

The new degree of comfort.™

Rheem *Classic*® Series Upflow/Horizontal Gas Furnace

R801P- Upflow/Horizontal Series

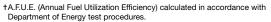
80% A.F.U.E.† Input Rates 50-150 kBTU













- 80% residential Gas Furnace CSA certified
- 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

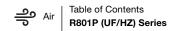
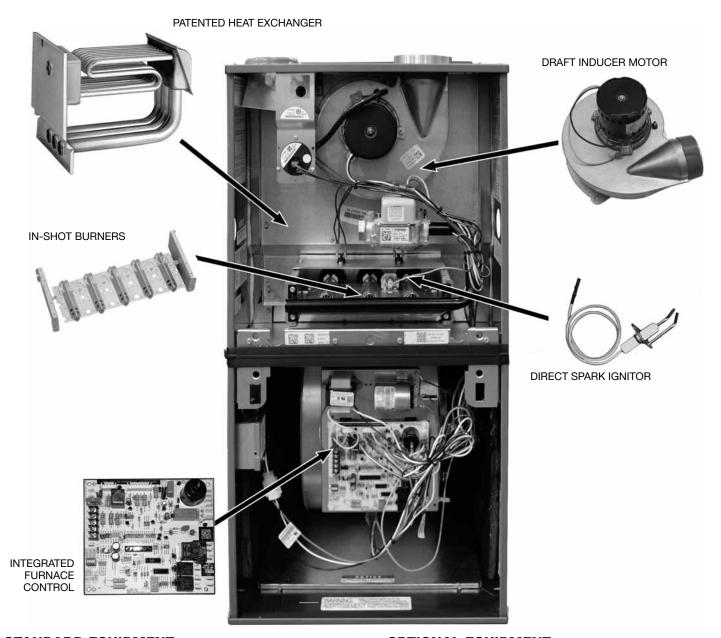


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STANDARD EQUIPMENT

Completely assembled and wired; induced draft; pressure switch; redundant main gas control; blower compartment door safety switch; solid state time on/time off blower control; limit control; manual shutoff 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. 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 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

Model Features

- 80% residential Gas Furnace CSA certified
- 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
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- Insulated blower compartment

- Low profile 34" cabinet ideal for space constrained installations
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Physical Data and Specifications

MODEL NUMBERS R801P SERIES	R801PA050314M*A	R801PA075317M*A	R801PA075417M*A	R801PA100417M*A	R801PA100521M*A	R801PA125524M*A	R801PA150524M*A
Input-BTU/Hr @	50,000	75,000	75,000	100,000	100,000	125,000	150,000
Heating Capacity BTU/Hr ①	40,000	61,000	60,000	80,000	80,000	100,000	120,000
Heat Ext. Static Pressure	.18	.20	.20	.28	.28	.28	.28
Blower (D x W)	11 x 6	11 x 7	11 x 7	11 x 7	11 x 10	11 x 10	11 x 10
Motor H.PSpeed-Type	1/3-4-PSC	1/2-4-PSC	1/2-4-PSC	1/2-4-PSC	1/2-4-PSC	3/4-4-PSC	3/4-4-PSC
Min. Circuit Ampacity	9	10	11	11	11	12	13
Min. Overload Protection Device	15	15	15	15	15	15	15
Max. Overload Protection Device	15	15	15	15	15	15	20
Heating Speed	Med-Low	Med-High	Med-High	Med-High	Med-Low	Med-High	Med-High
Cooling Speed	High	Low	Med-Low	Med-Low	High	High	High
Cooling CFM @ 70" W.C. E.S.P.	1164	1198	1657	1582	1807	1742	1916
Max. E.S.P. (In. W.C.)	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Temperature Rise Range °F	25-55	25-55	25-55	35-65	35-65	35-65	45-75
Max. Outlet Air Temp. °F	155	155	155	165	180	165	190
Approx. Shipping Weight (Lbs.)	110	110	125	110	140	150	160
AFUE ①	80.0%	80.0%	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" N.P.T.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit, and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

This furnace is to be installed for propane firing only in air districts requiring 14 ng/J NOx emission limits. Operating in natural gas mode is in violation of these Rules.

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>1</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	1 = Single Stage	P = PSC Motor w/Premium Cabinet	Design Series A = 1st Design	Input BTU/HR [kW] 050 = 50,000 075 = 75,000 100 = 100,000 125 = 125,000 150 = 150,000	3 = Up to 3 Ton 4 = 2 ¹ / ₂ to 4 Ton 5 = 3 ¹ / 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

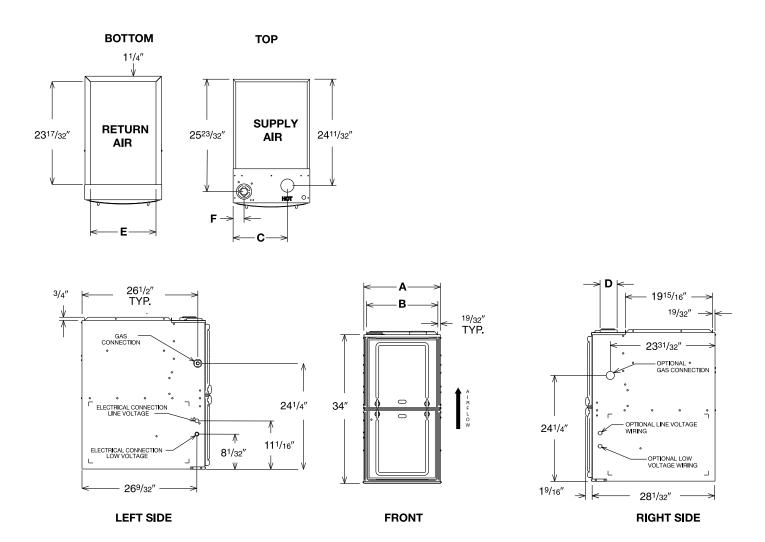


Illustration ST-A1220-04-00 FIGURE 1

Dimensional Data: Upflow Model

MODEL								MIN	IMUM CL	EARANCI	(IN.)		SHIP
R801P-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	WGTS. (LBS.)
050	14	12 ²⁷ /32	105/8	1	111/2	17/8	0	4 ②	0	1	3	6 ③	85
075/ 100417	171/2	1611/32	123/8	1	15	21/2	0	3 ②	0	1	3	6 ③	105
100521	21	19 ²⁷ /32	141/8	1	18 ¹ / ₂	21/2	0	0	0	1	3	6 3	120
125	241/2	2311/32	15 ⁷ /8	1	22	21/2	0	0	0	1	3	6 3	140
150	241/2	2311/32	15 ⁷ /8	1	22	21/2	0	0	0	1	3	6 ③	150

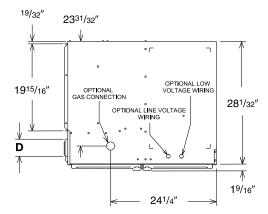
NOTES: ① May require a 3" to 4" or 3" to 5" adapter.

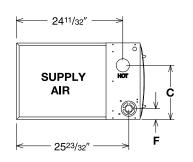
 $\ensuremath{\text{@}}$ May be 0" with type B vent.

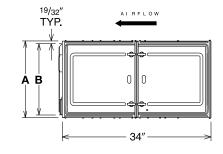
3 May be 1" with type B vent.

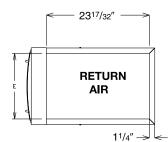
Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and/or Can/CGA-B149 Installation Codes and in accordance with local codes.

Horizontal Application









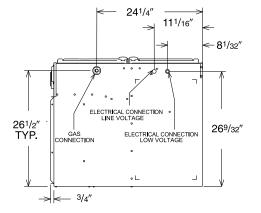


Illustration ST-A1220-04-00 FIGURE 2

WARNING

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

Dimensional Data: Horizontal Model

MODEL								MININ	NUM CLE	ARANCE	(IN.)		SHIP
R801P-	A	В	C	D	E	F	SUPPLY AIR SIDE	RETURN AIR SIDE	BACK	ТОР	FRONT	VENT	WGTS. (LBS.)
050	14	12 ²⁷ /32	105/8	1	111/2	17/8	0	4 ②	0	1	3	6 ③	85
075/ 100417	171/2	1611/32	123/8	1	15	21/2	0	3 ②	0	1	3	6 ③	105
100521	21	19 ²⁷ /32	141/8	1	181/2	21/2	0	0	0	1	3	6 ③	120
125	241/2	2311/32	15 ⁷ /8	1	22	21/2	0	0	0	1	3	6 ③	140
150	241/2	2311/32	15 ⁷ /8	1	22	21/2	0	0	0	1	3	6 ③	150

NOTES: ① May require a 3" to 4" or 3" to 5" adapter.

② May be 0" with type B vent.

3 May be 1" 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	MOTOR H.P. [W] BLOWER SIZE	SPEED TAP						N		
	IN		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
		Low	823	803	787	732	718	691	651	593
(-)801PA050314M*A	1/3	Med. Lo	1030	1018	1006	976	929	897	850	808
(-)001FA030314WI A	11 x 6	Med. Hi	1129	1132	1112	1087	1054	1028	971	919
		High	1361	1353	1331	1297	1264	1232	1164	1117
		Low	1008	977	935	893	854	823	777	735
/ \001DA07E217M*A	1/2	Med. Lo	1215	1181	1133	1098	1065	1023	975	937
(-)801PA075317M*A	11 x 7	Med. Hi	1421	1408	1372	1326	1299	1247	1198	1152
		High	1668	1648	1633	1580	1545	1481	1442	1373
		Low	1229	1200	1181	1155	1120	1078	1013	970
/ \001DA075417M*A	1/2	Med. Lo	1308	1267	1266	1233	1204	1176	1113	1062
(-)801PA075417M*A	11 x 7	Med. Hi	1553	1542	1516	1491	1451	1417	1358	1306
		High	1969	1924	1893	1840	1803	1728	1657	1570
		Low	1211	1183	1148	1116	1077	1040	984	953
/ \001DA100417M*A	1/2	Med. Lo	1305	1261	1225	1185	1157	1113	1068	1012
(-)801PA100417M*A	11 x 7	Med. Hi	1520	1498	1464	1427	1387	1340	1292	1226
		High	1874	1810	1767	1686	1678	1650	1582	1497
		Low	1209	1182	1131	1112	1051	976	929	867
/ \001D\100501\1*\	1/2	Med. Lo	1438	1420	1386	1350	1320	1293	1248	1186
(-)801PA100521M*A	11 x 10	Med. Hi	1902	1883	1844	1817	1753	1700	1636	1547
		High	2071	2037	2001	1962	1905	1856	1807	1709
		Low	1358	1354	1331	1301	1250	1224	1154	1089
/ \001DA105504M*A	3/4	Med. Lo	1541	1517	1476	1453	1416	1371	1339	1277
(-)801PA125524M*A	11 x 10	Med. Hi	1799	1774	1746	1712	1691	1629	1554	1495
		High	2015	1989	1929	1902	1862	1815	1742	1665
		Low	1411	1395	1370	1334	1310	1252	1220	1150
/ \001DA150504N4*A	3/4	Med. Lo	1606	1579	1569	1537	1499	1468	1407	1346
(-)801PA150524M*A	11 x 10	Med. Hi	1889	1891	1849	1828	1764	1717	1659	1609
		High	2178	2160	2105	2067	2024	1976	1916	1832

Note: Bold data is factory heating tap.

Table represents blower performance data WITHOUT filters.

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

FILTER RACK FILTER SIZES* INCHES						
MODEL	RXGF-CB (UPFLOW/ HORIZONTAL)	RXGF-CD (UPFLOW) Side return				
R801PA050	12 ¹ / ₄ x 25	15 ³ /4 x 25				
R801PA075/ R801PA100417	15 ³ /4 x 25	15 ³ /4 x 25				
R801PA100521	19¹/4 x 25	15 ³ / ₄ x 25				
R801PA125	22 ³ /4 x 25	15 ³ /4 x 25				
R801PA150	22 ³ /4 x 25	15 ³ /4 x 25				

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.	SOLID BOTTOM KIT NO.	BASE PLATE NO.	BASE PLATE SIZE IN.
14	RXGB-D14	AE-61874-01	115/8 x 239/16
171/2	RXGB-D17	AE-61874-02	15 ¹ /8 x 23 ⁹ / ₁₆
21	RXGB-D21	AE-61874-03	18 ⁵ /8 x 23 ⁹ / ₁₆
241/2	RXGB-D24	AE-61874-04	25 ⁵ /8 x 23 ⁹ / ₁₆

FOR HIGH ALTITUDES:

OPTION CODE FOR HIGH ALTITUDE: U.S. & Canada

None required for high altitudes.

HIGH ALTITUDE CONVERSION KITS: U.S. & Canada

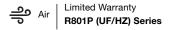
None required for high altitudes.

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.



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 ExchangerTwenty (20) Years



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

