The new degree of comfort.™

# Rheem *Value Series*Downflow Gas Furnace



80% A.F.U.E.† Input Rates 50-150 kBTU

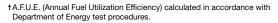














- The Rheem Value Series line of downflow gas furnaces is designed for installation in closets, alcoves, utility rooms, or attics. The design is certified by CSA International.
- Innovative design results in reliable, efficient operation at sound levels which provide distinct competitive advantage.
- Patented heat exchanger, constructed of aluminized steel for the maximum in corrosion resistance and thermal fatigue reliability.
- 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 Rheem Value Series gas furnaces are available as optional accessories.

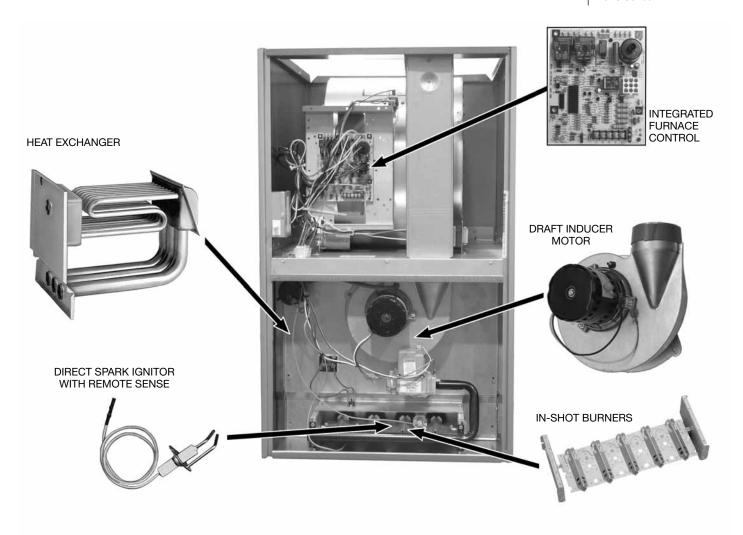




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### STANDARD EQUIPMENT

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 Rheem 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 Rheem 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.

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

### **Model Features**

- Innovative design results in reliable, efficient operation at sound levels which provide distinct competitive advantage.
- Patented heat exchanger, constructed of aluminized steel for the maximum in corrosion resistance and thermal fatigue reliability.
- 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.

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

MODEL NUMBERS RGLS-	05EAUER	07EAUER	07EAMGR	10EAMER	10EBRGR	10EBRJR	12EARJR	15EARJR
Input-BTU/Hr [kW] ②	50,000 [15]	75,000 [22]	75,000 [22]	100,000 [29.3]	100,000 [29.3]	100,000 [29.3]	125,000 [36.6]	150,000 [44]
Heating Capacity BTU/Hr [kW] ①	41,000 [12]	60,500 [18]	60,500 [18]	80,000 [23]	80,000 [23]	81,000 [24]	99,000 [29]	120,000 [35]
High Altitude Input [kW]	45,000 [13]	67,500 [19.8]	67,500 [19.8]	90,000 [26.4]	90,000 [26.4]	90,000 [26.4]	112,500 [33]	135,000 [39.6]
High Altitude Output Capacity [kW]	36,500 [10.7]	54,000 [15.8]	54,000 [15.8]	72,000 [21.1]	72,000 [21.1]	72,500 [21.2]	89,000 [26.1]	107,500 [31.5]
Heat Ext. Static Pressure [kPa]	.10 [.025]	.12 [.029]	.12 [.029]	.15 [.037]	.15 [.037]	.15 [.037]	.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 = 10*AM [279 x 178]	11 x 10 [279 x 254]			
Motor H.P. [W]-Speeds [W]- PSC Type	<sup>1</sup> / <sub>2</sub> -4-PSC [373]	<sup>1</sup> /2-3-PSC [373]	<sup>3</sup> /4-3-PSC [559]	<sup>1</sup> /2 <b>-</b> 3-PSC [373]	<sup>1</sup> /2-3-PSC [373]	<sup>3</sup> /4-3-PSC [559]	<sup>3</sup> /4-3-PSC [559]	<sup>3</sup> /4-3-PSC [559]
Motor Full Load Amps	6.8	5.8	9.5	7.1	7.9	9.5	9.5	9.5
Heating Speed	LOW	MEDIUM	LOW	MED	MED	LOW	LOW	LOW
Cooling Speed	HIGH	HIGH	HIGH	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]	2000 [944]
Rated 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]
Temperature Rise Range °F [°C]	25-55 [13.9-30.6]	30-60 [16.7-33.3]	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]	50-80 [27.8-44.4]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	165 [73.9]	155 [68.3]	190 [87.8]	190 [87.8]	170 [76.7]	180 [82.2]	170 [76.7]
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) 12 x 20 [305 x 508]	(2) 12 x 20 [305 x 508]	(2) 14 x 20 [356 x 508]	(2) 14 x 20 [356 x 508]	(2) 14 x 20 [356 x 508]
Approx. Shipping Weight (Lbs.) [kg]	85 [38.6]	105 [47.6]	105 [47.6]	115 [52.2]	120 [54.4]	120 [54.4]	140 [63.5]	150 [68.0]
AFUE–Electric Ignition Models ①	80%	80%	80%	80%	80%	80%	80%	80%

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



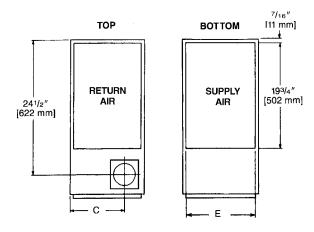
① In accordance with D.O.E. test procedures.

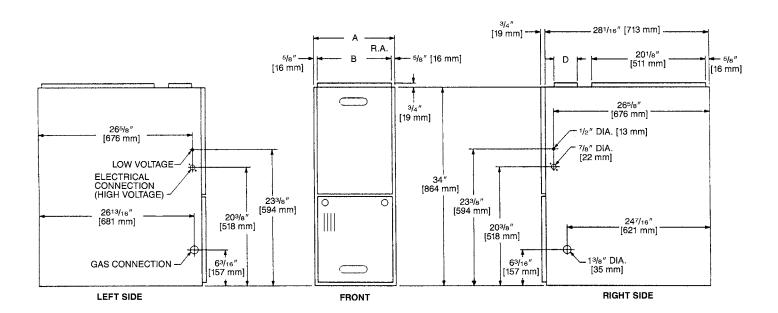
② See Conversion Kit Index Form for high altitude derate in U.S. applications. For Canadian applications, reference the furnace installation instructions.

### **Model Number Identification—Downflow Models**

R	G	L			07	<u> </u>	A	M	G	R
Rheem	Gas Furnace	S = Downflow Tier III	Design Series L = 2nd Design Series	Electric Ignition 05E 07E 10E 12E	Electric Ignition–	Input BTU/HR 50,000 [15 kW] 75,000 [22 kW] 100,000 [29 kW] 125,000 [37 kW] 150,000 [44 kW]	Variations <b>A</b> = Std. Cabinet <b>B</b> = Wide Cabinet	Blower Designation U = 11 x 6 [279 x 152 mm] M = 11 x 7 [279 x 178 mm] R = 11 x 10 [279 x 254 mm]	Heating & Cooling Designation E = 1100-1300(3R) G = 1500-1700(4R) J = 1900-2100(5R)	Fuel Type  R = Natural Gas, - CSA - U.S. and Canada (North American)

### **Downflow Dimensions**





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

MODEL						REDUCED CLEARANCES (IN.) [mm]							
RGLS- SERIES	Α	В	C	D	E	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]	
05	14 [356]	1227/32 [326]	103/8 [264]	1	131/8 [333]	0	4 ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]	
07EAU & 07EBM	171/2 [445]	16 <sup>11</sup> / <sub>32</sub> [415]	121/8 [308]	1	165/8 [422]	0	3 ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]	
10EA	171/2 [445]	16 <sup>11</sup> / <sub>32</sub> [415]	121/8 [308]	1	165/8 [422]	0	3 ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]	
10EBRG & 10EBRJ	21 [533]	19 <sup>27</sup> / <sub>32</sub> [504]	13 <sup>7</sup> /8 [352]	1	201/8 [511]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]	
12	241/2 [622]	2311/32 [593]	15 <sup>5</sup> /8 [397]	1	235/8 [600]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]	
15	241/2 [622]	2311/32 [593]	155/8 [397]	1	235/8 [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 RGLS-	BLOWER SIZE	MOTOR H.P.	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN								
SERIES	[mm]	[W]	SFLLD	.1 [.02] .2 [.05]		.3 [.07] .4 [.10]		.5 [.12]	.6 [.15]	.7 [.17]		
05EAUER	11 x 6 [279 x 152]	1/2 [373]	LOW <b>MED-LO</b> MED-HI HIGH	735 [347] <b>1025 [484]</b> 1185 [559] 1345 [635]	715 [337] <b>1015 [479]</b> 1165 [550] 1330 [628]	690 [326] <b>995 [470]</b> 1150 [543] 1310 [618]	660 [311] <b>975 [460]</b> 1130 [533] 1295 [611]	635 [300] <b>955 [451]</b> 1100 [519] 1265 [597]	605 [286] <b>930 [439]</b> 1075 [507] 1235 [583]	575 [271] <b>905 [427]</b> 1040 [491] 1205 [569]		
07EAUER	11 x 6 [279 x 152]	1/2 [373]	LOW <b>MED</b> HIGH	1104 [529] <b>1284 [606]</b> 1478 [698]	1081 [510] <b>1269 [599]</b> 1438 [679]	1050 [496] <b>1236 [583]</b> 1397 [659]	1025 [484] <b>1206 [569]</b> 1362 [643]	999 [471] <b>1179 [556]</b> 1392 [657]	971 [458] <b>1139 [538]</b> 1282 [605]	940 [444] <b>1102 [520]</b> 1242 [586]		
07EAMGR	11 x 7 [279 x 178]	1/2 [373]	LOW MED HIGH	1210 [571] <b>1580 [746]</b> 1915 [904]	1205 [569] <b>1560 [736]</b> 1880 [887]	1195 [564] <b>1550 [732]</b> 1825 [861]	1180 [557] <b>1530 [722]</b> 1790 [845]	1165 [550] <b>1495 [706]</b> 1740 [821]	1155 [545] <b>1465 [691]</b> 1675 [791]	1130 [533] <b>1430 [675]</b> 1600 [755]		
10EAMER	11 x 7 [279 x 178]	1/2 [373]	LOW <b>MED</b> HIGH	1070 [505] <b>1240 [585]</b> 1420 [670]	1055 [498] <b>1210 [571]</b> 1395 [658]	1040 [491] <b>1190 [562]</b> 1370 [647]	1010 [477] <b>1165 [550]</b> 1340 [632]	980 [463] <b>1135 [536]</b> 1305 [616]	945 [446] <b>1095 [517]</b> 1265 [597]	905 [427] <b>1055 [498]</b> 1220 [576]		
10EBRGR	11 x 10 [279 x 254]	1/2 [373]	LOW <b>MED</b> HIGH	1303 [615] <b>1697 [801]</b> 2078 [981]	1304 [615] <b>1674 [790]</b> 2068 [976]	1280 [604] <b>1655 [781]</b> 2037 [961]	1250 [590] <b>1638 [773]</b> 2010 [949]	1222 [577] <b>1621 [765]</b> 1988 [938]	1188 [557] <b>1581 [746]</b> 1938 [915]	1160 [547] <b>1542 [728]</b> 1898 [896]		
10EBRJR	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH	1690 [798] — —	<b>1670 [788]</b> 2085 [984] 2410 [1137]	<b>1655</b> [ <b>781</b> ] 2055 [970] 2355 [1111]	<b>1615</b> [ <b>762</b> ] 2005 [946] 2305 [1088]	<b>1585</b> [ <b>748</b> ] 1970 [930] 2240 [1057]	<b>1565</b> [ <b>739</b> ] 1945 [918] 2165 [1022]	<b>1525 [720]</b> 1880 [887] 2100 [991]		
12EARJR	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH		<b>1690 [798]</b> 2090 [986] 2395 [1130]	<b>1660 [783]</b> 2035 [960] 2335 [1102]	<b>1635</b> [ <b>772</b> ] 1985 [937] 2260 [1067]	<b>1580 [746]</b> 1930 [911] 2185 [1031]	<b>1535</b> [ <b>724</b> ] 1850 [873] 2080 [982]	<b>1480 [698]</b> 1785 [842] 1965 [927]		
15EARJR	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH	<b>1675 [791]</b> 2105 [993] —	<b>1650 [779]</b> 2075 [979] —	<b>1620 [765]</b> 2035 [960]	<b>1570 [741]</b> 1990 [939] —	<b>1545 [729]</b> 1955 [923] —	<b>1485 [701]</b> 1900 [897]	<b>1425 [673]</b> 1815 [857] —		

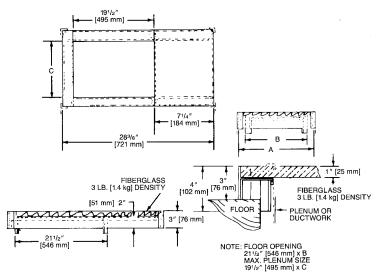
NOTES: Recommended blower speeds are in bold.

### **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 <sup>1</sup> / <sub>2</sub> [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 Rheem *Value Series* 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\***

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.

Heat Exchanger ......Twenty (20) Years 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.

