	17 ¹ /2 [445]	16 ¹¹ /32 [415]	15 ⁵ /8 [397]	2 [51]	15 [422]	13 ²⁵ /32 [352]	0	0	0	1 [25]	2 [51]	0	117 [53]
075	17 ¹ /2 [445]	16 ¹¹ /32 [415]	15 ⁵ /8 [397]	2 [51]	15 [422]	13 ²⁵ /32 [352]	0	0	0	1 [25]	2 [51]	0	123 [56]
090	21 [533]	19 ²⁷ /32 [504]	191/8 [487]	2 [51]	18 ¹ /2 [511]	179/32 [441]	0	0	0	1 [25]	2 [51]	0	148 [67]
105	21 [533]	19 ²⁷ /32 [504]	191/8 [487]	2 [51]	18 ¹ /2 [511]	179/32 [441]	0	0	0	1 [25]	2 [51]	0	152 [69]
120	241/2 [622]	2311/32 [593]	22 ⁵ /8 [575]	2 [51]	22 [600]	20 ²⁵ /32 [530]	0	0	0	1 [25]	2 [51]	0	160 [73]

MODEL NUMBER	BLOWER SIZE	MOTOR H.P.	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [kPa]						
NOMBER	[mm]	[W]	SFEED	0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]
GF901U045AS36	11 x 7 [279 x 178]	1/2 [373]	LOW MED-LO MED-HI HIGH	805 [380] 920 [434] 1140 [538] 1360 [642]	780 [368] 885 [417] 1110 [524] 1320 [623]	760 [358] 850 [401] 1085 [512] 1280 [604]	720 [340] 810 [382] 1045 [493] 1235 [583]	685 [323] 775 [365] 1010 [476] 1195 [564]	645 [304] 730 [344] 950 [448] 1140 [538]	605 [285] 690 [325] 890 [420] 1080 [500]
GF901U060AS36	11 x 7 [279 x 178]	1/2 [373]	LOW MED HIGH	880 [415] 1060 [500] 1260 [594]	845 [398] 1025 [483] 1215 [573]	815 [384] 990 [467] 1175 [554]	790 [373] 960 [453] 1135 [535]	760 [358] 925 [436] 1100 [519]	715 [337] 880 [415] 1040 [491]	670 [316] 835 [394] 985 [465]
GF901U075AS36	11 x 7 [279 x 178]	1/2 [373]	LOW MED HIGH	880 [415] 1090 [514] 1300 [613]	850 [401] 1050 [495] 1255 [592]	825 [389] 1010 [477] 1210 [571]	785 [370] 970 [458] 1160 [547]	750 [354] 925 [436] 1110 [524]	702 [331] 875 [413] 1055 [498]	655 [309] 825 [389] 1005 [474]
GF901U090AS60	12 x 11 [305 x 279]	3/4 [559]	LOW MED HIGH	1490 [703] 1720 [811] 2100 [991]	1465 [691] 1670 [788] 2050 [967]	1445 [679] 1620 [764] 2000 [944]	1405 [663] 1600 [755] 1955 [923]	1375 [649] 1580 [746] 1910 [901]	1315 [620] 1520 [717] 1825 [861]	1255 [592] 1460 [689] 1745 [823]
GF901U105AS60	12 x 11 [305 x 279]	3/4 [559]	LOW MED HIGH	1490 [703] 1710 [807] 2010 [949]	1445 [682] 1665 [786] 1955 [923]	1405 [663] 1620 [764] 1900 [897]	1375 [649] 1580 [746] 1855 [875]	1350 [637] 1540 [727] 1810 [854]	1295 [611] 1475 [696] 1710 [807]	1240 [585] 1410 [665] 1610 [859]
GF901U120AS60	11 x 10 [279 x 245]	3/4 [559]	LOW MED HIGH	1610 [760] 1870 [882] 2115 [998]	1580 [746] 1820 [860] 2050 [967]	1555 [734] 1775 [838] 1990 [939]	1515 [715] 1715 [809] 1945 [917]	1475 [696] 1660 [783] 1900 [897]	1415 [668] 1590 [750] 1795 [847]	1355 [639] 1520 [717] 1690 [795]

Blower Performance Data—GF901U- Models

UPFLOW ACCESSORIES

VENT TERMINATION KITS CONCENTRIC: HORIZONTAL/VERTICAL =

RXGY-E03A (US & Canadian Installations)

HORIZONTAL TWO PIPE: RXGY-D02, RXGY-D03, RXGY-D04 (US Installations)

RXGY-D02A, RXGY-D03A, RXGY-D04A (Canadian Installations)

RXGY-G02 (US Only)

NEUTRALIZER KIT: RXGY-A01

FOSSIL FUEL KIT: RXPF-F01, RXPF-F02 (TVA)

RETURN AIR PLENUM: RXGR-C17B RXGR-C21B RXGR-C24B

EXTERNAL BOTTOM FILTER RACK: RXGF-CB

EXTERNAL SIDE FILTER RACK: RXGF-CA

FILTER RACK FILTER SIZES* INCHES [mm]						
MODEL GF901U	RXGF-CB (BOTTOM)	RXGF-CA (SIDE)				
045	15 ³ /4 x 25 [400 x 635]	15 ³ /4 x 25 [400 x 635]				
060	15 ³ /4 x 25 [400 x 635]	15 ³ /4 x 25 [400 x 635]				
075	15 ³ /4 x 25 [400 x 635]	15 ³ /4 x 25 [400 x 635]				
090	19 ¹ /4 x 25 [489 x 635]	15 ³ /4 x 25 [400 x 635]				
105	19 ^{1/4} x 25 [489 x 635]	15 ³ /4 x 25 [400 x 635]				
120	22 ³ /4 x 25 [578 x 635]	15 ³ /4 x 25 [400 x 635]				

*Filter racks are shipped without filters.

Filters shipped with furnace may be used or a suitable 1" [25.4 mm] filter.

PLENUM DATA FOR "A" COILS

Plenum adapters are required in some instances for use on upflow applications when plenum and furnace size do not match.

FURNACE WIDTH IN. [mm]	PLENUM WIDTH IN. [mm]	PLENUM ADAPTER UPFLOW	COIL Plenum
14 [356]	16 ¹ /4 [413]	RXAA-C171	RXAL-B16BU
14 [356]	201/4 [514]	RXAA-C172	RXAL-B20BU
171/2 [445]	16 ¹ /4 [413]	RXAA-C185	RXAL-B16BU
171/2 [445]	20 ¹ /4 [514]	RXAA-C173	RXAL-B20BU
171/2 [445]	215/8 [549]	RXAA-C187	RXAL-B21BU
171/2 [445]	25 ¹ /4 [641]	RXAA-C174	RXAL-B25BU
21 [533]	25 ¹ /4 [641]	RXAA-C175	RXAL-B25BU
21 [533]	22 ¹ /4 [565]	RXAA-C176	RXAL-B22BU
21 [533]	215/8 [549]	RXAA-C188	RXAL-B21BU
241/2 [622]	25 ¹ /4 [641]	RXAA-C177	RXAL-B25BU
241/2 [622]	21 ⁵ /8 [549]	RXAA-C187	RXAL-B21BU

INTERNAL FILTER RACK FOR BOTTOM

OR SIDE RETURN: RXGF-DA* Each order contains (1) one box of 10 filter racks supplied without filters.

*Filters available through PROSTOCK®.

RXGP-F03

TWINNING KIT—is for use with *Sure Comfort™* 90 Gas Furnaces for parallel operation requirements.

	WARNING:	IMPORTANT NOT	FICE
Installed Wit Could Cause And Create P		ÚRN DUCTS. FAILURE FION TO BE CIRCULATE CONDITIONS. SOLID E	TO INSTALL A BASE PLATE ED INTO THE LIVING SPACE
FURNACE WIDTH IN. [mm]	SOLID BOTTOM Kit no.	BASE PLATE NO.	BASE PLATE SIZE IN. [mm]
17 ¹ /2 [445] 21 [533]	RXGB-D17 RXGB-D21	AE-61874-02 AE-61874-03	15 ¹ /8 x 23 ⁹ /16 [384 x 598] 18 ⁵ /8 x 23 ⁹ /16 [473 x 598]

AE-61874-04

255/8 x 239/16 [651 x 598]

FOR HIGH ALTITUDES:

*HIGH ALTITUDE KIT:

241/2 [622]

RXGY-F04 (105 KBTU/H) RXGY-F05 (120 KBTU/H) RXGY-F06 (45 KBTU/H/60 KBTU/H/90 KBTU/H) RXGY-F07 (75 KBTU/H)

RXGB-D24

*For installations over 5000 ft.

OPTION CODE FOR HIGH ALTITUDE: US & Canada - 278

NOTE: High altitude kits and options do NOT include additional burner orifices. If a burner orifice change is necessary, they must be ordered through PROSTOCK[®]. See Installation Instructions for more information.

Option – 278 furnaces are shipped with #51 DMS orifices installed. This is one drill size smaller than standard furnaces to account for expected average elevations and heating values typically seen in these areas.

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

For all installations above 2000 ft. (including all option – 278 models), the burner orifice size needs to be recalculated and verified. A burner orifice change may still be required. 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.
- [] Designates Metric Conversions

Limited Warranty GF901U Series

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	Twenty (20) Years
Parts	Five (5) Years

Notes GF901U Series

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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." PRINTED IN U.S.A. 8-13 QG FORM NO. GSC-534