

GAS FURNACES



SILHOUETTE® 80% A.F.U.E.† DOWNFLOW GAS FURNACES

The Ruud® Silhouette value line of downflow gas furnaces is designed for installation in closets, alcoves, utility rooms, or attics. The design is certified by CSA International.

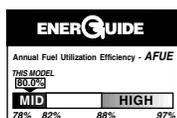
Features

- 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.
- Hot surface ignition.
- Left or right side gas and electric inlet connections.
- Integrated board with electronic air cleaner hookup.
- A slow-open gas valve and a specially designed draft inducer motor provides reliable, smooth and quieter ignitions.
- Grab-holes in doors to aid in easy door removal and replacement.
- Every Ruud gas furnace is thoroughly checked by a quality assurance team and tested before shipping.

A variety of cooling coils and plenums designed to use with Ruud Silhouette gas furnaces are available as optional accessories.

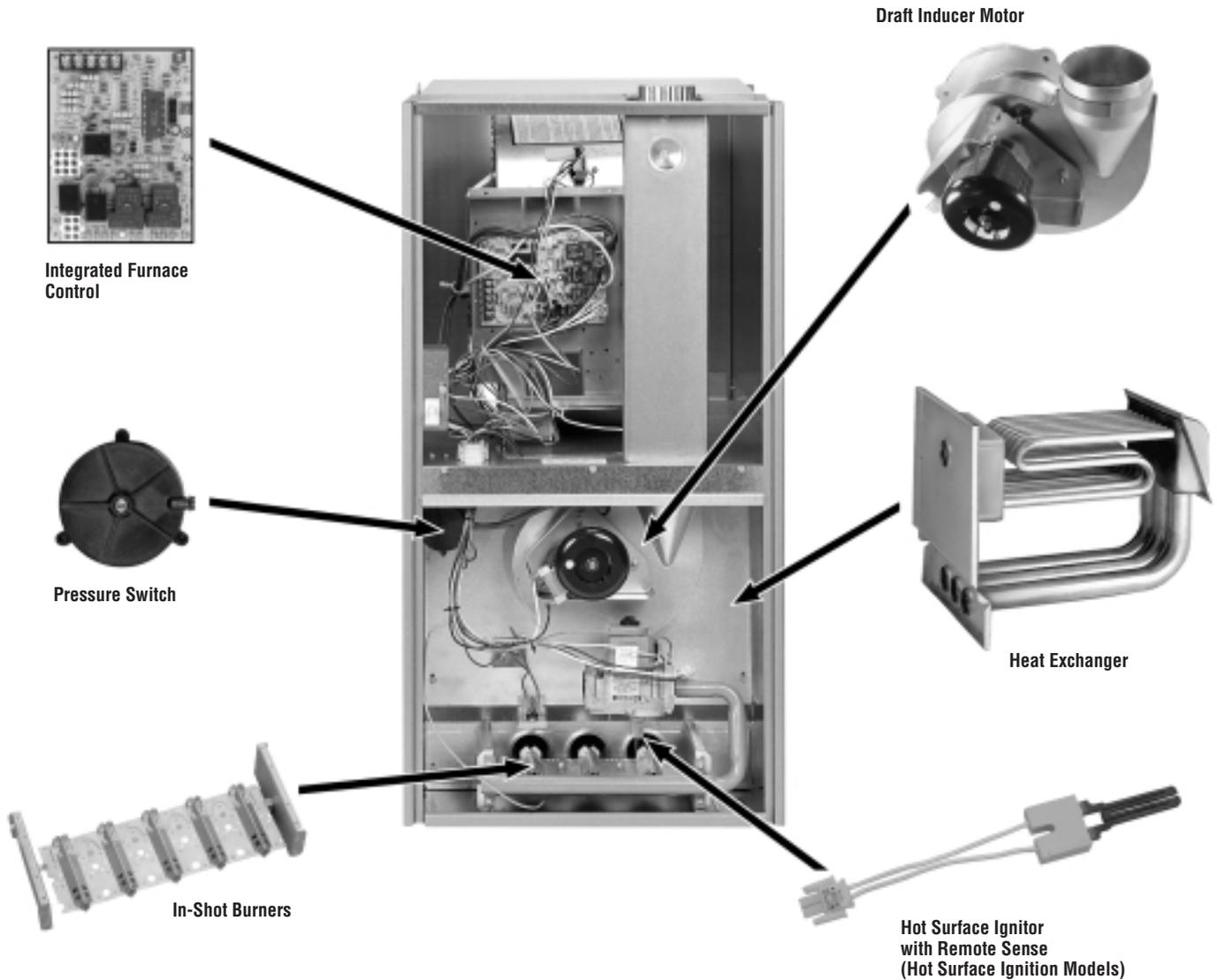
†A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.

UGLJ- SERIES
Models with Input Rates from
50,000 to 150,000 BTU/HR
[15 to 44 kW]
(U.S. & Canadian Models)





RUUD SILHOUETTE 80% DOWNFLOW GAS FURNACES



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.

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 Ruud 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 Ruud parts distributor.

For L.P. (propane) operation, refer to Conversion Kit Index included with furnace.

NOTE: For natural and L.P. (propane) gas models, standard hot surface ignition is 100% safety lockout type.

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

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

PHYSICAL DATA AND SPECIFICATIONS—U.S. AND CANADA (DOWNFLOW)

MODEL NUMBERS UGLJ- SERIES	05EAUER 05NAUER	07EAUER 07NAUER	07EAMGR 07NAMGR	10EAMER 10NAMER	10EBRGR 10NBRGR	10EBRJR 10NBRJR	12EARGR 12NARGR	12EARJR 12NARJR	15EARGR 15NARGR	15EARJR 15NARJR
Input-BTU/Hr [kW] ②	50,000 [15]	75,000 [22]	75,000 [22]	100,000 [29]	100,000 [29]	100,000 [29]	125,000 [37]	125,000 [37]	150,000 [44]	150,000 [44]
Heating Capacity BTU/Hr [kW] ①	41,000 [12]	60,000 [18]	60,000 [18]	80,000 [23]	80,000 [23]	80,000 [23]	99,000 [29]	99,000 [29]	120,000 [35]	120,000 [35]
High Altitude Input [kW]	45,000 [13]	67,500 [20]	67,500 [20]	90,000 [26]	90,000 [26]	90,000 [26]	112,500 [33]	112,500 [33]	135,000 [40]	135,000 [40]
High Altitude Output Capacity [kW]	36,500 [11]	53,500 [16]	54,000 [16]	72,000 [21]	72,500 [21]	72,500 [21]	89,000 [26]	89,000 [26]	107,500 [31]	107,500 [31]
Heat Ext. Static Pressure [kPa]	.10 [.025]	.12 [.029]	.12 [.029]	.15 [.037]	.15 [.037]	.15 [.037]	.20 [.05]	.20 [.05]	.20 [.05]	.20 [.05]
Blower (D x W) [mm]	11 x 6 [279 x 152]	11 x 6 [279 x 152]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 10 [279 x 254]					
Motor H.P.–Speed– PSC Type [W]	1/2-4-PSC [373]	1/2-3-PSC [373]	1/2-3-PSC [373]	1/2-3-PSC [373]	1/2-3-PSC [373]	3/4-3-PSC [560]	1/2-3-PSC [373]	3/4-3-PSC [560]	1/2-3-PSC [373]	3/4-3-PSC [560]
Motor Full Load Amps	6.8	5.8	7.9	7.1	7.9	9.5	7.9	9.5	7.9	9.5
Heating Speed	Med-Low	Med	Med	Med	Med	Low	Med	Low	Med	Low
Cooling Speed	High	High	High	High	High	Med	High	Med	High	Med
Cooling CFM @ .5" E.S.P. (Nominal) [L/s]	1200 [566]	1200 [566]	1600 [755]	1200 [566]	1970 [930]	2060 [922]	1930 [911]	2185 [1031]	1955 [923]	2145 [1012]
Max. E.S.P. (In. W.C.) [kPa]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]
Temperature Rise Range °F [°C]	25-55 [13.9-30.6]	40-70 [22.2-38.9]	25-55 [13.9-30.6]	45-75 [25-41.7]	40-70 [22.2-38.9]	40-70 [22.2-38.9]	40-70 [22.2-38.9]	40-70 [22.2-38.9]	50-80 [27.8-44.4]	50-80 [27.8-44.4]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	165 [73.8]	155 [68.3]	190 [87.7]	190 [87.7]	170 [76.6]	180 [82.2]	180 [82.2]	190 [87.7]	190 [87.7]
Approx. Shipping Weight (Lbs.) [kg]	85 [39]	105 [48]	105 [48]	115 [52]	120 [54]	120 [54]	140 [63]	140 [63]	150 [68]	150 [68]
AFUE–H.S.I. Models	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%
California Seasonal Efficiency– H.S.I./Nox Models ①	75.9/76.2	74.4/74.9	75.1/75.5	75.2/75.2	74.7/74.7	73.9/74.5	75.2/75.3	75.2/75.3	76.0/75.9	76.0/75.9

NOTES: All models are 115V, 60HZ, 1 Ph. Gas connection size for all models is 1/2" [12 mm] N.P.T.

① In accordance with D.O.E. test procedures.

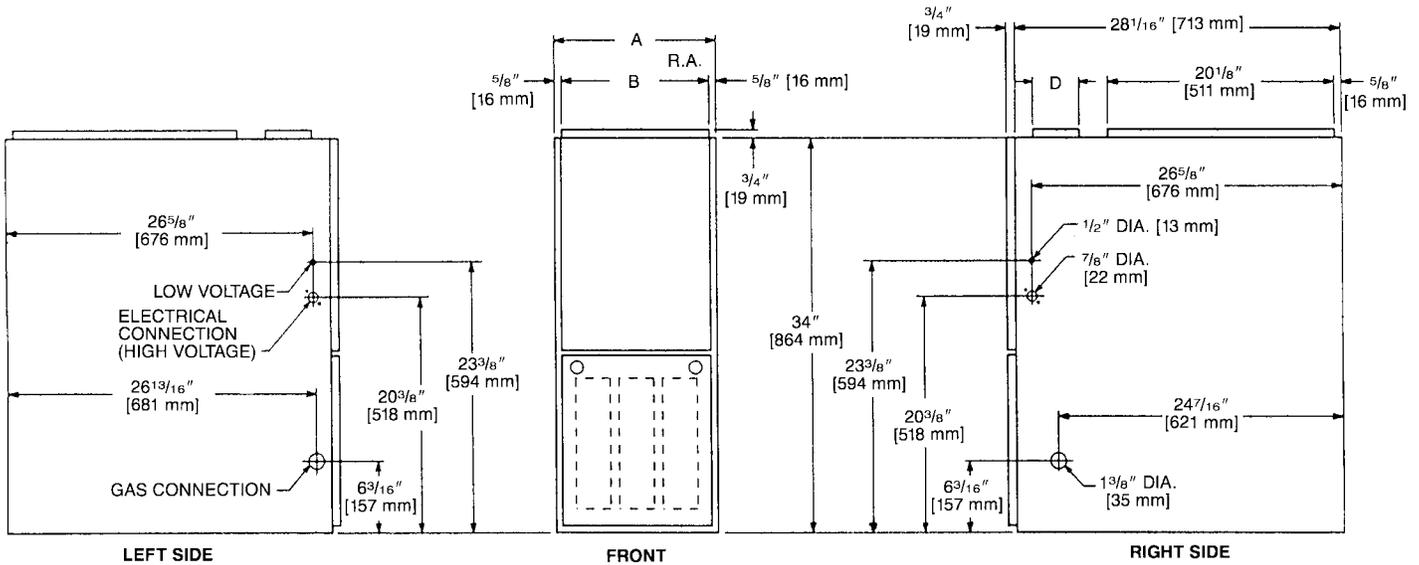
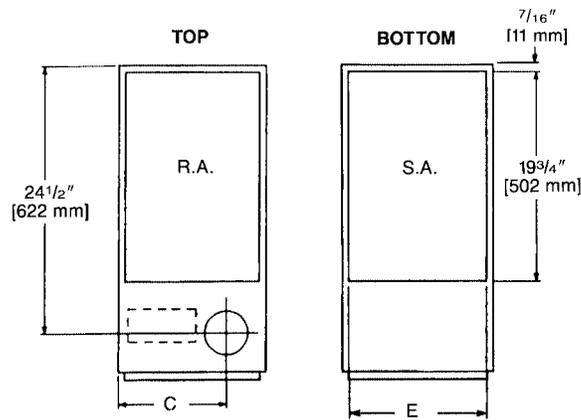
② See Conversion Kit Index Form for high altitude derate in U.S. applications. For Canadian applications, reference the furnace installation instructions.

MODEL IDENTIFICATION—DOWNFLOW MODELS

U	G	L	J	—	07E	A	U	E	R
Ruud	Gas Furnace	Downflow	Design Series		Heating Input Designation	Variations	Blower Designation [mm]	Cooling Designation	Fuel Type
					Hot Surface Ignition	A = Std. Cabinet B = Wide Cabinet	U = 11 x 6 [279 x 152] M = 11 x 7 [279 x 178] R = 11 x 10 [279 x 254]	E = 1100-1330 CFM [519-628 L/s] G = 1450-1750 CFM [684-826 L/s] J = 1800-2075 CFM [850-979 L/s]	R = Natural Gas, U.S. and Canadian Standard Furnace
					NOx Model				
					Input BTU/HR [kW]				
					05E 05N 50,000 [15]				
					07E 07N 75,000 [22]				
					10E 10N 100,000 [29]				
					12E 12N 125,000 [37]				
					15E 15N 150,000 [44]				

[] Designates Metric Conversions

DOWNFLOW DIMENSIONS



DIMENSIONS AND CLEARANCE TO COMBUSTIBLE MATERIAL (INCHES) [mm]

MODEL UGLJ-	A	B	C	D	E	REDUCED CLEARANCE (IN.) [mm]						
						LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	SHIP. WGTS. (LBS.) [Kg]
05	14 [356]	12 ²⁷ / ₃₂ [326]	10 ³ / ₈ [264]	①	13 ¹ / ₈ [333]	0	4 ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
07	17 1/2 [445]	16 ¹¹ / ₃₂ [415]	12 ¹ / ₈ [308]	①	16 ⁵ / ₈ [422]	0	3 ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10 (A)	17 1/2 [445]	16 ¹¹ / ₃₂ [415]	12 ¹ / ₈ [308]	①	16 ⁵ / ₈ [422]	0	3 ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10 (B)	21 [533]	19 ²⁷ / ₃₂ [504]	13 ⁷ / ₈ [352]	①	20 ¹ / ₈ [511]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	24 1/2 [622]	23 ¹¹ / ₃₂ [593]	15 ⁵ / ₈ [397]	①	23 ⁵ / ₈ [600]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	24 1/2 [622]	23 ¹¹ / ₃₂ [593]	15 ⁵ / ₈ [397]	①	23 ⁵ / ₈ [600]	0	0	0	1 [25]	3 [76]	6 [152] ③	150 [68]

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

② May be 0" [0 mm] with type B vent.

③ May be 1" [25 mm] with type B vent.

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.

BLOWER PERFORMANCE DATA—DOWNFLOW MODELS

MODEL NUMBER UGLJ-SERIES	BLOWER SIZE [mm]	MOTOR H.P. [W]	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN						
				.1 [.02]	.2 [.05]	.3 [.07]	.4 [.10]	.5 [.12]	.6 [.15]	.7 [.17]
05EAUER 05EAUJA 05NAUER	11 x 6 [279 x 152]	1/2 [373]	LOW	735 [347]	715 [337]	690 [326]	660 [311]	635 [300]	605 [286]	575 [271]
			MED-LO	1025 [484]	1015 [479]	995 [470]	975 [460]	955 [451]	930 [439]	905 [427]
			MED-HI HIGH	1185 [559] 1345 [635]	1165 [550] 1330 [628]	1150 [543] 1310 [618]	1130 [533] 1295 [611]	1100 [519] 1265 [597]	1075 [507] 1235 [583]	1040 [491] 1205 [569]
07EAUER 07EAUJA 07NAUER	11 x 6 [279 x 152]	1/2 [373]	LOW	990 [467]	975 [460]	955 [451]	935 [441]	905 [427]	875 [413]	835 [394]
			MED	1140 [538]	1125 [531]	1105 [522]	1080 [510]	1050 [496]	1020 [481]	980 [463]
			HIGH	1300 [614]	1290 [609]	1265 [597]	1245 [588]	1215 [573]	1180 [557]	1140 [538]
07EAMGR 07EAMGA 07NAMGR	11 x 7 [279 x 178]	1/2 [373]	LOW	1210 [571]	1205 [569]	1195 [564]	1180 [557]	1165 [550]	1155 [545]	1130 [533]
			MED	1580 [746]	1560 [736]	1550 [732]	1530 [722]	1495 [706]	1465 [691]	1430 [675]
			HIGH	1915 [904]	1880 [887]	1825 [861]	1790 [845]	1740 [821]	1675 [791]	1600 [755]
10EAMER 10EAMEA 10NAMER	11 x 7 [279 x 178]	1/2 [373]	LOW	1070 [505]	1055 [498]	1040 [491]	1010 [477]	980 [463]	945 [446]	905 [427]
			MED	1240 [585]	1210 [571]	1190 [562]	1165 [550]	1135 [536]	1095 [517]	1055 [498]
			HIGH	1420 [670]	1395 [658]	1370 [647]	1340 [632]	1305 [616]	1265 [597]	1220 [576]
10EBRGR 10EBRGA 10NBRGR	11 x 10 [279 x 254]	1/2 [373]	LOW	1330 [628]	1295 [611]	1285 [606]	1245 [588]	1225 [578]	1205 [569]	1160 [547]
			MED	1690 [798]	1670 [788]	1655 [781]	1615 [762]	1585 [748]	1565 [739]	1525 [720]
			HIGH	—	2085 [984]	2055 [970]	2005 [946]	1970 [930]	1945 [918]	1880 [887]
10EBRJR 10EBRJA 10NBRJR	11 x 10 [279 x 254]	3/4 [559]	LOW	1690 [798]	1670 [788]	1655 [781]	1615 [762]	1585 [748]	1565 [739]	1525 [720]
			MED	—	2085 [984]	2055 [970]	2005 [946]	1970 [930]	1945 [918]	1880 [887]
			HIGH	—	2410 [1137]	2355 [1111]	2305 [1088]	2240 [1057]	2165 [1022]	2100 [991]
12EARGR 12EARGA 12NARGR	11 x 10 [279 x 254]	1/2 [373]	LOW	1330 [628]	1295 [611]	1280 [604]	1240 [585]	1215 [573]	1210 [571]	1175 [555]
			MED	—	1690 [798]	1660 [783]	1635 [772]	1580 [746]	1535 [724]	1480 [698]
			HIGH	—	2090 [986]	2035 [960]	1985 [937]	1930 [911]	1850 [873]	1785 [842]
12EARJR 12EARJA 12NARJR	11 x 10 [279 x 254]	3/4 [559]	LOW	—	1690 [798]	1660 [783]	1635 [772]	1580 [746]	1535 [724]	1480 [698]
			MED	—	2090 [986]	2035 [960]	1985 [937]	1930 [911]	1850 [873]	1785 [842]
			HIGH	—	2395 [1130]	2335 [1102]	2260 [1067]	2185 [1031]	2080 [982]	1965 [927]
15EARGR 15EARGA 15NARGR	11 x 10 [279 x 254]	1/2 [373]	LOW	1300 [614]	1280 [604]	1230 [580]	1205 [569]	1175 [552]	1115 [526]	1030 [486]
			MED	1675 [791]	1650 [779]	1620 [765]	1570 [741]	1545 [729]	1485 [701]	1425 [673]
			HIGH	2105 [993]	2075 [979]	2035 [960]	1990 [939]	1955 [923]	1900 [897]	1815 [857]
15EARJR 15EARJA 15NARJR	11 x 10 [279 x 254]	3/4 [559]	LOW	1675 [791]	1650 [779]	1620 [765]	1570 [741]	1545 [729]	1485 [701]	1425 [673]
			MED	2105 [993]	2075 [979]	2035 [960]	1990 [939]	1955 [923]	1900 [897]	1815 [857]
			HIGH	—	—	—	—	—	—	—

NOTES: Recommended blower speeds are in bold.
See Form Number C22-206 for MultiFlex® coil data.

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GENERAL TERMS OF LIMITED WARRANTY

Ruud 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 Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

Gas Heat Exchanger Limited WarrantyTwenty (20) Years
*Any Other Part.....Five (5) Years

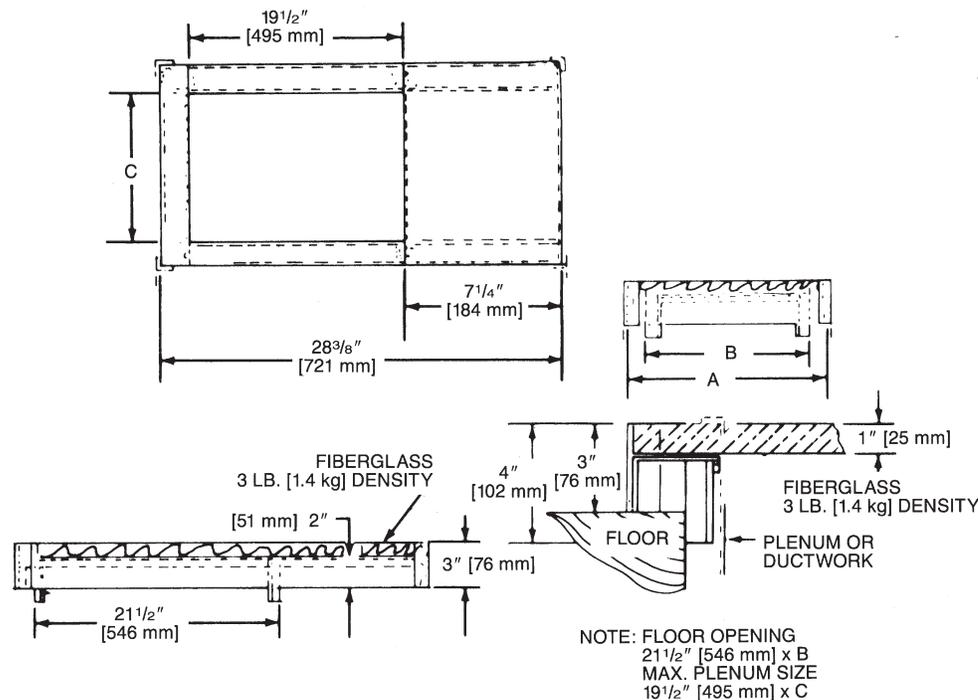
*This five year limited warranty is applicable only to single-phase products installed in residential applications on or after January 1, 2001.

ACCESSORIES—DOWNFLOW

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	UGLJ-05	14 ¹ / ₂ [368]	13 ¹ / ₄ [337]	11 ¹ / ₄ [286]
RXGC-B17	UGLJ-07, UGLJ-10(-)A	18 [457]	16 ³ / ₄ [425]	14 ³ / ₄ [451]
RXGC-B21	UGLJ-10(-)B	21 ¹ / ₂ [546]	20 ¹ / ₄ [514]	18 ¹ / ₄ [464]
RXGC-B24	UGLJ-12, UGLJ-15	25 [635]	23 ³ / ₄ [603]	21 ³ / ₄ [552]



RXPF-F01

FOSSIL FUEL KIT—Standard.

RXPF-F02

FOSSIL FUEL KIT—Meets TVA specifications.

RXGF-CC

FILTER RACK—Downflow top return mount.

NOTE: Filter racks are shipped without filters.

Suitable for 1" [25.4 mm] throw away filters.

RXGF-DB*

FILTER RACK—Internal filter rack for top return.

Each order contains (1) one box of 10 filter racks supplied without filters.

*Filters available through PROSTOCK™.

FOR HIGH ALTITUDES:

OPTION CODE FOR HIGH ALTITUDE: US & Canada – None required for these models.

HIGH ALTITUDE CONVERSION KITS: US & Canada – None required for these models.

CAUTION: Always follow National Fuel Gas Code (NFPA) 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.

[] Designates Metric Conversions

NOTES

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.

**RUUD
AIR CONDITIONING
DIVISION**

5600 Old Greenwood Road, Fort Smith, Arkansas 72908



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