

The new degree of comfort.™

# Rheem *Classic*<sup>®</sup> Series Two-Stage Upflow/Horizontal Gas Furnaces



### **RGPQ-** Series

80% A.F.U.E.† Models with Input Rates from 45-105 kBTU (U.S. & Canadian Models)



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

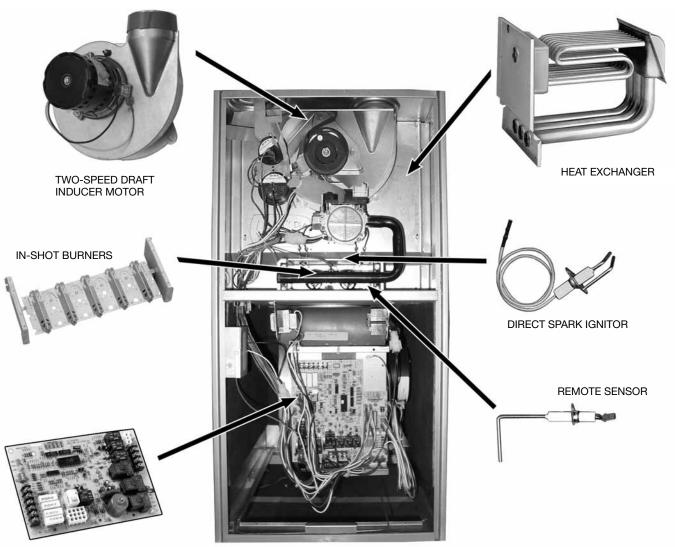
- The Rheem Classic<sup>®</sup> Series 2-Stage line of upflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, or attics. Because of the low-profile 34 inch [864 mm] height, the upflow model can also be used to satisfy most applications that traditionally call for a horizontal furnace.
- The design is certified by CSA International.
- Patented heat exchanger, constructed of aluminized steel for the maximum in corrosion resistance and thermal fatigue reliability.
- Low profile "34 inch" design is lighter and easier to handle, and leaves room for optional equipment.
- Convertible from upflow to horizontal left or right without field conversion.
- Left or right side gas and electric inlet connections with quick, simple change.
- Direct spark ignition models equipped with remote sense and feature an integrated board with humidifier and electronic air cleaner hookups.

- Insulated blower compartment, a two stage gas valve and a specially designed two speed draft inducer motor make it one of the quietest furnaces on the market today.
- Pre-paint galvanized steel cabinet.
- Molded permanent filter.
- Grab-holes in doors to aid in easy door removal and replacement.
- Compatible with single or two-stage thermostat. (For optimal performance two-stage thermostat recommended.)
- A variety of cooling coils and plenums designed to use with Rheem Classic<sup>®</sup> Series 2-Stage gas furnaces are available as optional accessories.
- Furnaces can be installed in an upflow position or laid on either side in a horizontal position. Field conversion not required.

# **TABLE OF CONTENTS**

Standard & Optional Equipment	3
Model Features/Physical Data & Specifications	4
Model Number Identification	5
Dimensional Data	6-7
Blower Performance Data	8
Accessories	9
Limited Warranty	10





INTEGRATED FURNACE CONTROL

### **STANDARD EQUIPMENT**

Completely assembled and wired; 2 speed draft inducer; high and low pressure switches; redundant 2 stage main gas control; blower compartment door safety switch; solid state time on/time off blower control; limit control; 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; **Twinning options;** fused-protection (secondary).

### **OPTIONAL EQUIPMENT**

Side filter frame assembly. Return air cabinet for all sizes.

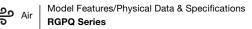
NOTE: Furnace is not listed for use with fuels other than natural or L.P. (propane) gas.

# 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 local service professional 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.

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





# **Model Features**

- Patented heat exchanger, constructed of aluminized steel for the maximum in corrosion resistance and thermal fatigue reliability.
- Low profile "34 inch" design is lighter and easier to handle, and leaves room for optional equipment.
- Convertible from upflow to horizontal left or right without field conversion.
- Left or right side gas and electric inlet connections with quick, simple change.
- Direct spark ignition models equipped with remote sense and feature an integrated board with humidifier and electronic air cleaner hookups.
- Insulated blower compartment, a two stage gas valve and a specially designed two speed draft inducer motor make it one of the quietest furnaces on the market today.

- Pre-paint galvanized steel cabinet.
- Molded permanent filter.
- Grab-holes in doors to aid in easy door removal and replacement.
- Compatible with single or two-stage thermostat. (For optimal performance two-stage thermostat recommended.)
- A variety of cooling coils and plenums designed to use with Rheem *Classic*<sup>®</sup> Series 2-Stage gas furnaces are available as optional accessories.

# Physical Data and Specifications—Downflow Models U.S. and Canadian Models

MODEL NUMBERS RGPQ- SERIES	05EAUER 05NAUER	07EAMER 07NAMER	07EAMGR 07NAMGR	10EAMER 10NAMER	10EBRJR 10NBRJR	12EARJR 12NARJR	15EARJR 15NARJR
High Input–BTU–BTU/Hr [kW] ②	50,000 [15]	75,000 [22]	75,000 [22]	100,000 [29]	100,000 [29]	125,000 [37]	150,000 [44]
Heating Capacity–BTU/Hr [kW] ①	40,900 [12]	61,280 [18]	61,410 [18]	81,470 [23]	81,340 [23]	101,660 [29]	121,920 [35]
Low Input–BTU/Hr [kW]	35,000 [10]	52,500 [15]	52,500 [15]	70,000 [20]	70,000 [20]	87,500 [25]	105,000 [30]
Heating Capacity–BTU/Hr [kW]	28,000 [8]	41,600 [12]	41,600 [12]	56,000 [16]	56,000 [16]	70,080 [20]	84,000 [24]
Heating–Ext. Static Pressure [kPa]	.10 [.025]	.12 [.029]	.12 [.029]	.15 [.037]	.15 [.037]	.20 [.05]	.20 [.05]
Blower (D x W) [mm]	11 x 6 [279 x 152]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
Motor H.P.–[W] Speeds–Type	<sup>1</sup> / <sub>2</sub> [373] 4-PSC	<sup>1</sup> / <sub>2</sub> [373] 4-PSC	<sup>3/4</sup> [559] 4-PSC	<sup>1</sup> /2 [373] 4-PSC	<sup>3/4</sup> [559] 4-PSC	<sup>3/4</sup> [559] 4-PSC	<sup>3/4</sup> [559] 4-PSC
Motor Full Load Amps	7.1	7.1	9.5	7.1	9.5	9.5	9.5
Heating Speed–High Fire	MED-LOW	MED-HIGH	MED-LOW	MED-HIGH	MED-HIGH	MED-HIGH	MED-HIGH
Heating Speed–Low Fire	LOW	MED-LOW	LOW	LOW	LOW	LOW	LOW
Cooling Speed	HIGH	HIGH	MED-HIGH	HIGH	HIGH	HIGH	HIGH
Cooling CFM @ .5" [kPa] E.S.P. (Nominal) [L/s]	1200 [566]	1200 [566]	1600 [755]	1200 [566]	2000 [944]	2000 [944]	2000 [944]
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]
Temperature Rise Range °F High Input [°C]	25-55 [13.9-30.6]	30-60 [16.7-33.3]	25-55 [13.9-30.6]	45-75 [25-41.7]	30-60 [16.7-33.3]	35-65 [19.4-36.1]	50-80 [27.8-44.4]
Temperature Rise Range °F Low Input [°C]	20-50 [11.1-27.8]	25-55 [13.9-30.6]	15-45 [8.3-25.0]	35-65 [19.4-36.1]	25-55 [13.9-30.6]	30-60 [16.7-33.3]	40-70 [22.2-38.9]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	165 [73.9]	155 [68.3]	190 [87.7]	170 [76.6]	180 [82.2]	190 [87.7]
Standard Filter–In. [mm]	15 <sup>3</sup> /4 x 25 [400 x 635]	15 <sup>3</sup> /4 x 25 [400 x 635]	15 <sup>3</sup> /4 x 25 [400 x 635]	15 <sup>3</sup> /4 x 25 [400 x 635]	19 <sup>1</sup> /4 x 25 [489 x 635]	22 <sup>3</sup> /4 x 25 [578 x 635]	22 <sup>3</sup> /4 x 25 [578 x 635]
Approx. Shipping Weight (Lbs.) [kg]	85 [39]	105 [48]	105 [48]	115 [52]	120 [54]	140 [63]	150 [68]
Return Air Cabinets (Opt.) RXGR- Filter Size–In. [mm]	C14B (2) 12 x 16 [305 x 406]	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) 20 x 16 [508 x 406]	C24B (2) 24 x 16 [610 x 406]	C24B (2) 24 x 16 [610 x 406]
AFUE ①	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%

NOTES: All models are 115V, 60HZ, 1Ø. Gas connection size for all models is 1/2" [12.7 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.

ے۔ Air | Model Number Identification RGPQ Series

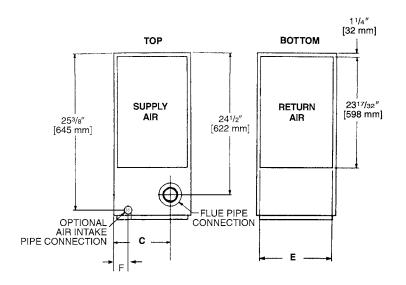
# Model Number Identification—Upflow Models

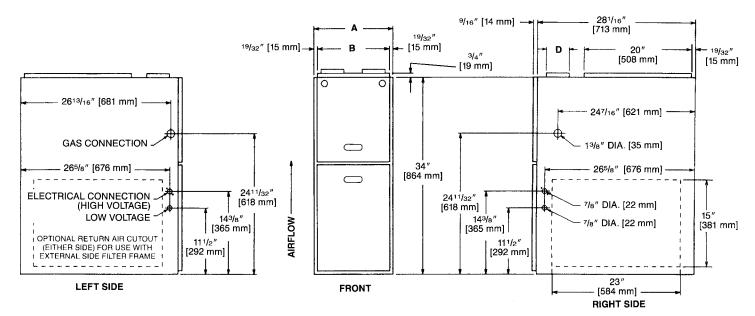
R	G	P	Q		07	'E	A	M	E	R
Rheem	Gas Furnace	Upflow/ Horizontal	Horizontal Series	H Electric Ignition 05E 07E 10E 12E 15E	eating Input NOx <u>Models</u> 05N 07N 10N 12N 15N	t Designation Input BTU/HR 50,000 [15 kW] 75,000 [22 kW] 100,000 [29 kW] 125,000 [37 kW] 150,000 [44 kW]	Variations A = Std. Cabinet B = Wide Cabinet	Blower Designation $U = 11 \times 6$ [279 x 152 mm] $M = 11 \times 7$ [279 x 178 mm] $R = 11 \times 10$ [279 x 254 mm]	Heating & Cooling Designation E = 1100-1300 CFM [519-614 L/s] J = 1900-2100 CFM [897-991 L/s] G = 1500-1700 CFM [708-802 L/s]	Fuel Type <b>R</b> = Natural Gas, U.S. and Canadian Standard Furnace





# **Upflow Dimensions**





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

MODEL								R	EDUCED	CLEAR	ANCES (IN	l.) [mm]	
RGPQ-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]
05	14 [356]	1227/32 [326]	105/8 [270]	1	111/2 [292]	17/8 [48]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
07	171/2 [445]	16 <sup>11</sup> /32 [415]	12 <sup>3</sup> /8 [314]	1	15 [381]	21/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10 (A)	171/2 [445]	16 <sup>11</sup> /32 [415]	12 <sup>3</sup> /8 [314]	1	15 [381]	21/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10 (B)	21 [533]	19 <sup>27</sup> /32 [504]	14 <sup>1</sup> /8 [359]	1	18 <sup>1</sup> /2 [470]	2 <sup>1</sup> /2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	241/2 [622]	2311/32 [593]	15 <sup>7</sup> /8 [403]	1	22 [559]	2 <sup>1</sup> /2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	241/2 [622]	2311/32 [593]	157/8 [403]	1	22 [559]	21/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	150 [68]

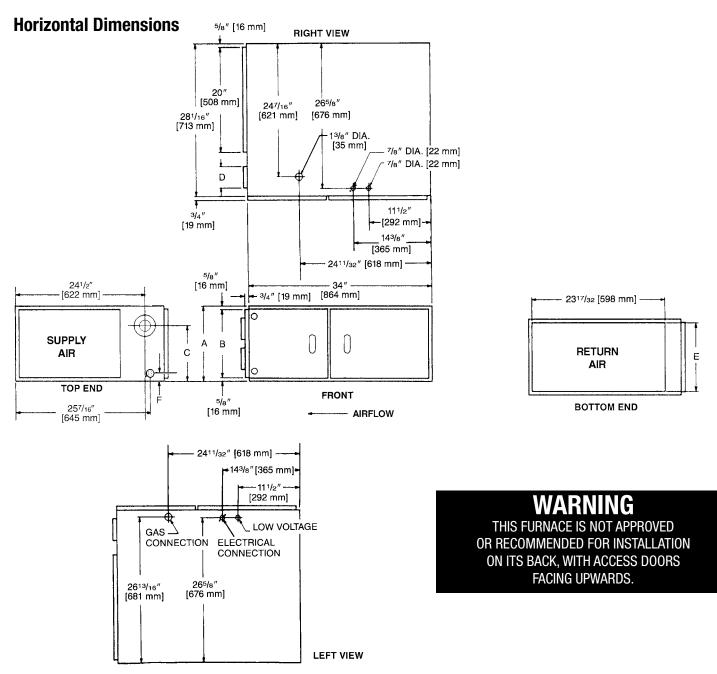
NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

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.





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

MODEL								RE	DUCED	CLEAR/	ANCES (II	N.) [mm]	
RGPQ-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]
05	14 [356]	12 <sup>27</sup> /32 [326]	10 <sup>5</sup> /8 [270]	1	11 <sup>1</sup> /2 [292]	17/8 [48]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
07	171/2 [445]	16 <sup>11</sup> /32 [415]	12 <sup>3</sup> /8 [314]	1	15 [381]	21/2 [64]	0	3 [76] 2	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10 (A)	171/2 [445]	16 <sup>11</sup> /32 [415]	123/8 [314]	1	15 [381]	21/2 [64]	0	3 [76] 2	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10 (B)	21 [533]	19 <sup>27</sup> /32 [504]	14 <sup>1</sup> /8 [359]	1	181/2 [470]	21/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	241/2 [622]	2311/32 [593]	157/8 [403]	1	22 [559]	21/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	241/2 [622]	23 <sup>11</sup> /32 [593]	15 <sup>7</sup> /8 [403]	1	22 [559]	21/2 [64]	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**

MODEL NUMBER RGPQ-	BLOWER SIZE	MOTOR H.P.	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN						
SERIES	[mm]	[W]	SILLD	.1 [.02]	.2 [.05]	.3 [.07]	.4 [.10]	.5 [.12]	.6 [.15]	.7 [.17]
05*AUER	11 x 6 [279 x 152]	1/2 [373]	LOW MED-LO MED-HI HIGH	675 [319] 950 [448] 1115 [526] 1270 [599]	655 [309] 930 [439] 1090 [514] 1250 [590]	635 [300] 905 [427] 1070 [505] 1225 [578]	610 [288] 880 [415] 1040 [491] 1200 [566]	585 [276] 860 [406] 1015 [479] 1165 [550]	555 [262] 830 [392] 985 [465] 1130 [533]	520 [245] 800 [378] 945 [446] 1085 [512]
07*AMER	11 x 7 [279 x 178]	1/2 [373]	LOW MED-LO MED-HI HIGH	921 [435] 1093 [563] 1241 [586] 1393 [657]	897 [423] 1066 [503] 1212 [572] 1359 [642]	872 [411] 1039 [490] 1183 [558] 1326 [626]	845 [399] 1008 [476] 1150 [543] 1293 [610]	818 [386] 977 [461] 1118 [528] 1259 [594]	795 [375] 941 [444] 1076 [508] 1214 [573]	746 [352] 905 [427] 1033 [487] 1169 [552]
07*AMGR	11 x 7 [279 x 178]	3/4 [559]	LOW MED-LO MED-HI HIGH	1245 [588] 1555 [734] 1810 [854] 2050 [967]	1220 [576] 1515 [715] 1755 [828] 1985 [937]	1195 [564] 1475 [696] 1705 [805] 1915 [904]	1165 [550] 1435 [677] 1645 [776] 1845 [871]	1135 [536] 1395 [658] 1585 [748] 1785 [842]	1105 [522] 1350 [637] 1530 [722] 1715 [809]	1065 [503] 1300 [614] 1470 [694] 1655 [781]
10*AMER	11 x 7 [279 x 178]	1/2 [373]	<b>LOW</b> MED-LO MED-HI HIGH	<b>925</b> [ <b>437</b> ] 1050 [496] 1220 [576] 1360 [641]	890[420]1040[491]1195[564]1327[626]	865[408]1030[486]1160[547]1295[611]	835[394]990[467]1140[538]1263[596]	<b>810 [382]</b> 960 [453] 1105 [522] 1231 [581]	<b>775 [366]</b> 920 [434] 1065 [503] 1179 [556]	<b>745 [352]</b> 890 [420] 1020 [481] 1128 [532]
10*BRJR	11 x 10 [279 x 254]	3/4 [559]	LOW MED-LO MED-HI HIGH	1295 [611] 1645 [776] 2045 [965] 2320 [1095]	1275 [602] 1615 [762] 2000 [944] 2260 [1067]	1250 [590] 1580 [746] 1955 [923] 2200 [1038]	1225 [578] 1550 [732] 1905 [899] 2130 [1005]	1195 [564] 1510 [713] 1845 [871] 2060 [972]	1165 [550] 1465 [691] 1785 [842] 1985 [937]	1135 [536] 1425 [673] 1720 [812] 1910 [901]
12*ARJR	11 x 10 [279 x 254]	3/4 [559]	LOW MED-LO MED-HI HIGH	1280 [604] 1645 [776] 2050 [967] 2365 [1116]	1275 [602] 1635 [772] 2015 [951] 2310 [1090]	1265 [597] 1615 [762] 1960 [925] 2250 [1062]	1245 [588] 1590 [750] 1935 [913] 2185 [1031]	1215 [573] 1560 [736] 1885 [890] 2115 [998]	1185 [559] 1520 [717] 1835 [866] 2035 [960]	1145 [540] 1470 [694] 1775 [838] 1950 [920]
15*ARJR	11 x 10 [279 x 254]	3/4 [559]	LOW MED-LO MED-HI HIGH	1270 [599] 1620 [765] 2010 [949] 2340 [1104]	1250 [590] 1595 [753] 1985 [937] 2275 [1074]	1220 [576] 1570 [741] 1960 [925] 2215 [1045]	1195 [564] 1545 [729] 1915 [904] 2145 [1012]	1165 [550] 1515 [715] 1850 [873] 2080 [982]	1135 [536] 1480 [698] 1800 [850] 2010 [949]	1105 [522] 1440 [680] 1730 [816] 1940 [916]

NOTES: Data compiled with factory filters installed. Factory Rated to 0.5" W.C. \*E = Standard

N = NOx Models



### EXTERNAL BOTTOM FILTER RACK: RXGF-CB EXTERNAL SIDE RETURN FILTER RACK: RXGF-CA

FILTER RACK FILTER SIZES† INCHES [mm]						
MODEL RGPQ-	RXGF-CA (SIDE)					
05, 07, 10*A	15 <sup>3</sup> /4 x 25 [400 x 635]					
10*BRJ	15 <sup>3</sup> /4 x 25 [400 x 635]					
12, 15	15 <sup>3</sup> /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. \*Designates "E" or "N".

#### **OPTION CODE FOR HIGH ALTITUDE: 278**

CANADA-For high altitude derate procedure, refer to furnace Installation Instructions

### **RXPF-F01 and F02**

**FOSSIL FUEL KIT**— is for use with Rheem Heat Pumps and warm air furnaces. RXPF-F02 meets TVA requirements.

# THE RXGR-C24B MUST ONLY BE INSTALLED ON THE SIDE OPPOSITE THE GAS AND ELECTRICAL CONNECTIONS.

RETURN AIR CABINETS	A IN. [mm]	FILTER SIZE IN. [mm]
RXGR-C14B	14 [356]	(2) 12 x 16 [305 x 406]
RXGR-C17B	17 <sup>1</sup> /2 [445]	(2) 12 x 16 [305 x 406]
RXGR-C21B	21 [533]	(2) 20 x 16 [508 x 406]
RXGR-C24B	241/2 [622]	(2) 24 x 16 [610 x 406]

#### WARNING: IMPORTANT NOTICE

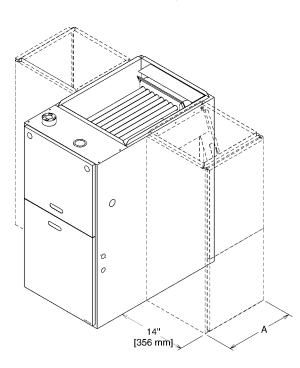
A SOLID METAL BASE PLATE (SEE TABLE) MUST BE IN PLACE WHEN THE FURNACE IS INSTALLED WITH SIDE AIR RETURN DUCTS. FAILURE TO INSTALL A BASE PLATE COULD CAUSE PRODUCTS OF COMBUSTION TO BE CIRCULATED INTO THE LIVING SPACE AND CREATE POTENTIALLY HAZARDOUS CONDITIONS.

FURNACE WIDTH IN. [mm]	SOLID BOTTOM Kit no.	BASE PLATE NO.	BASE PLATE SIZE IN. [mm]
14 [356]	RXGB-D14	AE-61874-01	11 <sup>5</sup> /8 x 23 <sup>9</sup> /16 [295 x 598]
17 <sup>1</sup> /2 [445]	RXGB-D17	AE-61874-02	15 <sup>1</sup> /8 x 23 <sup>9</sup> /16 [384 x 598]
21 [533]	RXGB-D21	AE-61874-03	185/8 x 239/16 [473 x 598]
241/2 [622]	RXGB-D24	AE-61874-04	255/8 x 239/16 [651 x 598]

#### [ ] Designates Metric Conversions

ACCESSORY RETURN AIR CABINETS Return Air Cabinets may be installed on either side application except RXGR-C24B (side application must be

on side opposite gas and electrical connections).





## **GENERAL TERMS OF LIMITED WARRANTY\***

Rheem 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.

Gas Heat Exchanger Limited Warranty ......Limited Lifetime Conditional Parts\* (Registration Required) ......Ten (10) Years





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

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