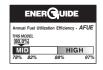
GAS FURNACES



UGPR- SERIES ECM Equipped Models with Input Rates from 50,000 to 125,000 BTU/HR 115 Volts, 60 Hz, Single Phase [15 to 37 kW] (U.S. & Canadian Models)













SUPER QUIET 80 TWO STAGE UPFLOW/HORIZONTAL GAS FURNACES

The Ruud *Ultra Series® Super Quiet 80* Two Stage line of upflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, or attics. Because of the Ultra's low-profile 34 inch [864 mm] height, the upflow model installed vertically can also be used to satisfy most applications that traditionally call for a horizontal furnace.

The design is certified by CSA International.

Features

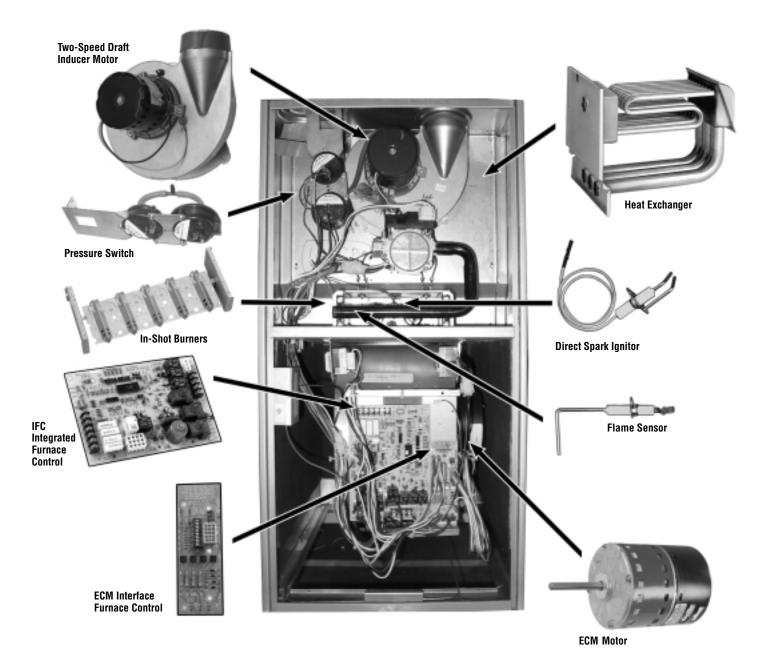
- Patented Heat Exchanger, constructed of both stainless and aluminized steel for the maximum in corrosion resistance.
- Low profile "34 inch" [864 mm] design is lighter and easier to handle, and leaves room for optional equipment.
- Energy efficient and quiet ECM 2+ motor.
- Improves cooling efficiency when matched with rated condensing unit and coil.
- Constant CFM.
- Dip switch settings for selectable cooling airflow.
- On-demand dehumidification terminal for improved comfort in cooling mode.
- Convertible from upflow to horizontal left or right.
- Left or right side gas and electric inlet connections.
- All models equipped with flame sensor feature, an integrated board with humidifier and electronic air cleaner hookups.
- Insulated blower compartment, a slow-open gas valve, a specially designed draft inducer motor and blower motor make it one of the quietest furnaces on the market today.
- Pre-paint galvanized steel cabinet.
- Molded permanent filter.
- 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 Ruud *Ultra Series® Super Quiet 80* Two Stage gas furnaces are available as optional accessories.

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



RUUD *ULTRA SERIES SUPER QUIET 80*TWO STAGE UPFLOW/HORIZONTAL GAS FURNACE



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; ECM 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; fused protection (secondary).

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 HVAC professional 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 (UPFLOW) U.S. AND CANADA MODELS

MODEL NUMBERS UGPR- SERIES			07EAMKR 07NAMKR	07EBRQR 07NBRQR	10EBRMR 10NBRMR	12EARMR 12NARMR
100% High Input–BTU/Hr [k	100% High Input-BTU/Hr [kW] ②		75,000 [22]	75,000 [22]	100,000 [29]	125,000 [37]
High Heating Capacity-BTU/	Hr [kW] ①	40,000 [12]	60,000 [18]	60,000 [18]	80,000 [23]	100,000 [29]
70% Low Input-BTU/Hr [kW	/]	35,000 [10]	52,500 [15]	52,500 [15]	70,000 [20]	87,500 [25]
Low Heating Capacity-BTU/F	Hr [kW]	28,000 [8]	42,000 [12]	42,000 [12]	56,000 [16]	70,000 [20]
Heating-Ext. Static Pressure	[kPa]	.10 [.025]	.15 [.037]	.15 [.037]	.20 [.05]	.20 [.05]
Blower (D x W) [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]
ECM Motor H.P. [W]		3/4 [559]	1/2 [373]	3/4 [559]	1 [746]	1 [746]
Motor Full Load Amps.		9.6	7.7	9.6	12.8	12.8
Unit Amps	Unit Amps		8.7	12.0	12.0	12.0
Maximum Overcurrent Prote	Maximum Overcurrent Protection		15	15	15	15
Heating Speed CFM-High Fir	Heating Speed CFM-High Fire [L/s]		1176 [555]	1305 [616]	1600 [753]	1832 [865]
Heating Speed CFM-Low Fire	e [L/s]	625 [295]	980 [462]	1125 [533]	1300 [615]	1420 [670]
Cooling CFM @ .5" [kPa] E.S (Nominal) [L/s]	S.P.	1200 [566]	1200 [566]	1600 [755]	2000 [944]	2000 [944]
Max. E.S.P. (In. W.C.) [kPa]		0.8 [.2]	0.8 [.2]	0.8 [.2]	0.8 [.2]	0.8 [.2]
	gh Input	25-55 [13.9-30.6]	30-60 [17-33]	25-55 [13.9-30.6]	30-60 [17-33]	35-65 [19.4-36.1]
	w Input	20-50 [11.1-27.8]	20-50 [11.1-27.8]	20-50 [11.1-27.8]	25-55 [13.9-30.6]	30-60 [17-33]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	165 [73.8]	165 [73.8]	170 [76.6]	180 [82.2]
Standard Filter Size–Inches [mm]	Standard Filter Size–Inches [mm]		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 (Lt	Approx. Shipping Weight (Lbs.) [kg]		115 [52]	115 [52]	120 [54]	140 [63]
Return Air Cabinets (Opt.) RXGR- Filter Size [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 ①		80%	80%	80%	80%	80%

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

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 Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

Gas Heat Exchanger Limited WarrantyTwenty (20) Years *Any Other Part......Five (5) Years

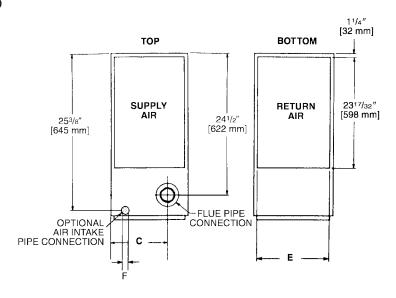
MODEL IDENTIFICATION—UPFLOW MODELS

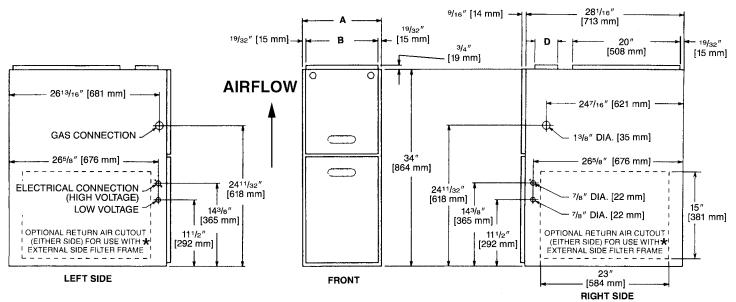
<u>U</u>	<u>G</u>	<u>P</u>	<u>R</u>		<u>07</u>	<u>E</u>	<u>A</u>	<u>M</u>	<u>K</u>	<u>R</u>	278
Ruud	Gas Furnace	Upflow/ Horizontal	Design Series	Heat Electric Ignition 05E 07E 10E 12E	ing Input NOx <u>Model</u> 05N 07N 10N 12N	Input BTU/HR 50,000 [15 kW] 75,000 [22 kW] 100,000 [29 kW] 125,000 [37 kW]	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 [283-566 L/s] M = 1200-2000 CFM [566-944 L/s] Q = 1000-1600 CFM [566-944 L/s]	Fuel Type R = Natural Gas, U.S. and Canadian Standard Furnace	Option Code for High Altitude, (available on certain models)

② See Conversion Kit Index Form for high altitude derate.

^{*}This five year limited warranty is applicable only to single-phase products installed in residential applications on or after January 1, 2001.

UPFLOW DIMENSIONS





^{*}Both sides for 1800 CFM & above

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

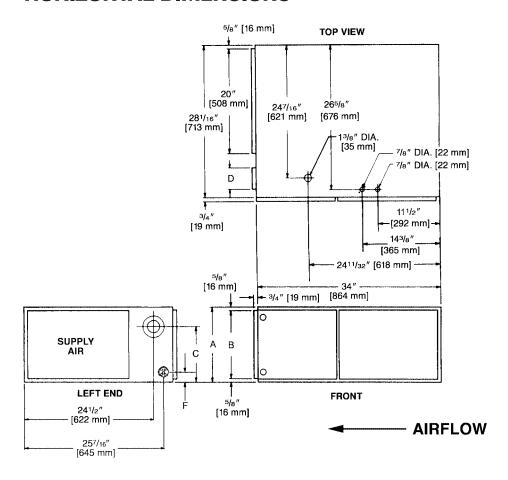
MODEL								I	REDUCE	CLEARA	NCES (IN	.) [mm]	
UGPR-	A	В	С	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	SHIP. WGTS. (LBS.) [Kg]
05, 07A	171/2 [445]	1611/32 [415]	123/8 [314]	1	15 [381]	21/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
07B, 10	21 [533]	19 ²⁷ / ₃₂ [504]	14 ¹ /8 [359]	1	18 ¹ / 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]	15 ⁷ /8 [403]	1	22 [559]	21/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]

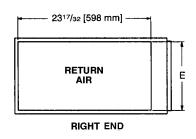
NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

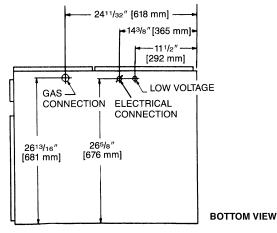
Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and/or Can/CGA-B149 Installation Codes and in accordance with local codes.

² May be 0" [0 mm] with type B vent.
3 May be 1" [25 mm] with type B vent.

HORIZONTAL DIMENSIONS







WARNING

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

NOTE: In horizontal configuration, return air cutout is not permitted.

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

									`				
MODEL								I	REDUCEI	CLEAR!	ANCES (IN	.) [mm]	
UGPR-	A	В	С	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	SHIP. WGTS. (LBS.) [Kg]
05, 07A	171/2 [445]	1611/32 [415]	123/8 [314]	1	15 [381]	21/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	110 [49.9]
07B, 10	21 [533]	1927/32 [504]	141/8 [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]	15 ⁷ /8 [403]	1	22 [559]	21/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]

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

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.

² May be 0" [0 mm] with type B vent.

³ May be 1" [25 mm] with type B vent.

BLOWER PERFORMANCE DATA—UPFLOW/HORIZONTAL MODELS

MODEL UGPR-	BLOWER SIZE (D X W) INCHES [mm]	ECM Motor H.P. [W]	BLOWER SPEED	CFM (L/s) AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [kPa]
			HIGH	.1 [.025]8 [.2]
05	11 x 7 [279 x 178]	3/4 [559]	MED-HI MED LOW	1200 [566] 1000 [472] 800 [378] 600 [283]
07A	11 x 7 [279 x 178]	1/2 [373]	HIGH MED-HI MED LOW	1200 [566] 1000 [472] 800 [378] 600 [283]
07B	11 x 10 [279 x 254]	3/4 [559]	HIGH MED-HI MED LOW	1600 [755] 1400 [661] 1200 [566] 1000 [472]
10, 12	11 x 10 [279 x 254]	1 [746]	HIGH MED-HI MED LOW	2000 [944] 1600 [755] 1400 [661] 1200 [566]

Note: See Coil Specification Sheet for coil data.

ACCESSORIES—UPFLOW

INTERNAL FILTER RACK FOR BOTTOM

OR SIDE RETURN: RXGF-DA*

*Filters available through PROSTOCK®.

SIDE RETURN FILTER RACK: RXGF-CA
BOTTOM RETURN FILTER RACK FOR
UPFLOW APPLICATION: RXGF-CB

FILTER RACK FILTER SIZES† INCHES [mm]						
MODEL UGPR-	RXGF-CA (SIDE)					
05, 07*AMK	15 ³ / ₄ x 25 [400 x 635]					
07*BRQ, 10	15 ³ / ₄ x 25 [400 x 635]					
12	15 ³ / ₄ x 25 [400 x 635]					

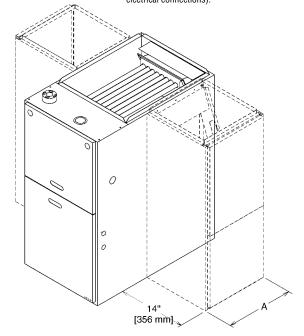
[†]Filter racks are shipped without filters.

RXPF-F01 and F02

FOSSIL FUEL KIT—is for use with Ruud Heat Pumps and Super Quiet 80 warm air furnaces. RXPF-F02 also 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-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	241/2 [622]	(2) 24 x 16 [610 x 406]

	WARNING:	IMPORTANT NO	TICE				
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]				
171/2 [445]	RXGB-D17	AE-61874-02	151/8 x 239/16 [384 x 598]				

AE-61874-03

AF-61874-04

18⁵/₈ x 23⁹/₁₆ [473 x 598]

25⁵/8 x 23⁹/₁₆ [651 x 598]

RXGW-B01 CHIMNEY ADAPTER

RXGB-D21

RXGB-D24

See Installation Instructions for application limitations.

FOR HIGH ALTITUDES:

[533]

241/2 [622]

HIGH ALTITUDE OPTION CODE: U.S. & Canada – 278 **HIGH ALTITUDE KIT:** RXGY-F13 (for all models)

NOTE: High altitude kits and options do **NOT** include additional burner orifices. If a burner orifice change is necessary, they must be ordered through PROSTOCK®. See Installation instructions for more information.

Option — 278 furnaces are shipped with #51 DMS orifices installed. This is one drill size smaller than standard furnaces to account for expected average elevations and heating values typically seen in these areas.

CAUTION: Always follow National Fuel Gas Code (NFGC) guidelines when converting furnaces for high altitudes.

For all installations above 2000 ft. (including all option — 278 models), the burner orifice size needs to be recalculated and verified. A burner orifice change may still be required. 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.

(U.S. Models—Kit packaged with furnace. Requires field installation).

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

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 AIR CONDITIONING DIVISION

5600 Old Greenwood Road, Fort Smith, Arkansas 72908

