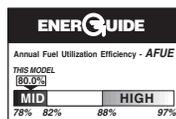


GAS FURNACES



RGPT- SERIES
Models with Input Rates from
50,000 to 125,000 BTU/HR
[15 to 37 kW]
(U.S. & Canadian Models)



RUUD

ACHIEVER® SERIES **SUPER QUIET 80™** **80.0% A.F.U.E.†** **UPFLOW/HORIZONTAL** **GAS FURNACES** **w/ECM MOTOR**

The Ruud Achiever® Series Super Quiet 80™ line of upflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, or attics. Because of the Super Quiet 80's 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.

Features

- Innovative combustion design results in reliable, efficient operation at sound levels which provide distinct competitive advantage.
- Patented Heat Exchanger, constructed of both stainless and aluminized steel for the maximum in corrosion resistance.
- 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.
- Robust and reliable direct spark ignition utilizing remote sense and an integrated board with humidifier and electronic air cleaner hookups.
- Insulated blower compartment helps to reduce jacket loss and noise.
- Pre-paint galvanized steel cabinet.
- Molded permanent filter.
- Grab-holes in doors to aid in easy door removal and replacement.
- ECM X-13 Blower Motor.

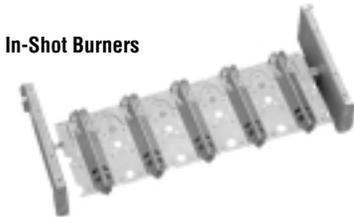
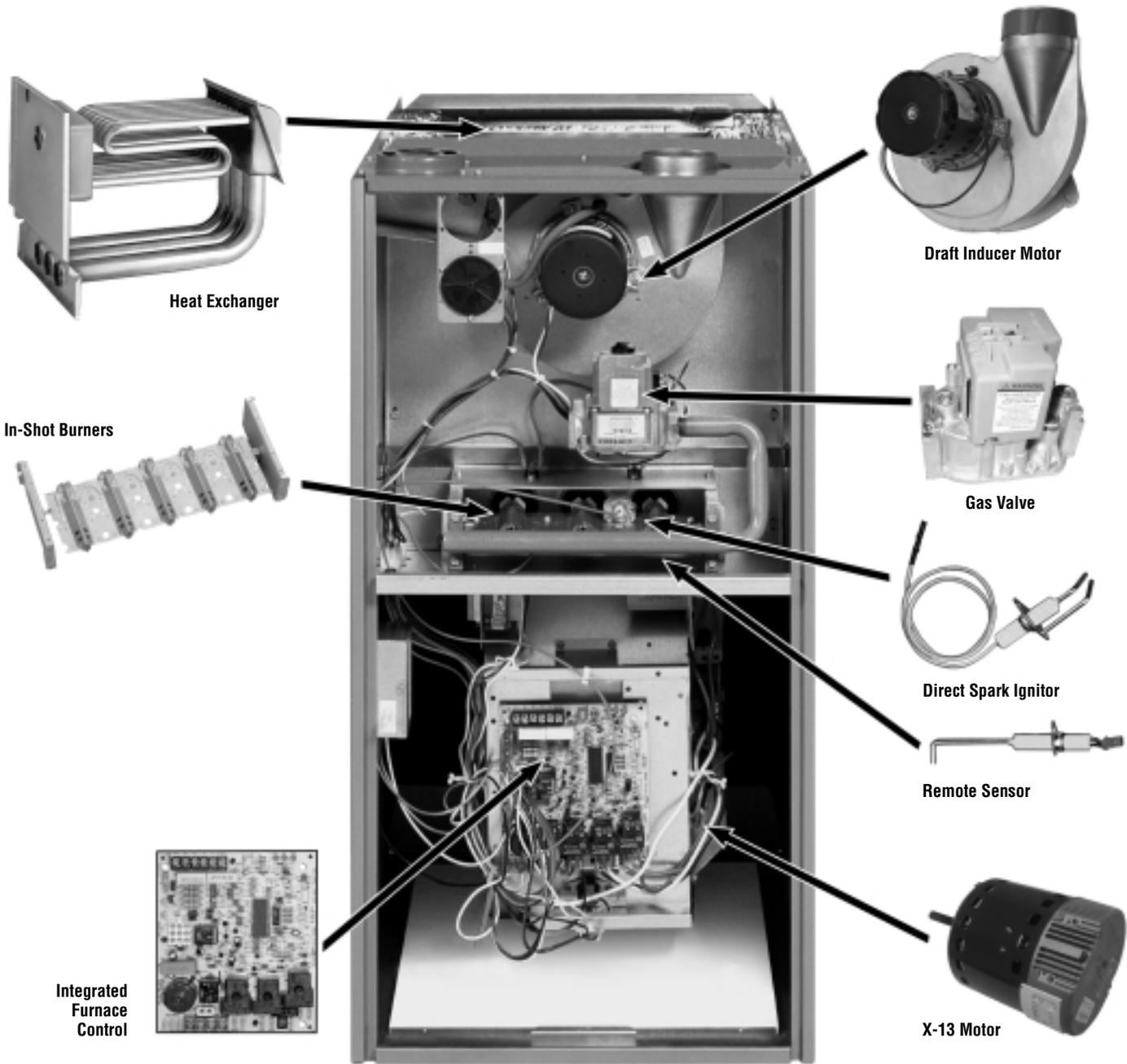
A variety of cooling coils and plenums designed to use with Ruud Achiever® Series Super Quiet 80™ gas furnaces are available as optional accessories.

These furnaces can be installed in an upflow position or laid on either side in a horizontal position. Field conversion not required.

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



ACHIEVER® SERIES SUPER QUIET 80™ UPFLOW/HORIZONTAL GAS FURNACE



STANDARD EQUIPMENT

Completely assembled and wired; induced draft blower; 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 with Regal Beloit X-13 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 options**; fused-protection (secondary), **3rd speed fan option for continuous fan**; **common heat/cool terminal**.

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 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 Form.

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

PHYSICAL DATA AND SPECIFICATIONS

U.S. AND CANADA MODELS (UPFLOW/HORIZONTAL)

| MODEL NUMBERS RGPT- SERIES | 05EBMKR 05NBMKR | 07EAMKR 07NAMKR | 07EBRQR 07NBRQR | 10EBRMR 10NBRMR | 12EARMR 12NARMR |
|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Input in BTU's/Hr [kW] ② | 50,000 [15] | 75,000 [22] | 75,000 [22] | 100,000 [29] | 125,000 [37] |
| Heating Capacity in BTU's/Hr [kW] ① | 41,000 [12] | 60,000 [18] | 60,000 [18] | 81,000 [24] | 99,000 [29] |
| High Altitude Input in BTU's/Hr [kW]* | 45,000 [13] | 67,500 [20] | 67,500 [20] | 90,000 [26] | 112,500 [33] |
| High Altitude Output Capacity in BTU's/Hr [kW]* | 36,500 [11] | 53,500 [16] | 53,500 [16] | 72,500 [21] | 89,000 [26.1] |
| Heat Ext. Static Pressure in "wc [kPa] | 0.1 [0.025] | 0.12 [0.029] | 0.12 [0.029] | 0.15 [0.037] | 0.2 [0.05] |
| Blower (D x W) in inches [mm] | 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.-Speeds - Type [W] | 3/4hp, 5spd, X-13 [559] | 1/2hp, 5spd, X-13 [373] | 1hp, 5spd, X-13 [746] | 1hp, 5spd, X-13 [746] | 1hp, 5spd, X-13 [746] |
| Motor Full Load Amps | 8.4 | 6.8 | 10.9 | 10.9 | 10.9 |
| Heating Speed (factory setting) | MED-LOW | MED | MED-LOW | MED-HIGH | MED-HIGH |
| Cooling Speed (factory setting) | HIGH | HIGH | HIGH | HIGH | HIGH |
| Cooling in CFM [L/s] @ 0.5"wc [0.12 kPa] E.S.P. (nominal) | 1600 [775] | 1200 [566] | 2000 [944] | 2000 [944] | 2000 [944] |
| Rated E.S.P. in "wc [kPa] | 0.5 [0.12] | 0.5 [0.12] | 0.5 [0.12] | 0.5 [0.12] | 0.5 [0.12] |
| Temperature Rise Range in °F [°C] | 25-55 [13.9-30.6] | 35-65 [19.4-36.1] | 25-55 [13.9-30.6] | 30-60 [17-33] | 35-65 [19.4-36.1] |
| Max Outlet Air in °F [°C] | 155 [68.3] | 165 [73.8] | 165 [73.8] | 190 [87.7] | 180 [82.2] |
| Standard Filter Dimensions in inches [mm] | 15-3/4 x 25 [400 x 635] | 15-3/4 x 25 [400 x 635] | 19-1/4 x 25 [489 x 635] | 19-1/4 x 25 [489 x 635] | 22-3/4 x 25 [578 x 635] |
| Approx. Shipping Weight in Lbs. [kg] | 105 [48] | 105 [48] | 120 [54] | 120 [54] | 140 [63] |
| Return Air Cabinets (Opt.) RXGR-?? Filter Size in inches [mm] | C17B (2) 12 x 16 [305 x 406] | C17B (2) 12 x 16 [305 x 406] | C21B (2) 20 x 16 [508 x 406] | C21B (2) 20 x 16 [508 x 406] | C24B (2) 24 x 16 [610 x 406] |
| AFUE - Electronic Ignition Modules ① | 80.0% | 80.0% | 80.0% | 80.0% | 80.0% |

NOTES: All models are 115V, 60HZ, Single Phase. 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.

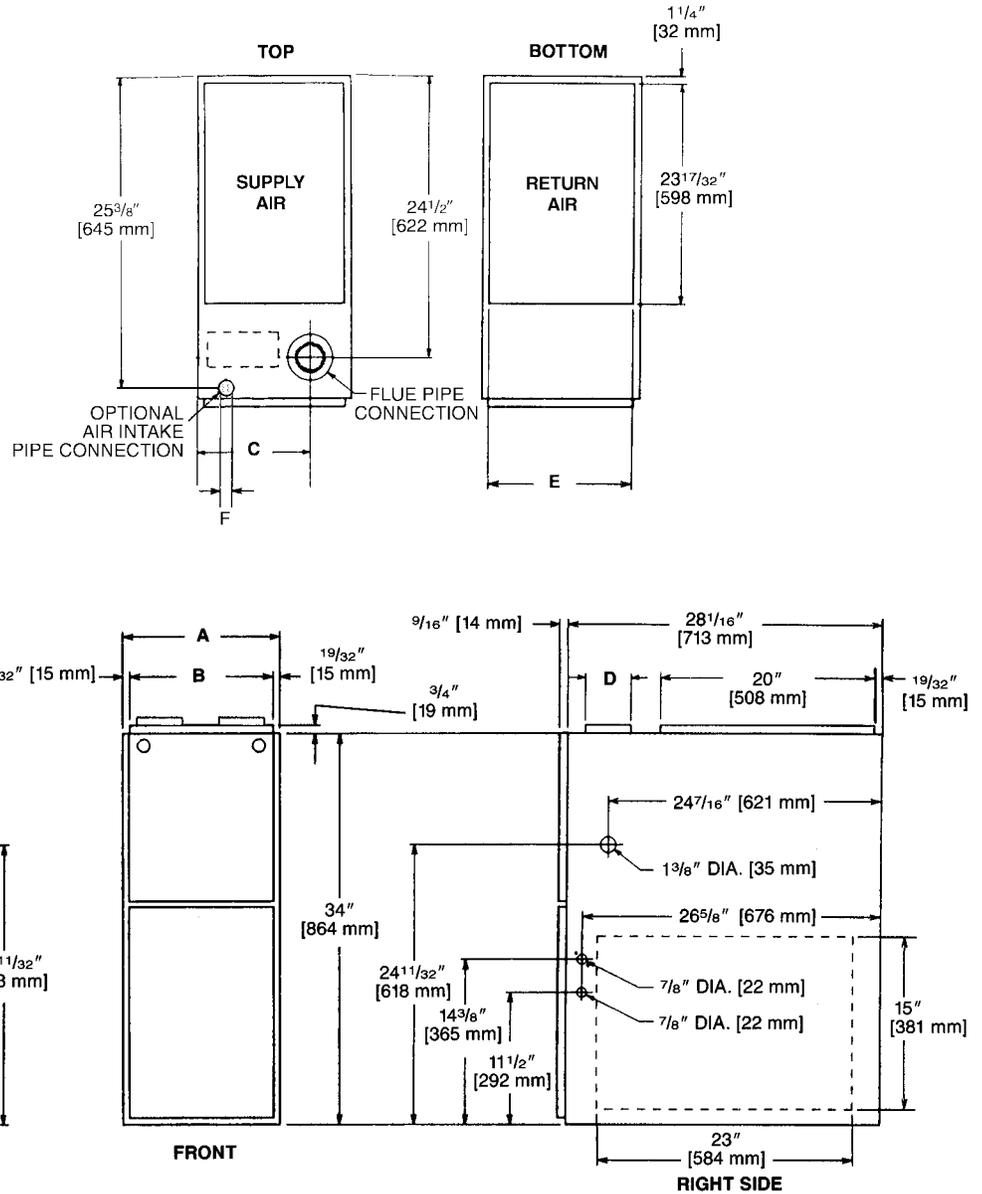
* Data references Canadian applications only.

MODEL IDENTIFICATION—UPFLOW MODELS

| <u>R</u> | <u>G</u> | <u>P</u> | <u>T</u> | <u>07E</u> | | | <u>A</u> | <u>M</u> | <u>K</u> | <u>R</u> |
|----------|----------|-----------------------|------------------|---------------------------|--------------------------|-----------------|---------------------|-------------------------------|--------------------------------------|---|
| Ruud | Gas | Upflow/ Horizontal | Design Series | Heating Input Designation | | | Variations | Blower Designation | Heating & Cooling Designation | Fuel Type |
| | Furnace | | | Electric Ignition | NO _x Model | Input BTU/HR | A = Std. Cabinet | M = 11 x 7 [279 x 178 mm] | K = 600-1200 CFM [283 x 566 L/s] | R = Natural Gas, U.S. and Canadian Standard Furnace |
| | | | | 05E | 05N | 50,000 [15 kW] | B = Wide Cabinet | R = 11 x 10 [279 x 254 mm] | Q = 1000-1600 CFM [472 x 755 L/s] | |
| | | | | 07E | 07N | 75,000 [22 kW] | | | M = 1200-2000 CFM [566 x 944 L/s] | |
| | | | | 10E | 10N | 100,000 [29 kW] | | | | |
| | | | | 12E | 12N | 125,000 [37 kW] | | | | |

[] Designates Metric Conversions

UPFLOW DIMENSIONS



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

| MODEL RGPT- | A | B | C | D | E | F | REDUCED CLEARANCES (IN.) [mm] | | | | | | |
|----------------|------------------------|--------------------------|------------------------|---|------------------------|----------------------|-------------------------------|---------------|------|--------|--------|-----------|----------------------------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | VENT | SHIP. WGTS. (LBS.) [kg] |
| 05 | 17 $\frac{1}{2}$ [445] | 16 $\frac{11}{32}$ [415] | 12 $\frac{3}{8}$ [314] | Ⓢ | 15 [381] | 2 $\frac{1}{2}$ [64] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 07(A) | 17 $\frac{1}{2}$ [445] | 16 $\frac{11}{32}$ [415] | 12 $\frac{3}{8}$ [314] | Ⓢ | 15 [381] | 2 $\frac{1}{2}$ [64] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 07(B) | 21 [533] | 19 $\frac{27}{32}$ [504] | 14 $\frac{1}{8}$ [359] | Ⓢ | 18 $\frac{1}{2}$ [470] | 2 $\frac{1}{2}$ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 10 | 21 [533] | 19 $\frac{27}{32}$ [504] | 14 $\frac{1}{8}$ [359] | Ⓢ | 18 $\frac{1}{2}$ [470] | 2 $\frac{1}{2}$ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 12 | 24 $\frac{1}{2}$ [622] | 23 $\frac{11}{32}$ [593] | 15 $\frac{7}{8}$ [403] | Ⓢ | 22 [559] | 2 $\frac{1}{2}$ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [63.5] |

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

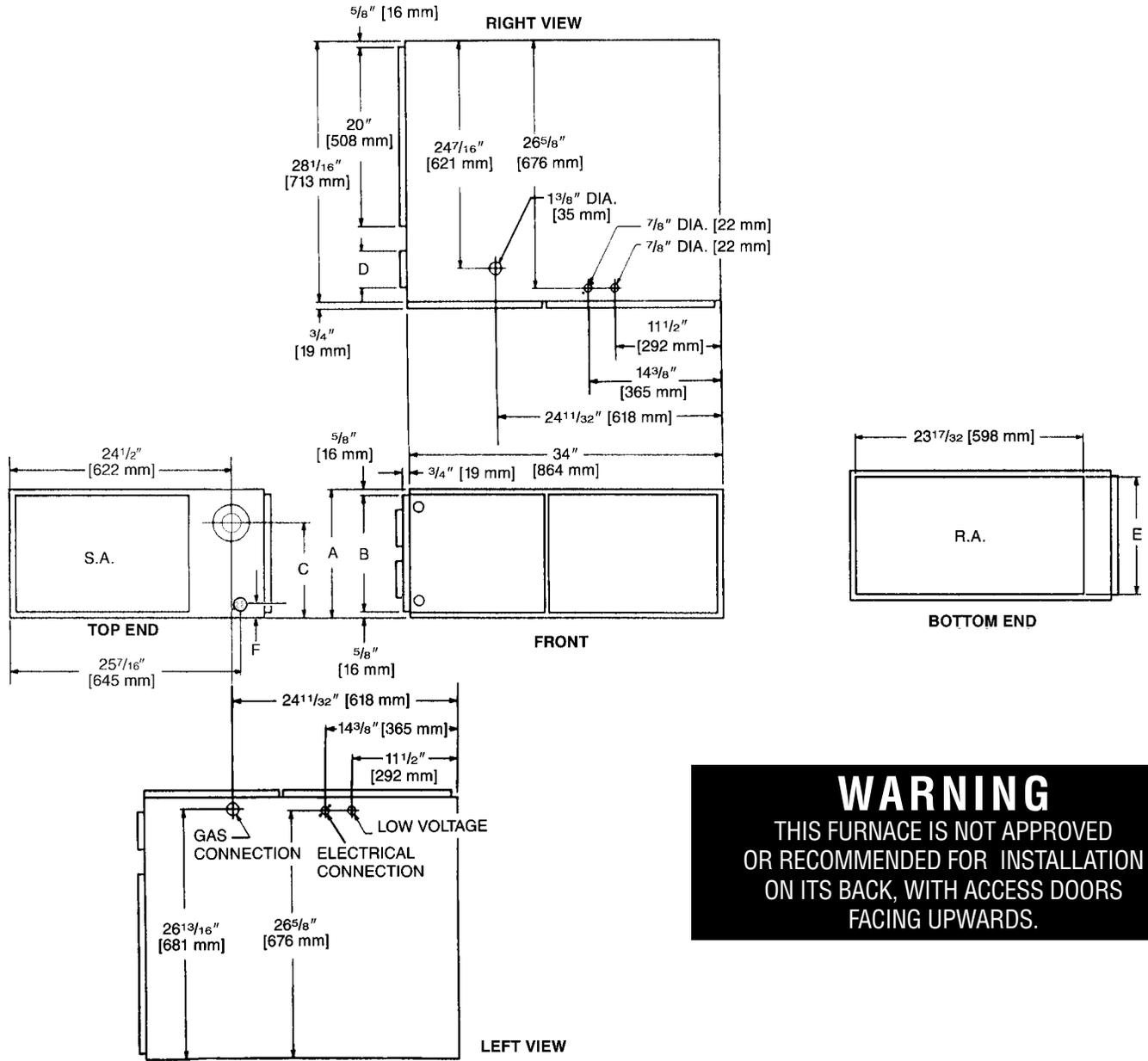
② May be 0" [0 mm] with type B vent.

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.

[] Designates Metric Conversions

HORIZONTAL DIMENSIONS



WARNING
 THIS FURNACE IS NOT APPROVED OR RECOMMENDED FOR INSTALLATION ON ITS BACK, WITH ACCESS DOORS FACING UPWARDS.

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

| MODEL RGPT- | A | B | C | D | E | F | REDUCED CLEARANCES (IN.) [mm] | | | | | | SHIP. WGTs. (LBS.) [kg] |
|-------------|--------------|-----------------|--------------|---|--------------|------------|-------------------------------|------------|------|--------|--------|-----------|-------------------------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | VENT | |
| 05 | 17 1/2 [445] | 16 11/32 [415] | 12 3/8 [314] | Ⓚ | 15 [381] | 2 1/2 [63] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 07 (A) | 17 1/2 [445] | 16 11/32 [415] | 12 3/8 [314] | Ⓚ | 15 [381] | 2 1/2 [63] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 07 (B) | 21 [533] | 19 27/32 [504] | 14 1/8 [359] | Ⓚ | 18 1/2 [470] | 2 1/2 [63] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 10 | 21 [533] | 19 27/32 [504] | 14 1/8 [359] | Ⓚ | 18 1/2 [470] | 2 1/2 [63] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 12 | 24 1/2 [622] | 23 1 1/32 [593] | 15 7/8 [403] | Ⓚ | 22 [559] | 2 1/2 [63] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [63.5] |

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.

[] Designates Metric Conversions

ACCESSORIES—UPFLOW

EXTERNAL BOTTOM FILTER RACK: RXGF-CB

| FILTER RACK FILTER SIZES† INCHES [mm] | |
|---------------------------------------|--|
| MODEL RGPT- | RXGF-CA (SIDE) |
| 05, 07(A), 07(B) | 15 ³ / ₄ x 25 [400 x 635] |
| 10 | 15 ³ / ₄ x 25 [400 x 635] |
| 12 | 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.

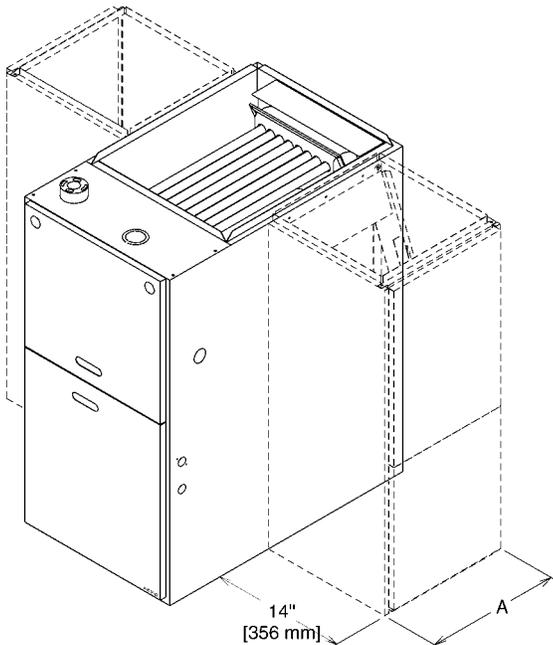
*Designates "E" or "N".

RXPF-F01 and F02

FOSSIL FUEL KITS are for use with Ruud Achiever Heat Pumps and Super Quiet 80 warm air furnaces. The RXPF-F02 meets TVA requirements.

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).



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 ¹ / ₂ [445] | (2) 12 x 16 [305 x 406] |
| RXGR-C21B | 21 [533] | (2) 20 x 16 [508 x 406] |
| RXGR-C24B | 24 ¹ / 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 ⁵ / ₈ x 23 ⁹ / ₁₆ [295 x 598] |
| 17 ¹ / ₂ [445] | RXGB-D17 | AE-61874-02 | 15 ¹ / ₈ x 23 ⁹ / ₁₆ [384 x 598] |
| 21 [533] | RXGB-D21 | AE-61874-03 | 18 ⁵ / ₈ x 23 ⁹ / ₁₆ [473 x 598] |
| 24 ¹ / ₂ [622] | RXGB-D24 | AE-61874-04 | 25 ⁵ / ₈ x 23 ⁹ / ₁₆ [651 x 598] |

FOR HIGH ALTITUDES:

OPTION CODE FOR HIGH ALTITUDE: 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.

[] Designates Metric Conversions

BLOWER PERFORMANCE DATA—UPFLOW/HORIZONTAL MODELS

| MODEL NUMBER RGPT-SERIES | BLOWER SIZE in INCHES [mm] (D x L) | MOTOR H.P. [W] | BLOWER SPEEDS | WIRE COLOR | MOTOR OUTPUT NUMBER | CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN | | | | | |
|-----------------------------|--|----------------------|------------------|---------------|---------------------------|--|-------------|-------------|-------------|-------------|------------|
| | | | | | | .1 [.02] | .2 [.05] | .3 [.07] | .5 [.12] | .6 [.15] | .8 [2.0] |
| | | | | | | | | | | | |
| 05EBMKR, 05NBMKR | 11 x 7 [279 x 178] | 3/4 [559] | LOW | RED | 1 | 727 [343] | 687 [324] | 636 [300] | 542 [255] | 513 [242] | 443 [209] |
| | | | MED-LO* | YELLOW* | 2* | 946 [446] | 915 [431] | 879 [414] | 823 [388] | 793 [374] | 717 [338] |
| | | | MED | PURPLE | 3 | 1169 [551] | 1136 [536] | 1102 [520] | 1048 [494] | 1025 [483] | 974 [459] |
| | | | MED-HI | BLUE | 4 | 1334 [629] | 1306 [616] | 1278 [603] | 1225 [578] | 1200 [566] | 1134 [535] |
| | | | HIGH | BLACK | 5 | 1657 [782] | 1611 [760] | 1572 [741] | 1474 [695] | 1433 [676] | 1319 [622] |
| 07EAMKR, 07NAMKR | 11 x 7 [279 x 178] | 1/2 [373] | LOW | RED | 1 | 840 [396] | 717 [338] | 634 [299] | 545 [257] | 495 [233] | 400 [188] |
| | | | MED-LO | YELLOW | 2 | 992 [468] | 945 [446] | 909 [429] | 831 [392] | 783 [369] | 702 [331] |
| | | | MED* | PURPLE* | 3* | 1214 [573] | 1176 [555] | 1129 [532] | 1053 [497] | 1022 [482] | 940 [443] |
| | | | MED-HI | BLUE | 4 | 1375 [649] | 1338 [631] | 1308 [617] | 1239 [584] | 1200 [566] | 1128 [532] |
| | | | HIGH | BLACK | 5 | 1488 [702] | 1452 [685] | 1422 [671] | 1352 [638] | 1316 [621] | 1248 [589] |
| 07EBRQR, 07NBRQR | 11 x 10 [279 x 254] | 1 [746] | LOW | RED | 1 | 1173 [553] | 1101 [519] | 1033 [487] | 918 [433] | 881 [415] | 763 [360] |
| | | | MED-LO* | YELLOW* | 2* | 1415 [667] | 1356 [640] | 1311 [618] | 1211 [571] | 1150 [542] | 1049 [495] |
| | | | MED | PURPLE | 3 | 1628 [768] | 1580 [745] | 1537 [725] | 1453 [685] | 1414 [667] | 1322 [623] |
| | | | MED-HI | BLUE | 4 | 1942 [916] | 1906 [899] | 1857 [876] | 1783 [841] | 1723 [813] | 1636 [772] |
| | | | HIGH | BLACK | 5 | 2422 [1143] | 2387 [1126] | 2351 [1109] | 2207 [1041] | 2144 [1011] | 1984 [936] |
| 10EBRMR, 10NBRMR | 11 x 10 [279 x 254] | 1 [746] | LOW | RED | 1 | 1177 [555] | 1110 [523] | 1044 [492] | 933 [440] | 888 [419] | 785 [370] |
| | | | MED-LO | YELLOW | 2 | 1396 [658] | 1351 [637] | 1297 [612] | 1200 [566] | 1149 [542] | 1053 [497] |
| | | | MED | PURPLE | 3 | 1607 [758] | 1572 [741] | 1526 [720] | 1445 [682] | 1408 [664] | 1320 [623] |
| | | | MED-HI* | BLUE* | 4* | 1916 [904] | 1879 [886] | 1833 [865] | 1760 [830] | 1695 [800] | 1622 [765] |
| | | | HIGH | BLACK | 5 | 2305 [1087] | 2274 [1073] | 2229 [1052] | 2160 [1019] | 2107 [994] | 1969 [929] |
| 12EARMR, 12NARMR | 11 x 10 [279 x 254] | 1 [746] | LOW | RED | 1 | 1173 [553] | 1041 [491] | 968 [456] | 851 [401] | 799 [377] | 684 [322] |
| | | | MED-LO | YELLOW | 2 | 1322 [623] | 1274 [601] | 1211 [571] | 1089 [514] | 1056 [498] | 951 [448] |
| | | | MED | PURPLE | 3 | 1560 [736] | 1490 [703] | 1447 [682] | 1357 [640] | 1311 [618] | 1228 [579] |
| | | | MED-HI* | BLUE* | 4* | 1913 [902] | 1871 [883] | 1827 [862] | 1730 [816] | 1686 [795] | 1606 [758] |
| | | | HIGH | BLACK | 5 | 2435 [1149] | 2394 [1129] | 2363 [1115] | 2258 [1065] | 2186 [1031] | 2019 [952] |

NOTES: * = FACTORY HEATING SPEED
 = NOT TO BE USED AS HEATING SPEED

[] Designates Metric Conversions

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.

Gas Heat Exchanger Limited Warranty Twenty (20) Years
 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.

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 Heating,
Cooling and
Water Heating**

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



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