



The new degree of comfort.®

## Endeavor™ Line *Classic*® Series Gas Furnaces



### R921T

92% A.F.U.E.†

Heating Stages: Single Stage

Motor Type: Constant Torque

Input Rates: 40 to 115 kBTU [11.7 to 33.7 kW]

Configuration Options: 4-Way Multi-Position



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

Table of Contents

Features & Benefits .....3

Model Number Identification .....4

Physical Data and Specifications .....5

Dimensional Data .....6

Blower Performance Data .....7

Accessories ..... 8-9

Limited Warranty .....12

## Features and Benefits

- **PlusOne® Energy Efficiency:** ENERGY STAR® certified, featuring 95% AFUE across all model sizes
- **PlusOne® Diagnostics:** Industry-first, 7-Segment LED for quick and easy service
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **PlusOne® Water Management System:** Rheem-exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked and alerts the contractor via diagnostic code

Gas Furnaces

| <u>R</u>  | <u>92</u>          | <u>1</u>          | <u>T</u>            | <u>040</u>                                                                                                                                                 | <u>3</u>                           | <u>A</u>              | <u>17</u>                                              | <u>M4</u>        | <u>S</u>     | <u>N</u>              | <u>A</u>       | <u>S</u>           |
|-----------|--------------------|-------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------|--------------------------------------------------------|------------------|--------------|-----------------------|----------------|--------------------|
| Brand     | Furnace Efficiency | Stages of Heating | Motor Type          | Heating Input                                                                                                                                              | AC Max. Capacity                   | Major Series          | Width                                                  | Position         | NOx          | Controls              | Minor Series   | Option Code        |
| R - Rheem | 92 - 92% AFUE      | 1 - Single-Stage  | T - Constant Torque | 040 - 40,000 [11.7 kW]<br>060 - 60,000 [17.6 kW]<br>070 - 70,000 [21.5 kW]<br>085 - 85,000 [24.9 kW]<br>100 - 100,000 [29.3 kW]<br>115 - 115,000 [33.7 kW] | 3 - 3 ton drive<br>5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width<br>21 - 21" Width<br>24 - 24.5" Width | M4 - Multi-4 Way | S - Standard | N - Non-Communicating | A - 1st Series | S - Standard Grade |

[ ] Designates Metric Conversions

| AVAILABLE MODELS   |
|--------------------|
| R921T0403A17M4SNAS |
| R921T0603A17M4SNAS |
| R921T0703A17M4SNAS |
| R921T0705A21M4SNAS |
| R921T0855A21M4SNAS |
| R921T1005A21M4SNAS |
| R921T1155A24M4SNAS |

| STANDARD EQUIPMENT                                     |
|--------------------------------------------------------|
| Multispeed Constant Torque ECM Motor                   |
| Complete assembly and wiring                           |
| Blocked Drain Sensor                                   |
| 7 Segment LED & marked hoses                           |
| Primary aluminized steel heat exchanger                |
| 29-4C stainless steel secondary heat exchanger         |
| Induced Draft Blower                                   |
| Pressure switches                                      |
| Redundant main gas control                             |
| Limit controls                                         |
| Manual shut-off valve                                  |
| 100% safety lock out                                   |
| Blower compartment door safety switch                  |
| Solid State Time on/off blower control                 |
| Cool fan off delay                                     |
| Field Selectable Heat Fan Off Delay                    |
| Low speed continuous fan option                        |
| Single Speed Option for Heating & Cooling Applications |
| One-hour automatic retry                               |
| Power and self-test diagnostics                        |
| Flame sense current diagnostics                        |
| Electronic air cleaner connections                     |
| Twinning (built-in) features                           |
| Humidifier connections                                 |
| Humidifier on/off delay                                |
| Transformer                                            |
| Direct drive                                           |
| Solid bottom                                           |

WARNING

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

## Physical Data and Specifications

| MODEL NUMBERS                                              | R921T<br>0403A17M4SNAS                | R921T<br>0603A17M4SNAS                | R921T<br>0703A17M4SNAS                | R921T<br>0705A21M4SNAS              | R921T<br>0855A21M4SNAS              | R921T<br>1005A21M4SNAS              | R921T<br>1155A24M4SNAS              |
|------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| HIGH FIRE INPUT<br>BTU/HR [kW] ①                           | 42,000 [12.30]                        | 56,000 [16.41]                        | 70,000 [20.51]                        | 70,000 [20.51]                      | 84,000 [24.61]                      | 98,000 [28.72]                      | 112,000 [32.82]                     |
| HEATING CAPACITY<br>BTU/HR [kW]                            | 39,900 [11.69]                        | 53,200 [15.59]                        | 66,500 [19.49]                        | 66,500 [19.49]                      | 79,800 [23.39]                      | 93,100 [27.28]                      | 106,400 [31.18]                     |
| HIGH ALTITUDE OUTPUT<br>10% DERATE [kW] ②                  | 35,910 [10.52]                        | 47,880 [14.03]                        | 59,850 [17.54]                        | 59,850 [17.54]                      | 71,820 [21.05]                      | 83,790 [24.56]                      | 95,760 [28.06]                      |
| BLOWER (D x W) [mm]                                        | 11 x 7<br>[279 x 178]                 | 11 x 8<br>[279 x 203]                 | 11 x 8<br>[279 x 203]                 | 11 x 10<br>[279 x 254]              | 11 x 10<br>[279 x 254]              | 11 x 10<br>[279 x 254]              | 11 x 11<br>[279 x 279]              |
| MOTOR H.P. [W]–TYPE                                        | 1/2 [373]<br>5 Spd<br>Constant Torque | 1/2 [373]<br>5 Spd<br>Constant Torque | 1/2 [373]<br>5 Spd<br>Constant Torque | 1 [746]<br>5 Spd<br>Constant Torque | 1 [746]<br>5 Spd<br>Constant Torque | 1 [746]<br>5 Spd<br>Constant Torque | 1 [746]<br>5 Spd<br>Constant Torque |
| MIN. CIRCUIT AMPACITY                                      | 8                                     | 9                                     | 10                                    | 12                                  | 16                                  | 15                                  | 14                                  |
| MIN. OVERLOAD<br>PROTECTION DEVICE                         | 15                                    | 15                                    | 15                                    | 15                                  | 20                                  | 20                                  | 20                                  |
| MAX. OVERLOAD<br>PROTECTION DEVICE                         | 15                                    | 15                                    | 15                                    | 20                                  | 25                                  | 20                                  | 20                                  |
| MINIMUM EXT. STATIC<br>PRESSURE (IN. W.C.) [kPa]           | .18 [.045]                            | .20 [.050]                            | .23 [.057]                            | .23 [.057]                          | .28 [.070]                          | .28 [.070]                          | .28 [.070]                          |
| MAXIMUM EXT. STATIC<br>PRESSURE (IN. W.C.) [kPa]           | .9 [0.224]                            | .9 [0.224]                            | .9 [0.224]                            | .9 [0.224]                          | .9 [0.224]                          | .9 [0.224]                          | .9 [0.224]                          |
| HEATING SPEED                                              | MED-LOW                               | MED-LOW                               | MED                                   | MED-LOW                             | MED-LOW                             | MED-LOW                             | MED                                 |
| COOLING SPEED                                              | HIGH                                  | HIGH                                  | HIGH                                  | HIGH                                | HIGH                                | HIGH                                | HIGH                                |
| TEMPERATURE RISE-<br>HIGH FIRE RANGE IN<br>DEGREES °F [°C] | 25 - 55<br>[14 - 31]                  | 35 - 65<br>[19 - 36]                  | 40 - 70<br>[22 - 39]                  | 30 - 60<br>[17 - 33]                | 35 - 65<br>[19 - 36]                | 40 - 70<br>[19 - 36]                | 45 - 75<br>[25 - 42]                |
| APPROX. SHIPPING WEIGHT<br>(LBS.) [kg]                     | 123.5 [56]                            | 128 [58]                              | 132 [60]                              | 139 [63]                            | 147.5 [67]                          | 152 [69]                            | 165 [75]                            |
| AFUE ③                                                     | 92.00%                                | 92.00%                                | 92.00%                                | 92.00%                              | 92.00%                              | 92.00%                              | 92.00%                              |

NOTES: All models are 115V, 60HZ, 1 Phase Gas connection size for all models is 1/2" [13 mm] N.P.T.

① Installation instructions for high altitude derate.

② Canadian installations only.

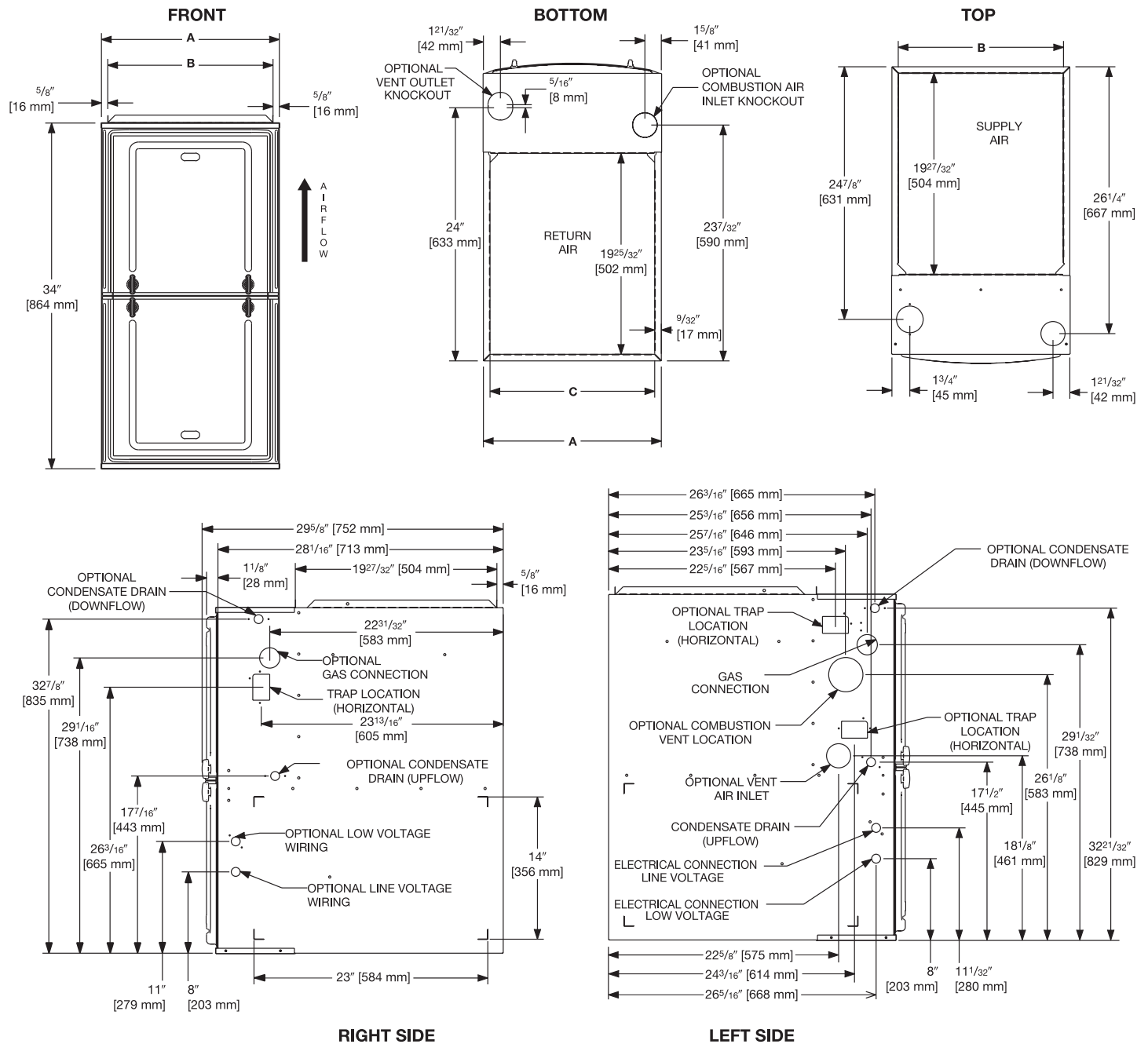
③ In accordance with D.O.E. test procedures.

NOTE: Standard model complies with California low NOx requirements up to 40ng/J.

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](http://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.

[ ] Designates Metric Conversions



## Unit Dimensions Clearance to Combustibles

| MODEL<br>R921T | LEFT<br>SIDE | MINIMUM CLEARANCE (IN.) [mm] |      |        |        |      | SHIP<br>WGTS. | FLANGE DIMENSIONS |                |                |
|----------------|--------------|------------------------------|------|--------|--------|------|---------------|-------------------|----------------|----------------|
|                |              | RIGHT<br>SIDE                | BACK | TOP    | FRONT  | VENT |               | A                 | B              | C              |
| 040            | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 123.5 [56]    | 17 1/2 [445]      | 16 17/64 [413] | 16 13/64 [412] |
| 060            | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 128 [58]      | 17 1/2 [445]      | 16 17/64 [413] | 16 13/64 [412] |
| 070            | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 132 [60]      | 17 1/2 [445]      | 16 17/64 [413] | 16 13/64 [412] |
| 070 (wide)     | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 147.5 [67]    | 21 [533]          | 19 49/64 [502] | 19 45/64 [500] |
| 085            | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 147.5 [67]    | 21 [533]          | 19 49/64 [502] | 19 45/64 [500] |
| 100            | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 152 [69]      | 21 [533]          | 19 49/64 [502] | 19 45/64 [500] |
| 115            | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 165 [75]      | 24 1/2 [662]      | 23 17/64 [591] | 23 13/64 [589] |

\*A service clearance of at least 24" is recommended in front of all furnaces  
Supply and return depicted as upflow configuration.  
Flange configuration will vary depending on installation orientation.

[ ] Designates Metric Conversions

## Blower Performance Data

| AIR FLOW PERFORMANCE - 92% SINGLE STAGE CONSTANT TORQUE |                             |                           |                                                                  |      |       |      |      |      |      |      |      |      |
|---------------------------------------------------------|-----------------------------|---------------------------|------------------------------------------------------------------|------|-------|------|------|------|------|------|------|------|
| INPUT [BTU]<br>CABINET<br>WIDTH [IN]                    | AIRFLOW<br>CONTROL SETTINGS | SPEED TAP/<br>WIRE COLORS | CFM AIR DELIVERY<br>EXTERNAL STATIC PRESSURE INCHES WATER COLUMN |      |       |      |      |      |      |      |      |      |
|                                                         |                             |                           | 0.1                                                              | 0.2  | 0.3   | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1    |
| 40K<br>17"                                              | Factory Setting Fan         | Low/Red                   | 807                                                              | 765  | 717   | 666  | 612  | 557  | 502  | 448  | 396  | 349  |
|                                                         | Heat or Heat/Cool           | Medium Low/Yellow         | 965                                                              | 921  | 874   | 824  | 771  | 716  | 659  | 601  | 543  | 484  |
|                                                         | Cool                        | Medium/Purple             | 1076                                                             | 1035 | 994   | 953  | 910  | 864  | 813  | 758  | 697  | 630  |
|                                                         | Cool                        | Medium High/Blue          | 1150                                                             | 1108 | 1068  | 1030 | 991  | 951  | 908  | 860  | 806  | 745  |
|                                                         | Factory Setting Cooling     | High/Black                | 1298                                                             | 1259 | 1220  | 1182 | 1144 | 1106 | 1067 | 1028 | 987  | 945  |
| 60K<br>17"                                              | Factory Setting Fan         | Low/Red                   | 998                                                              | 950  | 906   | 853  | 791  | 728  | 676  | 634  | 584  | 542  |
|                                                         | Heat or Heat/Cool           | Medium Low/Yellow         | 1060                                                             | 1016 | 963   | 924  | 862  | 802  | 753  | 706  | 663  | 616  |
|                                                         | Cool                        | Medium/Purple             | 1143                                                             | 1104 | 1060  | 1016 | 970  | 930  | 873  | 820  | 769  | 725  |
|                                                         | Cool                        | Medium High/Blue          | 1328                                                             | 1293 | 1258  | 1220 | 1183 | 1142 | 1107 | 1069 | 1016 | 960  |
|                                                         | Factory Setting Cooling     | High/Black                | 1473                                                             | 1441 | 1403  | 1366 | 1331 | 1295 | 1265 | 1236 | 1200 | 1159 |
| 70K<br>17"                                              | Factory Setting Fan         | Low/Red                   | 635                                                              | 602  | 564   | 524  | 482  | 440  | 399  | 362  | 329  | 302  |
|                                                         | Cool                        | Medium Low/Yellow         | 1080                                                             | 1035 | 985   | 931  | 874  | 816  | 759  | 704  | 654  | 610  |
|                                                         | Heat or Heat/Cool           | Medium/Purple             | 1222                                                             | 1183 | 1138  | 1090 | 1039 | 985  | 931  | 877  | 824  | 774  |
|                                                         | Cool                        | Medium High/Blue          | 1371                                                             | 1330 | 1290  | 1251 | 1210 | 1169 | 1125 | 1078 | 1028 | 972  |
|                                                         | Factory Setting Cooling     | High/Black                | 1458                                                             | 1421 | 1385  | 1349 | 1312 | 1274 | 1235 | 1193 | 1148 | 1101 |
| 70K<br>21"                                              | Factory Setting Fan         | Low/Red                   | 1154                                                             | 1105 | 1046  | 980  | 911  | 841  | 773  | 709  | 653  | 608  |
|                                                         | Heat or Heat/Cool           | Medium Low/Yellow         | 1450                                                             | 1405 | 1357  | 1307 | 1255 | 1202 | 1147 | 1091 | 1036 | 981  |
|                                                         | Cool                        | Medium/Purple             | 1583                                                             | 1536 | 1490  | 1446 | 1401 | 1356 | 1308 | 1257 | 1203 | 1144 |
|                                                         | Cool                        | Medium High/Blue          | 1750                                                             | 1703 | 1662  | 1626 | 1591 | 1556 | 1520 | 1479 | 1432 | 1377 |
|                                                         | Factory Setting Cooling     | High/Black                | 1981                                                             | 1931 | 1894  | 1865 | 1835 | 1797 | 1745 | 1671 | 1568 | 1428 |
| 85K<br>21"                                              | Factory Setting Fan         | Low/Red                   | 1086                                                             | 1022 | 931   | 855  | 812  | 734  | 679  | 606  | 559  | 526  |
|                                                         | Heat or Heat/Cool           | Medium Low/Yellow         | 1651                                                             | 1611 | 1571  | 1518 | 1476 | 1434 | 1383 | 1311 | 1271 | 1208 |
|                                                         | Cool                        | Medium/Purple             | 1755                                                             | 1712 | 1670  | 1626 | 1596 | 1531 | 1490 | 1445 | 1421 | 1337 |
|                                                         | Cool                        | Medium High/Blue          | 2042                                                             | 1996 | 1971  | 1944 | 1901 | 1872 | 1849 | 1812 | 1767 | 1738 |
|                                                         | Factory Setting Cooling     | High/Black                | 2114                                                             | 2082 | 2049  | 2009 | 1974 | 1940 | 1903 | 1821 | 1752 | 1633 |
| 100K<br>21"                                             | Factory Setting Fan         | Low/Red                   | 1336                                                             | 1274 | 1200  | 1156 | 1090 | 1019 | 965  | 916  | 852  | 796  |
|                                                         | Heat or Heat/Cool           | Medium Low/Yellow         | 1574                                                             | 1521 | 14881 | 1423 | 1376 | 1327 | 1272 | 1218 | 1170 | 1114 |
|                                                         | Cool                        | Medium/Purple             | 1683                                                             | 1644 | 1609  | 1559 | 1521 | 1464 | 1427 | 1366 | 1313 | 1280 |
|                                                         | Cool                        | Medium High/Blue          | 1843                                                             | 1801 | 1771  | 1732 | 1696 | 1661 | 1611 | 1533 | 1531 | 1461 |
|                                                         | Factory Setting Cooling     | High/Black                | 2063                                                             | 2018 | 1992  | 1943 | 1914 | 1875 | 1837 | 1807 | 1768 | 1726 |
| 115K<br>24"                                             | Factory Setting Fan         | Low/Red                   | 1406                                                             | 1336 | 1268  | 1196 | 1125 | 1078 | 1003 | 942  | 869  | 808  |
|                                                         | Cool                        | Medium Low/Yellow         | 1561                                                             | 1491 | 1423  | 1359 | 1304 | 1227 | 1171 | 1123 | 1071 | 1018 |
|                                                         | Heat or Heat/Cool           | Medium/Purple             | 1696                                                             | 1645 | 1586  | 1533 | 1480 | 1407 | 1370 | 1305 | 1254 | 1220 |
|                                                         | Cool                        | Medium High/Blue          | 1852                                                             | 1801 | 1761  | 1701 | 1630 | 1591 | 1523 | 1466 | 1427 | 1362 |
|                                                         | Factory Setting Cooling     | High/Black                | 1996                                                             | 1951 | 1890  | 1840 | 1799 | 1741 | 1666 | 1612 | 1602 | 1534 |

## Vent Termination Kits: =

**RXGY-E02:** Vertical/Horizontal Concentric Vent Termination Kit  
2" Pipe (US Only)

**RXGY-E02A:** Vertical/Horizontal Concentric Vent Termination Kit  
2" Pipe (US & Canadian)

**RXGY-E03:** Vertical/Horizontal Concentric Vent Termination Kit  
3" Pipe (US Only)

**RXGY-E03A:** Vertical/Horizontal Concentric Vent Termination Kit  
3" Pipe (US & Canadian)

**RXGY-G02:** Direct Vent Furnace Side Wall Vent 2" or 3" (US Only)

**RXGY-D05:** Combustion Air Drain Kit 2"

**RXGY-D06:** Combustion Air Drain Kit 3"

**NEUTRALIZER KIT:** RXGY-A01  
(Replacement Cartridge 54-22120-01)

**EXTERNAL BOTTOM FILTER (UPFLOW/HORIZONTAL) RACK:**  
RXGF-CB

**EXTERNAL SIDE (UPFLOW) FILTER RACK:** RXGF-CD

**EXTERNAL (DOWNFLOW) FILTER RACK:** RXGF-CC

| FILTER RACK FILTER SIZES* INCHES [mm] |                                                    |                                                    |                        |
|---------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------|
| MODEL                                 | RXGF-CB<br>(UPFLOW/<br>HORIZONTAL)                 | RXGF-CD<br>(UPFLOW)                                | RXGF-CC<br>(DOWNFLOW)  |
| R921T(-)040                           | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |
| R921T(-)060                           | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |
| R921T(-)070                           | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |
| R921T(-)070<br>(wide)                 | 19 <sup>1</sup> / <sub>4</sub> x 25<br>[489 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 12 x 20<br>[305 x 508] |
| R921T(-)085                           | 19 <sup>1</sup> / <sub>4</sub> x 25<br>[489 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |
| R921T(-)100                           | 19 <sup>1</sup> / <sub>4</sub> x 25<br>[489 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |
| R921T(-)115                           | 22 <sup>3</sup> / <sub>4</sub> x 25<br>[578 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |

## Indoor Coil Casings

| MODEL<br>NUMBER |
|-----------------|
| RXBC-D17A1      |
| RXBC-D21A1      |
| RXBC-D21B1      |
| RXBC-D24A1      |

## For High Altitudes:

**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. See installation instructions as appropriate orifice change is required.

**L.P. CONVERSION KIT:** RXGJ-FP38

**CONDENSATE PUMP KIT:** PROSTOCK & 1PCB151TUL

**DOWNFLOW/HORIZONTAL CONVERSION KIT:** RXGY-CK

**DOWNFLOW/HORIZONTAL LEFT ZERO CLEARANCE  
CONVERSION KIT:** RXGY-ZK

**COMBUSTIBLE FLOOR BASE:** RXGC-B17  
RXGC-B21  
RXGC-B24

[ ] Designates Metric Conversions









The new degree of comfort.®

## 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<br>(Registration Required)..... | Ten (10) Years    |
| Heat Exchanger .....                              | Twenty (20) Years |

**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.**

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

Rheem Heating, Cooling & Water Heating • 5600 Old Greenwood Road  
Fort Smith, Arkansas 72908 • [www.rheem.com](http://www.rheem.com)

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1  
Brampton, Ontario • L6Y 0P5 • [rheem.ca.com](http://rheem.ca.com)