



Ruud High Achiever® Super Quiet 80™ Upflow/ Horizontal Gas Furnace





RGPT- Series

80% A.F.U.E.† Input Rates 50-125 kBTU











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

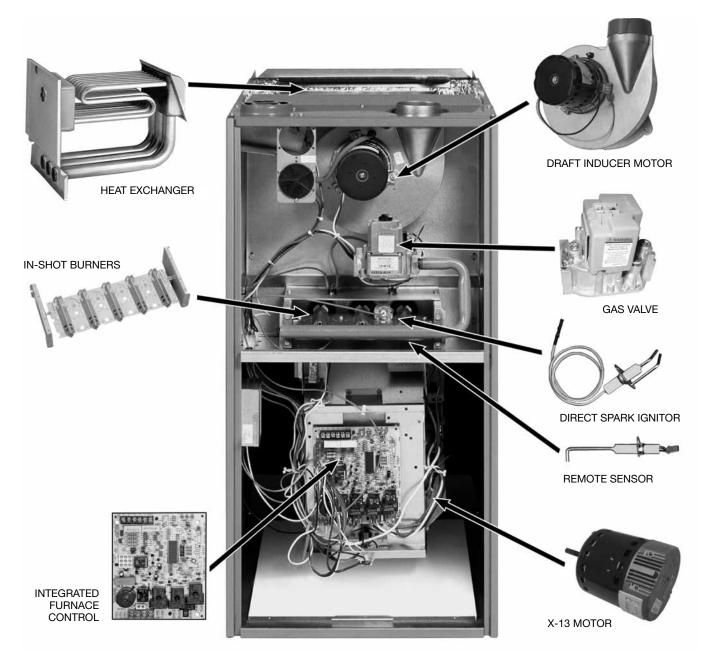
- The Ruud High Achiever® Super Quiet 80™ line of upflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, or attics. Because of the Super Quiet 80's low-profile 34 inch [864 mm] height, the upflow model can also be used to satisfy most applications that traditionally call for a horizontal furnace.
- The design is certified by CSA International.
- Innovative combustion 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" 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 High Achiever® 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.

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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

Model Features

- The design is certified by CSA International.
- Innovative combustion 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" 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 High Achiever® Super Quiet 80™ gas furnaces are available as optional accessories.

Physical Data and Specifications—Upflow/Horizontal Models U.S. and Canadian Models

MODEL NUMBERS	05EBMKR	07EAMKR	07EBRQR	10EBRMR	12EARMR
RGPT- SERIES	05NBMKR	07NAMKR	07NBRQR	10NBRMR	12NARMR
Input	50,000	75,000	75,000	100,000	125,000
in BTU's/Hr [kW] ②	[15]	[22]	[22]	[29]	[37]
Heating Capacity	41,000	60,000	60,000	81,000	99,000
in BTU's/Hr [kW] ①	[12]	[18]	[18]	[24]	[29]
High Altitude Input	45,000	67,500	67,500	90,000	112,500
in BTU's/Hr [kW]*	[13]	[20]	[20]	[26]	[33]
High Altitude Output Capacity in BTU's/Hr [kW]*	36,500	53,500	53,500	72,500	89,000
	[11]	[16]	[16]	[21]	[26.1]
Heat Ext. Static Pressure in "wc [kPa]	0.1	0.12	0.12	0.15	0.2
	[0.025]	[0.029]	[0.029]	[0.037]	[0.05]
Blower (D x W) in inches [mm]	11 x 7	11 x 7	11 x 10	11 x 10	11 x 10
	[279 x 178]	[279 x 178]	[279 x 254]	[279 x 254]	[279 x 254]
Motor H.PSpeeds -	3/4hp, 5spd,	1/2hp, 5spd,	1hp, 5spd,	1hp, 5spd,	1hp, 5spd,
Type [W]	X-13 [559]	X-13 [373]	X-13 [746]	X-13 [746]	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	1600	1200	2000	2000	2000
[0.12 kPa] E.S.P. (nominal)	[775]	[566]	[944]	[944]	[944]
Rated E.S.P.	0.5	0.5	0.5	0.5	0.5
in "wc [kPa]	[0.12]	[0.12]	[0.12]	[0.12]	[0.12]
Temperature Rise Range	25-55	35-65	25-55	30-60	35-65
in °F [°C]	[13.9-30.6]	[19.4-36.1]	[13.9-30.6]	[17-33]	[19.4-36.1]
Max Outlet Air	155	165	165	190	180
in °F [°C]	[68.3]	[73.8]	[73.8]	[87.7]	[82.2]
Standard Filter Dimensions in inches [mm]	15-3/4 x 25	15-3/4 x 25	19-1/4 x 25	19-1/4 x 25	22-3/4 x 25
	[400 x 635]	[400 x 635]	[489 x 635]	[489 x 635]	[578 x 635]
Approx. Shipping Weight in Lbs. [kg]	105	105	120	120	140
	[48]	[48]	[54]	[54]	[63]
Return Air Cabinets (Opt.)	C17B	C17B	C21B	C21B	C24B
RXGR-?? Filter Size	(2) 12 x 16	(2) 12 x 16	(2) 20 x 16	(2) 20 x 16	(2) 24 x 16
in inches [mm]	[305 x 406]	[305 x 406]	[508 x 406]	[508 x 406]	[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.

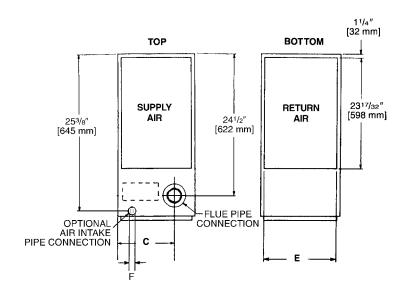
[@] See Conversion Kit Index Form for high altitude derate in U.S. applications. For Canadian applications, reference the furnace installation instructions.

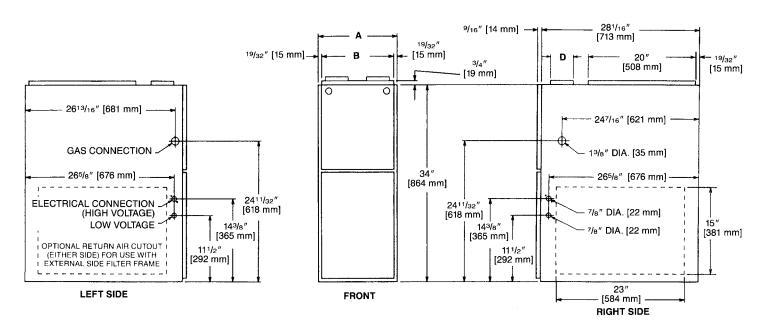
^{*} Data references Canadian applications only.

Model Number Identification

<u>R</u>	<u>G</u>	<u>P</u>	Ţ	-	<u>07</u>	<u>Έ</u>	<u>A</u>	<u>M</u>	<u>K</u>	<u>R</u>
Ruud	Gas Furnace	Upflow/ Horizontal	Design Series	Heat Electric Ignition 05E 07E 10E 12E	nting Input NOx <u>Model</u> 05N 07N 10N 12N	Input BTU/HR 50,000 [15 kW] 75,000 [22 kW] 100,000 [29 kW] 125,000 [37 kW]	Variations A = Std. Cabinet B = Wide Cabinet	Blower Designation M = 11 x 7 [279 x 178 mm] R = 11 x 10 [279 x 254 mm]	Heating & Cooling Designation K = 600-1200 CFM [283 x 566 L/s] Q = 1000-1600 CFM [472 x 755 L/s] M = 1200-2000 CFM [566 x 944 L/s]	Fuel Type R = Natural Gas, U.S. and Canadian Standard Furnace

Upflow Applications





Dimensional Data

MODEL									REDUCEI	CLEAR/	ANCES (IN	.) [mm]	
RGPT-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	ВАСК	ТОР	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]
05	171/2 [445]	16 ¹¹ /32 [415]	12 ³ /8 [314]	1	15 [381]	21/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
07(A)	171/2 [445]	16 ¹¹ /32 [415]	12 ³ /8 [314]	1	15 [381]	21/2 [64]	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]	1	18 ¹ / ₂ [470]	21/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
10	21 [533]	19 ²⁷ / ₃₂ [504]	14 ¹ /8 [359]	1	18 ¹ / 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]

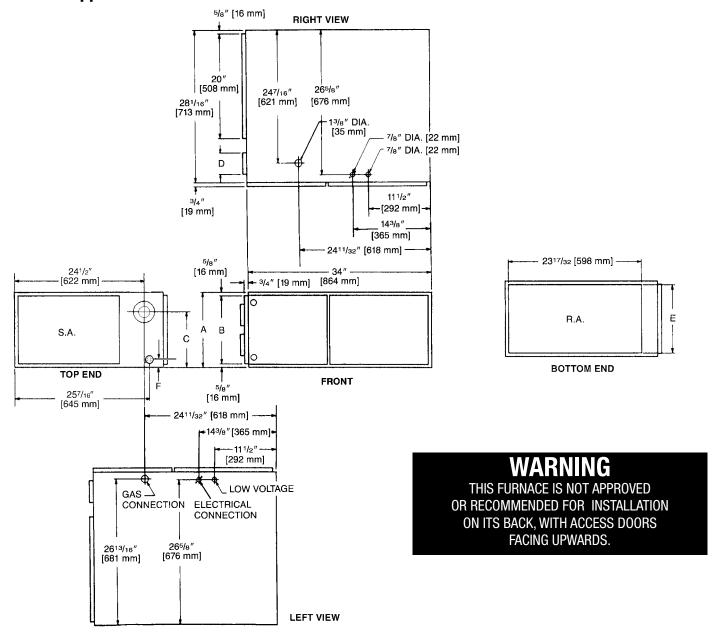
NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

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 Applications



Dimensional Data

MODEL								I	REDUCE	CLEAR/	NCES (IN	.) [mm]	
RGPT-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]
05	171/2 [445]	16 ¹¹ /32 [415]	12 ³ /8 [314]	1	15 [381]	21/2 [63]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
07 (A)	171/2 [445]	1611/32 [415]	123/8 [314]	1	15 [381]	21/2 [63]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
07 (B)	21 [533]	1927/32 [504]	141/8 [359]	1	181/2 [470]	21/2 [63]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
10	21 [533]	1927/32 [504]	141/8 [359]	1	181/2 [470]	21/2 [63]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	241/2 [622]	2311/32 [593]	15 ⁷ /8 [403]	1	22 [559]	21/2 [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.

Blower Performance Data

MODEL NUMBER RGPT-	BLOWER SIZE in INCHES	MOTOR H.P.	BLOWER SPEEDS	WIRE COLOR	MOTOR OUTPUT	E	XTERNAL STAT		IR DELIVERY Inches [kpa] \	WATER COLUM	N
SERIES	[mm] (D x L)	[W]	0	002011	NUMBER	.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 MED-LO* MED MED-HI HIGH	RED YELLOW* PURPLE BLUE BLACK	1 2* 3 4 5	727 [343] 946 [446] 1169 [551] 1334 [629] 1657 [782]	687 [324] 915 [431] 1136 [536] 1306 [616] 1611 [760]	636 [300] 879 [414] 1102 [520] 1278 [603] 1572 [741]	542 [255] 823 [388] 1048 [494] 1225 [578] 1474 [695]	513 [242] 793 [374] 1025 [483] 1200 [566] 1433 [676]	443 [209] 717 [338] 974 [459] 1134 [535] 1319 [622]
07EAMKR, 07NAMKR	11 x 7 [279 x 178]	1/2 [373]	LOW MED-LO MED* MED-HI HIGH	RED YELLOW PURPLE* BLUE BLACK	1 2 3* 4 5	840 [396] 992 [468] 1214 [573] 1375 [649] 1488 [702]	717 [338] 945 [446] 1176 [555] 1338 [631] 1452 [685]	634 [299] 909 [429] 1129 [532] 1308 [617] 1422 [671]	545 [257] 831 [392] 1053 [497] 1239 [584] 1352 [638]	495 [233] 783 [369] 1022 [482] 1200 [566] 1316 [621]	400 [188] 702 [331] 940 [443] 1128 [532] 1248 [589]
07EBRQR, 07NBRQR	11 x 10 [279 x 254]	1 [746]	LOW MED-LO* MED MED-HI HIGH	RED YELLOW* PURPLE BLUE BLACK	1 2* 3 4 5	1173 [553] 1415 [667] 1628 [768] 1942 [916] 2422 [1143]	1101 [519] 1356 [640] 1580 [745] 1906 [899] 2387 [1126]	1033 [487] 1311 [618] 1537 [725] 1857 [876] 2351 [1109]	918 [433] 1211 [571] 1453 [685] 1783 [841] 2207 [1041]	881 [415] 1150 [542] 1414 [667] 1723 [813] 2144 [1011]	763 [360] 1049 [495] 1322 [623] 1636 [772] 1984 [936]
10EBRMR, 10NBRMR	11 x 10 [279 x 254]	1 [746]	LOW MED-LO MED MED-HI* HIGH	RED YELLOW PURPLE BLUE* BLACK	1 2 3 4* 5	1177 [555] 1396 [658] 1607 [758] 1916 [904] 2305 [1087]	1110 [523] 1351 [637] 1572 [741] 1879 [886] 2274 [1073]	1044 [492] 1297 [612] 1526 [720] 1833 [865] 2229 [1052]	933 [440] 1200 [566] 1445 [682] 1760 [830] 2160 [1019]	888 [419] 1149 [542] 1408 [664] 1695 [800] 2107 [994]	785 [370] 1053 [497] 1320 [623] 1622 [765] 1969 [929]
12EARMR, 12NARMR	11 x 10 [279 x 254]	1 [746]	LOW MED-LO MED MED-HI* HIGH	RED YELLOW PURPLE BLUE* BLACK	1 2 3 4* 5	1173 [553] 1322 [623] 1560 [736] 1913 [902] 2435 [1149]	1041 [491] 1274 [601] 1490 [703] 1871 [883] 2394 [1129]	968 [456] 1211 [571] 1447 [682] 1827 [862] 2363 [1115]	851 [401] 1089 [514] 1357 [640] 1730 [816] 2258 [1065]	799 [377] 1056 [498] 1311 [618] 1686 [795] 2186 [1031]	684 [322] 951 [448] 1228 [579] 1606 [758] 2019 [952]

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

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]						

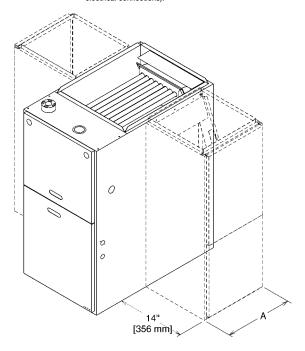
[†] Filter racks are shipped without filters.

RXPF-F01 and F02

FOSSIL FUEL KITS are for use with Ruud *High 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	171/2 [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	115/8 x 239/16 [295 x 598]
171/2 [445]	RXGB-D17	AE-61874-02	15 ¹ / ₈ x 23 ⁹ / 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]

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.

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

^{*}Designates "E" or "N".

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 and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Heat ExchangerTwenty (20) Years Conditional Parts* (Registration Required)Ten (10) Years



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

Ruud Heating, Cooling & Water Heating • P.O. Box 17010 Fort Smith, Arkansas 72917 • www.ruud.com Ruud Canada • 125 Edgeware Road, Unit 1 Brampton, Ontario • L6Y 0P5