

GAS FURNACES



RGTC- SERIES
Models with Input Rates
from 45,000 to 105,000 BTU/HR
[13.19 to 30.77 kW]
 (All Models up to 95% A.F.U.E.†)



"Visit www.Rheem.com
for complete details."

CLASSIC® 90 PLUS® UP TO 95% A.F.U.E. DOWNFLOW/ HORIZONTAL GAS FURNACES

The Rheem® Classic® 90 Plus® High Efficiency line of downflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, attics or crawl spaces. The RGTC is shipped in the downflow configuration and is easily converted for horizontal **left-hand** airflow applications.

The design is certified by CSA.

Features

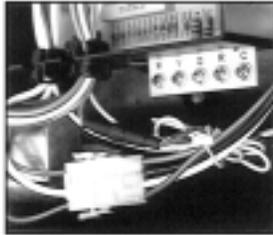
- Heat exchanger is constructed of all stainless steel for maximum corrosion resistance and thermal fatigue reliability.
- Low profile "34 inch" design is lighter and easier to handle and leaves room for optional accessories.
- Top electrical connections, left or right gas and condensate drainage connections on downflow models.
- Condensate drain for horizontal application provided standard.
- Integrated control board manages all operational functions and provides hookups for humidifier and electronic air cleaner.
- An insulated blower compartment, 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.
- Molded permanent filters.
- Optional indoor or outdoor combustion air.
- Transformer and control fuse protection.
- Control board diagnostics.

A variety of cooling coils and plenums designed to use with the Classic 90 Plus 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.



CLASSIC 90 PLUS HIGH EFFICIENCY DOWNFLOW/HORIZONTAL GAS FURNACE



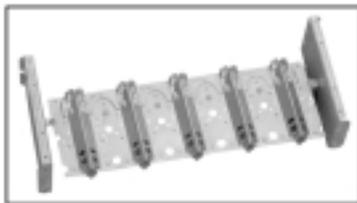
FUSE PROTECTION



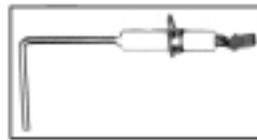
PRESSURE SWITCH



PRIMARY AND SECONDARY
HEAT EXCHANGER



IN-SHOT BURNERS



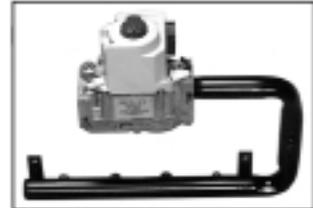
REMOTE SENSOR



INTEGRATED
FURNACE
CONTROL



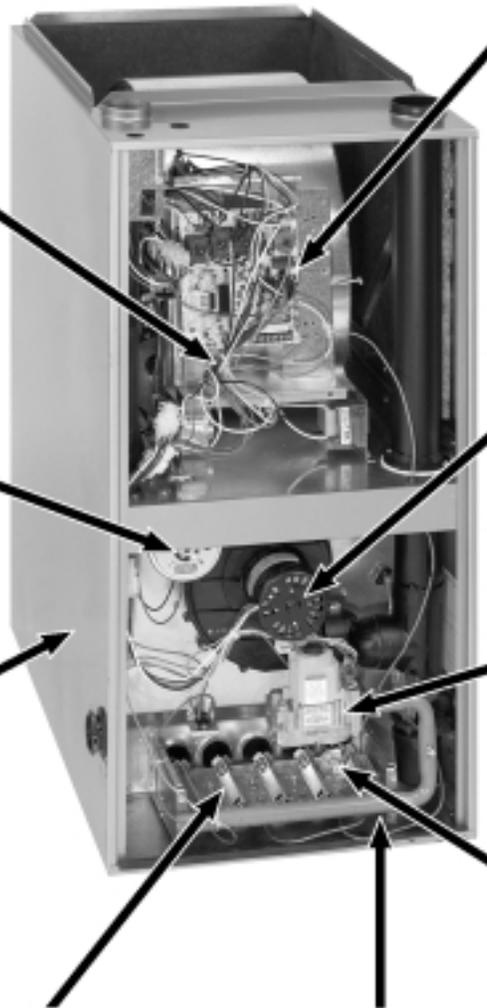
DRAFT INDUCER



GAS VALVE AND
MANIFOLD



DIRECT SPARK IGNITION



STANDARD EQUIPMENT

Completely assembled and wired; heat exchanger; primary: 409 and aluminized 409 stainless steel, secondary: 29-4C stainless steel; induced draft; pressure switch; 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; power and self-test diagnostics; flame sense current diagnostics; electronic air cleaner connections; twinning (built-in) features; humidifier connections; humidifier on/off delay; low speed continuous fan option; single speed option for heating and cooling applications; transformer; direct drive, multi-speed blower motor. (Please note: a thermostat is not included as standard equipment.)

OPTIONAL EQUIPMENT

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

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

PHYSICAL DATA AND SPECIFICATIONS

DOWNFLOW/HORIZONTAL MODELS U.S. and Canadian Models

| MODEL NUMBERS | RGTC-04EMAES | RGTC-06EMAES | RGTC-07ERBGS | RGTC-09EZAJS | RGTC-10ERBJS |
|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| INPUT-BTU/HR [kW] ① | 45,000 [13.19] | 60,000 [17.58] | 75,000 [21.98] | 90,000 [26.38] | 105,000 [30.77] |
| HEATING CAPACITY BTU/HR [kW] | 41,000 [12.02] | 56,000 [16.41] | 69,000 [20.22] | 84,000 [24.62] | 97,000 [28.43] |
| HIGH ALTITUDE INPUT [kW] ② | 40,500 [11.87] | 54,000 [15.83] | 67,500 [19.78] | 81,000 [23.74] | 94,500 [27.70] |
| HIGH ALTITUDE OUTPUT CAPACITY [kW] ② | 37,000 [10.84] | 50,400 [14.77] | 63,000 [18.46] | 75,000 [21.98] | 87,500 [25.64] |
| BLOWER (D x W) [mm] | 11 x 7 [279 x 178] | 11 x 7 [279 x 178] | 11 x 10 [279 x 254] | 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]-4-PSC | 1/2 [373]-4-PSC | 3/4 [559]-4-PSC | 3/4 [559]-4-PSC |
| MOTOR FULL LOAD AMPS | 6.8 | 6.8 | 6.8 | 9.5 | 9.5 |
| HEATING SPEED | MED-LOW | MED-HI | MED-HI | MED-HI | MED-HI |
| COOLING SPEED | HIGH | HIGH | HIGH | HIGH | HIGH |
| HEAT EXT. STATIC PRESSURE (IN. W.C.) [kPa] | .10 [.025] | .12 [.029] | .12 [.029] | .15 [.037] | .20 [.049] |
| RATED EXT. STATIC PRESSURE (IN. W.C.) [kPa] | .50 [.124] | .50 [.124] | .50 [.124] | .50 [.124] | .50 [.124] |
| HEATING CFM @ .2" W.C. E.S.P. [L/s] | 866 [409] | 1122 [530] | 1516 [716] | 1698 [802] | 1812 [856] |
| COOLING CFM @ .5" W.C. E.S.P. [L/s] | 1220 [576] | 1242 [586] | 1559 [736] | 1850 [873] | 1977 [934] |
| TEMPERATURE RISE RANGE °F [°C] | 30-60 [16.7-33.3] | 30-60 [16.7-33.3] | 30-60 [16.7-33.3] | 30-60 [16.7-33.3] | 35-65 [19.4-36.1] |
| STANDARD FILTER [mm] | (2) 12" x 20" [305 x 508] | (2) 14" x 20" [356 x 508] |
| APPROX. SHIPPING WEIGHT (LBS.) [kg] | 111 | 117 | 137 | 148 | 160 |
| AFUE ③ | 95.0% | 95.0% | 95.0% | 95.0% | 95.0% |

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.

② Canadian installations only.

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

MODEL IDENTIFICATION

| R | G | T | C | — | 06E | M | A | E | S |
|-------|-------------|--|---------------|---|---|--|------------------------------|--|-----------------------------------|
| Rheem | Gas Furnace | Downflow/ Horizontal Condensing Gas Furnace | Design Series | | Heating Input Designation | Blower Size | Variations | Heat/Cool Designation | Fuel Code |
| | | | | | Electric Ignition | M = 11 x 7 [279 x 178 mm] R = 11 x 10 [279 x 254 mm] Z = 12 x 11 [305 x 279 mm] | A = Std. B = Wide Cabinet | E = 1100-1300 CFM [519-613.5 L/s] G = 1500-1700 CFM [707.9-802.3 L/s] J = 1900-2100 CFM [896.7-991.1 L/s] | S = U.S. and Canadian Natural Gas |
| | | | | | Input BTU/HR | | | | |
| | | | | | 04E 45,000 [13 kW] 06E 60,000 [17.6 kW] 07E 75,000 [20.5 kW] 09E 90,000 [26.4 kW] 10E 105,000 [30.7 kW] | | | | |

[] Designates Metric Conversions

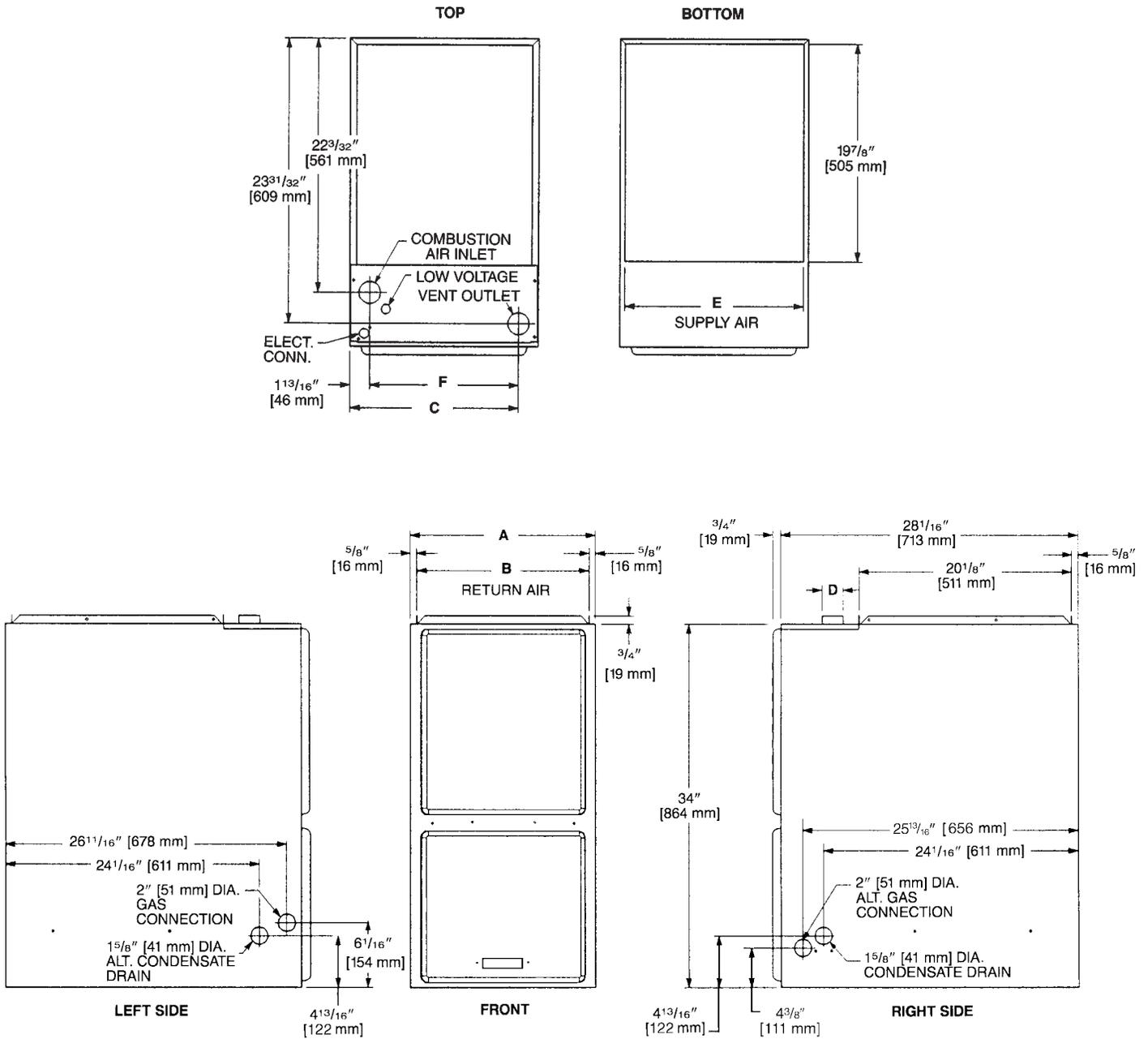
GENERAL TERMS OF LIMITED WARRANTY

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.

Primary and Secondary Heat Exchanger.....Limited Lifetime
Conditional Parts (Registration Required)Ten (10) Years

For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

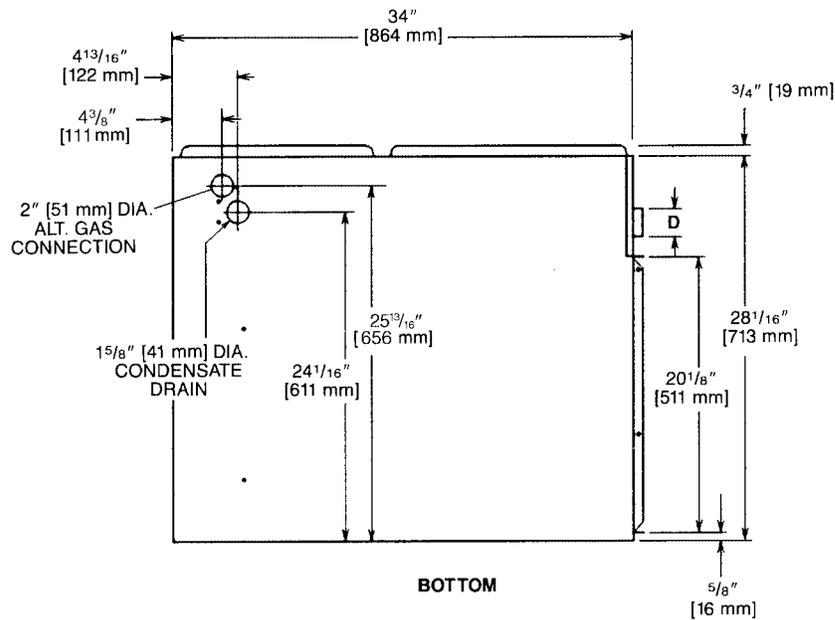
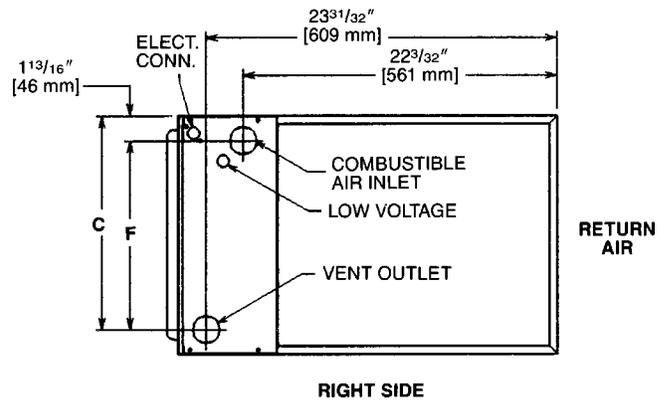
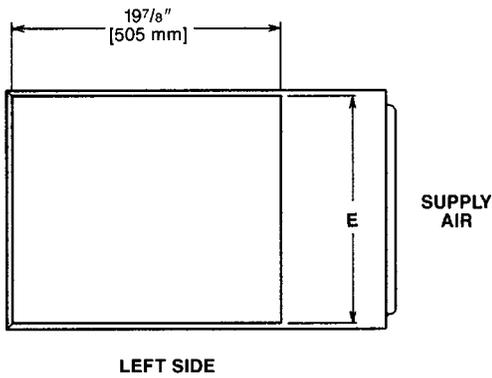
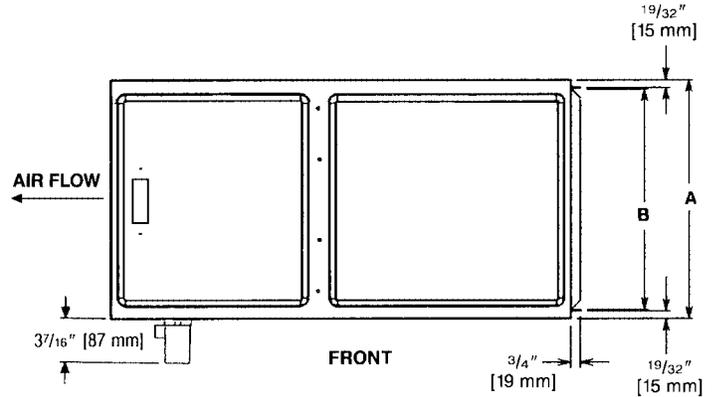
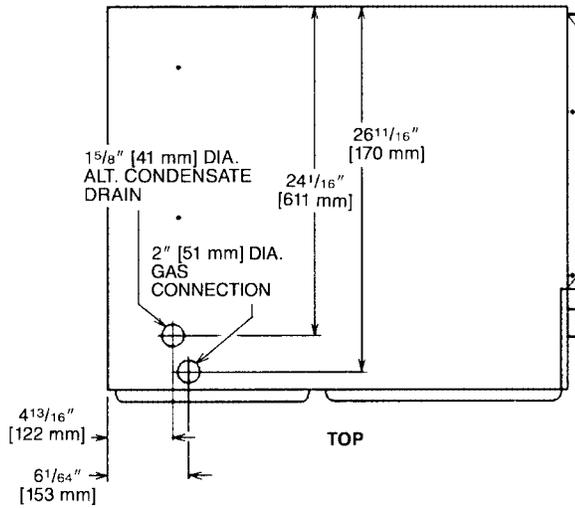
DOWNFLOW MODELS



| MODEL RGTC- | A | B | C | D | E | F | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. [kg] |
|----------------|--------------------------------------|--|---------------------------------------|--------|--------------------------------------|--------------------------------------|--------------|------------------------------|------|--------|--------|------|-----------------------|
| | | | | | | | | RIGHT SIDE | BACK | TOP | FRONT | VENT | |
| 04 | 17 ¹ / ₂ [445] | 16 ¹ / ₃₂ [415] | 15 ⁵ / ₈ [397] | 2 [51] | 16 ⁵ / ₈ [422] | 13 ⁷ / ₈ [352] | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 111 [50] |
| 06 | 17 ¹ / ₂ [445] | 16 ¹ / ₃₂ [415] | 15 ⁵ / ₈ [397] | 2 [51] | 16 ⁵ / ₈ [422] | 13 ⁷ / ₈ [352] | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 117 [53] |
| 07 | 21 [533] | 19 ²⁷ / ₃₂ [504] | 19 ³ / ₁₆ [486] | 2 [51] | 20 ¹ / ₈ [511] | 17 ³ / ₈ [441] | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 137 [62] |
| 09 | 21 [533] | 19 ²⁷ / ₃₂ [504] | 19 ³ / ₁₆ [486] | 2 [51] | 20 ¹ / ₈ [511] | 17 ³ / ₈ [441] | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 148 [67] |
| 10 | 24 ¹ / ₂ [622] | 23 ¹ / ₃₂ [593] | 22 ⁵ / ₈ [575] | 2 [51] | 23 ⁵ / ₈ [600] | 20 ⁷ / ₈ [530] | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 160 [73] |

IMPORTANT NOTE: Horizontal furnace may be installed for horizontal left hand air supply **ONLY**. The condensate trap provided for horizontal application must be installed in the field beneath the unit as directed in the furnace Installation & Operating Instructions.

HORIZONTAL MODELS



IMPORTANT NOTE: Horizontal furnace may be installed for horizontal left hand air supply **ONLY**. The condensate trap provided for horizontal application must be installed in the field beneath the unit as directed in the furnace Installation & Operating Instructions.

BLOWER PERFORMANCE DATA—RGTC MODELS

| MODEL RGTC- | BLOWER SIZE IN. [mm] | MOTOR H.P. [W] | BLOWER SPEED | CFM [L/s] AIR DELIVERY | | | | | | |
|----------------|----------------------------|----------------------|-----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | | EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [kPa] | | | | | | |
| | | | | 0.1 [.02] | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] |
| 04 | 11 x 7 [279 x 178] | 1/2 [373] | LOW | 794 [375] | 765 [361] | 735 [347] | 704 [332] | 672 [317] | 633 [299] | 594 [281] |
| | | | MED-LO | 890 [420] | 866 [409] | 842 [398] | 811 [383] | 779 [368] | 750 [354] | 721 [341] |
| | | | MED-HI | 1110 [524] | 1084 [512] | 1057 [499] | 1023 [483] | 989 [467] | 946 [447] | 902 [426] |
| | | | HIGH | 1383 [653] | 1350 [638] | 1317 [622] | 1274 [602] | 1230 [581] | 1171 [553] | 1112 [525] |
| 06 | 11 x 7 [279 x 178] | 1/2 [373] | <i>LOW*</i> | 816 [385] | 792 [374] | 767 [362] | 739 [349] | 711 [336] | 686 [324] | 661 [312] |
| | | | MED-LO | 924 [436] | 895 [423] | 866 [409] | 832 [393] | 798 [377] | 754 [356] | 710 [335] |
| | | | MED-HI | 1164 [550] | 1122 [530] | 1080 [510] | 1044 [493] | 1008 [476] | 966 [456] | 923 [436] |
| | | | HIGH | 1409 [665] | 1367 [646] | 1325 [626] | 1284 [606] | 1242 [586] | 1195 [564] | 1148 [542] |
| 07 | 11 x 10 [279 x 254] | 1/2 [373] | <i>LOW*</i> | 1126 [532] | 1097 [518] | 1068 [504] | 1036 [489] | 1003 [473] | 963 [455] | 923 [436] |
| | | | MED-LO | 1338 [632] | 1309 [618] | 1280 [604] | 1253 [592] | 1225 [579] | 1185 [560] | 1145 [541] |
| | | | MED-HI | 1555 [734] | 1516 [716] | 1477 [698] | 1440 [680] | 1402 [662] | 1349 [637] | 1295 [612] |
| | | | HIGH | 1743 [823] | 1696 [801] | 1649 [779] | 1604 [757] | 1559 [736] | 1501 [709] | 1442 [681] |
| 09 | 12 x 11 [305 x 279] | 3/4 [559] | <i>LOW*</i> | 1213 [573] | 1196 [565] | 1179 [557] | 1158 [547] | 1136 [536] | 1108 [523] | 1079 [510] |
| | | | MED-LO | 1504 [710] | 1474 [696] | 1443 [681] | 1415 [668] | 1387 [655] | 1348 [637] | 1308 [618] |
| | | | MED-HI | 1734 [819] | 1698 [802] | 1662 [785] | 1621 [766] | 1579 [746] | 1526 [721] | 1472 [695] |
| | | | HIGH | 2111 [997] | 2059 [972] | 2007 [948] | 1946 [919] | 1885 [890] | 1821 [860] | 1756 [829] |
| 10 | 11 x 10 [279 x 254] | 3/4 [559] | <i>LOW*</i> | 1324 [625] | 1309 [618] | 1294 [611] | 1272 [601] | 1250 [590] | 1221 [577] | 1191 [562] |
| | | | MED-LO | 1617 [764] | 1505 [753] | 1573 [743] | 1533 [724] | 1493 [705] | 1448 [684] | 1402 [662] |
| | | | MED-HI | 1842 [870] | 1812 [856] | 1781 [841] | 1728 [816] | 1674 [791] | 1619 [765] | 1564 [739] |
| | | | HIGH | 2204 [1041] | 2153 [1017] | 2102 [993] | 2040 [963] | 1977 [934] | 1905 [900] | 1833 [866] |

NOTE: Recommended heating blower speeds are in bold.

*Not allowed for heating speed tap.

ACCESSORIES—DOWNFLOW

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)

CONDENSATE PUMP KIT: RXGY-B01

NEUTRALIZER KIT: RXGY-A01

COMBUSTIBLE FLOOR BASE: RXGC-B17
RXGC-B21
RXGC-B24

EXTERNAL FILTER RACK: RXGF-CC

| FILTER RACK FILTER SIZES* INCHES [mm] | |
|---------------------------------------|-------------------------|
| MODEL RGTC- | RXGF-CC |
| 04 | (2) 12 x 20 [305 x 508] |
| 06 | (2) 12 x 20 [305 x 508] |
| 07 | (2) 12 x 20 [305 x 508] |
| 09 | (2) 12 x 20 [305 x 508] |
| 10 | (2) 14 x 20 [356 x 508] |

*Filter racks are shipped without filters.

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

[] Designates Metric Conversions

PLENUM DATA FOR "A" COILS

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

| FURNACE WIDTH IN. [mm] | PLENUM WIDTH IN. [mm] | PLENUM ADAPTER DOWNFLOW | COIL PLENUM |
|------------------------------|-----------------------------|----------------------------|----------------|
| 17½ [445] | 16¼ [413] | RXAA-C186 | RXAL-B16BU |
| 17½ [445] | 20¼ [514] | RXAA-C173 | RXAL-B20BU |
| 17½ [445] | 21⅝ [549] | RXAA-C187 | RXAL-B21BU |
| 17½ [445] | 25¼ [641] | RXAA-C174 | RXAL-B25BU |
| 21 [533] | 25¼ [641] | RXAA-C175 | RXAL-B25BU |
| 21 [533] | 22¼ [565] | RXAA-C176 | RXAL-B22BU |
| 21 [533] | 21⅝ [549] | RXAA-C188 | RXAL-B21BU |
| 24½ [622] | 25¼ [641] | RXAA-C177 | RXAL-B25BU |
| 24½ [622] | 21⅝ [549] | RXAA-C187 | RXAL-B21BU |

NOTE: See Form Number C11-206 for MultiFlex® coil data.

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

FOR HIGH ALTITUDES

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.

FOR LEFT SIDE (ALTERNATE) CONDENSATE DRAIN KIT: RXGY-H01 (All Models)

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.

**Rheem Heating,
Cooling and
Water Heating**

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



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