The new degree of comfort.™

Rheem *Classic*® Series Upflow/Horizontal Gas Furnace

R801S- (Upflow/Horizontal) Series

80% A.F.U.E.† Input Rates 50-150 kBTU



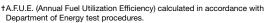














- 80% residential Gas Furnace CSA certified
- 3 way multi poise design UF / HZ
- PlusOne[™] Diagnostics 7 Segment LED all units
- PlusOne[™] Ignition System DSI for reliability and longevity
- Heat exchanger is removable for improved serviceability.
 Aluminized steel construction provides maximum corrosion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

- 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 codes for quick access to product information from your smart phone or tablet

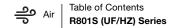
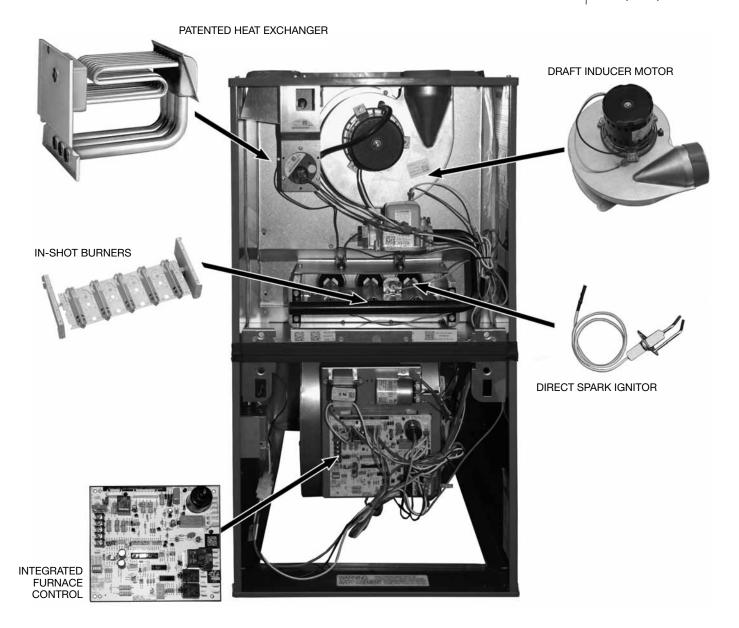


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STANDARD EQUIPMENT

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

ڪي Air

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.
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- Low profile 34" cabinet ideal for space constrained installations
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- QR codes for quick access to product information from your smart phone or tablet

Physical Data and Specifications

MODEL NUMBERS R801S SERIES	R801SA050314M*A	R801SA075317M*A	R801SA075417M*A	R801SA100417M*A	R801SA100521M*A	R801SA125524M*A	R801SA150524M*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	60,000	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	9	11	9	12	13
Min. Overload Protection	15	15	15	15	15	15	15
Max. Overload Protection	15	15	15	15	15	15	20
Motor Full Load Amps	5.7	6.7	7.8	7.8	7.5	8.4	9.3
Heating Speed	Med-Low	Med-High	Med-High	Med-High	Med-Low	Med-High	Med-High
Cooling Speed	High	Med-High	High	Med-High	High	High	High
Cooling CFM @ .70" W.C. E.S.P.	1164	1198	1657	1292	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%	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.

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>s</u>	<u>A</u>	<u>075</u>	<u>4</u>	<u>17</u>	<u>M</u>	<u>s</u>	<u>A</u>
R	neem	80 = 80% AFUE	1 = Single Stage	S = PSC Standard	Design Series A = 1st Design	Input <u>BTU/HR</u> 050 = 50,000 075 = 75,000 100 = 100,000 125 = 125,000 150 = 150,000	3 = Up to 3 Ton 4 = Up to 4 Ton 5 = Up 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

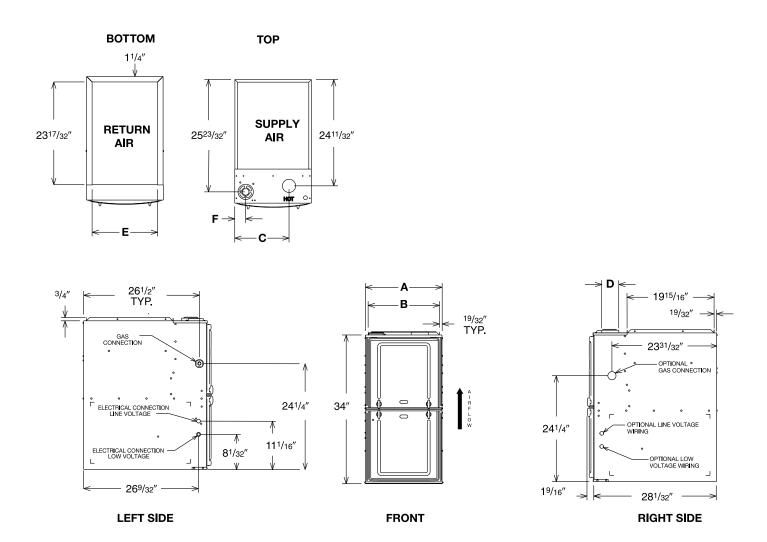


Illustration ST-A1220-04-00 FIGURE 1

Dimensional Data: Upflow Model

MODEL			MINIMUM CLEARANC						EARANCI	E (IN.)	SHIP		
R801S-	A	В	C	D	E	F	LEFT SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	WGTS. (LBS.)
050	14	1227/32	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
10052	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

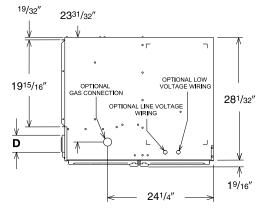
NOTES: ① May require a 3" to 4" or 3" to 5" adapter. 4".

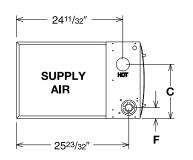
② May be 0" with type B vent.

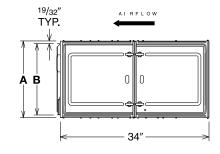
May be 0 With type B vent.
3 May be 1" with type B vent.

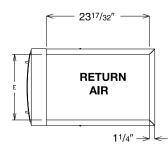
Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and/or Can/CGA-B149 Installation Codes and in accordance with local codes.

Horizontal Application









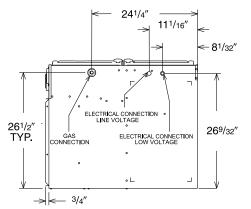


Illustration ST-A1220-04-00 FIGURE 2

WARNING

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

Dimensional Data: Horizontal Model

MODEL							MINIMUM CLEARANCE (IN.)						SHIP
R801S-	A	В	C	D	E	F	SUPPLY AIR SIDE	RETURN AIR SIDE	BACK	ТОР	FRONT	VENT	WGTS. (LBS.)
050	14	1227/32	105/8	1	111/2	17/8	4 ②	0	0	1	3	6 3	85
075/ 100417	171/2	1611/32	123/8	1	15	21/2	3 ②	0	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. 4" adapter included with (-)801P units.

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

(-)801SA050314M*A (-)801SA100521M*A (-)801SA100521M*A (-)801SA100521M*A (-)801SA150524M*A (-)801SA15052	MODEL	MOTOR H.P. Blower Size	SPEED TAP		1	EXTERNAL ST		DELIVERY RE INCHES W	ATER COLUMN	ı	
(-)801SA050314M*A 1/3 11 x 6 Med. Lo 1030 1018 1006 976 929 897 850 808 1028 11 x 6 11 x 6 11 x 6 11 x 6 11 x 7 1		IN	""	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
(-)801SA105314M*A 11 x 6 Med. Hi 1129 1132 1112 1087 1054 1028 971 919 1106 1106 1106 1106 1106 1107 1106 1107 1106 1107			Low	823	803	787	732	718	691	651	593
High 1361 1353 1331 1297 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1264 1232 1164 1117 1181 1133 1098 1065 1023 975 937 1117 1264 1232 1164 1117 1118 1133 1098 1065 1023 975 937 1117 1118 1129 1299 1247 1198 1152 1129 1247 1198 1152 1129 1247 1198 1152 1129 1247 1198 1152 1129 1247 1198 1152 1129 1247 1198 1152 1120 1078 1013 970 1117 1117 1265 1120 1078 1013 970 1117 1117 1265 1120 1078 1013 970 1117 1358 1364 11491 1451 1417 1358 1366 1365 1364 11491 1451 1417 1358 1366 1365 1364 11491 1451 1417 1358 1366 1365 1364 1365	/ \001CA0E0314M*A	1/3							897		
(-)801SA075317M*A 1/2	(-)0013A030314W A	11 x 6	Med. Hi						1028		
(-)801SA10521M*A 1/2			High	1361	1353	1331	1297	1264	1232	1164	1117
(-)801SA10521M*A (-)801SA10521M*A (-)801SA10524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA155524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA15524M*A (-)801SA155524M*A (-)801SA1555			Low	1008	977	935	893	854	823	777	735
(-)801SA100521M*A (-)801SA150524M*A (-)801SA1505	/ \001CA07E317N#*A	1/2	Med. Lo	1215	1181	1133	1098	1065	1023	975	937
(-)801SA100521M*A (-)801SA125524M*A (-)801SA150524M*A (-)801SA1505	(-)0013A073317W A	11 x 7	Med. Hi					1299	1247	1198	
(-)801SA100417M*A (-)801SA100417M*A (-)801SA100521M*A (-)801SA10524M*A (-)801SA150524M*A (-)801SA15052M			High	1668	1648	1633	1580	1545	1481	1442	1373
(-)801SA100417M*A (-)801SA100521M*A (-)801SA150524M*A (-)801SA1505			Low								
(-)801SA100521M*A (-)801SA100521M*A (-)801SA100521M*A (-)801SA100524M*A (-)801SA100524M*A (-)801SA150524M*A (-)801SA15052	(_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Med. Lo				1233	1204	1176		
(-)801SA100417M*A 1/2 11 x 7 1040 984 953 953 11 x 7 11 x 7 11 x 7 11 x 7 11 x 7 11 x 7	(-)0U15AU/341/WI"A	11 x 7									
(-)801SA100417M*A 1/2			High	1969	1924	1893	1840	1803	1728	1657	1570
(-)801SA100417M*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 Med. Lo 1438 1420 1386 1350 1320 1293 1248 1186 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 High 2015 1858 1517 1476 1453 1416 1371 1339 1277 High 2015 1989 1929 1902 1862 1815 1742 1665 Low 1411 1395 1370 1334 1310 1252 1220 1150 (-)801SA150524M*A 3/4											
(-)801SA100521M*A (-)801SA10052	(_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1/2 11 x 7			1261				1113		
(-)801SA100521M*A	(-)0013A100417W1 A										
(-)801SA100521M*A			High	1874	1810	1767		1678	1650	1582	
(-)801SA100521W 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 Med. Lo 1541 1517 1476 1453 1416 1371 1339 1277 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 (-)801SA150524M*A 11 x 10 Med. Hi 1889 1891 1849 1828 1764 1717 1659 1609 High 2015 1889 1891 1849 1828 1764 1717 1659 1609 High 2015 1883 1844 1817 1753 1700 1636 1547 High 2071 2037 2001 1962 1905 1850 1371 1339 1277 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1929 1902 1862 1815 1742 1665 High 2015 1989 1989 1989 1889			Low		1182		1112	1051	976	929	
(-)801SA125524M*A (-)801SA150524M*A (-)801SA1505	(_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\										
(-)801SA125524M*A	(-)0013A1003Z11VI A	11 x 10	Med. Hi							1636	
(-)801SA125524M*A 3/4 11 x 10 Med. Lo 1541 1517 1476 1453 1416 1371 1339 1277 Med. Hi 1799 1774 1746 1712 1691 1629 1554 1495 1495 1902 1802 1815 1742 1665 1742 1605 1742 1605 1742 1605 1742 1605 1742 1605 1742 1740 1740 1740 1740 1740 1740 1740 1740			High	2071	2037	2001		1905	1856	1807	1709
(-)801SA129524M*A			Low	1358		1331	1301	1250		1154	
(-)801SA150524M*A High 2015 1889 1891 1849 1828 1764 1717 1659 1609	(-)801SA125524M*A										
(-)801SA150524M*A		11 x 10	Med. Hi								
(-)801SA150524M*A 3/4 11 x 10 Med. Lo 1606 1579 1569 1537 1499 1468 1407 1346 Med. Hi 1889 1891 1849 1828 1764 1717 1659 1609			High	2015	1989	1929	1902	1862	1815	1742	1665
(-)8015A150524M A 11 x 10 Med. Hi 1889 1891 1849 1828 1764 1717 1659 1609	(-)801SA150524M*A										
`'											
High 2178 2160 2105 2067 2024 1976 1916 1832											
			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

FILT	FILTER RACK FILTER SIZES* INCHES								
MODEL	RXGF-CB (UPFLOW/ HORIZONTAL)	RXGF-CD (UPFLOW) Side return							
R801SA050	12 ¹ /4 x 25	15 ³ /4 x 25							
R801SA075 R801SA100417	15 ³ /4 x 25	15 ³ /4 x 25							
R801SA100521	19¹/4 x 25	15 ³ / ₄ x 25							
R801SA125	22 ³ /4 x 25	15 ³ /4 x 25							
R801SA150	22 ³ /4 x 25	15 ³ /4 x 25							

^{4&}quot; FLUE ADAPTER: RXGW-C01

INDOOR COIL CASINGS

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

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	185/8 x 239/16		
241/2	RXGB-D24	AE-61874-04	255/8 x 239/16		

FOR HIGH ALTITUDES:

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

None required for high altitudes.

HIGH ALTITUDE CONVERSION KITS: U.S. & Canada

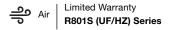
None required for high altitudes.

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.

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