

The new degree of comfort.™

Rheem *Classic Plus*™ Series Upflow/Horizontal Gas Furnace

R802P- Upflow/Horizontal Series

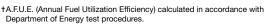
80% A.F.U.E.† Input Rates 50-150 kBTU













- 80% residential Gas Furnace CSA certified
- Two stages of operation to save energy and maintain optimal comfort level.
- 3 way multi poise design UF / HZ
- PlusOne[™] Diagnostics 7 Segment LED all units
- PlusOne[™] Ignition System DSI for reliability and longevity
- Heat exchanger is removable for improved serviceability.
 Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability.
- Solid doors provide quiet operation
- · Solid bottom

- Insulated blower compartment
- Low profile 34" cabinet ideal for space constrained installations
- Blower shelf design serviceable in all furnace orientations
- · Hemmed edges on cabinets and doors
- 1/4 turn door knobs for tool less access
- Integrated Control board features dip switches for easy system set up
- QR code for quick access to product information from your smart phone or tablet

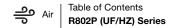
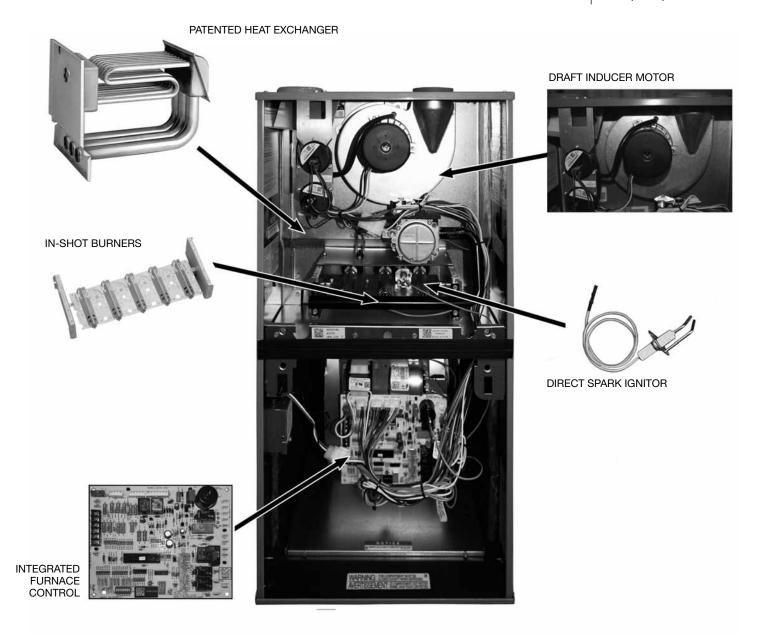


TABLE OF CONTENTS

Standard & Optional Equipment	3
Model Features/Physical Data & Specifications	4
Model Number Identification	5
Dimensional Data	6-7
Blower Performance Data	8
Accessories	9
Limited Warranty	10



STANDARD EQUIPMENT

Completely assembled and wired; 2 speed induced draft; high and low fire pressure switches; redundant 2 stage 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.

OPTIONAL EQUIPMENT

Side and bottom filter frame assembly. 4" Flue Adapter

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% safety lockout type.

WARNING

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

을 Air

Model Features

- 80% residential Gas Furnace CSA certified
- Two stages of operation to save energy and maintain optimal comfort level.
- 3 way multi poise design UF / HZ
- PlusOne[™] Diagnostics 7 Segment LED all units
- PlusOne[™] Ignition System DSI for reliability and longevity
- Heat exchanger is removable for improved serviceability.
 Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability.
- Solid doors provide quiet operation
- Solid bottom

- Insulated blower compartment
- Low profile 34" cabinet ideal for space constrained installations
- · Blower shelf design serviceable in all furnace orientations
- · Hemmed edges on cabinets and doors
- 1/4 turn door knobs for tool less access
- Integrated Controls board features dip switches for easy system set up
- QR code for quick access to product information from your smart phone or tablet

Physical Data and Specifications

MODEL NUMBERS R802P SERIES	R802PA050314M*A	R802PA075417M*A	R802PA100521M*A	R802PA125524M*A	R802PA150524M*A
High Input-BTU/Hr [kW] ②	50,000 [15]	75,000 [22]	100,000 [29]	125,000 [37]	150,000 [44]
Heating Capacity BTU/Hr [kW] ①	40,000 [12]	60,000 [18]	80,000 [23]	100,000 [29]	120,000 [32]
Low Input BTU/Hr [kW] ②	35,000 [10]	52,500 [15]	70,000 [20]	87,500 [25]	105,000 [30]
Heating Capacity BTU/Hr [kW] ①	28,000 [8]	41,600 [12]	56,000 [16]	70,800 [20]	84,000 [24]
Heat Ext. Static Pressure [kPa]	.10 [.025]	.12 [.029]	.15 [.037]	.20 [.05]	.20 [.05]
Blower (D x W) [mm]	11 x 6 [279 x 152]	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.PSpeed- PSC Type [W]	1/3-4-PSC [248]	^{1/2-} 4-PSC [373]	1/2-4-PSC [373]	³ /4-4-PSC [560]	³ /4-4-PSC [560]
Motor Full Load Amps	5.7	7.8	7.5	8.4	9.3
Heating Speed-High Fire	Med-Low	Med-High	Med-Low	Med-High	Med-High
Heating Speed-Low Fire	Low	Low	Low	Low	Low
Cooling Speed	High	High	High	High	High
Cooling CFM @ Rating Point [L/s]	1250 [590]	1650 [780]	1800 [850]	1750 [825]	1900 [900]
Max. E.S.P. (In. W.C.) [kPa]	0.8 [.20]	0.8 [.20]	0.8 [.20]	0.8 [.20]	0.8 [.20]
Temperature Rise Range °F [°C]–High Input	25-55 [13.9-30.6]	25-55 [13.9-30.6]	35-65 [19.4-36.1]	35-65 [19.4-36.1]	45-75 [25-41.7]
Temperature Rise Range °F [°C]–Low Input	20-50 [12.8-29.4]	20-50 [12.8-29.4]	25-55 [13.9-30.6]	30-60 [18.3-35]	35-65 [19.4-36.1]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	155 [68.3]	180 [82.2]	165 [73.8]	190 [87.7]
Approx. Shipping Weight (Lbs.) [kg]	110 [50]	125 [57]	140 [64]	150 [68]	160 [73]
AFUE ①	80.0%	80.0%	80.0%	80.0%	80.0%

NOTES: All models are 115V, 60HZ, 1 Ph. Gas connection size for all models is 1/2" [12 mm] N.P.T.

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

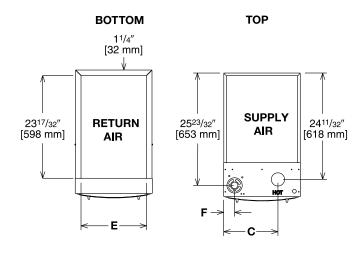
② See Conversion Kit Index Form for high altitude derate.

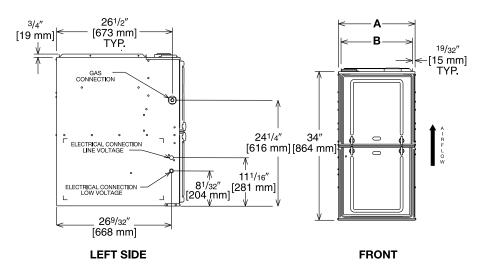
^{*} S = Standard, X = Low Nox

Model Number Identification

<u>R</u>	<u>80</u>	<u>2</u>	<u>P</u>	<u>A</u>	<u>075</u>	<u>4</u>	<u>17</u>	<u>M</u>	<u>s</u>	<u>A</u>
Rheem	80 = 80% AFUE	2 = Two Stage	P = Premium PSC	Design Series A = 1st Design	Input <u>BTU/HR [kW]</u> 050 = 50,000 [15] 075 = 75,000 [22] 100 = 100,000 [29] 125 = 125,000 [37] 150 = 150,000 [44]	3 = Up to 3 Ton 4 = 21/2 to 4 Ton 5 = 31/2 to 5 Ton	Cabinet Width 14 = 14" 17 = 17.5" 21 = 21" 24 = 24.5"	M = Multi	X = Low NOx S = Standard	Revision- Marketing (A – First Time Release)

Upflow Application





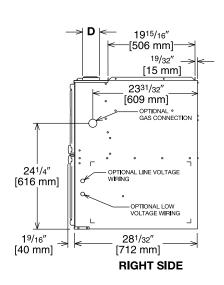


Illustration ST-A1220-04-00 FIGURE 1

Dimensional Data: Upflow Model

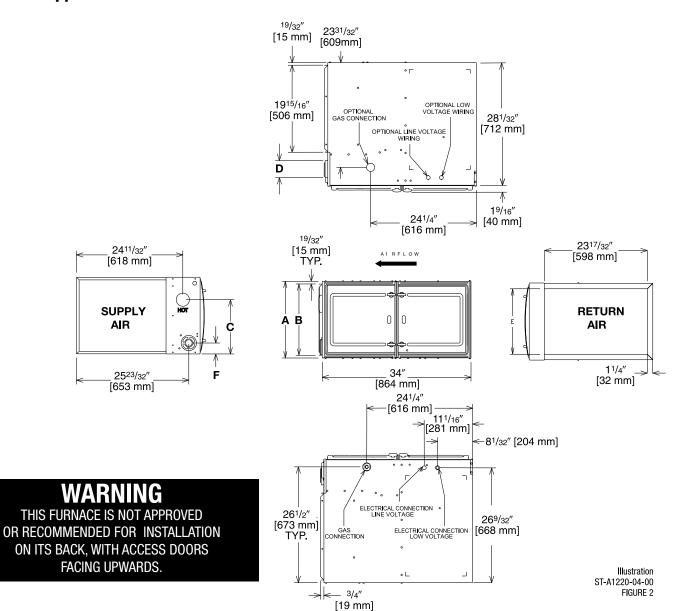
MODEL								REDUC	ED CLEA	RANCE (II	V.) [mm]		SHIP
R802P-	A	В	С	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	WGTS. (LBS.) [kg]
050	14 [356]	1227/32 [326]	105/8 [270]	1	111/2 [292]	17/8 [48]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	110 [50]
075	171/2 [445]	16 ¹¹ /32 [415]	123/8 [314]	1	15 [381]	21/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	125 [57]
100	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	140 [64]
125	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	150 [68]
150	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	160 [73]

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 in accordance with local codes.

Horizontal Application



Dimensional Data: Horizontal Model

MODEL								REDUC	ED CLEA	RANCE (II	V.) [mm]		SHIP
R802P-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	WGTS. (LBS.) [kg]
050	14 [356]	1227/32 [326]	105/8 [270]	1	111/2 [292]	17/8 [48]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	110 [50]
075	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	125 [57]
100	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	140 [64]
125	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	150 [68]
150	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	160 [73]

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 in accordance with local codes.

Blower Performance Data

MODEL	MOTOR H.P. [W] BLOWER SIZE TAP CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [kPa]									
	IN [mm]		0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.19]
	1/2 [0/0]**	Low	823	803	787	732	718	691	651	593
/ \000DA0E0044N4*A	1/3 [249]** 11 x 6*	Med. Lo	1030	1018	1006	976	929	897	850	808
(-)802PA050314M*A	[279 x 152]	Med. Hi	1129	1132	1112	1087	1054	1028	971	919
	[2/9 x 152]	High	1361	1353	1331	1297	1264	1232	1164	1117
	1/0 [070]**	Low	1229	1200	1181	1155	1120	1078	1013	970
/ \000DA07E417N4*A	1/2 [373]** 11 x 7	Med. Lo	1308	1267	1266	1233	1204	1176	1113	1062
(-)802PA075417M*A	[279 x 178]*	Med. Hi	1553	1542	1516	1491	1451	1417	1358	1306
		High	1969	1924	1893	1840	1803	1728	1657	1570
	1/0 [070]**	Low	1209	1182	1131	1112	1051	976	929	867
(-)802PA100521M*A	1/2 [373]** 11 x 10*	Med. Lo	1438	1420	1386	1350	1320	1293	1248	1186
(-)002FAT0032TWLA	[279 x 254]	Med. Hi	1902	1883	1844	1817	1753	1700	1636	1547
	[213 x 234]	High	2071	2037	2001	1962	1905	1856	1807	1709
	0/4 [EE0]**	Low	1358	1354	1331	1301	1250	1224	1154	1089
(-)802PA125524M*A	3/4 [559]** 11 x 10	Med. Lo	1541	1517	1476	1453	1416	1371	1339	1277
(-)002FA123324W A	[279 x 254]*	Med. Hi	1799	1774	1746	1712	1691	1629	1554	1495
	[213 \ 234]	High	2015	1989	1929	1902	1862	1815	1742	1665
	2/4 [550]**	Low	1411	1395	1370	1334	1310	1252	1220	1150
(-)802PA150524M*A	3/4 [559]** 11 x 10	Med. Lo	1606	1579	1569	1537	1499	1468	1407	1346
(-)0021 A 130324WI A		Med. Hi	1889	1891	1849	1828	1764	1717	1659	1609
	[279 x 254]*	High	2178	2160	2105	2067	2024	1976	1916	1832

^{*}High Heat Factory Speed Tap
**Low Heat Factory Speed Tap

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

FILTER RACK FILTER SIZES* INCHES [mm]							
MODEL	RXGF-CB (UPFLOW/ Horizontal)	RXGF-CD (UPFLOW) SIDE RETURN					
R802PA050	12 ¹ / ₄ x 25 [311 x 635]	15 ³ / ₄ x 25 [400 x 635]					
R802PA075	15 ³ / ₄ x 25 [400 x 635]	15 ³ / ₄ x 25 [400 x 635]					
R802PA100	19 ¹ / ₄ x 25 [489 x 635]	15 ³ / ₄ x 25 [400 x 635]					
R802PA125	22 ³ / ₄ x 25 [578 x 635]	15 ³ / ₄ x 25 [400 x 635]					
R802PA150	22 ³ / ₄ x 25 [578 x 635]	15 ³ / ₄ x 25 [400 x 635]					

INDOOR COIL CASINGS

MODEL Number
RXBC-D14AI
RXBC-D17AI
RXBC-D21AI
RXBC-D21BI
RXBC-D24AI

4" FLUE ADAPTER: RXGW-C01

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]
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	18 ⁵ / ₈ x 23 ⁹ / ₁₆ [473 x 598]
241/2 [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.

None required for high altitudes.

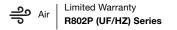
HIGH ALTITUDE CONVERSION KITS: U.S.

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.



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.

Conditional Parts* (Registration Required)Ten (10) Years Heat ExchangerLimited Lifetime



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

