

ENDEAVOR™



Rheem.com/Endeavor

Warmth you can **Count On**

Count on the Rheem® Endeavor™ Line of 80% AFUE (Annual Fuel Utilization Efficiency) Gas Furnaces to deliver dependable comfort and exceptional value. The line's efficient performance and excellent durability work hard to help save you money—and deliver peace of mind.



8 0 % A F U E G A S F U R N A C E G U I D E

Comfort, Efficiency and Industry-first Innovation



PEACE-OF-MIND PERFORMANCE

Relax, you're covered by one of the best warranties in the industry¹—up to 10 Year Limited Parts + Limited Lifetime Heat Exchanger².



QUIET OPERATION

Sound levels range from quieter to quiet with insulated cabinets and truly variable speed airflow technology³—giving you one of the quietest furnace lines available⁴.



HIGH COMFORT

Two-stage⁵ (medium, low) or single-stage (low) heating operation⁶, along with variable speed motor technology, ensures a steady stream of just-right heated airflow to maintain your comfort level preference while providing superior humidity control.



ENVIRONMENTALLY FRIENDLIER

The ultra low-NOx operation of the R801****U model helps you lower your carbon footprint by minimizing greenhouse gases.



EcoNet[®]



The Rheem Endeavor Line R802V and R801V operate with the easy-to-use EcoNet[®] Smart Thermostat, which optimizes system performance and provides a new level of protection and precision comfort **with features like:**

- Communication with latest sensor technology
- Control of your thermostat from anywhere via the EcoNet App⁷
- Alerts sent directly to your phone or email



Simplified Install & Service with Bluetooth Technology

Built-in Bluetooth connectivity⁸ makes it faster and easier for your contractor to install and service your new system. This can help lower your costs and help make your home comfortable again—fast.



TESTED. TRUSTED. TOUGH.

From the smallest part to complete comfort systems, we build quality into everything we make so we can be sure it's tough enough to deliver the ultimate performance you can count on day after day, year after year. That reliability is what makes Rheem different—and better.



We Thought of Everything... & Then Some

We evaluate every detail of a product from top to bottom, inside and out and every angle in between. That's 360+1. And that's why you can count on Rheem Endeavor Gas Furnaces to bring you and your family years of efficient and dependable indoor comfort.



Rheem® Endeavor™ Line

80% AFUE Gas Furnace Series*

*R801V****U will launch in 2023

| | Classic Plus® | | Classic® | |
|---|--|--|---|---|
| | R802V | R801V | R801T****U | R801T |
| Input Rate | 50-150 kBTU | 50-125 kBTU | 50-100 kBTU | 50-125 kBTU |
| Configuration | Upflow / Horizontal | Upflow / Horizontal Downflow | Upflow / Horizontal | Upflow / Horizontal Downflow |
| Heating Stages | Two-Stage | Single-Stage | Single-Stage | Single-Stage |
| Motor Type | Constant CFM | Constant CFM | Constant Torque | Constant Torque |
| Sound Ranking⁴ | Quieter | Quiet | Quiet | Quiet |
| Bluetooth Connectivity⁵ | Yes | Yes | No | No |
| EcoNet® Enabled | Yes | Yes | No | No |
| PlusOne® Features & More | Direct Spark Ignition for reliability and longevity — Rheem Contractor and EcoNet Apps ⁷ , built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Direct Spark Ignition for reliability and longevity — Rheem Contractor and EcoNet Apps ⁷ , built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Industry-first 7-segment LED for quick and easy service — Direct Spark Ignition for reliability and longevity | Industry-first 7-segment LED for quick and easy service — Direct Spark Ignition for reliability and longevity |
| Ultra Low NOx Option | No | No | Yes | No |
| Limited Warranty¹ | Parts – 10 years — Heat Exchanger – Limited Lifetime | Conditional Parts – 10 years — Heat Exchanger – 20 Years | Conditional Parts – 10 years (registration required) — Heat Exchanger – 20 Years | Conditional Parts – 10 years (registration required) — Heat Exchanger – 20 Years |





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Nearly 100 Years of Innovation

As the only brand bringing innovative air and water solutions to homes and businesses around the world, Rheem continues to deliver advanced comfort, savings and experiences to our customers—just as we’ve done for nearly 100 years.



Rheem USA
5600 Old Greenwood Road
Fort Smith, Arkansas 72908

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

¹Registration is required for the conditional parts and unit replacement warranty (if applicable). For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local Contractor or go to Rheem.com for a copy of the product warranty certificate. ²Refer to the chart for specific warranty terms by product. ³Applies to R802V and R801V models. ⁴Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation. ⁵Applies to R802V model. ⁶Applies to R801V, R801T****U and R801T models. ⁷WiFi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. ⁸Applies to R802V and R801V models.



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ENDEAVOR™



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Warm up to **Powerful Performance**

Keep consistently comfortable, even on cold winter nights, with the Rheem® Endeavor™ Line of Furnaces. Offering some of the highest energy efficiencies available, Rheem Endeavor 90% AFUE (Annual Fuel Utilization Efficiency) Gas Furnaces deliver peace-of-mind performance and reliable savings.



Extreme Efficiency Meets Constant Comfort



PEACE-OF-MIND PERFORMANCE

Relax, you're covered by one of the best warranties in the industry¹—up to 10 Year Limited Parts + Limited Lifetime Heat Exchanger + Conditional Limited Lifetime Unit Replacement².



QUIET OPERATION

Sound levels range from quietest to quiet with insulated cabinets and truly variable speed airflow technology³—giving you one of the quietest furnace lines available⁴.



OPTIMAL COMFORT

Modulating⁵ (between 40% and 100% of capacity), two-stage⁶ (medium, low) or single-stage (low) heating operation⁷, along with variable speed motor technology³, ensures a steady stream of just-right heated airflow to maintain your comfort level preference while providing superior humidity control.



EcoNet[®]



The Rheem Endeavor Line R98MV, R97MV, R962V, R951V and R921V operate with the easy-to-use EcoNet Smart Thermostat, which optimizes system performance and provides a new level of protection and precision comfort **with features like:**

- Communication with latest sensor technology
- Control of your thermostat from anywhere via the EcoNet App⁸
- Alerts sent directly to your phone or email



Helping You Live Both **Comfortably** and **Sustainably**

Many Rheem products have sustainability features, but the R98MV, R97MV, R962V, R951V and R921V models have earned our Sustainability Standout Seal, indicating that they are among the best of the best. We created the Seal to help you more easily find the products that save energy, save money and save the planet.



Among Furnaces, These Are Stars

Earning ENERGY STAR[®] recognition means products meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and all of the Rheem Endeavor 90% AFUE Gas Furnaces are ENERGY STAR[®] or U.S. South ENERGY STAR[®] certified, offering annual energy cost savings⁹.



Simplified Install & Service with Bluetooth Technology

Built-in Bluetooth connectivity¹⁰ makes it faster and easier for your contractor to install and service your new system. This can help lower your costs and help make your home comfortable again—fast.



TESTED. TRUSTED. TOUGH.

From the smallest part to complete comfort systems, we build quality into everything we make so we can be sure it's tough enough to deliver the ultimate performance you can count on day after day, year after year. That reliability is what makes Rheem different—and better.



We Thought of Everything... & Then Some

We evaluate every detail of a product from top to bottom, inside and out and every angle in between. That's 360+1. And that's why you can count on Rheem Endeavor 90% AFUE Gas Furnaces to bring you and your family years of efficient and dependable indoor comfort.



Rheem® Endeavor™ Line

90%+ AFUE Gas Furnace Series*

*R951V***U will launch in 2023

| | Prestige® | | Classic Plus® | Classic® | | | | |
|--|---|---|--|--|--|--|--|--|
| | R98MV | R97MV | R962V | R951V | R921V | R951T | R921T | |
| Input Rate | 60-115 kBTU | 60-115 kBTU | 40-115 kBTU | 40-115 kBTU | 40-115 kBTU | 40-115 kBTU | 40-115 kBTU | |
| Configuration | Upflow | Downflow / Horizontal | 4-Way Multi-Position | 4-Way Multi-Position | 4-Way Multi-Position | 4-Way Multi-Position | 4-Way Multi-Position | |
| Heating Stages | Modulating | Modulating | Two-Stage | Single-Stage | Single-Stage | Single-Stage | Single-Stage | |
| Motor Type | Constant CFM | Constant CFM | Constant CFM | Constant CFM | Constant CFM | Constant Torque | Constant Torque | |
| Sound Ranking⁴ | Quietest | Quietest | Quieter | Quieter | Quieter | Quiet | Quiet | |
| Energy Efficiency | 98% AFUE | 97% AFUE | 96% AFUE | 95% AFUE | 92% AFUE | 95% AFUE | 92% AFUE | |
| ENERGY STAR® Certified⁹ | Yes | Yes | Yes | Yes | Yes — U.S. South | Yes | Yes — U.S. South | |
| Bluetooth Connectivity¹⁰ | No | No | Yes | Yes | Yes | No | No | |
| EcoNet® Enabled | Yes | Yes | Yes | Yes | Yes | No | No | |
| PlusOne® Features & More | Industry-first 7-segment LED & EcoNet enabled diagnostics for quick and easy service — Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected | Industry-first 7-segment LED & EcoNet enabled diagnostics for quick and easy service — Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected | Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected — Rheem Contractor and EcoNet Apps®, built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected — Rheem Contractor and EcoNet Apps®, built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected — Rheem Contractor and EcoNet Apps®, built-in EcoNet and Bluetooth technology allows for easy install and diagnostics | Industry-first 7-segment LED for quick and easy service — Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected | Industry-first 7-segment LED for quick and easy service — Direct Spark Ignition for reliability and longevity — Water Management System that shuts unit off if a blocked drain is detected | |
| Sustainability Standout | Yes | Yes | Yes | Yes | Yes | No | No | |
| Limited Warranty¹ | Parts – 10 Years — Heat Exchanger – Limited Lifetime — Conditional Unit Replacement – Limited Lifetime (registration required) | Parts – 10 Years — Heat Exchanger – Limited Lifetime — Conditional Unit Replacement – Limited Lifetime (registration required) | Parts – 10 Years — Heat Exchanger – Limited Lifetime — Conditional Unit Replacement – 10 Years (registration required) | Conditional Parts – 10 Years (registration required) — Heat Exchanger – Limited Lifetime | Conditional Parts – 10 Years (registration required) — Heat Exchanger – Limited Lifetime | Conditional Parts – 10 Years (registration required) — Heat Exchanger – Limited Lifetime | Conditional Parts – 10 Years (registration required) — Heat Exchanger – Limited Lifetime | Conditional Parts – 10 Years (registration required) — Heat Exchanger – Limited Lifetime |





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Nearly 100 Years of Innovation

As the only brand bringing innovative air and water solutions to homes and businesses around the world, Rheem continues to deliver advanced comfort, savings and experiences to our customers—just as we’ve done for nearly 100 years.



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

¹Registration is required for the conditional parts and unit replacement warranty (if applicable). For complete details of the limited and conditional warranties, including applicable terms and conditions, contact your local Contractor or go to Rheem.com for a copy of the product warranty certificate. ²Refer to the chart for specific warranty terms by product. ³Applies to R98MV, R97MV, R962V, R951V and R921V models. ⁴Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation. ⁵Applies to the R98MV and R97MV models. ⁶Applies to R962V model. ⁷Applies to R951V, R921V, R951T and R921T models. ⁸WiFi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates. ⁹Proper sizing and installation of equipment is critical to achieve optimal performance; Ask your contractor for details or visit EnergyStar.gov. ¹⁰Applies to R962V, R951V and R921V models.



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The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R801T

80% A.F.U.E.†

Heating Stages: Single Stage

Motor Type: Constant Torque

Input Rates: 50-125 kBTU [14.6-36.6 kW]

Configuration Options: Upflow/Horizontal



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

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Features and Benefits

- **PlusOne® Diagnostics:** Industry-first, 7-segment LED for quick & easy service
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Low Profile, 34-inch Cabinet:** Makes our furnaces ideal for space-constrained installations
- **Hemmed Cabinet & Door Edges and Quarter-Turn Door Fasteners (Upflow/Horizontal only):** Allows for safe, tool-less access and serviceability
- **Removable Heat Exchanger:** Improves serviceability. Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>1</u> | <u>T</u> | <u>050</u> | <u>3</u> | <u>A</u> | <u>14</u> | <u>UH</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 | 80 - 80% AFUE | 1 - Single-Stage | T - Constant Torque | 050 - 50K BTUH [14.7 kW] 075 - 75K BTUH [22.0 kW] 100 - 100K BTUH [29.3 kW] 125 - 125K BTUH [36.6 kW] | 3 - 3 ton drive 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 14 - 14" Width 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | UH - Upflow Horizontal | S - Standard N - Low NOx | N - Non-Comm. | A - 1st Series | S - Standard Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R801T0503A14UHSNAS |
| R801T0754A17UHSNAS |
| R801T0754A21UHSNAS |
| R801T1005A21UHSNAS |
| R801T1255A24UHSNAS |
| R801T0503A14UHNNAS |
| R801T0754A17UHNNAS |
| R801T0754A21UHNNAS |
| R801T1005A21UHNNAS |
| R801T1255A24UHNNAS |

| STANDARD EQUIPMENT |
|--|
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Cool fan off delay |
| Field selectable heat fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Humidifier connections |
| Low speed continuous fan option |
| Single speed option for heating and cooling applications |
| Transformer |
| Direct drive motor |
| Multi-speed constant torque blower motor |
| Solid bottom |

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

Physical Data and Specifications—Upflow Models

| MODEL NUMBERS R801T | R801T0503A14UH*NAS | R801T0754A17UH*NAS | R801T0754A21UH*NAS | R801T1005A21UH*NAS | R801T1255A24UH*NAS |
|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Constant Tq-UH Series | | | | | |
| Input-BTU/Hr [kW] | 50,000 [15] | 75,000 [22] | 75,000 [22] | 100,000 [29] | 125,000 [37] |
| Heating Capacity BTU/Hr [kW] © | 40,000 [12] | 60,000 [18] | 60,000 [18] | 80,000 [23] | 100,000 [29] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .20 [.05] | .20 [.05] | .28 [.07] | .28 [.07] |
| Blower (D x W) [mm] | 11 x 6 [279 x 152] | 11 x 7 [279 x 178] | 11 x 7 [279 x 178] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] |
| Motor H.P. [W] Type | 1/2 [373] 5 Spd Constant Torque | 1/2 [373] 5 Spd Constant Torque | 3/4 [560] 5 Spd Constant Torque | 3/4 [560] 5 Spd Constant Torque | 3/4 [560] 5 Spd Constant Torque |
| Min. Circuit Ampacity | 8 | 8 | 9 | 10 | 11 |
| Min. Overload Protection Device | 15 | 15 | 15 | 15 | 15 |
| Max. Overload Protection Device | 15 | 15 | 15 | 15 | 15 |
| Heating Speed | Med | Med | Med-High | Med | Med-High |
| Cooling Speed | High | High | High | High | High |
| Cooling CFM @ Rating Point [L/s] | 1305 [616] | 1402 [662] | 1608 [759] | 1840 [868] | 1934 [913] |
| Max. E.S.P. (In. W.C.) [kPa] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 40-70 [22-39] | 35-65 [19.4-36.1] |
| Max. Outlet Air Temp. °F [°C] | 155 [68.3] | 155 [68.3] | 160 [71.1] | 180 [82.2] | 165 [73.8] |
| Approx. Shipping Weight (Lbs.) [kg] | 110 [50] | 125 [57] | 140 [64] | 140 [64] | 150 [68] |
| AFUE © | 80.00% | 80.00% | 80.00% | 80.00% | 80.00% |

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

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

© See Conversion Kit Index Form for high altitude derate.

*S=Standard, N=Low NOx

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Upflow Application

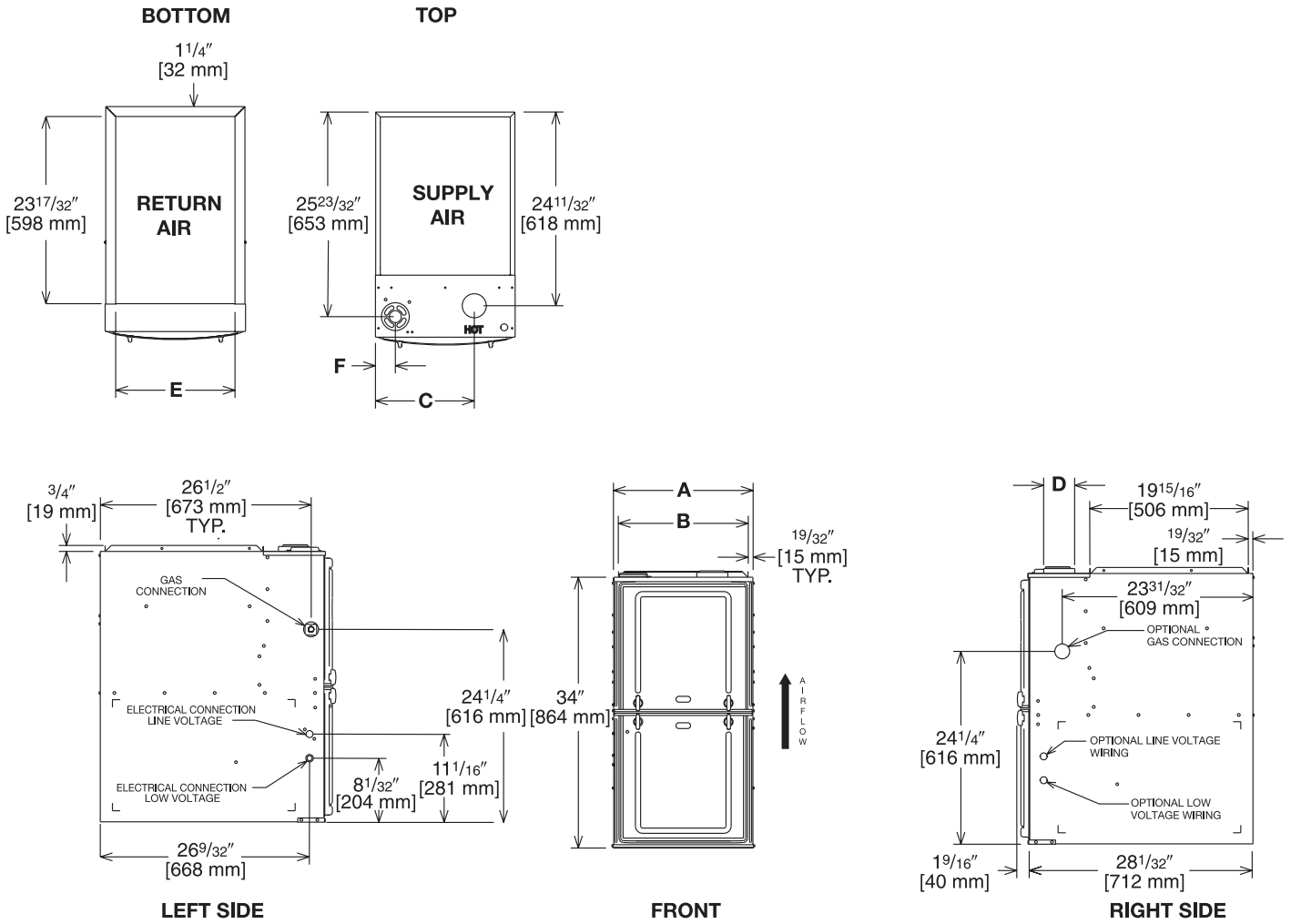


Illustration
ST-A1220-04-00
FIGURE 1

Dimensional Data: Upflow Model

| MODEL R801T- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. (LBS.) [kg] | |
|-----------------|-----------------------|-------------------------|-----------------------|---|-----------------------|---------------------|------------------------------|---------------|------|--------|--------|------------------------------|----------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | | VENT |
| 050 | 14 [356] | $12\frac{27}{32}$ [326] | $10\frac{5}{8}$ [270] | ① | $11\frac{1}{2}$ [292] | $1\frac{7}{8}$ [48] | 0 | 4 [102] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 110 [50] |
| 075417 | $17\frac{1}{2}$ [445] | $16\frac{11}{32}$ [415] | $12\frac{3}{8}$ [314] | ① | 15 [381] | $2\frac{1}{2}$ [64] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 125 [57] |
| 075421/100 | 21 [533] | $19\frac{27}{32}$ [504] | $14\frac{1}{8}$ [359] | ① | $18\frac{1}{2}$ [470] | $2\frac{1}{2}$ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |
| 125 | $24\frac{1}{2}$ [622] | $23\frac{11}{32}$ [593] | $15\frac{7}{8}$ [403] | ① | 22 [559] | $2\frac{1}{2}$ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 150 [68] |

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

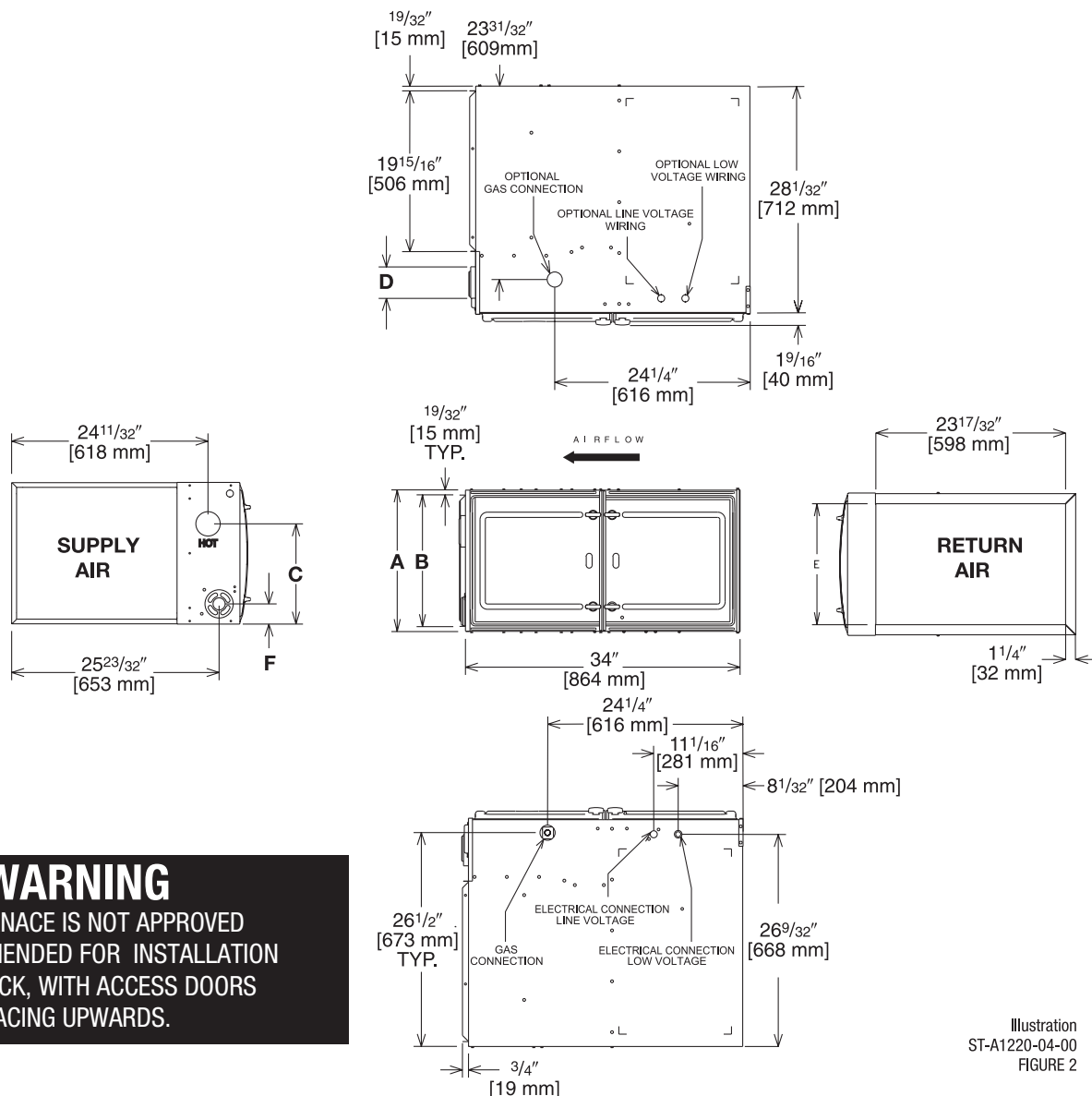
② May be 0" [0 mm] with type B vent.

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 and in accordance with local codes.

[] Designates Metric Conversions

Horizontal Application



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

Illustration
ST-A1220-04-00
FIGURE 2

Dimensional Data: Horizontal Model

| MODEL R801T | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | | SHIP WGTS. (LBS.) [kg] |
|----------------|--------------------------------------|--|--------------------------------------|---|--------------------------------------|-------------------------------------|------------------------------|--------------------|------|--------|--------|-----------|------------------------------|
| | | | | | | | SUPPLY AIR SIDE | RETURN AIR SIDE | BACK | TOP | FRONT | VENT | |
| 050 | 14 [356] | 12 ²⁷ / ₃₂ [326] | 10 ⁵ / ₈ [270] | ① | 11 ¹ / ₂ [292] | 17 ⁸ / ₈ [48] | 4 [102] ② | 4 [102] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 110 [50] |
| 075417 | 17 ¹ / ₂ [445] | 16 ¹¹ / ₃₂ [415] | 12 ³ / ₈ [314] | ① | 15 [381] | 2 ¹ / ₂ [64] | 3 [76] ② | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 125 [57] |
| 075421/100 | 21 [533] | 19 ²⁷ / ₃₂ [504] | 14 ¹ / ₈ [359] | ① | 18 ¹ / ₂ [470] | 2 ¹ / ₂ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |
| 125 | 24 ¹ / ₂ [622] | 23 ¹¹ / ₃₂ [593] | 15 ⁷ / ₈ [403] | ① | 22 [559] | 2 ¹ / ₂ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 150 [68] |

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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data

| AIR FLOW PERFORMANCE - 80% SINGLE STAGE UPFLOW/HORIZONTAL CONSTANT TORQUE | | | | | | | | | | | | |
|---|--------------------------------|------------------------------|--|-------|------|------|------|------|------|------|------|------|
| INPUT [BTU] CABINET WIDTH [IN] | AIRFLOW CONTROL SETTINGS | SPEED TAP/ WIRE COLORS | CFM AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES WATER COLUMN | | | | | | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 50K 14" | Factory Setting Fan | Low/Red | 915 | 777 | 674 | 598 | 541 | 498 | 460 | 419 | 370 | 304 |
| | Cool | Medium Low/Yellow | 963 | 894 | 834 | 781 | 733 | 689 | 646 | 602 | 555 | 504 |
| | Heat or Heat/Cool | Medium/Purple | 997 | 976 | 947 | 911 | 870 | 825 | 779 | 732 | 687 | 646 |
| | Cool | Medium High/Blue | 1123 | 1130 | 1121 | 1101 | 1071 | 1036 | 997 | 957 | 920 | 888 |
| | Factory Setting Cooling | High/Black | 1246 | 1244 | 1232 | 1211 | 1185 | 1154 | 1121 | 1087 | 1054 | 1024 |
| 75K 17" | Factory Setting Fan | Low/Red | 967 | 916 | 865 | 814 | 763 | 712 | 661 | 610 | 558 | 505 |
| | Cool | Medium Low/Yellow | 1206 | 1147 | 1087 | 1027 | 966 | 905 | 843 | 783 | 722 | 662 |
| | Cool | Medium/Purple | 1301 | 1260 | 1214 | 1164 | 1111 | 1058 | 1005 | 955 | 910 | 870 |
| | Heat or Heat/Cool | Medium High/Blue | 1413 | 1369 | 1324 | 1277 | 1229 | 1181 | 1130 | 1079 | 1026 | 972 |
| | Factory Setting Cooling | High/Black | 1590 | 15568 | 1530 | 1486 | 1437 | 1387 | 1342 | 1303 | 1276 | 1265 |
| 75K 21" | Factory Setting Fan | Low/Red | 1216 | 1174 | 1132 | 1088 | 1043 | 998 | 952 | 905 | 858 | 811 |
| | Cool | Medium Low/Yellow | 1314 | 1271 | 1229 | 1188 | 1147 | 1105 | 1063 | 1019 | 974 | 926 |
| | Heat or Heat/Cool | Medium/Purple | 1400 | 1356 | 1315 | 1276 | 1239 | 1200 | 1161 | 1120 | 1076 | 1027 |
| | Cool | Medium High/Blue | 1605 | 1576 | 1544 | 1509 | 1473 | 1436 | 1400 | 1365 | 1333 | 1303 |
| | Factory Setting Cooling | High/Black | 1686 | 1659 | 1628 | 1595 | 1559 | 1524 | 1489 | 1455 | 1426 | 1400 |
| 100K 21" | Factory Setting Fan | Low/Red | 1304 | 1233 | 1162 | 1091 | 1018 | 944 | 869 | 793 | 716 | 637 |
| | Cool | Medium Low/Yellow | 1406 | 1348 | 1289 | 1229 | 1168 | 1106 | 1044 | 982 | 920 | 859 |
| | Heat or Heat/Cool | Medium/Purple | 1520 | 1465 | 1409 | 1353 | 1296 | 1239 | 1183 | 1128 | 1073 | 1019 |
| | Cool | Medium High/Blue | 1709 | 1658 | 1607 | 1557 | 1507 | 1457 | 1407 | 1358 | 1308 | 1260 |
| | Factory Setting Cooling | High/Black | 1807 | 1758 | 1710 | 1663 | 1616 | 1569 | 1522 | 1475 | 1428 | 1380 |
| 125K 24" | Factory Setting Fan | Low/Red | 1295 | 1216 | 1138 | 1061 | 986 | 914 | 844 | 778 | 715 | 657 |
| | Cool | Medium Low/Yellow | 1649 | 1598 | 1548 | 1499 | 1449 | 1400 | 1351 | 1302 | 1252 | 1201 |
| | Cool | Medium/Purple | 1796 | 1746 | 1698 | 1652 | 1606 | 1561 | 1515 | 1469 | 1422 | 1374 |
| | Heat or Heat/Cool | Medium High/Blue | 1878 | 1828 | 1781 | 1735 | 1691 | 1647 | 1604 | 1560 | 1516 | 1470 |
| | Factory Setting Cooling | High/Black | 1943 | 1893 | 1846 | 1801 | 1757 | 1714 | 1673 | 1631 | 1589 | 1547 |

**BOTTOM RETURN FILTER RACK FOR
UPFLOW APPLICATION: RXGF-CB**

SIDE RETURN FILTER RACK: RXGF-CD

| FILTER RACK FILTER SIZES* INCHES [mm] | | |
|---------------------------------------|--|--|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) SIDE RETURN |
| R801TA050 | 12 ¹ / ₄ x 25 [311 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801TA075417 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801TA075421/ R801TA100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801TA125 | 22 ³ / ₄ x 25 [578 x 635] | 15 ³ / ₄ x 25 [400 x 635] |

4" 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. [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] |
| 17 ¹ / 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] |
| 24 ¹ / 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.

[] Designates Metric Conversions



The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R801T Ultra Low NOx

80% A.F.U.E.†

Heating Stages: Single Stage

Motor Type: Constant Torque

Input Rates: 50-100 kBTU [14.7-29.3 kW]

Configuration Options: Upflow/Horizontal



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

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| Accessories | 9 |
| Limited Warranty | 12 |

Features and Benefits

- **Ultra Low Greenhouse Gas Emissions:** Certified unit meets 14ng/j NOx emission standard – reducing NOx emissions by 65%
- **PlusOne® Diagnostics:** 7 Segment LED all units
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Low profile, 34-inch Cabinet:** Makes our furnaces ideal for space-constrained installations
- **Hemmed Cabinet & Door Edges and Quarter-Turn Door Fasteners:** Allows for safe, tool-less access and serviceability
- **Removable Heat Exchanger:** Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability
- **Blower Shelf Design:** Ensures serviceability in all furnace orientations
- **Cabinet Air Leakage** less than 2%: at 1 inch H₂O when tested in accordance with ASHRAE Standard 193

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>1</u> | <u>T</u> | <u>050</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>UH</u> | <u>U</u> | <u>N</u> | <u>A</u> | <u>P</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 | 80 - 80% AFUE | 1 - Single Stage | T - Constant Torque | 050 - 50K BTUH [14.7 kW] 070 - 70K BTUH [20.5 kW] 100 - 100K BTUH [29.3 kW] | 3 - 3 ton drive 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width | UH - Upflow Horizontal | U - Ultra Low NOx | N - Non-Comm. | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R801T0503A17UHUNAP |
| R801T0504A17UHUNAP |
| R801T0703A17UHUNAP |
| R801T0704A17UHUNAP |
| R801T1004A21UHUNAP |
| R801T1005A21UHUNAP |

| STANDARD EQUIPMENT |
|--|
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Cool fan off delay |
| Field selectable heat fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Humidifier connections |
| Low speed continuous fan option |
| Single speed option for heating and cooling applications |
| Transformer |
| Direct drive motor |
| Multi-speed constant torque blower motor |
| Solid bottom |

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

Physical Data and Specifications—Upflow Models

| MODEL NUMBERS R801T SERIES | R801T0503 A17UHUNAP | R801T0504 A17UHUNAP | R801T0703 A17UHUNAP | R801T0704 A17UHUNAP | R801T1004 A21UHUNAP | R801T1005 A21UHUNAP |
|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|----------------------------------|
| Input-BTU/Hr [kW] ② | 50,000 [14.6] | 50,000 [14.6] | 70,000 [20.5] | 70,000 [20.5] | 100,000 [29] | 100,000 [29] |
| Heating Capacity BTU/Hr [kW] ① | 40,000 [11.7] | 40,000 [11.7] | 56,000 [16.4] | 56,000 [16.4] | 80,000 [23.4] | 80,000 [23.4] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .18 [.05] | .20 [.05] | .20 [.05] | .28 [.07] | .28 [.07] |
| Blower (D x W) [mm] | 11 x 6 [279 x 152] | 11 x 6 [279 x 152] | 11 x 7 [279 x 178] | 11 x 7 [279 x 178] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] |
| Motor H.P.—Speed— Type [W] | 1/2-5 Spd Constant Torque [373] | 3/4-5 Spd Constant Torque [560] | 1/2-5 Spd Constant Torque [373] | 3/4-5 Spd Constant Torque [560] | 3/4-5 Spd Constant Torque [560] | 1-5 Spd Constant Torque [746] |
| Min. Circuit Ampacity | 10 | 11 | 9 | 12 | 13 | 16 |
| Min. Overload Protection Device | 15 | 15 | 15 | 15 | 15 | 20 |
| Max. Overload Protection Device | 15 | 15 | 15 | 15 | 15 | 25 |
| Heating Speed | Low | Low | Med | Med | Med | Med |
| Cooling Speed | Med-High | High | High | High | High | High |
| Cooling CFM @ Rating Point [L/s] | 1139 [538] | 1431 [675] | 1135 [536] | 1602 [756] | 1714 [809] | 1979 [934] |
| Max. E.S.P. (In. W.C.) [kPa] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] |
| Temperature Rise Range °F [°C] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] |
| Max. Outlet Air Temp. °F [°C] | 180 [82.2] | 180 [82.2] | 180 [82.2] | 180 [82.2] | 180 [82.2] | 180 [82.2] |
| Approx. Shipping Weight (Lbs.) [kg] | 125 [57] | 125 [57] | 125 [57] | 125 [57] | 140 [64] | 140 [64] |
| AFUE ① | 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" [12 mm] N.P.T.

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

② See Conversion Kit Index Form for high altitude derate.

This furnace is to be installed for natural gas only in air districts requiring 14 ng/J NOx emission limits.

[] Designates Metric Conversions

Upflow Dimensions

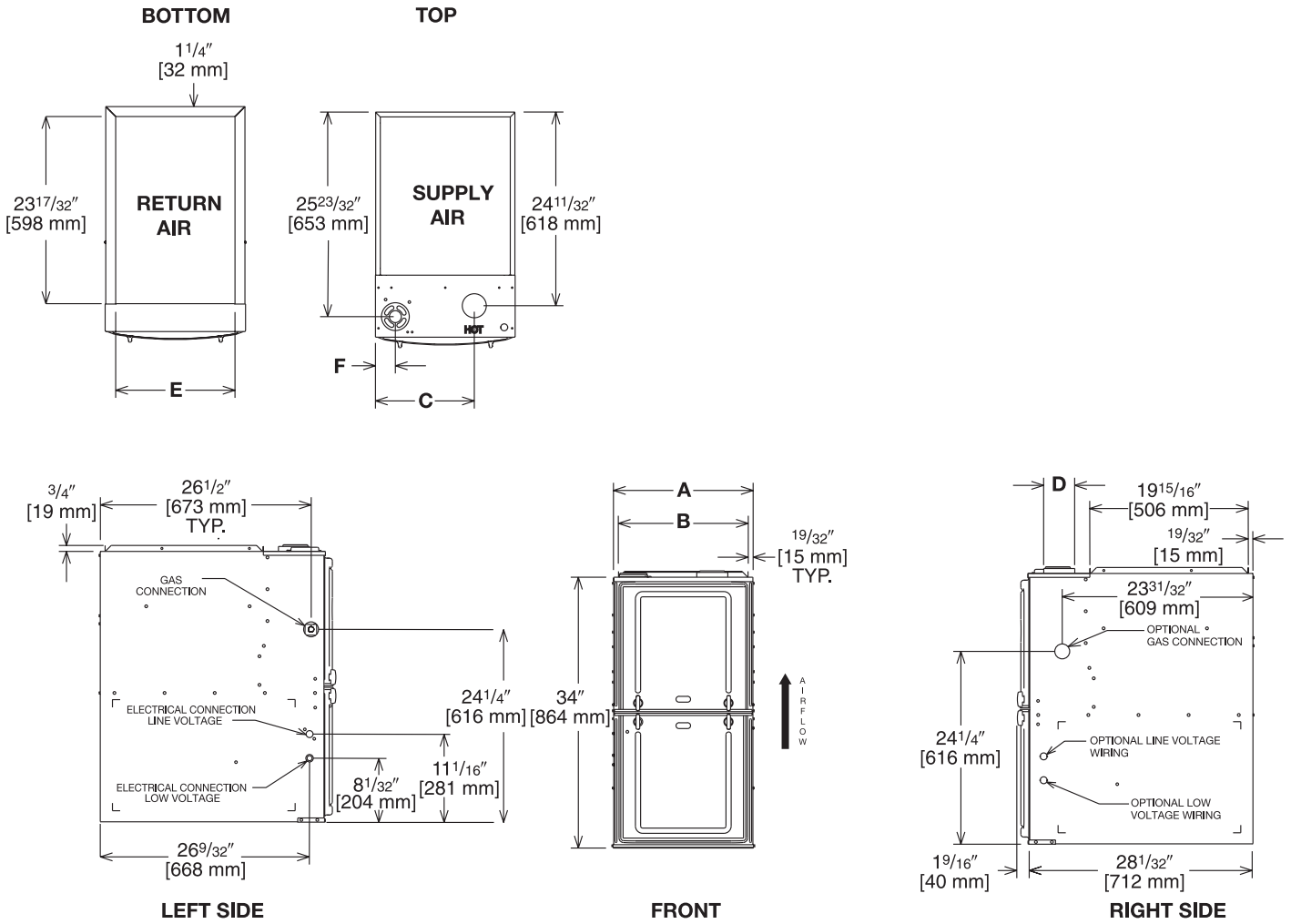


Illustration
ST-A1220-04-00
FIGURE 1

Dimensional Data: Upflow Model

| MODEL R801T- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. (LBS.) [kg] | |
|-----------------|------------------------|--------------------------|------------------------|---|------------------------|----------------------|------------------------------|---------------|------|--------|--------|------------------------------|----------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | | VENT |
| 050/070 | 17 $\frac{1}{2}$ [445] | 16 $\frac{11}{32}$ [415] | 12 $\frac{3}{8}$ [314] | ① | 15 [381] | 2 $\frac{1}{2}$ [64] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 125 [57] |
| 100 | 21 [533] | 19 $\frac{27}{32}$ [504] | 14 $\frac{1}{8}$ [359] | ① | 18 $\frac{1}{2}$ [470] | 2 $\frac{1}{2}$ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |

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

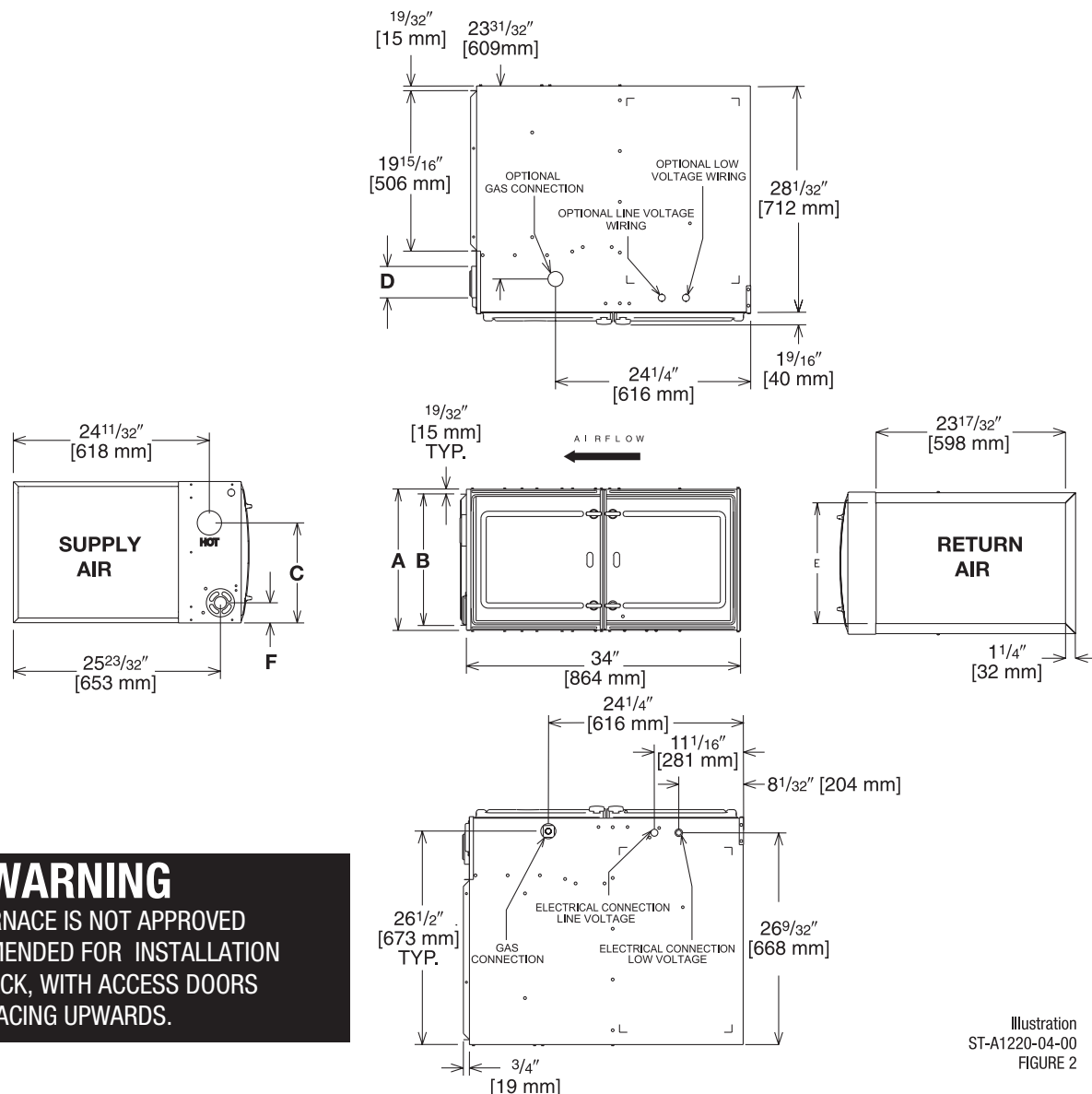
② May be 0" [0 mm] with type B vent.

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 and in accordance with local codes.

[] Designates Metric Conversions

Horizontal Application



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

Illustration
ST-A1220-04-00
FIGURE 2

Dimensional Data: Horizontal Model

| MODEL R801T- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. (LBS.) [kg] | |
|-----------------|--------------|----------------|--------------|---|--------------|------------|------------------------------|--------------------|------|--------|--------|------------------------------|----------|
| | | | | | | | SUPPLY AIR SIDE | RETURN AIR SIDE | BACK | TOP | FRONT | | VENT |
| 050/070 | 17 1/2 [445] | 16 11/32 [415] | 12 3/8 [314] | ① | 15 [381] | 2 1/2 [64] | 3 [76] ② | 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] | 2 1/2 [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |

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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data

| AIR FLOW PERFORMANCE - (-)801T SERIES MODELS | | | | | | | | | | | | |
|--|---------------------------------------|--------------------------|-------------|--|------------------------------------|--------------|------------|------------|------------|------------|------------|------------|
| MODEL INPUT | MOTOR H.P. [W] BLOWER SIZE IN [mm] | AIRFLOW CONTROL SETTINGS | MOTOR SPEED | CFM AIR DELIVERY EXTERNAL STATIC PRESSURE " OF W.C. [kPa] | | | | | | | | |
| | | | | 0.1 [.02] | 0.2 [.05] | 0.3 [.07] | 0.4 [.10] | 0.5 [.12] | 0.6 [.15] | 0.7 [.17] | 0.8 [.20] | 0.9 [.22] |
| | | | | 17" CAB 3 Ton/50K | 1/2 [373] 11 X 6 [279 X 152] | Factory Heat | Low | 783 | 709 | 664 | 610 | 559 |
| Factory Fan | Med-Low | 987 | 942 | | | 902 | 866 | 833 | 793 | 755 | 713 | 675 |
| Option Cool 2.5 Tons | Med | 1126 | 1096 | | | 1064 | 1030 | 996 | 966 | 934 | 897 | 869 |
| Factory Cool 3 Tons | Med-High | 1305 | 1276 | | | 1252 | 1221 | 1195 | 1164 | 1139 | 1110 | 1084 |
| Option Cool 3.5 Tons | High | 1410 | 1377 | | | 1353 | 1327 | 1310 | 1284 | 1259 | 1233 | 1210 |
| 17" CAB 4 Ton/50K | 3/4 [559] 11 X 6 [279 X 152] | Factory Fan | Low | 779 | 708 | 659 | 612 | 557 | 511 | 470 | 438 | 395 |
| | | Option Cool 2 Tons | Med-Low | 982 | 949 | 906 | 869 | 832 | 794 | 756 | 716 | 680 |
| | | Factory Heat | Med | 1116 | 1086 | 1057 | 1020 | 992 | 961 | 930 | 896 | 870 |
| | | Option Cool 3 Tons | Med-High | 1301 | 1274 | 1244 | 1216 | 1191 | 1165 | 1137 | 1111 | 1086 |
| | | Factory Cool 4 Tons | High | 1583 | 1555 | 1527 | 1504 | 1481 | 1453 | 1431 | 1405 | 1386 |
| 17" CAB 3 Ton/70K | 1/2 [373] 11 X 7 [279 X 177] | Factory Fan | Low | 892 | 834 | 783 | 729 | 674 | 623 | 568 | 518 | 472 |
| | | Option Cool 2 Tons | Med-Low | 1047 | 1004 | 958 | 909 | 860 | 814 | 764 | 721 | 682 |
| | | Factory Heat | Med | 1141 | 1097 | 1059 | 1016 | 971 | 929 | 884 | 844 | 803 |
| | | Factory Cool 3 Tons | Med-High | 1357 | 1316 | 1283 | 1243 | 1204 | 1169 | 1135 | 1091 | 1055 |
| | | Option Cool 3.5 Tons | High | 1493 | 1462 | 1424 | 1390 | 1358 | 1327 | 1291 | 1262 | 1229 |
| 17" CAB 4 Ton/70K | 3/4 [559] 11 X 7 [279 X 178] | Factory Fan | Low | 889 | 841 | 784 | 730 | 671 | 620 | 510 | 510 | 460 |
| | | Option Cool 2 Tons | Med-Low | 1046 | 1002 | 949 | 904 | 852 | 811 | 762 | 723 | 679 |
| | | Factory Heat | Med | 1141 | 1097 | 1059 | 1016 | 971 | 929 | 884 | 844 | 803 |
| | | Option Cool 3 Tons | Med-High | 1363 | 1327 | 1288 | 1255 | 1210 | 1175 | 1135 | 1097 | 1068 |
| | | Factory Cool 4 Tons | High | 1785 | 1745 | 1714 | 1688 | 1661 | 1627 | 1602 | 1569 | 1551 |
| 21" CAB 5 Ton/100K | 3/4 [559] 11 X 10 [279 X 254] | Factory Fan | Low | 1098 | 1064 | 1017 | 975 | 922 | 861 | 806 | 767 | 698 |
| | | Option Cool 3.5 Tons | Med-Low | 1373 | 1331 | 1297 | 1267 | 1228 | 1182 | 1131 | 1076 | 1023 |
| | | Factory Heat | Med | 1499 | 1474 | 1443 | 1419 | 1389 | 1353 | 1310 | 1272 | 1226 |
| | | Option Cool 4 Tons | Med-High | 1668 | 1644 | 1612 | 1595 | 1570 | 1536 | 1509 | 1466 | 1427 |
| | | Factory Cool 5 Tons | High | 1870 | 1849 | 1815 | 1785 | 1771 | 1736 | 1714 | 1681 | 1607 |
| 21" CAB 5 Ton/100K | 1[746] 11 X 10 [279 X 254] | Factory Fan | Low | 838 | 773 | 700 | 623 | 561 | 485 | 408 | 331 | 267 |
| | | Option Cool 3.5 Tons | Med-Low | 1451 | 1414 | 1380 | 1344 | 1311 | 1277 | 1230 | 1181 | 1132 |
| | | Factory Heat | Med | 1529 | 1488 | 1461 | 1421 | 1393 | 1355 | 1314 | 1279 | 1232 |
| | | Option Cool 4 Tons | Med-High | 1602 | 1569 | 1529 | 1501 | 1470 | 1439 | 1404 | 1367 | 1318 |
| | | Factory Cool 5 Tons | High | 2124 | 2098 | 2074 | 2047 | 2024 | 1996 | 1979 | 1943 | 1905 |

[] Designates Metric Conversions

**BOTTOM RETURN FILTER RACK FOR
UPFLOW APPLICATION: RXGF-CB**

SIDE RETURN FILTER RACK: RXGF-CD

| FILTER RACK FILTER SIZES* INCHES [mm] | | |
|---------------------------------------|--|--|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) SIDE RETURN |
| R801TA050/ R801TA070 | 12 ¹ / ₄ x 25 [311 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801TA100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] |

4" FLUE ADAPTER: RXGW-C01

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17AI |
| RXBC-D21AI |
| RXBC-D21BI |

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] |
|--------------------------------------|----------------------------|-------------------|--|
| 17 ¹ / 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] |

For High Altitudes:

HIGH ALTITUDE OPTION CODE: 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 (NFPA) 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.

[] Designates Metric Conversions



The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R801T

80% A.F.U.E.† Heating Stages: Single Stage

Motor Type: Constant Torque

Input Rates: 50-125 kBTU [14.6-36.6 kW]

Configuration Options: Downflow



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| Accessories | 8 |
| Limited Warranty | 12 |

Features and Benefits

- **PlusOne® Diagnostics:** Industry-first, 7-segment LED for quick & easy service
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Low Profile, 34-inch Cabinet:** Makes our furnaces ideal for space-constrained installations
- **Hemmed Cabinet & Door Edges and Quarter-turn Door Fasteners (Upflow/Horizontal only):** Allows for safe, tool-less access and serviceability
- **Removable Heat Exchanger:** Improves serviceability. Aluminized steel construction provides maximum corrosion resistance and thermal fatigue reliability
- **Blower Shelf Design:** Ensures serviceability in all furnace orientations

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>1</u> | <u>T</u> | <u>050</u> | <u>3</u> | <u>A</u> | <u>14</u> | <u>DZ</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 | 80 - 80% AFUE | 1 - Single-Stage | T - Constant Torque | 050 - 50K BTUH [14.65 kW] 070 - 70K BTUH [20.51 kW] 075 - 75k BTUH [21.00 kW] 100 - 100K BTUH [29.30 kW] 125 - 125K BTUH [36.63 kW] | 3 - 3 ton drive 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 14 - 14" Width 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | DZ - Downflow Zero Clearance | S - Standard L - Low NOx | N - Non-Comm. | A - 1st Series | S - Standard Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R801T0503A14DZSNAS |
| R801T0754A17DZSNAS |
| R801T0755A21DZSNAS |
| R801T1005A21DZSNAS |
| R801T1255A24DZSNAS |
| R801T0503A14DZNNAS |
| R801T0753A17DZNNAS |
| R801T0755A21DZNNAS |
| R801T1005A21DZNNAS |
| R801T1255A24DZNNAS |

| STANDARD FEATURES |
|--|
| Induced draft motor |
| Pressure switch |
| Redundant main gas control |
| Blower compartment door safety switch |
| Solid statetime on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Cool fan off delay |
| Field selectable heat fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Humidifier connections |
| Low speed continuous fan option |
| Single speed option for heating and cooling applications |
| Transformer |
| Direct drive motor |
| Multi-speed constant torque blower motor |

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

Physical Data and Specifications—Downflow Models

| MODEL NUMBERS R801T Constant Tq-Dflow Series | R801T0503A14DZ*NAS | R801T0754A17DZ*NAS | R801T0755A21DZ*NAS | R801T1005A21DZ*NAS | R801T1255A24DZ*NAS |
|--|------------------------------------|------------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Input-BTU/Hr [kW] | 50,000 [15] | 75,000 [22] | 75,000 [22] | 100,000 [29] | 125,000 [37] |
| Heating Capacity BTU/Hr [kW] © | 40,000 [12] | 60,000 [18] | 60,000 [18] | 80,000 [23] | 100,000 [29] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .20 [.05] | .20 [.05] | .28 [.07] | .28 [.07] |
| 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.P. [W] Type | 1/2 [373] 5 Spd Constant Torque | 1/2 [373] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque |
| Min. Circuit Ampacity | 9 | 11 | 11 | 12 | 15 |
| Min. Overload Protection Device | 15 | 15 | 15 | 15 | 20 |
| Max. Overload Protection Device | 15 | 15 | 20 | 20 | 25 |
| Heating Speed | Med | Med-Low | Med | Med-High | Med-High |
| Cooling Speed | High | High | High | High | High |
| Cooling in CFM [L/s] @ 0.5"wc [0.12 kPa] E.S.P. | 1301 [614] | 1200 [566] | 2000 [944] | 2000 [944] | 2000 [944] |
| Max. E.S.P. (In. W.C.) [kPa] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 35-65 [19.4-36.1] | 25-55 [13.9-30.6] | 30-60 [16.6-33.3] | 35-65 [19.4-36.1] |
| Max. Outlet Air Temp. °F [°C] | 155 [68.3] | 190 [87.8] | 165 [73.8] | 190 [87.8] | 185 [85.0] |
| Approx. Shipping Weight (Lbs.) [kg] | 85 [36.6] | 105 [48] | 120 [54] | 120 [54] | 140 [64] |
| AFUE © | 80.00% | 80.00% | 80.00% | 80.00% | 80.00% |

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

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

® See Conversion Kit Index Form for high altitude derate.

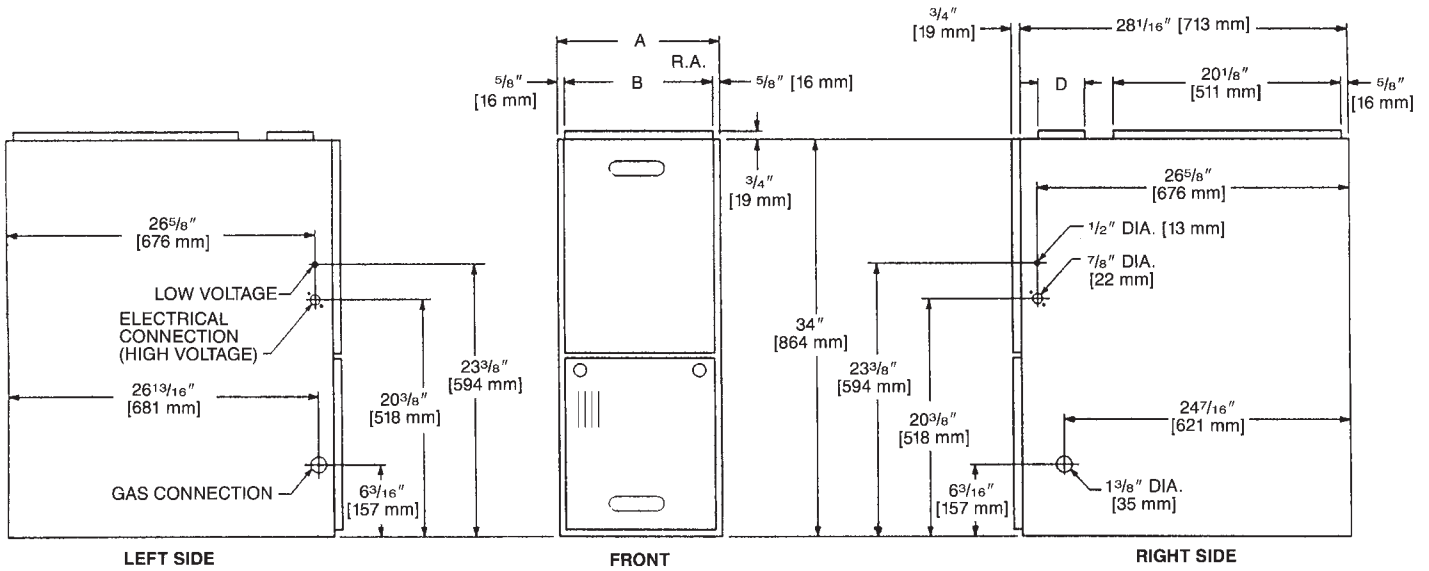
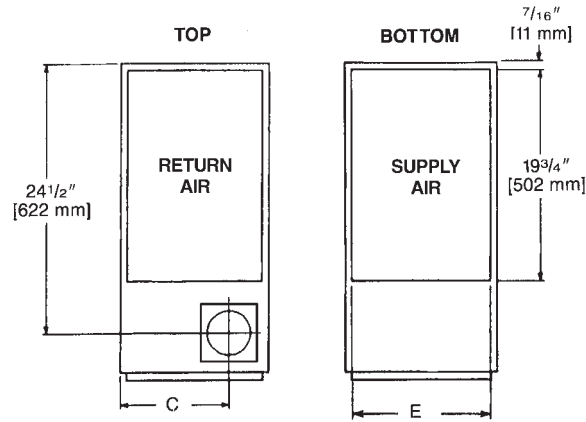
*S=Standard, N=Low NOx

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Downflow Dimensions



Dimensional Data—Downflow Models

| MODEL R801T DZ SERIES | A | B | C | D | E | REDUCED CLEARANCES (IN.) [mm] | | | | | | |
|-----------------------------|--------------|----------------|--------------|---|--------------|-------------------------------|---------------|------|--------|--------|-----------|----------------------------|
| | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | VENT | SHIP. WGTs. (LBS.) [kg] |
| 050 | 14 [356] | 12 27/32 [326] | 10 3/8 [264] | ① | 13 1/8 [333] | 0 | 4 ② | 0 | 1 [25] | 3 [76] | 6 [152] | 85 [38.6] |
| 075317 | 17 1/2 [445] | 16 11/32 [415] | 12 1/8 [308] | ① | 16 5/8 [422] | 0 | 3 ② | 0 | 1 [25] | 3 [76] | 6 [152] | 105 [47.6] |
| 075417 | 21 [533] | 19 27/32 [504] | 13 7/8 [352] | ① | 20 1/8 [511] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 100 | 21 [533] | 19 27/32 [504] | 13 7/8 [352] | ① | 20 1/8 [511] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 125 | 24 1/2 [622] | 23 11/32 [593] | 15 5/8 [397] | ① | 23 5/8 [600] | 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.

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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data—Downflow Models

| AIR FLOW PERFORMANCE - 80% SINGLE STAGE DOWNFLOW CONSTANT TORQUE | | | | | | | | | | | | |
|--|--------------------------------|------------------------------|--|---------------|---------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|
| INPUT (BTU) CABINET WIDTH (IN) | AIRFLOW CONTROL SETTINGS | SPEED TAP/ WIRE COLORS | CFM (L/S) AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [KPA] | | | | | | | | | |
| | | | 0.1 [0.02] | 0.2 [0.05] | 0.3 [0.07] | 0.4 [.10] | 0.5 [0.12] | 0.6 [0.15] | 0.7 [0.17] | 0.8 [.19] | 0.9 [.22] | 1.0 [.25] |
| 50k 14" | FACTORY SETTING FAN | LOW/RED | 909 | 747 | 618 | 517 | 439 | 377 | 326 | 280 | 234 | 183 |
| | COOL | MEDIUM LOW/ YELLOW | 982 | 899 | 828 | 766 | 712 | 664 | 620 | 577 | 534 | 490 |
| | HEAT OR HEAT/COOL | MEDIUM/ PURPLE | 1027 | 993 | 958 | 921 | 882 | 843 | 802 | 762 | 721 | 680 |
| | COOL | MEDIUM HIGH/ BLUE | 1172 | 1130 | 1093 | 1060 | 1030 | 1001 | 972 | 941 | 907 | 869 |
| | FACTORY SETTING COOLING | HIGH/BLACK | 1296 | 1262 | 1232 | 1204 | 1177 | 1150 | 1123 | 1094 | 1063 | 1029 |
| 75k 17" | FACTORY SETTING FAN | LOW/RED | 1018 | 957 | 913 | 866 | 816 | 772 | 720 | 670 | 626 | 588 |
| | HEAT OR HEAT/COOL | MEDIUM LOW/ YELLOW | 1146 | 1111 | 1059 | 1012 | 967 | 928 | 889 | 845 | 800 | 755 |
| | COOL | MEDIUM/ PURPLE | 1325 | 1257 | 1199 | 1144 | 1089 | 1028 | 975 | 922 | 871 | 813 |
| | COOL | MEDIUM HIGH/ BLUE | 1554 | 1490 | 1429 | 1365 | 1306 | 1272 | 1218 | 1170 | 1122 | 1077 |
| | FACTORY SETTING COOLING | HIGH/BLACK | 1752 | 1682 | 1625 | 1574 | 1525 | 1473 | 1421 | 1379 | 1341 | 1296 |
| 75k 21" | FACTORY SETTING FAN | LOW/RED | 1011 | 987 | 928 | 861 | 796 | 739 | 675 | 604 | 553 | 513 |
| | COOL | MEDIUM LOW/ YELLOW | 1341 | 1287 | 1216 | 1162 | 1105 | 1054 | 1000 | 952 | 899 | 847 |
| | HEAT OR HEAT/COOL | MEDIUM/ PURPLE | 1535 | 1487 | 1434 | 1384 | 1333 | 1280 | 1230 | 1190 | 1142 | 1099 |
| | COOL | MEDIUM HIGH/ BLUE | 1689 | 1644 | 1596 | 1559 | 1499 | 1454 | 1414 | 1370 | 1331 | 1280 |
| | FACTORY SETTING COOLING | HIGH/BLACK | 1848 | 1801 | 1762 | 1717 | 1678 | 1632 | 1598 | 1556 | 1527 | 1470 |
| 100k 21" | FACTORY SETTING FAN | LOW/RED | 1123 | 1035 | 968 | 897 | 838 | 768 | 692 | 618 | 570 | 525 |
| | COOL | MEDIUM LOW/ YELLOW | 1421 | 1365 | 1316 | 1266 | 1219 | 1157 | 1105 | 1052 | 1004 | 959 |
| | COOL | MEDIUM/ PURPLE | 1684 | 1632 | 1744 | 1549 | 1506 | 1462 | 1421 | 1379 | 1333 | 1277 |
| | HEAT OR HEAT/COOL | MEDIUM HIGH/ BLUE | 1865 | 1825 | 1780 | 1747 | 1705 | 1677 | 1636 | 1597 | 1562 | 1499 |
| | FACTORY SETTING COOLING | HIGH/BLACK | 1997 | 1955 | 1916 | 1875 | 1841 | 1803 | 1769 | 1730 | 1700 | 1646 |
| 125k 24" | FACTORY SETTING FAN | LOW/RED | 1127 | 1064 | 993 | 931 | 867 | 805 | 749 | 687 | 628 | 578 |
| | COOL | MEDIUM LOW/ YELLOW | 1438 | 1381 | 1330 | 1277 | 1227 | 1171 | 1118 | 1061 | 1024 | 976 |
| | COOL | MEDIUM/ PURPLE | 1726 | 1664 | 1622 | 1588 | 1544 | 1494 | 1446 | 1404 | 1360 | 1317 |
| | HEAT OR HEAT/COOL | MEDIUM HIGH/ BLUE | 1883 | 1832 | 1789 | 1756 | 1711 | 1678 | 1617 | 1587 | 1551 | 1495 |
| | FACTORY SETTING COOLING | HIGH/BLACK | 2209 | 2166 | 2129 | 2090 | 2059 | 2010 | 1976 | 1914 | 1911 | 1875 |

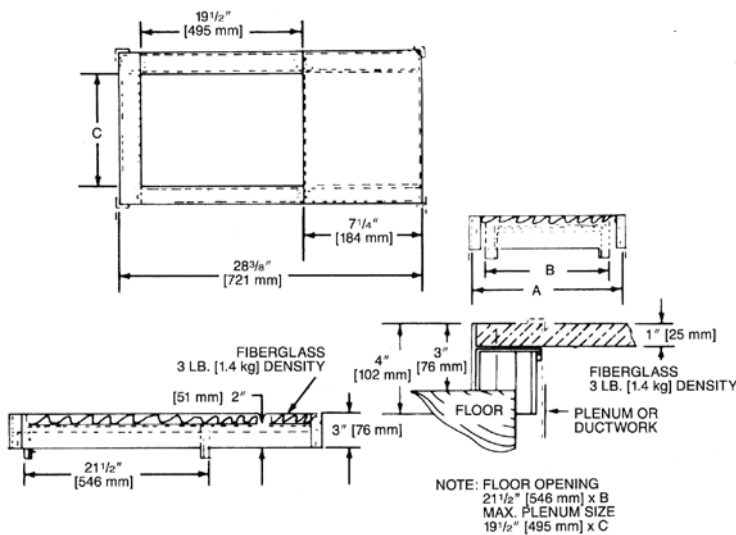
[] Designates Metric Conversions

Downflow Accessories

DOWNFLOW WARNING: Unit design is certified for installation on non-combustible floor. A special factory supplied combustible floor sub-base is required when installing on a combustible floor. Failure to install the sub-base may result in fire, property damage and personal injury.

Combustible Floor Base Dimensions

| COMBUSTIBLE FLOOR BASE | USE WITH FURNACE SIZES | A IN. [mm] | B IN. [mm] | C IN. [mm] |
|------------------------|-----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| RXGC-B14 | R801C050 | 14 ¹ / ₂ [368] | 13 ¹ / ₄ [337] | 11 ¹ / ₄ [286] |
| RXGC-B17 | R801C075317 | 18 [457] | 16 ³ / ₄ [425] | 14 ³ / ₄ [451] |
| RXGC-B21 | R801C100521, R801C075521 | 21 ¹ / ₂ [546] | 20 ¹ / ₄ [514] | 18 ¹ / ₄ [464] |
| RXGC-B24 | R801C125 | 25 [635] | 23 ³ / ₄ [603] | 21 ³ / ₄ [552] |



[] Designates Metric Conversions

RXGF-CC*

FILTER RACK—Downflow top return mount. Requires (2) 14 x 20 Filters.

NOTE: Filter racks are shipped without filters.

*Filters available through PROSTOCK ®.

For High Altitudes:

HIGH ALTITUDE OPTION CODE: 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.



The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R801V

80% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Single Stage

Motor Type: Constant CFM

Input Rates: 50-125 kBTU [14.65-36.63 kW]

Configuration Options: Upflow/Horizontal



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

Table of Contents

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| Dimensional Data | 6-7 |
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| Accessories | 9-10 |
| Limited Warranty | 12 |

Features and Benefits

- **PlusOne® Diagnostics:** With the Rheem Contractor & EcoNet Apps, built-in EcoNet & Bluetooth technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth Technology:** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet Smart Thermostat and Econet App²

¹Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

²Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>1</u> | <u>V</u> | <u>50</u> | <u>3</u> | <u>A</u> | <u>14</u> | <u>UH</u> | <u>S</u> | <u>C</u> | <u>A</u> | <u>P</u> |
|-----------|--------------------|-------------------|------------------------|--|---|-----------------------|--|---------------------------|-----------------------------|----------------------------|----------------|-------------------|
| Brand | Furnace Efficiency | Stages of Heating | Motor Type | Heating Input (BTUH) | AC Max. Capacity | Major Series | Width | Position | NOx | Controls | Minor Series | Option Code |
| R - Rheem | 80- 80% AFUE | 1 - Single-Stage | V - ECM Variable Speed | 050 - 50,000 [14.7 kW] 075 - 75,000 [22.0 kW] 100 - 100,000 [29.3 kW] 125 - 125,000 [36.6 kW] | 3 - 3 ton drive 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 14 - 14" Width 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | UH - Upflow Horizontal | S - Standard N - Low NOx | C - Communicating, EcoNet® | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R801V0503A14UHSCAP |
| R801V0754A17UHSCAP |
| R801V0755A21UHSCAP |
| R801V1005A21UHSCAP |
| R801V1255A24UHSCAP |
| R801V0503A14UHNCAP |
| R801V0754A17UHNCAP |
| R801V0755A21UHNCAP |
| R801V1005A21UHNCAP |
| R801V1255A24UHNCAP |

| STANDARD EQUIPMENT |
|---|
| Solid statetime on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Adjustable cool fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Twinning (built-in) features |
| Low speed continuous fan option |
| Single speed heating |
| Two speed cooling |
| Transformer |
| Direct drive motor |
| PWM controlled constant torque electrically commutated blower motor |
| Solid bottom |

NOTE: A thermostat is not included as standard equipment

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

Physical Data and Specifications—Upflow Models

| MODEL NUMBERS R801V 1stg VS-CT UP/HZ SERIES | R801V 0503A14UH*CAP | R801V 0754A17UH*CAP | R801V 0755A21UH*CAP | R801V 1005A21UH*CAP | R801V 1255A24UH*CAP |
|--|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|
| Input-BTU/Hr [kW] | 50,000 [15] | 75,000 [22] | 75,000 [22] | 100,000 [29] | 125,000 [37] |
| Heating Capacity BTU/Hr [kW] © | 40,000 [12] | 60,000 [18] | 60,000 [18] | 80,000 [23] | 100,000 [29] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .20 [.05] | .20 [.05] | .28 [.07] | .28 [.07] |
| Blower (D x W) [mm] | 11 x 6 [279 x 152] | 11 x 7 [279 x 178] | 11 x 7 [279 x 178] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] |
| Motor H.P. [W] Type | 1/2 [373] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) |
| Min. Circuit Ampacity | 9 | 13 | 13 | 13 | 13 |
| Min. Overload Protection Device | 15 | 15 | 15 | 15 | 15 |
| Max. Overload Protection Device | 15 | 20 | 20 | 20 | 20 |
| Motor Full Load Amps | 5.8 | 5.8 | 11.1 | 8.8 | 8.8 |
| Heating CFM [L/s] | 960 [453] | 1450 [684] | 1375 [649] | 1380 [651] | 1900 [897] |
| MAX Cooling CFM [L/s] | 1240 [585] | 1650 [779] | 1980 [934] | 1980 [934] | 1980 [934] |
| MIN Cooling CFM [L/s] | 300 [142] | 500 [236] | 500 [236] | 500 [236] | 500 [236] |
| Fan CFM [L/s] | 600 [283] | 800 [378] | 1000 [472] | 1000 [472] | 1000 [472] |
| Max. E.S.P. (In. W.C.) [kPa] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] |
| Approx. Shipping Weight (Lbs.) [kg] | 110 [50] | 125 [57] | 140 [64] | 140 [64] | 150 [68] |
| AFUE © | 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.

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

® See Conversion Kit Index Form for high altitude derate.

*S=Standard, N=Low NOx

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Upflow Application

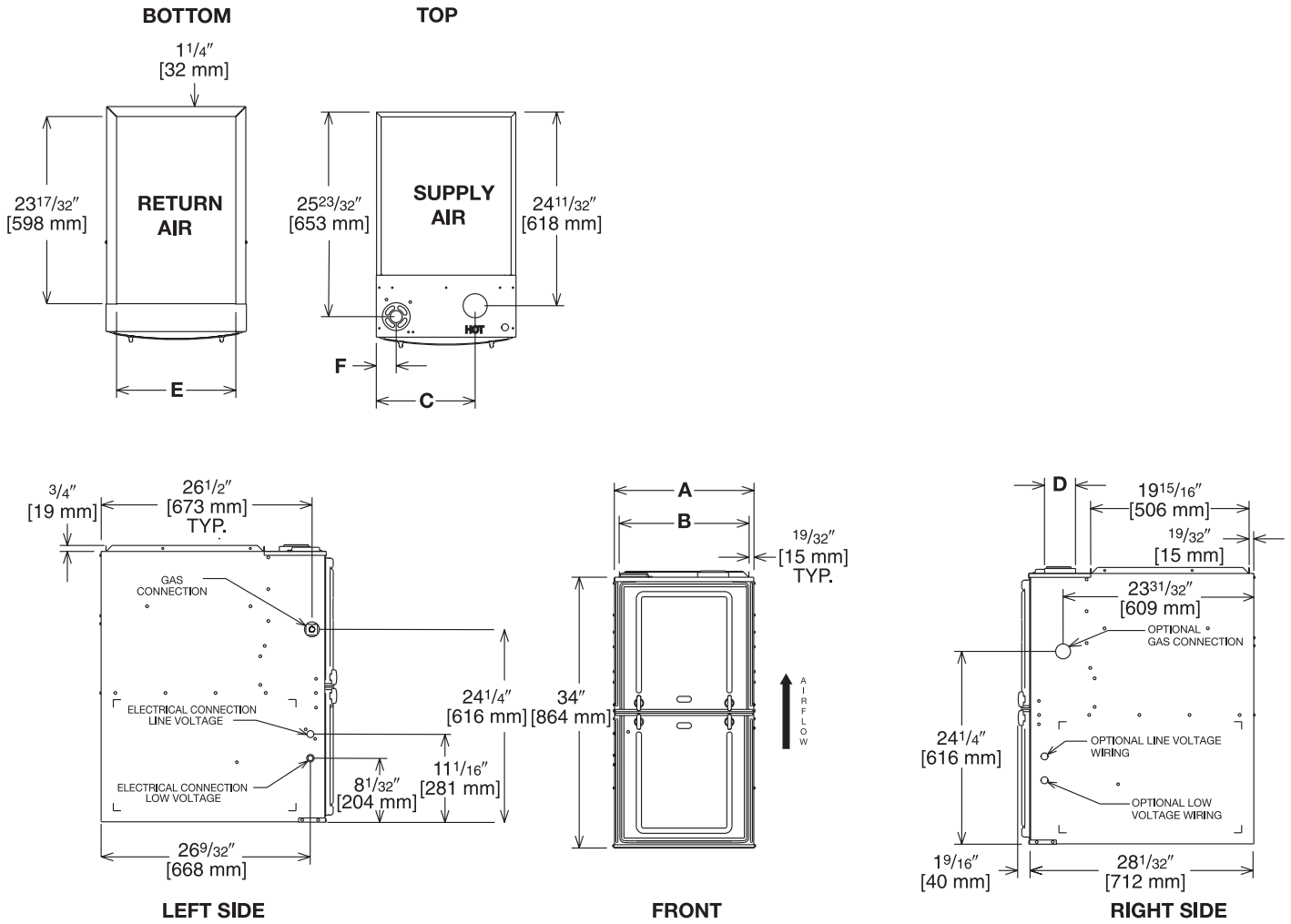


Illustration
ST-A1220-04-00
FIGURE 1

Dimensional Data: Upflow Model

| MODEL R801V- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | | SHIP WGTS. (LBS.) [kg] |
|-----------------|--------------|----------------|--------------|---|--------------|------------|------------------------------|---------------|------|--------|--------|-----------|------------------------------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | VENT | |
| 050 | 14 [356] | 12 27/32 [326] | 10 5/8 [270] | ① | 11 1/2 [292] | 17/8 [48] | 0 | 4 [102] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 110 [50] |
| 075417 | 17 1/2 [445] | 16 11/32 [415] | 12 3/8 [314] | ① | 15 [381] | 2 1/2 [64] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 125 [57] |
| 075421/100 | 21 [533] | 19 27/32 [504] | 14 1/8 [359] | ① | 18 1/2 [470] | 2 1/2 [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |
| 125 | 24 1/2 [622] | 23 11/32 [593] | 15 7/8 [403] | ① | 22 [559] | 2 1/2 [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 150 [68] |

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 and in accordance with local codes.

[] Designates Metric Conversions

Horizontal Application

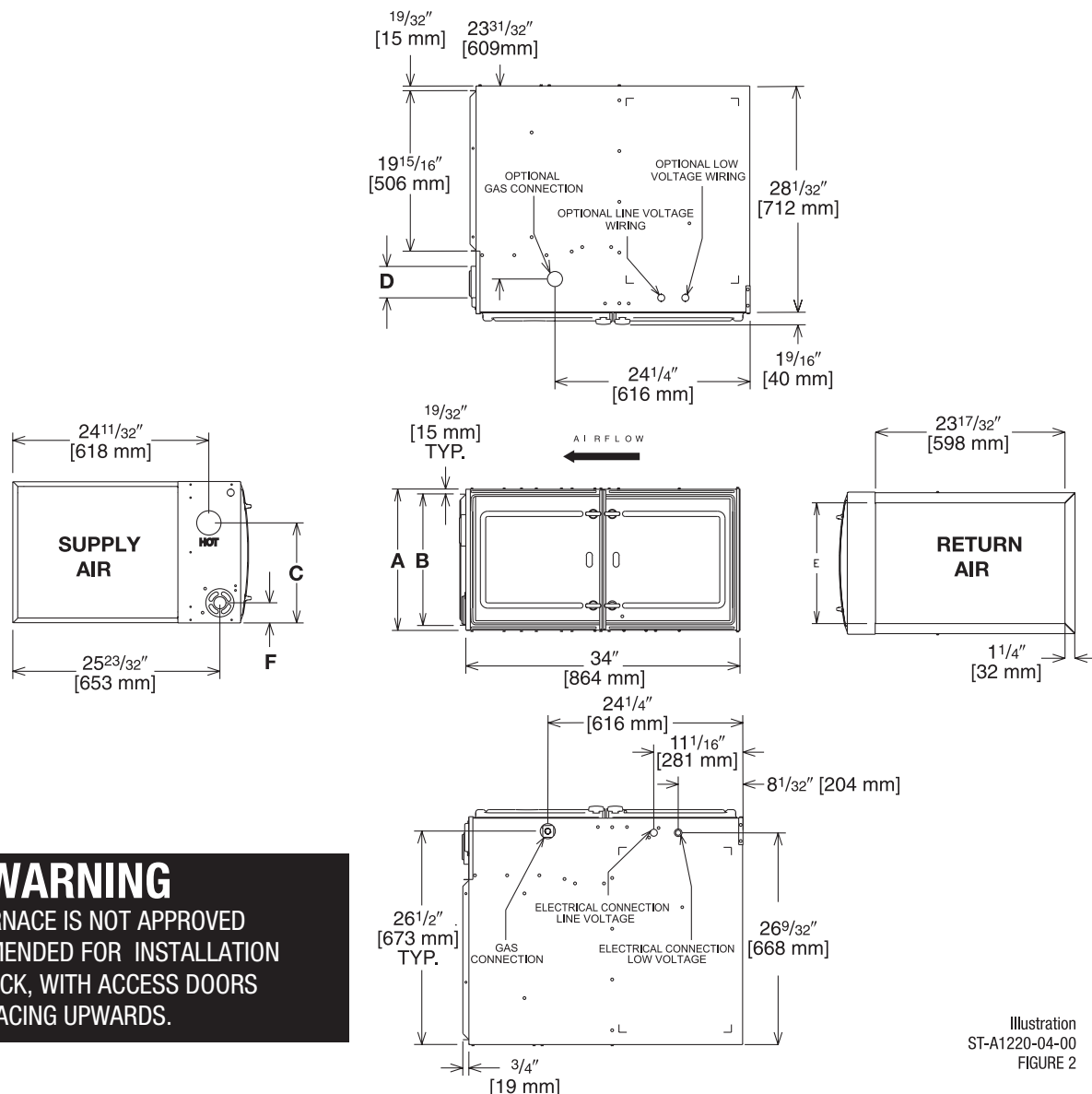


Illustration
ST-A1220-04-00
FIGURE 2

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

Dimensional Data: Horizontal Model

| MODEL R801V- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | | SHIP WGTS. (LBS.) [kg] |
|-----------------|--------------------------------------|--|--------------------------------------|---|--------------------------------------|------------------------------------|------------------------------|--------------------|------|--------|--------|-----------|------------------------------|
| | | | | | | | SUPPLY AIR SIDE | RETURN AIR SIDE | BACK | TOP | FRONT | VENT | |
| 050 | 14 [356] | 12 ²⁷ / ₃₂ [326] | 10 ⁵ / ₈ [270] | ① | 11 ¹ / ₂ [292] | 1 ⁷ / ₈ [48] | 4 [102] ② | 4 [102] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 110 [50] |
| 075417 | 17 ¹ / ₂ [445] | 16 ¹¹ / ₃₂ [415] | 12 ³ / ₈ [314] | ① | 15 [381] | 2 ¹ / ₂ [64] | 3 [76] ② | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 125 [57] |
| 075421/ 100 | 21 [533] | 19 ²⁷ / ₃₂ [504] | 14 ¹ / ₈ [359] | ① | 18 ¹ / ₂ [470] | 2 ¹ / ₂ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |
| 125 | 24 ¹ / ₂ [622] | 23 ¹¹ / ₃₂ [593] | 15 ⁷ / ₈ [403] | ① | 22 [559] | 2 ¹ / ₂ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 150 [68] |

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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data

| TARGET GAS HEATING AIRFLOWS | | | | | |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| | R801V0503A14UH*CAP | R801V0754A17UH*CAP | R801V0755A21UH*CAP | R801V1005A21UH*CAP | R801V1255A24UH*CAP |
| Factory High Heating CFM [L/s] | 960.0 [453] | 1450.0 [684] | 1425.0 [673] | 1380.0 [651] | 1900 [897] |
| High Heat Side Return CFM [L/s] | 960.0 [453] | 1450.0 [684] | 1425.0 [673] | 1380.0 [651] | 1900 [897] |
| High Heat Approx. $\pm 7^{\circ}\text{F}$ CFM | 864.0 [408] | 1305.0 [616] | 1282.5 [605] | 1242.0 [586] | 1710 [807] |
| High Heat Approx. $\pm 12^{\circ}\text{F}$ CFM | 796.8 [376] | 1203.5 [568] | 1182.75 [558] | 1145.4 [541] | 1577 [744] |

[] Designates Metric Conversions

**BOTTOM RETURN FILTER RACK FOR
UPFLOW APPLICATION: RXGF-CB**

SIDE RETURN FILTER RACK: RXGF-CD

| FILTER RACK FILTER SIZES* INCHES [mm] | | |
|---------------------------------------|--|--|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) SIDE RETURN |
| R801V050 | 12 ¹ / ₄ x 25 [311 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801V0754A17 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801V0754A21/ R801V100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801V125 | 22 ³ / ₄ x 25 [578 x 635] | 15 ³ / ₄ x 25 [400 x 635] |

4" 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. [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] |
| 17 ¹ / 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] |
| 24 ¹ / 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.

[] Designates Metric Conversions



THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

5 OPERATING MODES – Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



RETST700SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION – Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R801V Ultra Low NOx

80% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Single Stage

Motor Type: Constant CFM

Input Rates: 50-100 kBTU [14.65-29.3 kW]

Configuration Options: Upflow/Horizontal



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

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Features and Benefits

- **Ultra Low Greenhouse Gas Emissions:** Certified unit meets 14ng/j NOx emission standard – reducing NOx emissions by 65%
- **PlusOne® Diagnostics:** With the Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth¹ technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth Technology:** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation²:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App³

¹The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Rheem® is under license. Other trademarks and trade names are those of their respective owners.

²Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

³Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>1</u> | <u>V</u> | <u>050</u> | <u>4</u> | <u>A</u> | <u>17</u> | <u>UH</u> | <u>U</u> | <u>C</u> | <u>A</u> | <u>P</u> |
|-----------|--------------------|-------------------|------------------------|---|------------------------------------|-----------------------|------------------------------------|---------------------------|-------------------|----------------------------|----------------|-------------------|
| Brand | Furnace Efficiency | Stages of Heating | Motor Type | Heating Input (BTUH) | AC Max. Capacity | Major Series | Width | Position | NOx | Controls | Minor Series | Option Code |
| R - Rheem | 80 - 80% AFUE | 1 - Single-Stage | V - ECM Variable Speed | 050 - 50,000 [14.7 kW] 070 - 70,000 [20.5 kW] 100 - 100,000 [29.3 kW] | 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width | UH - Upflow Horizontal | U - Ultra Low NOx | C - Communicating, EcoNet® | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R801V0504A17UHUCAP |
| R801V0704A17UHUCAP |
| R801V1005A21UHUCAP |

| STANDARD EQUIPMENT |
|---|
| Complete assembly and wiring |
| Condensate switch connection |
| Constant CFM variable speed motor |
| Cool fan off delay |
| Direct drive |
| Electronic air cleaner connections |
| EXV connection |
| Flame sense current diagnostics |
| Fully insulated heat exchanger cabinet |
| Humidifier connections |
| Limit controls |
| Low speed continuous fan option |
| Manual shutoff valve |
| On demand dehumidification |
| One-hour automatic retry |
| Outdoor air temperature connection |
| Power and self-test diagnostics |
| Pressure switches |
| Primary stainless steel heat exchanger |
| Redundant main gas control |
| Return air temp sensor connection |
| Suction pressure/evap. temperature connection |
| Suction temperature connection |
| Supply air temperature connection |
| Transformer |
| Variable speed 3 phase induced draft motor |

NOTE: A thermostat is not included as standard equipment

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

Physical Data and Specifications – Upflow Models

| MODEL NUMBERS R801V 1stg VS-CT UP/HZ SERIES | R801V 0504A17UHUCAP | R801V 0704A17UHUCAP | R801V 1005A21UHUCAP |
|--|-------------------------|-------------------------|------------------------|
| Input-BTU/Hr [kW] | 50,000 [15] | 70,000 [20.5] | 100,000 [29] |
| Heating Capacity BTU/Hr [kW] ① | 40,000 [12] | 56,000 [16.4] | 80,000 [23] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .20 [.05] | .28 [.07] |
| Blower (D x W) [mm] | 11 x 6 [279 x 152] | 11 x 7 [279 x 178] | 11 x 10 [279 x 254] |
| Motor H.P. [W] Type | 3/4 [373] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 1 [746] VS-CT(ECM) |
| Min. Circuit Ampacity | 13 | 13 | 17 |
| Min. Overload Protection Device | 15 | 15 | 20 |
| Max. Overload Protection Device | 20 | 20 | 25 |
| Motor Full Load Amps | 8.8 | 8.8 | 11.1 |
| Heating CFM [L/s] | 735 [334] | 1020 [464] | 1525 [693] |
| MAX Cooling CFM [L/s] | 1650 [779] | 1650 [779] | 1980 [934] |
| MIN Cooling CFM [L/s] | 300 [142] | 300 [142] | 500 [236] |
| Fan CFM [L/s] | 800 [378] | 800 [378] | 1000 [472] |
| Max. E.S.P. (In. W.C.) [kPa] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] |
| Temperature Rise Range °F [°C] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] |
| Approx. Shipping Weight (Lbs.) [kg] | 125 [50] | 125 [57] | 140 [64] |
| AFUE ② | 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 This model does not require any component changes at elevations 0-5,500 ft. above sea level. At elevations higher than 2,000 ft. these models do require a 2% de-rate for every 1,000 ft. of elevation above sea level.

② In accordance with D.O.E test procedures.

[] Designates Metric Conversions

Upflow Application

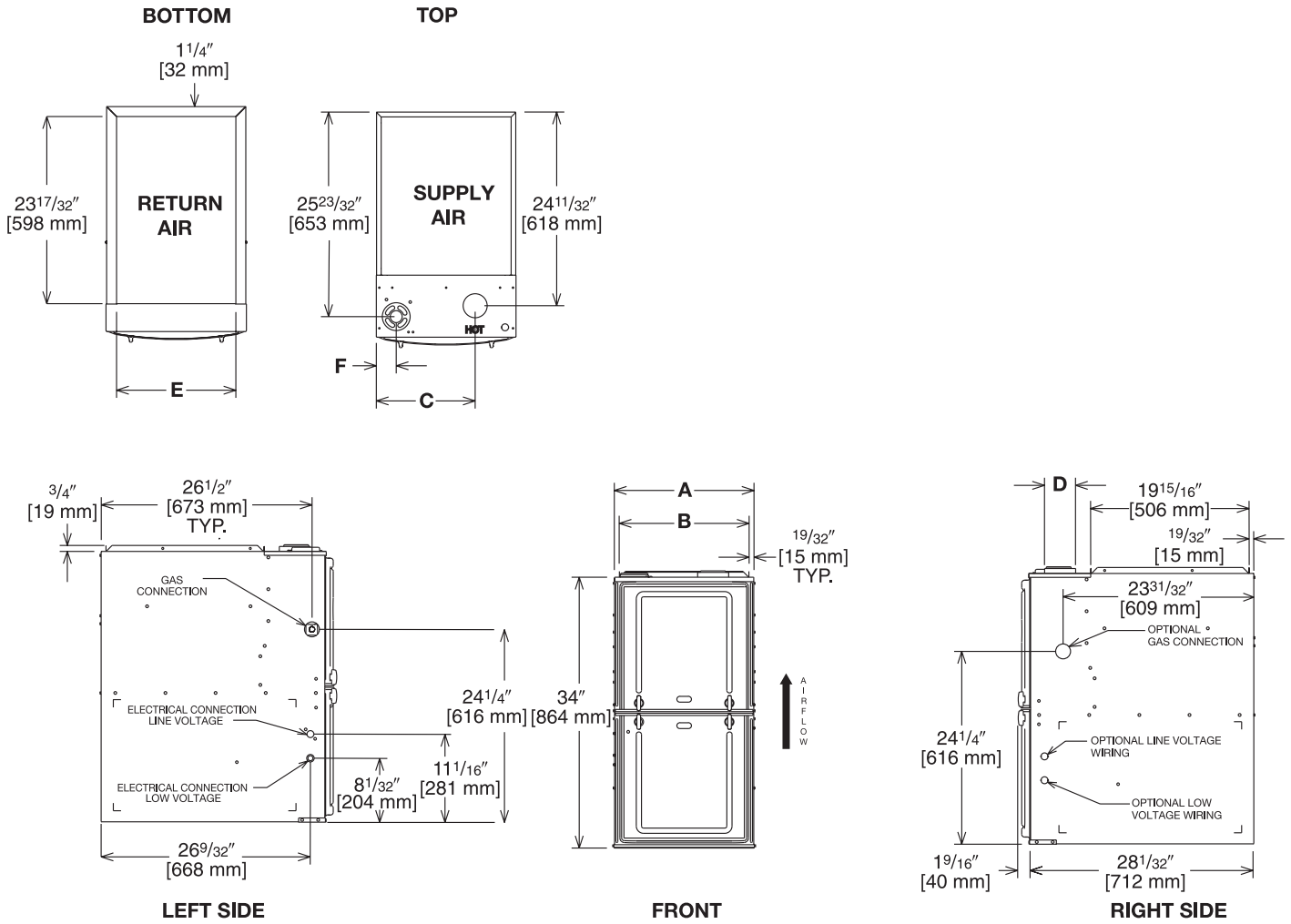


Illustration
ST-A1220-04-00
FIGURE 1

Dimensional Data – Upflow Model

| MODEL R801V- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | | SHIP WGTS. (LBS.) [kg] |
|-----------------|--------------|----------------|--------------|---|--------------|------------|------------------------------|---------------|------|--------|--------|-----------|------------------------------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | VENT | |
| 050/070 | 17 1/2 [445] | 16 11/32 [415] | 12 3/8 [314] | ① | 15 [381] | 2 1/2 [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] | 2 1/2 [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |

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

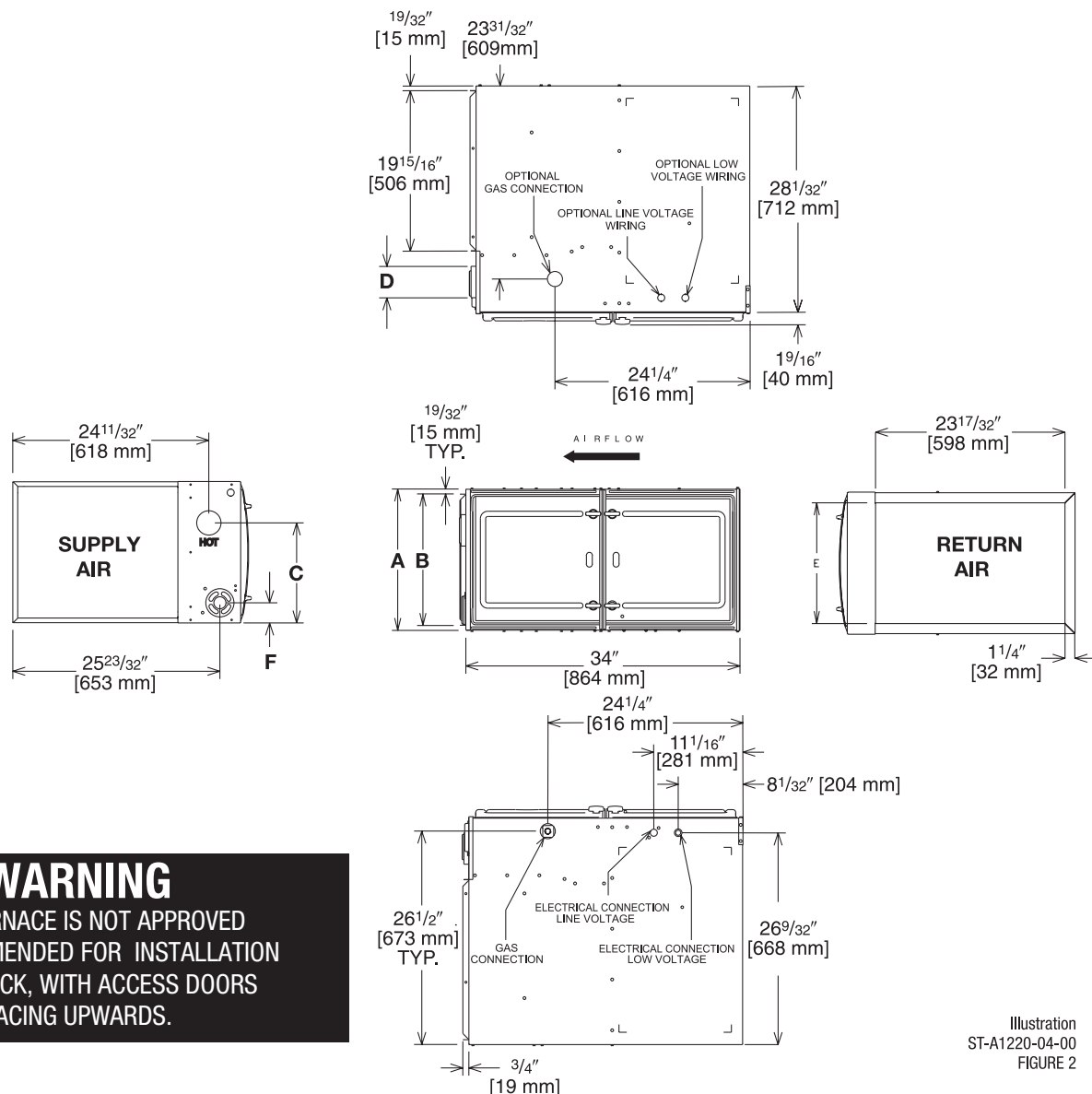
② May be 0" [0 mm] with type B vent.

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 and in accordance with local codes.

[] Designates Metric Conversions

Horizontal Application



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

Illustration
ST-A1220-04-00
FIGURE 2

Dimensional Data – Horizontal Model

| MODEL R801V- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | | SHIP WGTS. (LBS.) [kg] |
|-----------------|--------------------------------------|--|--------------------------------------|---|--------------------------------------|------------------------------------|------------------------------|--------------------|------|--------|--------|-----------|------------------------------|
| | | | | | | | SUPPLY AIR SIDE | RETURN AIR SIDE | BACK | TOP | FRONT | VENT | |
| 050/070 | 17 ¹ / ₂ [445] | 16 ¹¹ / ₃₂ [415] | 12 ³ / ₈ [314] | ① | 15 [381] | 2 ¹ / ₂ [64] | 3 [76] ② | 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] | 2 ¹ / ₂ [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |

NOTES: ① May require a 4" [102 mm] or 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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data

| TARGET GAS HEATING AIRFLOWS | | | |
|--|-------------------|--------------------|--------------------|
| | R81V0504A17UHUCAP | R801V0704A17UHUCAP | R801V1005A21UHUCAP |
| Factory High Heating CFM [L/s] | 735 [334] | 1020 [464] | 1525 [693] |
| High Heat Side Return CFM [L/s] | 794 [361] | 1100 [500] | 1647 [749] |
| High Heat Approx. $\pm 7^{\circ}\text{F}$ CFM | 662 [301] | 918 [417] | 1373 [624] |
| High Heat Approx. $\pm 12^{\circ}\text{F}$ CFM | 611 [278] | 847 [385] | 1266 [575] |

[] Designates Metric Conversions

**BOTTOM RETURN FILTER RACK FOR
UPFLOW APPLICATION: RXGF-CB**

SIDE RETURN FILTER RACK: RXGF-CD

| FILTER RACK FILTER SIZES* INCHES [mm] | | |
|---------------------------------------|--|--|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) SIDE RETURN |
| R801VA050/ R801VA070 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] |
| R801VA100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] |

WARNING - Taking return air from back of the furnace is NOT permitted.

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17AI |
| RXBC-D21AI |
| RXBC-D21BI |
| RXBC-D24AI |

[] Designates Metric Conversions

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] |
|--------------------------------------|----------------------------|-------------------|--|
| 17 ¹ / 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] |

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 (NFPA) 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.



THE ECUNET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

5 OPERATING MODES – Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



RETST800SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION – Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



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 (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



The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R801V

EcoNet® Enabled

Heating Stages: Single Stage

Motor Type: Constant CFM

Input Rates: 50-125 kBTU [4.7 - 29.3 kW]

Configuration Options: Downflow

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Features and Benefits

- **PlusOne® Diagnostics:** With the Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth technology makes monitoring, troubleshooting and repairing the product easier than ever before.
- **Dip Switch Free Installation Commissioning via Bluetooth Technology** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **PlusOne® Ignition System:** Proven Direct Spart Ignition (DSI) for reliability and longevity
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation¹** A fully **insulated blower cabinet, solid bottom** and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings. Allows on-the-go control and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and Econet® App².

¹Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

²Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>1</u> | <u>V</u> | <u>050</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>DZ</u> | <u>S</u> | <u>C</u> | <u>A</u> | <u>P</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 | 80 - 80% AFUE | 1 - Single-Stage | V - ECM Variable Speed | 050 - 50,000 075 - 75,000 100 - 100,000 125 - 115,000 | 3 - 3 ton drive 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | DZ - Downflow Zero Clearance | S - Standard N - Low NOx | C - Communicating, EcoNet, Bluetooth | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R801V0503A14DZSCAP |
| R801V0754A17DZSCAP |
| R801V0755A21DZSCAP |
| R801V1005A21DZSCAP |
| R801V1255A24DZSCAP |
| R801V0503A14DZNCAP |
| R801V0754A17DZNCAP |
| R801V0755A21DZNCAP |
| R801V1005A21DZNCAP |
| R801V1255A24DZNCAP |

| STANDARD EQUIPMENT |
|---|
| Constant CFM Variable Speed Motor |
| Complete assembly and wiring |
| Bluetooth enabled diagnostics and app setup |
| Primary aluminized steel 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 |
| Cool fan off delay |
| Low speed continuous fan option |
| One-hour automatic retry |
| Power and self-test diagnostics |
| Flame sense current diagnostics |
| Transformer |
| Direct drive |

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

Physical Data and Specifications—Downflow Models U.S. and Canadian Models

| MODEL NUMBERS R801V1stg VS-CT DOWNFLOW SERIES | R801V0503A14DZ*CAP | R801V0754A17DZ*CAP | R801V0755A21DZ*CAP | R801V1005A21DZ*CAP | R801V1255A24DZ*CAP |
|--|-------------------------|-------------------------|-----------------------|------------------------|------------------------|
| Input-BTU/Hr [kW] | 50,000 [15] | 75,000 [22] | 75,000 [22] | 100,000 [29] | 125,000 [37] |
| Heating Capacity BTU/Hr [kW] © | 40,000 [12] | 60,000 [18] | 60,000 [18] | 80,000 [23] | 100,000 [29] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .20 [.05] | .20 [.05] | .28 [.07] | .28 [.07] |
| Blower (D x W) [mm] | 11 x 6 [279 x 152] | 11 x 7 [279 x 178] | 11 x 7 [279 x 178] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] |
| Motor H.P. [W]Type | 1/2 [373] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) |
| Min. Circuit Ampacity | 9 | 12 | 15 | 15 | 15 |
| Min. Overload Protection Device | 15 | 15 | 25 | 25 | 25 |
| Max. Overload Protection Device | 15 | 15 | 20 | 20 | 20 |
| Motor Full Load Amps | 5.8 | 8.8 | 11.1 | 11.1 | 11.1 |
| Heating CFM [L/s] | 1025 [484] | 1025 [484] | 1435 [678] | 1710 [808] | 1722 [813] |
| MAX Cooling CFM [L/s] | 1240 [585] | 1650 [779] | 1980 [934] | 1980 [934] | 1980 [934] |
| MIN Cooling CFM [L/s] | 300 [142] | 500 [236] | 500 [236] | 500 [236] | 500 [236] |
| Fan CFM [L/s] | 600 [283] | 800 [378] | 800 [378] | 1000 [472] | 1000 [472] |
| Max. E.S.P. (In. W.C.) [kPa] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] | 0.9 [.22] |
| Temperature Rise Range °F [°C] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] |
| Approx. Shipping Weight (Lbs.) [kg] | 110 [50] | 125 [57] | 140 [64] | 140 [64] | 150 [68] |
| AFUE © | 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.

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

® See Conversion Kit Index Form for high altitude derate.

*S=Standard, N=Low NOx

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Downflow Dimensions

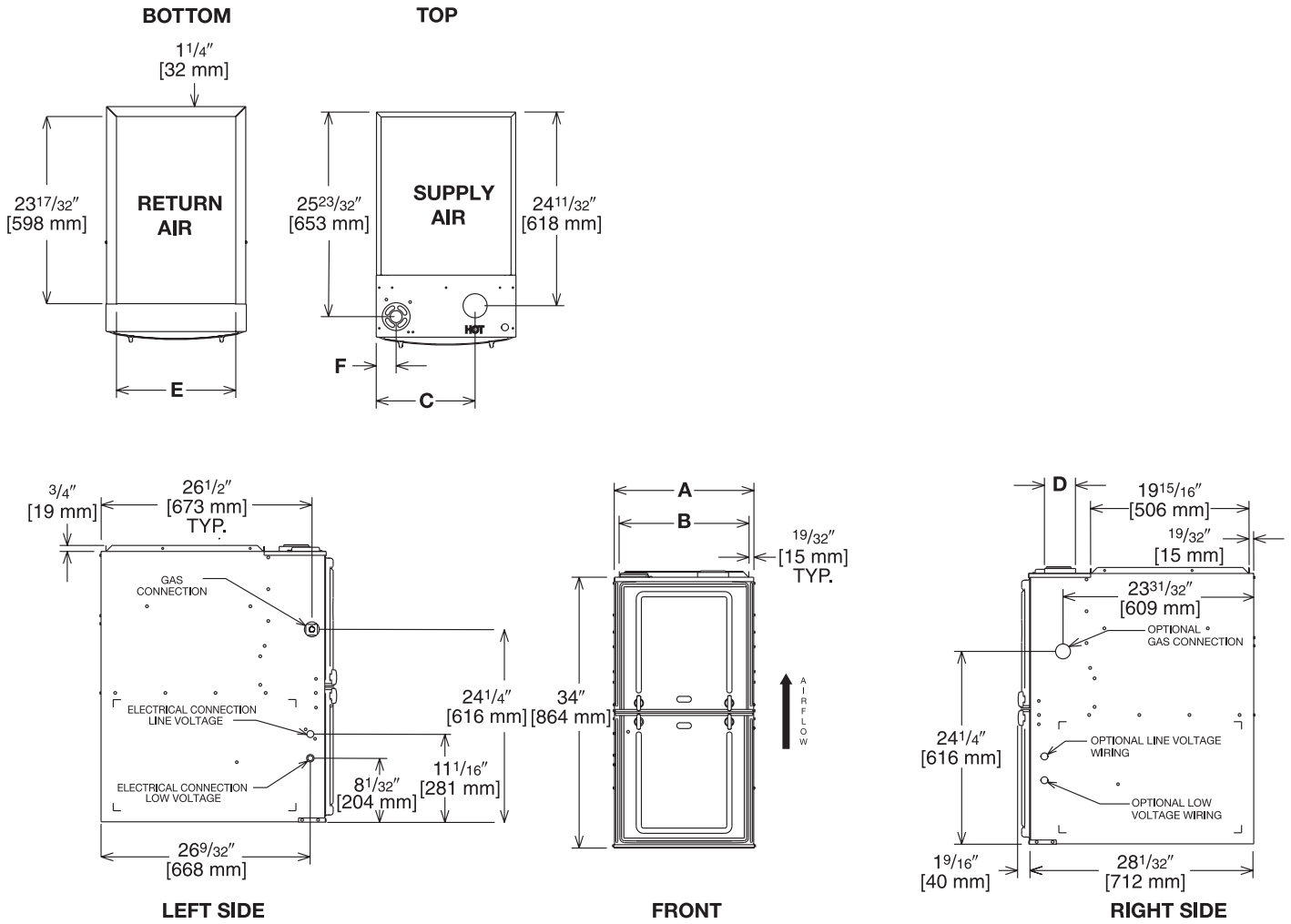


Illustration
ST-A1220-04-00
FIGURE 1

Dimensional Data—Downflow Models

| MODEL R801T (DOWNFLOW) SERIES | A | B | C | D | E | REDUCED CLEARANCES (IN.) [mm] | | | | | | |
|--|--------------|----------------|--------------|---|--------------|-------------------------------|---------------|------|--------|--------|-----------|----------------------------|
| | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | VENT | SHIP. WGTS. (LBS.) [kg] |
| 050 | 14 [356] | 12 27/32 [326] | 10 3/8 [264] | ① | 13 1/8 [333] | 0 | 4 ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 85 [38.6] |
| 075417 | 17 1/2 [445] | 16 11/32 [415] | 12 1/8 [308] | ① | 16 5/8 [422] | 0 | 3 ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 105 [47.6] |
| 075521 | 21 [533] | 19 27/32 [504] | 13 7/8 [352] | ① | 20 1/8 [511] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 100 | 21 [533] | 19 27/32 [504] | 13 7/8 [352] | ① | 20 1/8 [511] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 120 [54.4] |
| 125 | 24 1/2 [622] | 23 11/32 [593] | 15 5/8 [397] | ① | 23 5/8 [600] | 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.

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 and in accordance with local codes.

[] Designates Metric Conversions

Target Gas Heating Airflows

| | R801V0503A14DZ*CAP | R801V0754A17DZ*CAP | R801V0755A21DZ*CAP | R801V1005A21DZ*CAP | R801V1255A24DZ*CAP |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Factory Heating CFM [L/s] | 1025 [484] | 1025 [484] | 1435 [678] | 1710 [808] | 1722 [813] |
| Heating Approx. ±7°F CFM | 923 [436] | 923 [436] | 1292 [610] | 1539 [727] | 1550 [732] |
| Heating Approx. ±12°F CFM | 851 [402] | 851 [402] | 1192 [563] | 1420 [671] | 1430 [675] |

[] Designates Metric Conversions

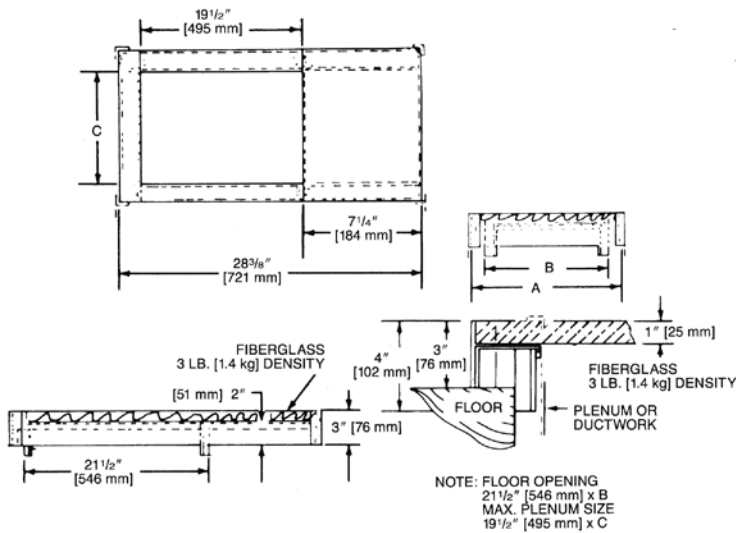
DOWNFLOW ACCESSORIES

DOWNFLOW WARNING: Unit design is certified for installation on non-combustible floor. A special factory supplied combustible floor sub-base is required when installing on a combustible floor. Failure to install the sub-base may result in fire, property damage and personal injury.

COMBUSTIBLE FLOOR BASE DIMENSIONS

| COMBUSTIBLE FLOOR BASE | USE WITH FURNACE SIZES | A IN. [mm] | B IN. [mm] | C IN. [mm] |
|------------------------|--------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| RXGC-B14 | R801T050 | 14 ¹ / ₂ [368] | 13 ¹ / ₄ [337] | 11 ¹ / ₄ [286] |
| RXGC-B17 | R801T075317 | 18 [457] | 16 ³ / ₄ [425] | 14 ³ / ₄ [451] |
| RXGC-B21 | R801T100521, R801T075521 | 21 ¹ / ₂ [546] | 20 ¹ / ₄ [514] | 18 ¹ / ₄ [464] |
| RXGC-B24 | R801T125 | 25 [635] | 23 ³ / ₄ [603] | 21 ³ / ₄ [552] |

[] Designates Metric Conversions



RXGF-CC*

FILTER RACK—Downflow top return mount. Requires (2) 14 x 20 Filters.

NOTE: Filter racks are shipped without filters.

*Filters available through PROSTOCK ®.

FOR HIGH ALTITUDES:

HIGH ALTITUDE OPTION CODE: 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.



THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

5 OPERATING MODES – Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



RETST700SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION – Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



The new degree of comfort.®

Endeavor™ Line *Classic Plus*® Series Gas Furnaces



R802V

80% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Two-Stage

Motor Type: Constant CFM

Input Rates: Upflow/Horizontal: 50-150 kBTU [14.7-44.0 kW]

Configuration Options: Upflow/Horizontal



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

Table of Contents

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| Physical Data and Specifications | 5 |
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| Blower Performance Data | 8 |
| Accessories | 9-10 |
| Limited Warranty | 12 |

Features and Benefits

- **PlusOne® Diagnostics:** With the Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth Technology:** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **Two-Stage Heating:** Furnace operation mainly stays at low capacity around 60-65%, but will switch to high capacity to deliver stable heat distribution
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App²

¹Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

²Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>80</u> | <u>2</u> | <u>V</u> | <u>050</u> | <u>3</u> | <u>A</u> | <u>14</u> | <u>UH</u> | <u>S</u> | <u>C</u> | <u>A</u> | <u>P</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 | 80 - 80% AFUE | 2 - Two-Stage | V - ECM Variable Speed | 050 - 50,000 [14.7 kW] 075 - 75,000 [22.0 kW] 100 - 100,000 [29.3 kW] 125 - 125,000 [36.6 kW] 150 - 150,000 [44.0 kW] | 3 - 3 ton drive 4 - 4 ton drive 5 - 5 ton drive | A - 1st Design Series | 14 - 14" Width 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | UH - Upflow Horizontal | S - Standard N - Low NOx | C - Communicating, EcoNet® | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R802V0503A14UHSCAP |
| R802V0754A17UHSCAP |
| R802V0755A21UHSCAP |
| R802V1004A17UHSCAP |
| R802V1005A21UHSCAP |
| R802V1255A24UHSCAP |
| R802V1505A24UHSCAP |
| R802V0503A14UHNCAP |
| R802V0754A17UHNCAP |
| R802V0755A21UHNCAP |
| R802V1004A17UHNCAP |
| R802V1005A21UHNCAP |
| R802V1255A24UHNCAP |
| R802V1505A24UHNCAP |

| STANDARD EQUIPMENT |
|--|
| Solid statetime on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Adjustable cool fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Humidifier connections |
| Adjustable humidifier on/off delay |
| Low speed continuous fan option |
| Single speed option for heating and cooling applications |
| Two speed heating |
| Two speed cooling |
| Direct drive motor |
| PWM Controlled Constant CFM electrically commutated blower motor |
| Solid bottom |

NOTE: A thermostat is not included as standard equipment

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

Physical Data and Specifications—Upflow Models U.S. and Canadian Models

| MODEL NUMBERS R802V 2 stg VS UP/HZ SERIES | R802V0503 A14UH*CAP | R802V0754 A17UH*CAP | R802V0755 A21UH*CAP | R802V1004 A17UH*CAP | R802V1005 A21UH*CAP | R802V1255 A24UH*CAP | R802V1505 A24UH*CAP |
|--|-------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| Input-BTU/Hr [kW] | 50,000 [15] | 75,000 [22] | 75,000 [22] | 100,000 [29] | 100,000 [29] | 125,000 [37] | 150,000 [44] |
| Heating Capacity BTU/Hr [kW] ® | 40,000 [12] | 60,000 [18] | 60,000 [18] | 80,000 [23] | 80,000 [23] | 100,000 [29] | 120,000 [35] |
| Low Input BTU/Hr | 35,000 [10] | 52,000 [15] | 52,000 [15] | 70,000 [21] | 70,000 [21] | 87,500 [26] | 105,000 [31] |
| Low Heating Capacity BTU/Hr | 28,000 [8] | 42,000 [12] | 42,000 [12] | 56,000 [16] | 56,000 [16] | 70,000 [21] | 84,000 [25] |
| Heat Ext. Static Pressure [kPa] | .18 [.05] | .20 [.05] | .20 [.05] | .28 [.07] | .28 [.07] | .28 [.07] | .28 [.07] |
| Blower (D x W) [mm] | 11 x 6 [279 x 152] | 11 x 7 [279 x 178] | 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] |
| Motor H.P. [W] Type | 1/2 [373] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 3/4 [560] VS-CT(ECM) | 1 [746] VS-CT(ECM) |
| Min. Circuit Ampacity | 9 | 13 | 13 | 16 | 13 | 13 | 16 |
| Min. Overload Protection Device | 15 | 15 | 15 | 20 | 15 | 15 | 20 |
| Max. Overload Protection Device | 15 | 20 | 20 | 25 | 20 | 20 | 25 |
| Motor Full Load Amps | 5.8 | 5.8 | 11.1 | 8.8 | 8.8 | 8.8 | 11.1 |
| High Heating CFM [L/s] | 960 [453] | 1450 [684] | 1425 [673] | 1375 [649] | 1380 [651] | 1900 [897] | 1680 [793] |
| Low Heating CFM [L/s] | 750 [354] | 1150 [543] | 1225 [578] | 1150 [543] | 1200 [566] | 1480 [698] | 1300 [614] |
| MAX Cooling CFM [L/s] | 1240 [585] | 1650 [779] | 1980 [934] | 1650 [779] | 1980 [934] | 1980 [934] | 1980 [934] |
| MIN Cooling CFM [L/s] | 300 [142] | 500 [236] | 500 [236] | 500 [236] | 500 [236] | 500 [236] | 500 [236] |
| Fan CFM [L/s] | 600 [283] | 800 [378] | 1000 [472] | 800 [378] | 1000 [472] | 1000 [472] | 1000 [472] |
| Max. E.S.P. (In. W.C.) [kPa] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] |
| Temperature Rise Range °F – High Input | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 25-55 [13.9-30.6] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 35-65 [19.4-36.1] | 45-75 [25-41.7] |
| Temperature Rise Range °F – Low 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] | 25-55 [13.9-30.6] | 30-60 [16.7-33.3] | 35-65 [19.4-36.1] |
| Approx. Shipping Weight (Lbs.) [kg] | 110 [50] | 115 [52] | 135 [61] | 120 [55] | 140 [64] | 150 [68] | 162 [74] |
| AFUE © | 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" [12 mm] N.P.T.

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

® See Conversion Kit Index Form for high altitude derate.

*S=Standard, N=Low NOx

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Upflow Application

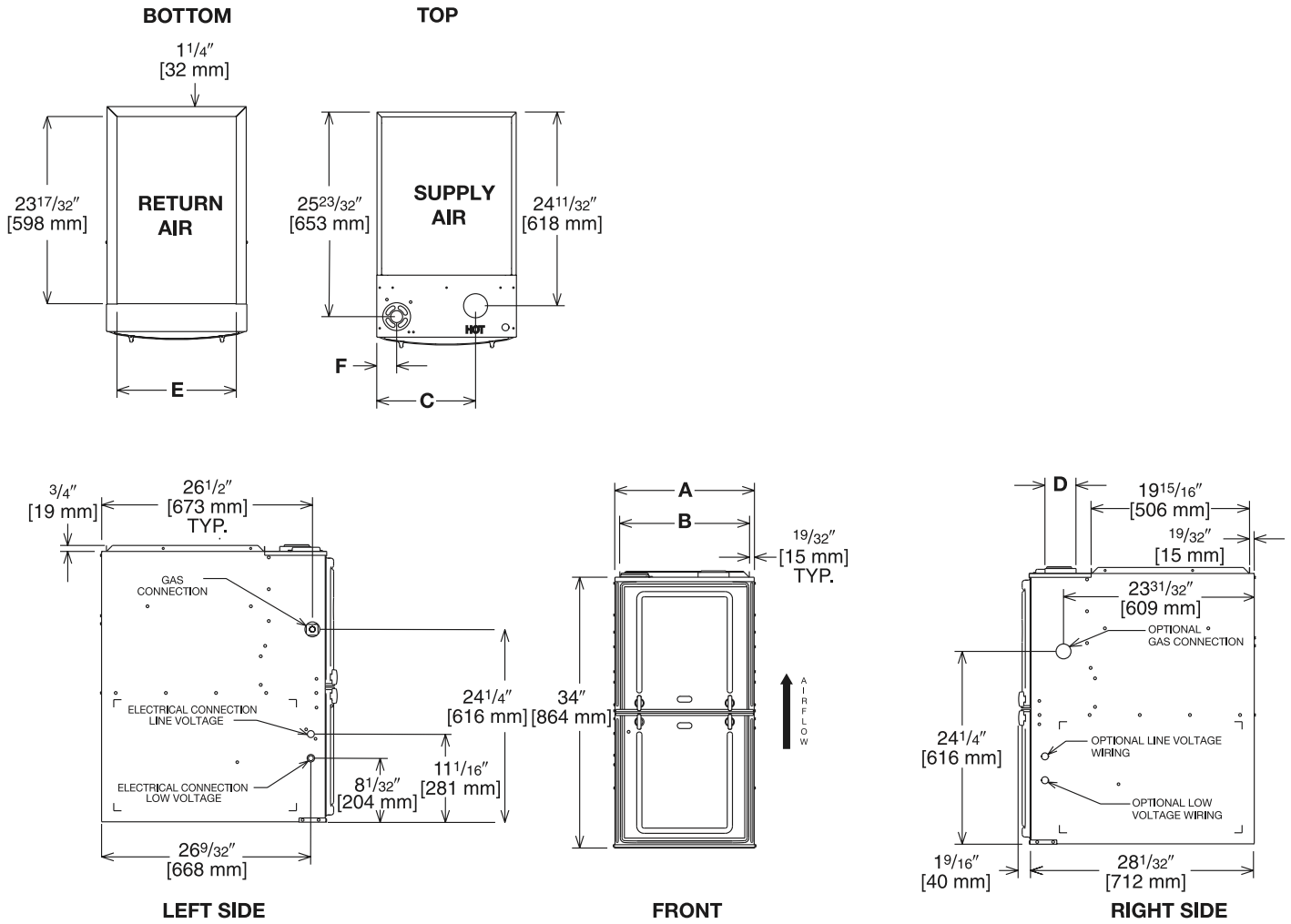


Illustration
ST-A1220-04-00
FIGURE 1

Dimensional Data: Upflow Model

| MODEL R802V- | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. (LBS.) [kg] | |
|-----------------|--------------|----------------|--------------|---|--------------|------------|------------------------------|---------------|------|--------|--------|------------------------------|----------|
| | | | | | | | LEFT SIDE | RIGHT SIDE | BACK | TOP | FRONT | | VENT |
| 050 | 14 [356] | 12 27/32 [326] | 10 5/8 [270] | ① | 11 1/2 [292] | 1 7/8 [48] | 0 | 4 [102] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 110 [50] |
| 075/ 100417 | 17 1/2 [445] | 16 11/32 [415] | 12 3/8 [314] | ① | 15 [381] | 2 1/2 [64] | 0 | 3 [76] ② | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 125 [57] |
| 100521 | 21 [533] | 19 27/32 [504] | 14 1/8 [359] | ① | 18 1/2 [470] | 2 1/2 [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 140 [64] |
| 125 | 24 1/2 [622] | 23 11/32 [592] | 15 7/8 [397] | ① | 22 [559] | 2 1/2 [64] | 0 | 0 | 0 | 1 [25] | 3 [76] | 6 [152] ③ | 150 [68] |
| 150 | 24 1/2 [622] | 23 11/32 [592] | 15 7/8 [397] | ① | 22 [559] | 2 1/2 [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.

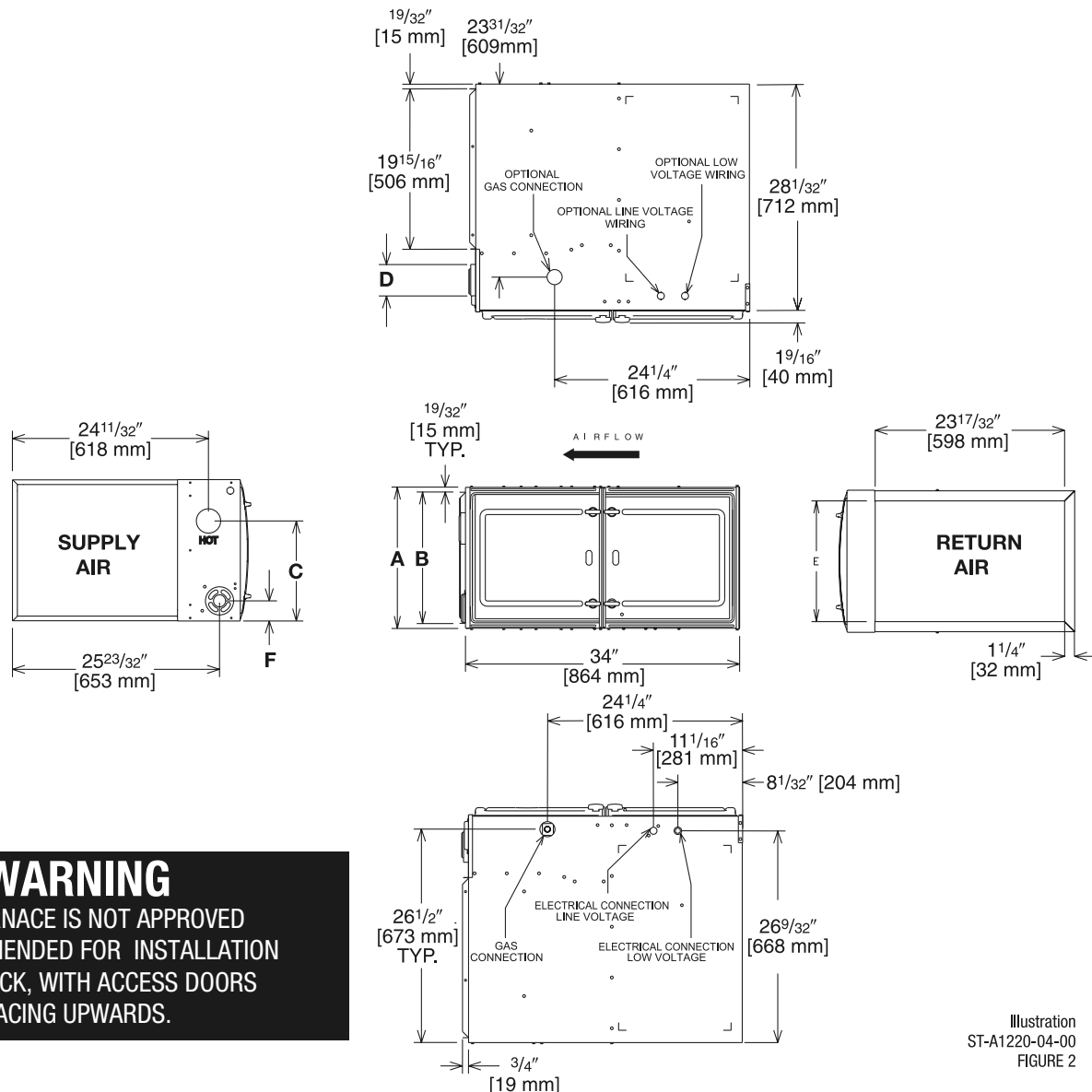
② May be 0" [0 mm] with type B vent.

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 and in accordance with local codes.

[] Designates Metric Conversions

Horizontal Application



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

Illustration
ST-A1220-04-00
FIGURE 2

Dimensional Data: Horizontal Model

| MODEL R802V | A | B | C | D | E | F | MINIMUM CLEARANCE (IN.) | | | | | | SHIP WGTS. (LBS.) |
|----------------|--------------------------------|----------------------------------|--------------------------------|---|--------------------------------|--------------------------------|-------------------------|--------------------|------|-----|-------|------|-------------------------|
| | | | | | | | SUPPLY AIR SIDE | RETURN AIR SIDE | BACK | TOP | FRONT | VENT | |
| 050 | 14 | 12 ²⁷ / ₃₂ | 10 ⁵ / ₈ | ① | 11 ¹ / ₂ | 17 ⁷ / ₈ | 4 ② | 0 | 0 | 1 | 3 | 6 ③ | 110 |
| 075/ 100417 | 17 ¹ / ₂ | 16 ¹¹ / ₃₂ | 12 ³ / ₈ | ① | 15 | 2 ¹ / ₂ | 3 ② | 0 | 0 | 1 | 3 | 6 ③ | 125 |
| 100521 | 21 | 19 ²⁷ / ₃₂ | 14 ¹ / ₈ | ① | 18 ¹ / ₂ | 2 ¹ / ₂ | 0 | 0 | 0 | 1 | 3 | 6 ③ | 140 |
| 125 | 24 ¹ / ₂ | 23 ¹¹ / ₃₂ | 15 ⁷ / ₈ | ① | 22 | 2 ¹ / ₂ | 0 | 0 | 0 | 1 | 3 | 6 ③ | 150 |
| 150 | 24 ¹ / ₂ | 23 ¹¹ / ₃₂ | 15 ⁷ / ₈ | ① | 22 | 2 ¹ / ₂ | 0 | 0 | 0 | 1 | 3 | 6 ③ | 160 |

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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data

| GAS HEATING TARGET CFM [L/s] | | | | | | | |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | R802V0503 A14UH*CAP | R802V0754 A17UH*CAP | R802V0755 A21UH*CAP | R802V1004 A17UH*CAP | R802V1005 A21UH*CAP | R802V1255 A24UH*CAP | R802V1505 A24UH*CAP |
| Factory Low Heating CFM [L/s] | 750 [354] | 1150 [543] | 1225 [578] | 1150 [543] | 1200 [566] | 1480 [698] | 1300 [614] |
| Low Heat Side Return CFM [L/s] | 750 [354] | 1150 [543] | 1225 [578] | 1150 [543] | 1200 [566] | 1480 [698] | 1300 [614] |
| Low Heat Approx. $\pm 7^{\circ}\text{F}$ CFM [L/s] | 660 [311] | 1012 [478] | 1078 [509] | 1012 [478] | 1056 [498] | 1302.4 [615] | 1144 [540] |
| Low Heat Approx. $\pm 12^{\circ}\text{F}$ CFM [L/s] | 607 [287] | 931 [440] | 992.25 [468] | 931.5 [440] | 972 [459] | 1198.8 [566] | 1053 [497] |
| Factory High Heating CFM [L/s] | 960 [453] | 1450 [684] | 1425 [673] | 1375 [649] | 1380 [651] | 1900 [897] | 1680 [793] |
| High Heat Side Return CFM [L/s] | 960 [453] | 1450 [684] | 1425 [673] | 1375 [649] | 1380 [651] | 1900 [897] | 1680 [793] |
| High Heat Approx. $\pm 7^{\circ}\text{F}$ CFM [L/s] | 864 [408] | 1305 [616] | 1282.5 [605] | 1237.5 [584] | 1242 [586] | 1710 [807] | 1512 [714] |
| High Heat Approx. $\pm 12^{\circ}\text{F}$ CFM [L/s] | 796 [376] | 1203 [568] | 1182.75 [558] | 1141.25 [539] | 1145.4 [541] | 1577 [744] | 1394.4 [658] |

[] Designates Metric Conversions

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 |
| R802V050 | 12 ¹ / ₄ x 25 | 15 ³ / ₄ x 25 |
| R802V075/ R802V0755A21 | 15 ³ / ₄ x 25 | 15 ³ / ₄ x 25 |
| R802V1004A1 | 19 ¹ / ₄ x 25 | 15 ³ / ₄ x 25 |
| R802V125 | 22 ³ / ₄ x 25 | 15 ³ / ₄ x 25 |
| R802V150 | 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 | 11 ⁵ / ₈ x 23 ⁹ / ₁₆ |
| 17 ¹ / 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 |
| 24 ¹ / ₂ | RXGB-D24 | AE-61874-04 | 25 ⁵ / ₈ x 23 ⁹ / ₁₆ |

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.



THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

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7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



RETST700SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

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HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

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ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



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.

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| 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] 060 - 60,000 [17.6 kW] 070 - 70,000 [21.5 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW] | 3 - 3 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 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 0403A17M4SNAS | R921T 0603A17M4SNAS | R921T 0703A17M4SNAS | R921T 0705A21M4SNAS | R921T 0855A21M4SNAS | R921T 1005A21M4SNAS | R921T 1155A24M4SNAS |
|--|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| HIGH FIRE INPUT 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 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 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 [279 x 178] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| MOTOR H.P. [W]-TYPE | 1/2 [373] 5 Spd Constant Torque | 1/2 [373] 5 Spd Constant Torque | 1/2 [373] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque |
| MIN. CIRCUIT AMPACITY | 8 | 9 | 10 | 12 | 16 | 15 | 14 |
| MIN. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 15 | 20 | 20 | 20 |
| MAX. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 20 | 25 | 20 | 20 |
| MINIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa] | .18 [.045] | .20 [.050] | .23 [.057] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| MAXIMUM EXT. STATIC 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- HIGH FIRE RANGE IN DEGREES °F [°C] | 25 - 55 [14 - 31] | 35 - 65 [19 - 36] | 40 - 70 [22 - 39] | 30 - 60 [17 - 33] | 35 - 65 [19 - 36] | 40 - 70 [19 - 36] | 45 - 75 [25 - 42] |
| APPROX. SHIPPING WEIGHT (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.

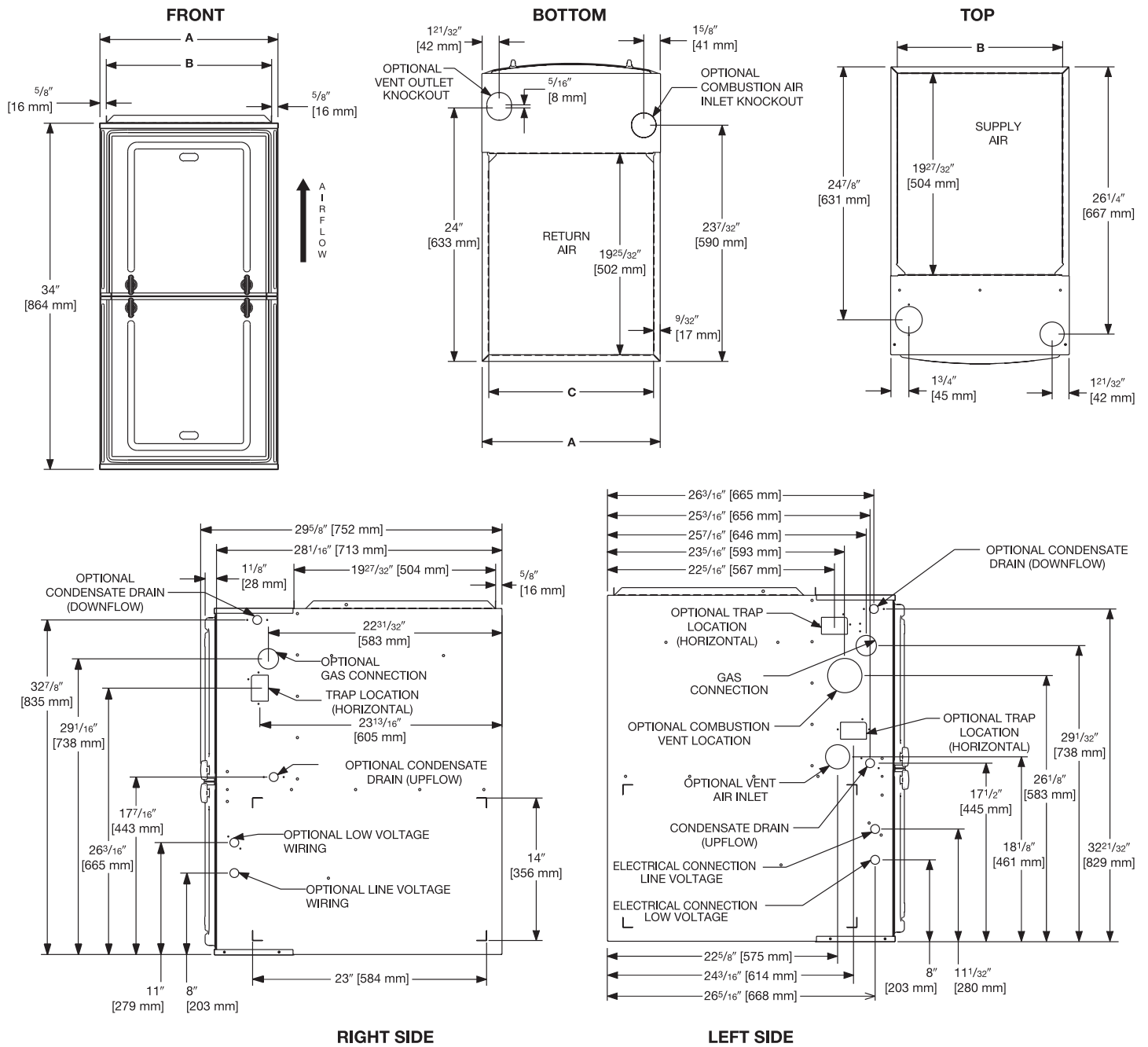
③ In accordance with D.O.E. test procedures.

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.

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 R921T | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. | FLANGE DIMENSIONS | | |
|----------------|--------------|------------------------------|------|--------|--------|------|---------------|-------------------|----------------|----------------|
| | | RIGHT 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] CABINET WIDTH [IN] | AIRFLOW CONTROL SETTINGS | SPEED TAP/ WIRE COLORS | CFM AIR DELIVERY 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 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 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 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 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 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 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 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

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

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

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17A1 |
| RXBC-D21A1 |
| RXBC-D21B1 |
| RXBC-D24A1 |



The new degree of comfort.®

Endeavor™ Line *Classic Series* Gas Furnaces



This product meets a stringent set of our internally defined sustainability standards



R921V

92% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Single Stage

Motor Type: Constant CFM

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.

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| Blower Performance Data | 7 |
| Accessories | 8-9 |
| Limited Warranty | 12 |

Features and Benefits

- **PlusOne® Energy Efficiency:** US South ENERGY STAR® certified, featuring 92% AFUE across all model sizes
- **PlusOne® Diagnostics:** With the Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth Technology:** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **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 also alerts the contractor via diagnostic code
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App²

¹ Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

² Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>92</u> | <u>1</u> | <u>V</u> | <u>040</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>M4</u> | <u>S</u> | <u>C</u> | <u>A</u> | <u>P</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 | V - ECM Variable Speed | 040 - 40K BTUH [11.7 kW] 060 - 60K BTUH [17.6 kW] 070 - 70K BTUH [20.5 kW] 085 - 85K BTUH [24.9 kW] 100 - 100K BTUH [29.3 kW] 115 - 115K BTUH [33.7 kW] | 3 - 3 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | M4 - Multi- 4 Way | S - Standard | C - Communicating, EcoNet®, Bluetooth | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R921V0403A17M4SCAP |
| R921V0603A17M4SCAP |
| R921V0703A17M4SCAP |
| R921V0705A21M4SCAP |
| R921V0855A21M4SCAP |
| R921V1005A21M4SCAP |
| R921V1155A24M4SCAP |

| STANDARD EQUIPMENT |
|---|
| Completely assembled and wired |
| Bluetooth setup |
| Bluetooth diagnostics |
| Bluetooth setup and diagnostics |
| Marked condensate hoses |
| Aluminized steel primary heat exchanger design |
| 29-4C stainless steel secondary heat exchanger design |
| Induced draft motor |
| Pressure switch |
| Redundant main gas control |
| Blower compartment door safety switch |
| Solid statetime on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Adjustable cool fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Low speed continuous fan option |
| Single speed heating |
| Two speed cooling |
| Direct drive motor |
| PWM Controlled constant torque electrically commutated blower motor |
| Multi-speed constant torque electrically commutated blower motor |
| Solid bottom |

NOTE: A thermostat is not included as standard equipment.

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

Physical Data and Specifications—U.S. Models

| MODEL NUMBERS | R921V0403A 17M4SCAP | R921V0603A 17M4SCAP | R921V0703A 17M4SCAP | R921V0705A 21M4SCAP | R921V0855A 21M4SCAP | R921V1005A 21M4SCAP | R921V1155A 24M4SCAP |
|--|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
| HIGH FIRE INPUT 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 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 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 [279 x 178] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| MOTOR H.P. [W]—TYPE | 1/2 [373] VS-CT(ECM) | 1/2 [373] VS-CT(ECM) | 1/2 [373] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) |
| MIN. CIRCUIT AMPACITY | 10 | 10 | 10 | 17 | 17 | 17 | 17 |
| MIN. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 25 | 25 | 25 | 25 |
| MAX. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 20 | 20 | 20 | 20 |
| MOTOR FULL LOAD AMPS | 5.8 | 5.8 | 5.8 | 11.1 | 11.1 | 11.1 | 11.1 |
| MINIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa] | .18 [.045] | .20 [.050] | .23 [.057] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| MAXIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] |
| HEATING CFM [L/s] | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| MAX COOLING CFM [L/s] | 1240 [585] | 1240 [585] | 1240 [585] | 1980 [934] | 1980 [934] | 1980 [934] | 1980 [934] |
| MIN COOLING CFM [L/s] | 300 [142] | 300 [142] | 300 [142] | 500 [236] | 500 [236] | 500 [236] | 500 [236] |
| FAN CFM [L/s] | 600 [283] | 600 [283] | 600 [283] | 1000 [472] | 1000 [472] | 1000 [472] | 1000 [472] |
| TEMPERATURE RISE-HIGH FIRE RANGE IN DEGREES °F [°C] | 20 - 50 [11 - 28] | 30 - 60 [17 - 33] | 40 - 70 [22 - 39] | 30 - 60 [17 - 33] | 30 - 60 [17 - 33] | 40 - 70 [22 - 39] | 45 - 75 [25 - 42] |
| APPROX. SHIPPING WEIGHT (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.

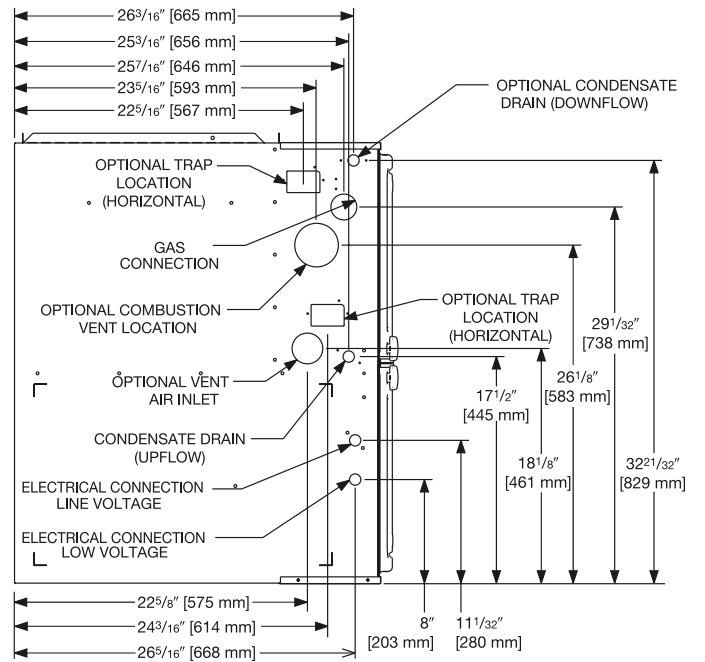
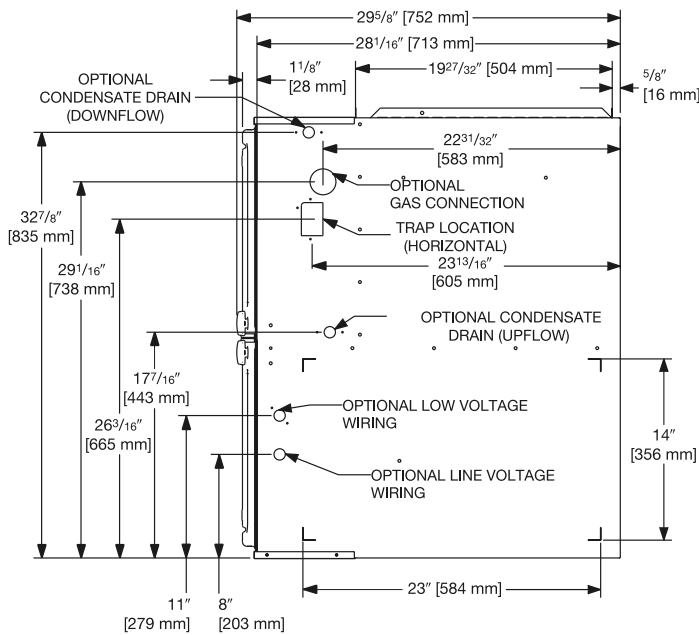
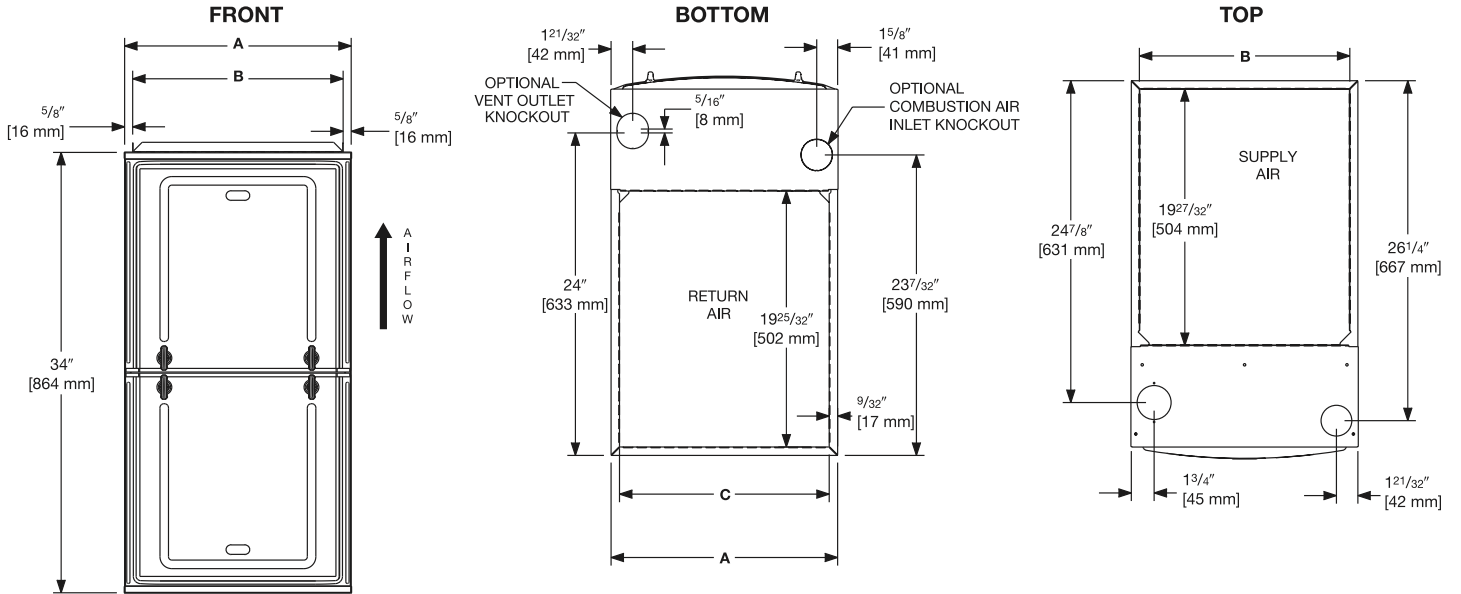
- ① Installation instructions for high altitude derate.
- ② Canadian installations only.
- ③ In accordance with D.O.E. test procedures.

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.

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

Multi-Position Application



RIGHT SIDE

LEFT SIDE

Unit Dimensions (Clearance To Combustibles)

| MODEL R921V | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTs. | FLANGE DIMENSIONS | | |
|-------------|-----------|------------------------------|------|--------|--------|------|------------|-------------------|----------------|----------------|
| | | RIGHT 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

| GAS HEATING TARGET CFM [L/s] | | | | | | | |
|---------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | R921V0403 A17M4SCAP | R921V0603 A17M4SCAP | R921V0703 A17M4SCAP | R921V0705 A21M4SCAP | R921V0855 A21M4SCAP | R921V1005 A21M4SCAP | R921V1155 A24M4SCAP |
| Furnace Hi Heat CFM A (factory) | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Furnace Hi Heat CFM B (side return) | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Furnace Hi Heat CFM C (Approx. +7°F) | 891 [421] | 990 [468] | 900 [425] | 1170 [553] | 1417 [669] | 1409 [665] | 1418 [670] |
| Furnace Hi Heat CFM D (Approx. +12°F) | 822 [388] | 913 [431] | 830 [392] | 1079 [510] | 1307 [617] | 1299 [614] | 1308 [618] |

[] Designates Metric Conversions

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

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

| FILTER RACK FILTER SIZES* INCHES [mm] | | | |
|---------------------------------------|--|--|------------------------|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) | RXGF-CC (DOWNFLOW) |
| R921V(-)040 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R921V(-)060 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R921V(-)070 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R921V(-)070 (wide) | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R921V(-)085 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R921V(-)100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R921V(-)115 | 22 ³ / ₄ x 25 [578 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17A1 |
| RXBC-D21A1 |
| RXBC-D21B1 |
| RXBC-D24A1 |



The new degree of comfort.®

Endeavor™ Line *Classic*® Series Gas Furnaces



R951T

95% A.F.U.E.†

Heating Stages: Single Stage

Motor Type: Constant Torque

Input Rates: 40 to 115 kBTU [11.72 to 33.71 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

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| Accessories | 8 |
| 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 Spart 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>95</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 | 95 - 95% AFUE | 1 - Single-Stage | T - Constant Torque | 040 - 40,000 [11.7 kW] 060 - 60,000 [17.6 kW] 070 - 70,000 [20.5 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW] 115 - 115,000 [33.7 kW] | 3 - 3 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | M4 - Multi-4 Way | S - Standard | N - Non-Communicating | A - 1st Series | S - Second Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R951T0403A17M4SNAS |
| R951T0603A17M4SNAS |
| R951T0703A17M4SNAS |
| R951T0705A21M4SNAS |
| R951T0855A21M4SNAS |
| R951T1005A21M4SNAS |
| R951T1155A24M4SNAS |

| STANDARD EQUIPMENT |
|--|
| Redundant main gas control |
| Blower compartment door safety switch |
| Solid state time on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Cool fan off delay |
| Field selectable heat fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Humidifier connections |
| Low speed continuous fan option |
| Single speed option for heating and cooling applications |
| Transformer |
| Direct drive motor |
| Multi-speed constant torque electrically commutated blower motor |
| Solid bottom |

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

Physical Data and Specifications U.S. and Canadian Models

| MODEL NUMBERS | R951T 0403A17M4SCAP | R951T 0603A17M4SCAP | R951T 0703A17M4SCAP | R951T 0705A21M4SCAP | R951T 0855A21M4SCAP | R951T 1005A21M4SCAP | R951T 1155A24M4SCAP |
|--|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| HIGH FIRE INPUT 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 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 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 [279 x 178] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| MOTOR H.P. [W]—TYPE | 1/2 [373] 5 Spd Constant Torque | 1/2 [373] 5 Spd Constant Torque | 1/2 [373] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque | 1 [746] 5 Spd Constant Torque |
| MIN. CIRCUIT AMPACITY | 8 | 9 | 10 | 12 | 16 | 15 | 14 |
| MIN. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 15 | 20 | 20 | 20 |
| MAX. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 20 | 25 | 20 | 20 |
| MINIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa] | .18 [.045] | .20 [.050] | .23 [.057] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| MAXIMUM EXT. STATIC 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- HIGH FIRE RANGE IN DEGREES °F [°C] | 25 - 55 [14 - 31] | 35 - 65 [19 - 36] | 40 - 70 [22 - 39] | 30 - 60 [17 - 33] | 35 - 65 [19 - 36] | 40 - 70 [19 - 36] | 45 - 75 [25 - 42] |
| APPROX. SHIPPING WEIGHT (LBS.) [kg] | 123.5 [56] | 128 [58] | 132 [60] | 139 [63] | 147.5 [67] | 152 [69] | 165 [75] |
| AFUE ③ | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |

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.

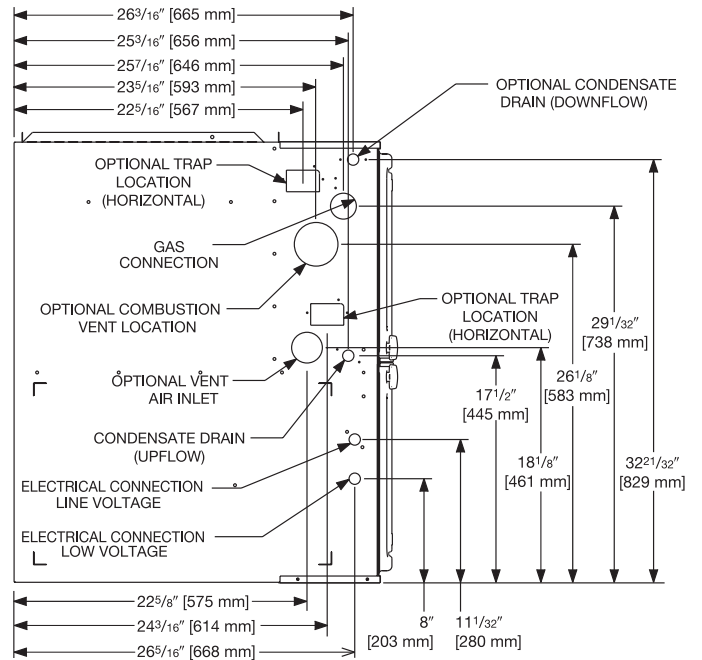
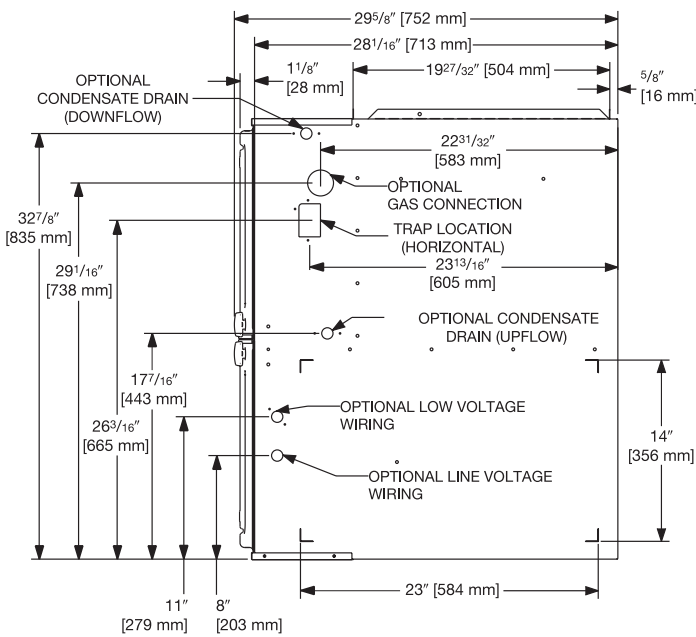
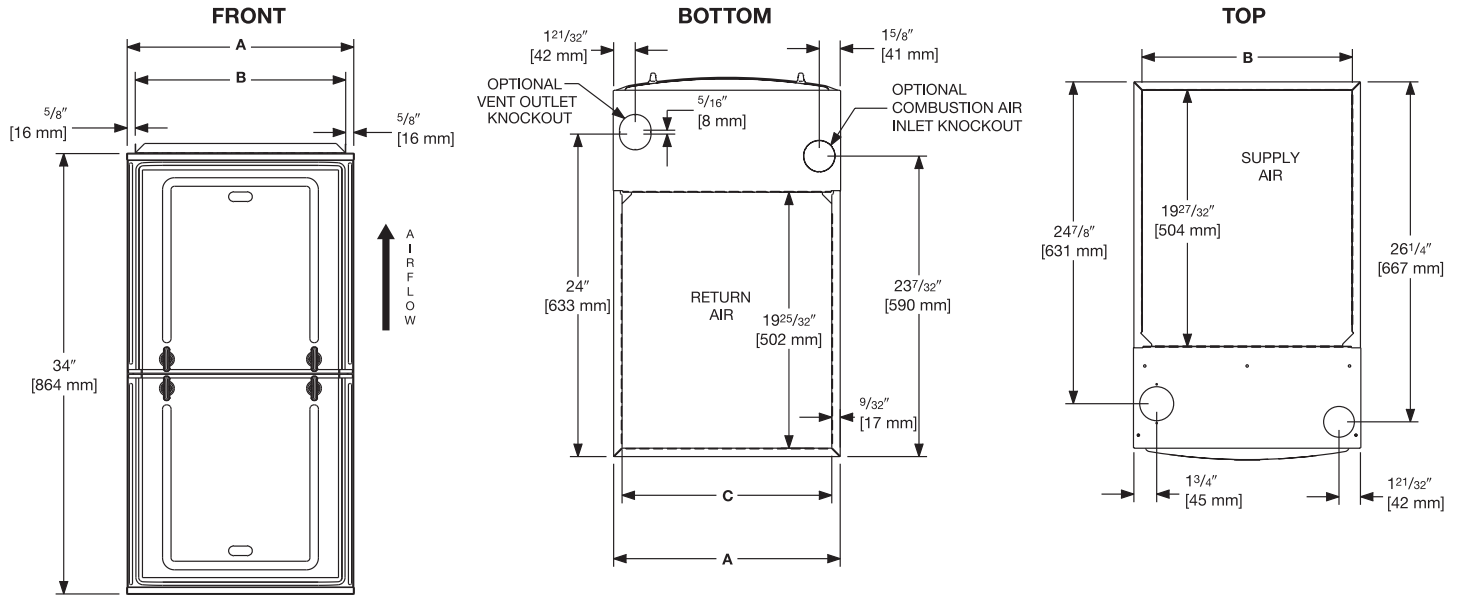
NOTE: Standard model complies with California low NOx requirements up to 40ng/J.

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.

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

Upflow Application



RIGHT SIDE

LEFT SIDE

Dimensional Data: Upflow Model

| MODEL R951T | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. | FLANGE DIMENSIONS | | |
|-------------|-----------|------------------------------|------|--------|--------|------|------------|-------------------|----------------|----------------|
| | | RIGHT 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 - 95% SINGLE STAGE CONSTANT TORQUE | | | | | | | | | | | | |
|---|--------------------------------|------------------------------|------------------|------|-------|------|------|------|------|------|------|------|
| INPUT [BTU] CABINET WIDTH [IN] | AIRFLOW CONTROL SETTINGS | SPEED TAP/ WIRE COLORS | CFM AIR DELIVERY | | | | | | | | | |
| | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |
| 40K 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 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 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 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 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 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 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

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

| FILTER RACK FILTER SIZES* INCHES [mm] | | | |
|---------------------------------------|--|--|------------------------|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) | RXGF-CC (DOWNFLOW) |
| R91T(-)040 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R91T(-)060 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R91T(-)070 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R91T(-)070 (wide) | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R91T(-)085 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R91T(-)100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R91T(-)115 | 22 ³ / ₄ x 25 [578 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17A1 |
| RXBC-D21A1 |
| RXBC-D21B1 |
| RXBC-D24A1 |



The new degree of comfort.®

Endeavor™ Line Classic® Series Gas Furnaces



This product meets a stringent set of our internally defined sustainability standards



R951V

95% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Single Stage

Motor Type: Constant CFM

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.

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| 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:** With the Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth Technology:** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **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 also alerts the contractor via diagnostic code
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and Econet® App²

¹ Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

² Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>95</u> | <u>1</u> | <u>V</u> | <u>040</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>M4</u> | <u>S</u> | <u>C</u> | <u>A</u> | <u>P</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 | 95 - 95% AFUE | 1 - Single Stage | V - ECM Variable Speed | 040 - 40K BTUH [11.7 kW] 060 - 76K BTUH [22.3 kW] 070 - 70K BTUH [20.5 kW] 085 - 85K BTUH [24.9 kW] 100 - 100K BTUH [29.3 kW] 115 - 115K BTUH [33.7 kW] | 3 - 3 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | M4 - Multi-4 Way | S - Standard | C - Communicating, EcoNet®, Bluetooth | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R951V0403A17M4SCAP |
| R951V0603A17M4SCAP |
| R951V0703A17M4SCAP |
| R951V0705A21M4SCAP |
| R951V0855A21M4SCAP |
| R951V1005A21M4SCAP |
| R951V1155A24M4SCAP |

| STANDARD EQUIPMENT |
|--|
| Completely assembled and wired |
| Bluetooth setup |
| Bluetooth diagnostics |
| Bluetooth setup and diagnostics |
| Marked condensate hoses |
| Aluminized steel primary heat exchanger design |
| 29-4C stainless steel secondary heat exchanger design |
| Induced draft motor |
| Pressure switch |
| Redundant main gas control |
| Blower compartment door safety switch |
| Solid statetime on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Adjustable cool fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Low speed continuous fan option |
| Single speed heating |
| Two speed cooling |
| Direct drive motor |
| PWM controlled constant CFM electrically commutated blower motor |
| Multi-speed constant CFM motor |
| Solid bottom |

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

Physical Data and Specifications U.S. and Canadian Models

| MODEL NUMBERS | R951V0403 A17M4SCAP | R951V0603 A17M4SCAP | R951V0703 A17M4SCAP | R951V0705 A21M4SCAP | R951V0855 A21M4SCAP | R951V1005 A21M4SCAP | R951V1155 A24M4SCAP |
|--|--------------------------|--------------------------|--------------------------|------------------------|------------------------|------------------------|------------------------|
| High Fire Input 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 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 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 [279 x 178] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| Motor H.P. [W]—Type | 1/2 [373] VS-CT (ECM) | 1/2 [373] VS-CT (ECM) | 1/2 [373] VS-CT (ECM) | 1 [746] VS-CT (ECM) | 1 [746] VS-CT (ECM) | 1 [746] VS-CT (ECM) | 1 [746] VS-CT (ECM) |
| Min. Circuit Ampacity | 10 | 10 | 10 | 17 | 17 | 17 | 17 |
| Min. Overload Protection Device | 15 | 15 | 15 | 25 | 25 | 25 | 25 |
| Max. Overload Protection Device | 15 | 15 | 15 | 20 | 20 | 20 | 20 |
| Motor Full Load Amps | 5.8 | 5.8 | 5.8 | 11.1 | 11.1 | 11.1 | 11.1 |
| Minimum Ext. Static Pressure (In. W.C.) [kPa] | .18 [.045] | .20 [.050] | .23 [.057] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| Maximum Ext. Static Pressure (In. W.C.) [kPa] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] | 1.0 [0.25] |
| Heating CFM [L/s] | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Max. Cooling CFM [L/s] | 1240 [585] | 1240 [585] | 1240 [585] | 1980 [934] | 1980 [934] | 1980 [934] | 1980 [934] |
| Min. Cooling CFM [L/s] | 300 [142] | 300 [142] | 300 [142] | 500 [236] | 500 [236] | 500 [236] | 500 [236] |
| Fan CFM [L/s] | 600 [283] | 600 [283] | 600 [283] | 1000 [472] | 1000 [472] | 1000 [472] | 1000 [472] |
| Temperature Rise-High Fire Range In Degrees °F [°C] | 20 - 50 [11 - 28] | 30 - 60 [17 - 33] | 40 - 70 [22 - 39] | 30 - 60 [17 - 33] | 30 - 60 [17 - 33] | 40 - 70 [22 - 39] | 45 - 75 [25 - 42] |
| Approx. Shipping Weight (Lbs.) [kg] | 123.5 [56] | 128 [58] | 132 [60] | 139 [63] | 147.5 [67] | 152 [69] | 165 [75] |
| AFUE ③ | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% | 95.00% |

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.

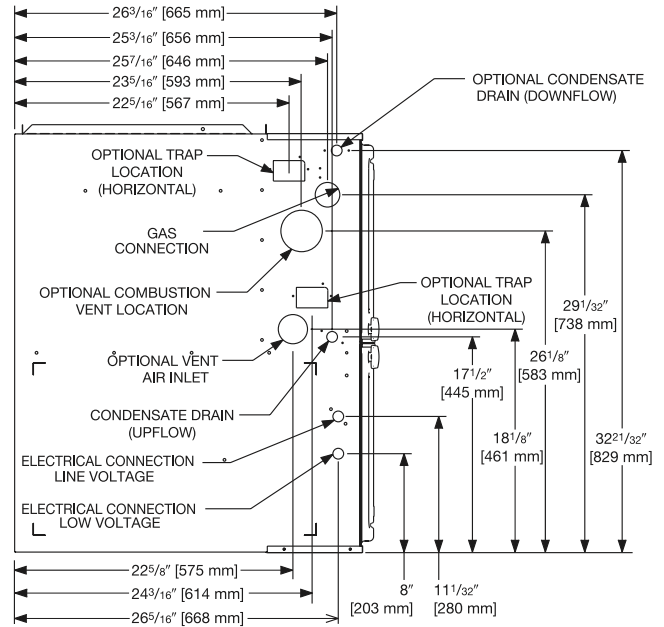
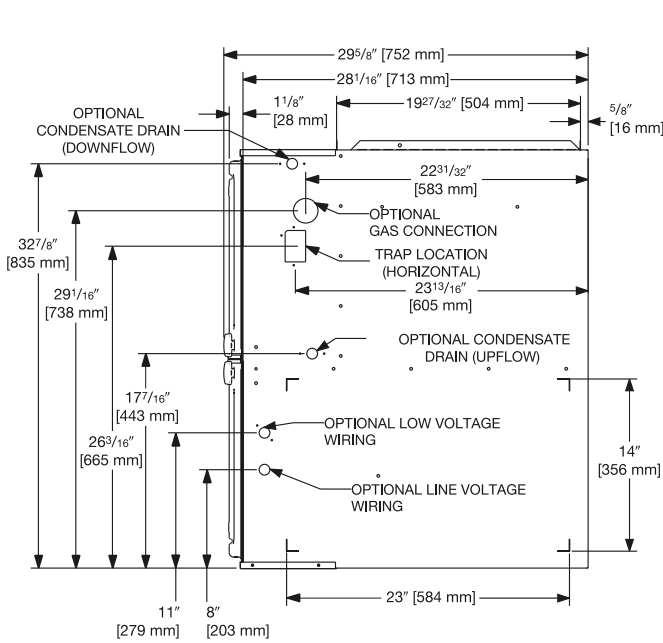
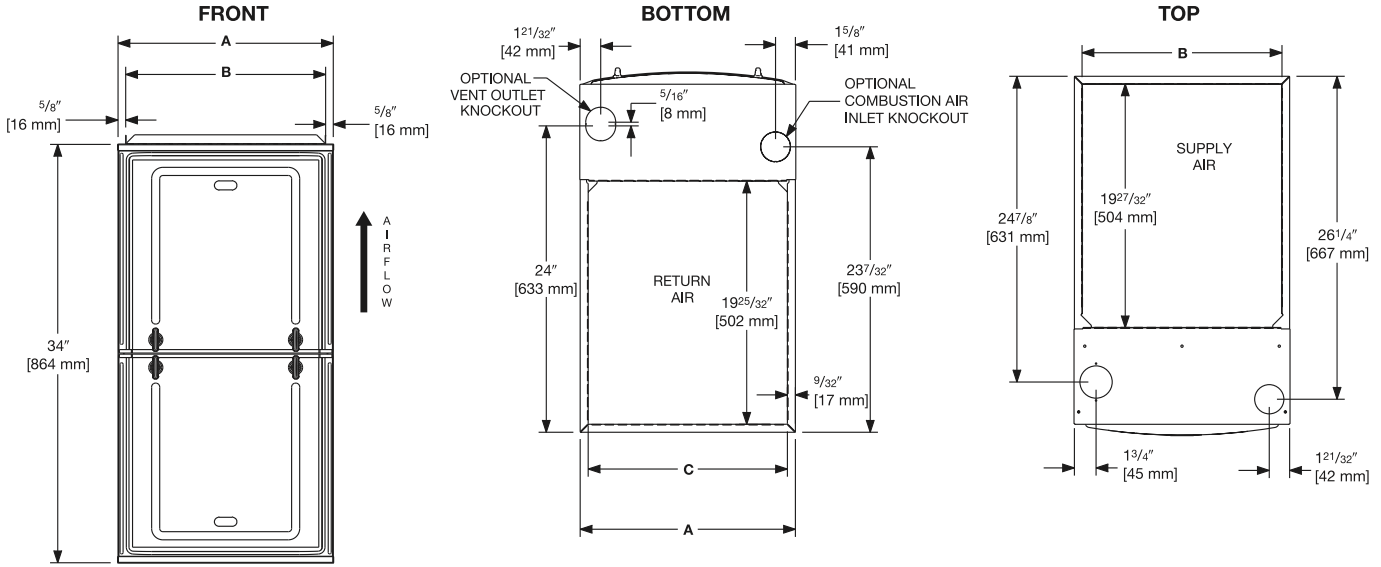
Standard model complies with California low NOx requirements up to 40ng/J.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Multi-position Application



RIGHT SIDE

LEFT SIDE

Unit Dimensions (Clearance to Combustibles)

| MODEL R951V | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. | FLANGE DIMENSIONS | | |
|----------------|--------------|------------------------------|------|--------|--------|------|---------------|-------------------|----------------|----------------|
| | | RIGHT 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] |

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 and in accordance with local codes.

[] Designates Metric Conversions

Blower Performance Data

| GAS HEATING TARGET CFM [L/s] | | | | | | | |
|---------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | R951V0403 A17M4SCAP | R951V0603 A17M4SCAP | R951V0703 A17M4SCAP | R951V0705 A21M4SCAP | R951V0855 A21M4SCAP | R951V1005 A21M4SCAP | R951V1155 A24M4SCAP |
| Furnace Hi Heat CFM A (factory) | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Furnace Hi Heat CFM B (side return) | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Furnace Hi Heat CFM C (Approx. +7°F) | 891 [421] | 990 [468] | 900 [425] | 1170 [553] | 1417 [669] | 1409 [665] | 1418 [670] |
| Furnace Hi Heat CFM D (Approx. +12°F) | 822 [388] | 913 [431] | 830 [392] | 1079 [510] | 1307 [617] | 1299 [614] | 1308 [618] |

[] Designates Metric Conversions

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

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

| FILTER RACK FILTER SIZES* INCHES [mm] | | | |
|---------------------------------------|--|--|------------------------|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) | RXGF-CC (DOWNFLOW) |
| R951V(-)040 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R951V(-)060 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R951V(-)070 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R951V(-)070 (wide) | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R951V(-)085 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R951V(-)100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |
| R951V(-)115 | 22 ³ / ₄ x 25 [578 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17A1 |
| RXBC-D21A1 |
| RXBC-D21B1 |
| RXBC-D24A1 |



THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

5 OPERATING MODES – Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



RETST700SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION – Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



The new degree of comfort.®

Endeavor™ Line *Classic Plus*® Series Gas Furnaces



This product meets a stringent set of our internally defined sustainability standards



R962V

96% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Two-Stage

Motor Type: Constant CFM

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.

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| Blower Performance Data | 7 |
| Accessories | 8-9 |
| Limited Warranty | 12 |

Features and Benefits

- **PlusOne® Energy Efficiency:** ENERGY STAR® certified, featuring 96% AFUE across all model sizes
- **PlusOne® Diagnostics:** With the Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth technology makes monitoring, troubleshooting and repairing the product easier than ever before
- **Dip Switch Free Installation Commissioning via Bluetooth Technology:** Seamless final install step without DIP switch configuration using the Rheem Contractor App
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **PlusOne® Water Management System:** Exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked and alerts the contractor via diagnostic code
- **Two-Stage Heating:** Furnace operation mainly stays at low capacity around 60-65%, but will switch to high capacity to deliver stable heat distribution
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Quieter Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and Econet® App²

¹ Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

² Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>96</u> | <u>2</u> | <u>V</u> | <u>040</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>M4</u> | <u>S</u> | <u>C</u> | <u>A</u> | <u>P</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 | 96 - 96% AFUE | 2 - Two-Stage | V - ECM Variable Speed | 040 - 40,000 [11.7 kW] 060 - 60,000 [17.6 kW] 070 - 70,000 [20.5 kW] 075 - 75,000 [22.0 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW] | 3 - 3 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | M4 - Multi-4 Way | S - Standard | C - Communicating, EcoNet®, Bluetooth | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R962V0403A17M4SCAP |
| R962V0603A17M4SCAP |
| R962V0703A17M4SCAP |
| R962V0705A21M4SCAP |
| R962V0855A21M4SCAP |
| R962V1005A21M4SCAP |
| R962V1155A24M4SCAP |

| STANDARD EQUIPMENT |
|--|
| Pressure switches |
| Redundant 2 stage main gas control |
| Blower compartment door safety switch |
| Solid state time on/off blower control |
| Limit controls |
| Manual shut-off valve |
| 100% safety lock out |
| Adjustable cool fan off delay |
| One hour automatic retry |
| Power and self test diagnostics |
| Flame sense current diagnostics |
| Electronic air cleaner connections |
| Twinning (built-in) features |
| Humidifier connections |
| Adjustable humidifier on/off delay |
| Low speed continuous fan option |
| Two speed heating |
| Two speed cooling |
| Direct drive motor |
| PWM controlled constant CFM electrically commutated blower motor |
| Multi-speed constant CFM electrically commutated blower motor |
| Solid bottom |

NOTE: A thermostat is not included as standard equipment.

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

Physical Data and Specifications U.S. and Canadian Models

| MODEL NUMBERS | R962V0403 A17M4CAP | R962V0603 A17M4SCAP | R962V0703 A17M4SCAP | R962V0705 A21M4SCAP | R962V0855 A21M4SCAP | R962V1005 A21M4SCAP | R962V1155A 24M4SCAP |
|--|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
| HIGH FIRE INPUT BTU/HR [kW] ① | 42,000 [12.31] | 56,000 [16.41] | 70,000 [20.50] | 70,000 [20.50] | 84,000 [24.61] | 98,000 [28.72] | 112,000 [32.82] |
| LOW FIRE INPUT | 29,400 [8.61] | 39,200 [11.49] | 49,000 [14.36] | 49,000 [14.36] | 58,800 [17.23] | 68,600 [20.11] | 78,400 [23.00] |
| HEATING CAPACITY BTU/HR [kW] | 41,000 [12.02] | 55,000 [16.12] | 68,000 [19.93] | 68,000 [19.93] | 82,000 [24.03] | 95,000 [27.84] | 109,000 [31.94] |
| HIGH ALTITUDE OUTPUT 10% DERATE [kW] ② | 36,288 [10.64] | 48,384 [14.18] | 60,480 [17.72] | 60,480 [17.72] | 72,756 [21.27] | 84,672 [24.81] | 96,768 [28.36] |
| BLOWER (D x W) [mm] | 11 x 7 [279 x 178] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| MOTOR H.P. [W]—TYPE | 1/2 [373] VS-CT(ECM) | 1/2 [373] VS-CT(ECM) | 1/2 [373] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) | 1 [746] VS-CT(ECM) |
| MIN. CIRCUIT AMPACITY | 8 | 8 | 8 | 12 | 12 | 12 | 12 |
| MIN. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 20 | 20 | 15 | 15 |
| MAX. OVERLOAD PROTECTION DEVICE | 15 | 15 | 15 | 20 | 20 | 15 | 15 |
| MINIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa] | .18 [.045] | .20 [.050] | .23 [.057] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| MAXIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa] | 0.9 [0.22] | 0.9 [0.22] | 0.9 [0.22] | 0.9 [0.22] | 0.9 [0.22] | 0.9 [0.22] | 0.9 [0.22] |
| HEATING HI CFM [L/s] | 1150 [543] | 1250 [590] | 1000 [472] | 1332 [629] | 1850 [873] | 1965 [927] | 1700 [802] |
| HEATING LO CFM [L/s] | 870 [411] | 1025 [484] | 875 [413] | 1121 [529] | 1470 [694] | 1710 [807] | 1450 [684] |
| COOLING HI CFM [L/s] | 1125 [531] | 1125 [531] | 1125 [531] | 1800 [850] | 1800 [850] | 1800 [850] | 1800 [850] |
| COOLING LOCFM [L/s] | 731 [345] | 731 [345] | 731 [345] | 1170 [552] | 1170 [552] | 1170 [552] | 1170 [552] |
| TEMPERATURE RISE-HIGH FIRE RANGE IN DEGREES °F [°C] | 20 - 50 [11 - 28] | 30 - 60 [17 - 33] | 40 - 70 [22 - 39] | 30 - 60 [17 - 33] | 30 - 60 [17 - 33] | 40 - 70 [22 - 39] | 45 - 75 [25 - 42] |
| TEMPERATURE RISE-LOW FIRE RANGE IN DEGREES °F [°C] | 15 - 45 [8 - 25] | 20 - 50 [11 - 28] | 30 - 60 [17 - 33] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] | 30 - 60 [17 - 33] | 35 - 63 [19 - 36] |
| APPROX. SHIPPING WEIGHT | 128 [58] | 128 [58] | 132 [60] | 139 [63] | 147.5 [67] | 152 [69] | 165 [75] |
| AFUE ③ | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% | 96.00% |

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.

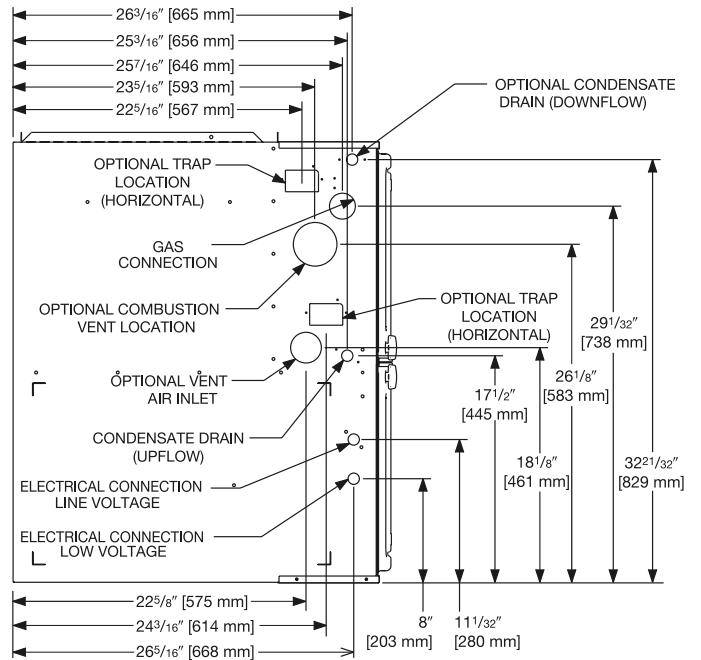
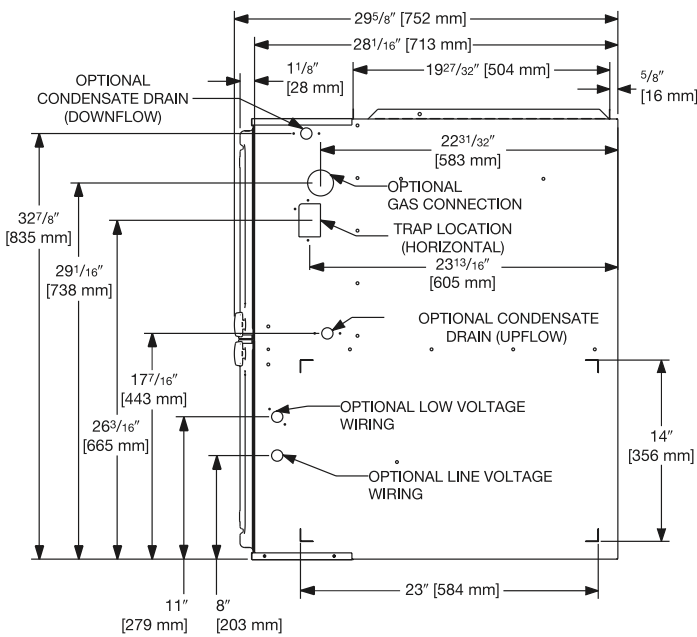
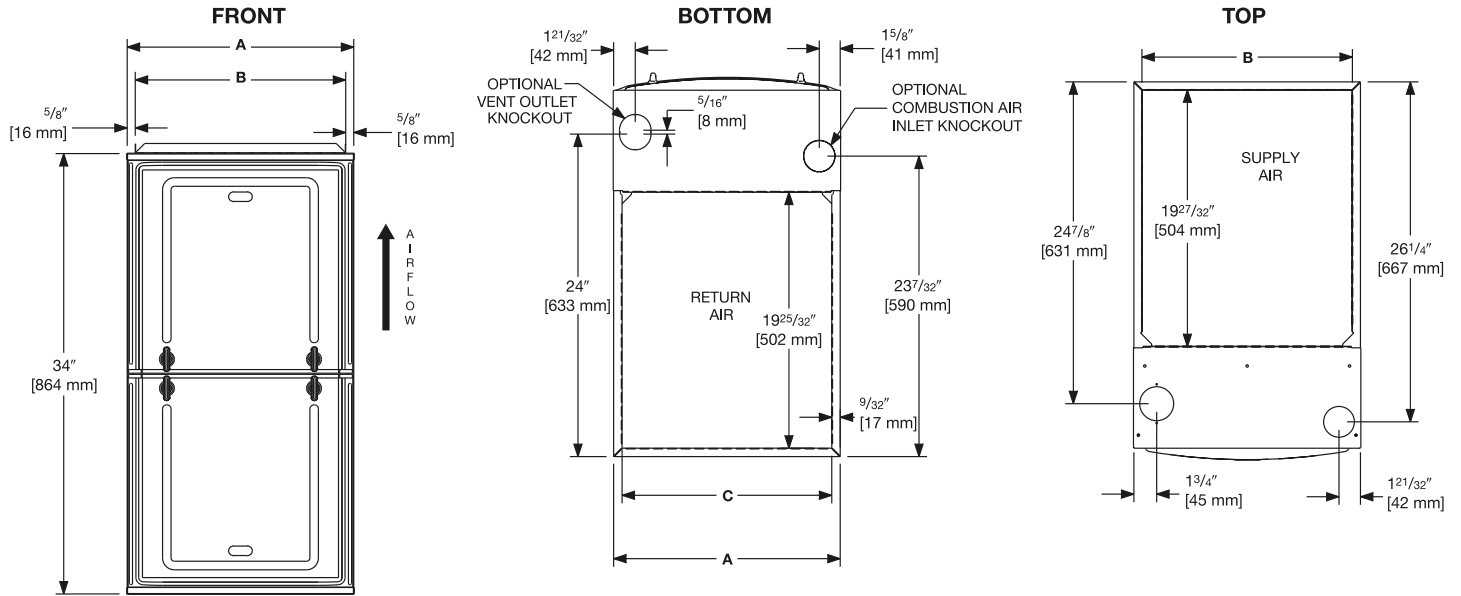
NOTE: Standard model complies with California low NOx requirements up to 40ng/J.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Multi-Position Application



RIGHT SIDE

LEFT SIDE

Unit Dimensions (Clearance to Combustibles)

| MODEL R962V | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTs. | FLANGE DIMENSIONS | | |
|-------------|-----------|------------------------------|------|--------|--------|------|------------|-------------------|----------------|----------------|
| | | RIGHT 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 | 128.0 [58] | 17 1/2 [445] | 16 17/64 [413] | 16 13/64 [412] |
| 070 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 132.0 [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 | 152.0 [69] | 21 [533] | 19 49/64 [502] | 19 45/64 [500] |
| 115 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 | 165.0 [75] | 24 1/2 [662] | 23 17/63 [591] | 23 13/64 [589] |

[] Designates Metric Conversions

Blower Performance Data

| GAS HEATING TARGET CFM [L/s] | | | | | | | |
|---------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | R962V0403 A17M4SCAP | R962V0603 A17M4SCAP | R962V0703 A17M4SCAP | R962V0705 A21M4SCAP | R962V0855 A21M4SCAP | R962V1005 A21M4SCAP | R962V1155 A24M4SCAP |
| Furnace Lo Heat CFM A (factory) | 870 [411] | 900 [425] | 1070 [505] | 1100 [520] | 1475 [697] | 1320 [623] | 1400 [661] |
| Furnace Lo Heat CFM B (side return) | 870 [411] | 900 [425] | 1070 [505] | 1100 [520] | 1475 [697] | 1320 [623] | 1400 [661] |
| Furnace Lo Heat CFM C (Approx. +7°F) | 766 [362] | 792 [374] | 941.6 [445] | 968 [457] | 1298 [613] | 1161.6 [549] | 1232 [582] |
| Furnace Lo Heat CFM D (Approx. +12°F) | 705 [333] | 729 [345] | 867 [410] | 891 [421] | 1195 [564] | 1070 [505] | 1134 [536] |
| Furnace Hi Heat CFM A (factory) | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Furnace Hi Heat CFM B (side return) | 990 [468] | 1100 [520] | 1000 [472] | 1300 [614] | 1574 [743] | 1565 [739] | 1575 [744] |
| Furnace Hi Heat CFM C (Approx. +7°F) | 891 [421] | 990 [468] | 900 [425] | 1170 [553] | 1417 [669] | 1409 [665] | 1418 [670] |
| Furnace Hi Heat CFM D (Approx. +12°F) | 822 [388] | 913 [431] | 830 [392] | 1079 [510] | 1307 [617] | 1299 [614] | 1308 [618] |

[] Designates Metric Conversions

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)

FOSSIL FUEL KIT: RXPF-F01, RXPF-F02 (TVA)

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

EXTERNAL SIDE (UPFLOW) FILTER RACK: RXGF-CD

EXTERNAL (DOWNFLOW) FILTER RACK: RXGF-CC

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-FP34

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

| FILTER RACK FILTER SIZES* INCHES [mm] | | | |
|---------------------------------------|--|--|------------------------|
| MODEL | RXGF-CB (UPFLOW/ HORIZONTAL) | RXGF-CD (UPFLOW) | RXGF-CC (DOWNFLOW) |
| R962V040 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R962V060 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R962V070 | 15 ³ / ₄ x 25 [400 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R962V070 (wide) | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R962V085 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R962V100 | 19 ¹ / ₄ x 25 [489 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 12 x 20 [305 x 508] |
| R962V115 | 22 ³ / ₄ x 25 [578 x 635] | 15 ³ / ₄ x 25 [400 x 635] | 14 x 20 [356 x 508] |

*Filter racks are shipped without filters.
Filters shipped with furnace may be used or a suitable 1" [25.4 mm] filter.

Indoor Coil Casings

| MODEL NUMBER |
|-----------------|
| RXBC-D17A1 |
| RXBC-D21A1 |
| RXBC-D21B1 |
| RXBC-D24A1 |



THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

5 OPERATING MODES – Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



RETST700SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION – Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



The new degree of comfort.®

Endeavor™ Line *Prestige*® Series Gas Furnaces



This product meets a stringent set of our internally defined sustainability standards



R97MV

97% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Modulating

Motor Type: Constant CFM

Input Rates: 60 to 115 kBTU [11.6 to 33.7 kW]

Configuration Options: Downflow/Horizontal



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

Table of Contents

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| Dimensional Data | 6 |
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Features and Benefits

- **PlusOne® Energy Efficiency:** ENERGY STAR® certified, featuring 97% AFUE across all model sizes
- **PlusOne® Diagnostics:** Industry first, 7-Segment LED Display makes service calls quick and easy
- **PlusOne® Ignition System:** Proven Direct Spark Ignition (DSI) for reliability and longevity
- **PlusOne® Water Management System:** Exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked and alerts the contractor via diagnostic code
- **Modulating Heating Stage:** Gradual auto-adjustment from low to 100% of capacity to meet precise comfort requirements
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sounds levels and year-round energy savings
- **Quietest Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace of the quietest available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App²

¹Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

²Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>97</u> | <u>M</u> | <u>V</u> | <u>060</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>DH</u> | <u>S</u> | <u>G</u> | <u>A</u> | <u>P</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 | 97 - 97% AFUE | M - Modulating | V - ECM Variable Speed | 060 - 60,000 [17.6 kW] 070 - 70,000 [20.5 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW] | 3 - 3 Ton Drive 5 - 5 Ton Drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | DH - Downflow S - Standard Horizontal | S - Standard | G - Communicating, EcoNet® | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R97MV0603A17DHSGAP |
| R97MV0703A17DHSGAP |
| R97MV0855A21DHSGAP |
| R97MV1005A21DHSGAP |
| R97MV1155A24DHSGAP |

| STANDARD EQUIPMENT |
|--|
| Multispeed Constant CFM 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 U.S. and Canadian Models

| MODEL NUMBER | R97MV0603 A17DHSGAP | R97MV0703 A17DHSGAP | R97MV0855 A21DHSGAP | R97MV1005 A21DHSGAP | R97MV1155 A24DHSGAP |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|
| HIGH FIRE INPUT BTU/HR [kW] | 56,000 [16.41] | 70,000 [20.50] | 84,000 [24.61] | 98,000 [28.72] | 112,000 [32.82] |
| LOW FIRE INPUT | 22,400 [6.56] | 28,000 [8.21] | 33,600 [9.85] | 39,000 [11.49] | 44,800 [13.13] |
| HEATING CAPACITY BTU/HR [kW] | 55,000 [16.12] | 69,000 [20.22] | 83,000 [24.32] | 96,000 [28.13] | 110,000 [32.24] |
| BLOWER (D x W) [mm] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| MOTOR H. P. [W]-TYPE | 1/2 [373] E. C. M. | 1/2 [373] E. C. M. | 3/4 [559] E. C. M. | 3/4 [559] E. C. M. | 3/4 [559] E. C. M. |
| MIN. CIRCUIT AMPACITY | 10.00 | 10.00 | 12.00 | 13.00 | 12.00 |
| MIN. OVERLOAD PROTECTION DEVICE | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |
| MAX. OVERLOAD PROTECTION DEVICE | 15.00 | 15.00 | 20.00 | 20.00 | 20.00 |
| MINIMUM EXT. STATIC PRESSURE IN. W.C. [kPa] | .20 [.050] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| MAXIMUM EXT. STATIC PRESSURE IN. W.C. [kPa] | 1.0 [0.249] | 1.0 [0.249] | 1.0 [0.249] | 1.0 [0.249] | 1.0 [0.249] |
| MAXIMUM HEATING CFM [L/s] | 954 [450] | 1109 [523] | 1062 [501] | 1250 [590] | 1628 [769] |
| COOLING CFM @ .50" W.C. [.124 kPa] E.S.P. [L/s] | 1050 [496] | 1050 [496] | 1750 [825] | 1750 [825] | 1750 [825] |
| TEMPERATURE RISE- HIGH FIRE °F [°C] | 40 - 70 [22 -39] | 40 - 70 [22 -39] | 50 - 80 [27 -44] | 50 - 80 [27 -44] | 40 - 70 [22 -39] |
| TEMPERATURE RISE- LOW FIRE °F [°C] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] |
| APPROX. SHIPPING WEIGHT (LBS) [kg] | 128 [58] | 132 [60] | 147.5 [67] | 152 [69] | 165 [75] |
| AFUE ① | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |

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

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

*S=Standard Models

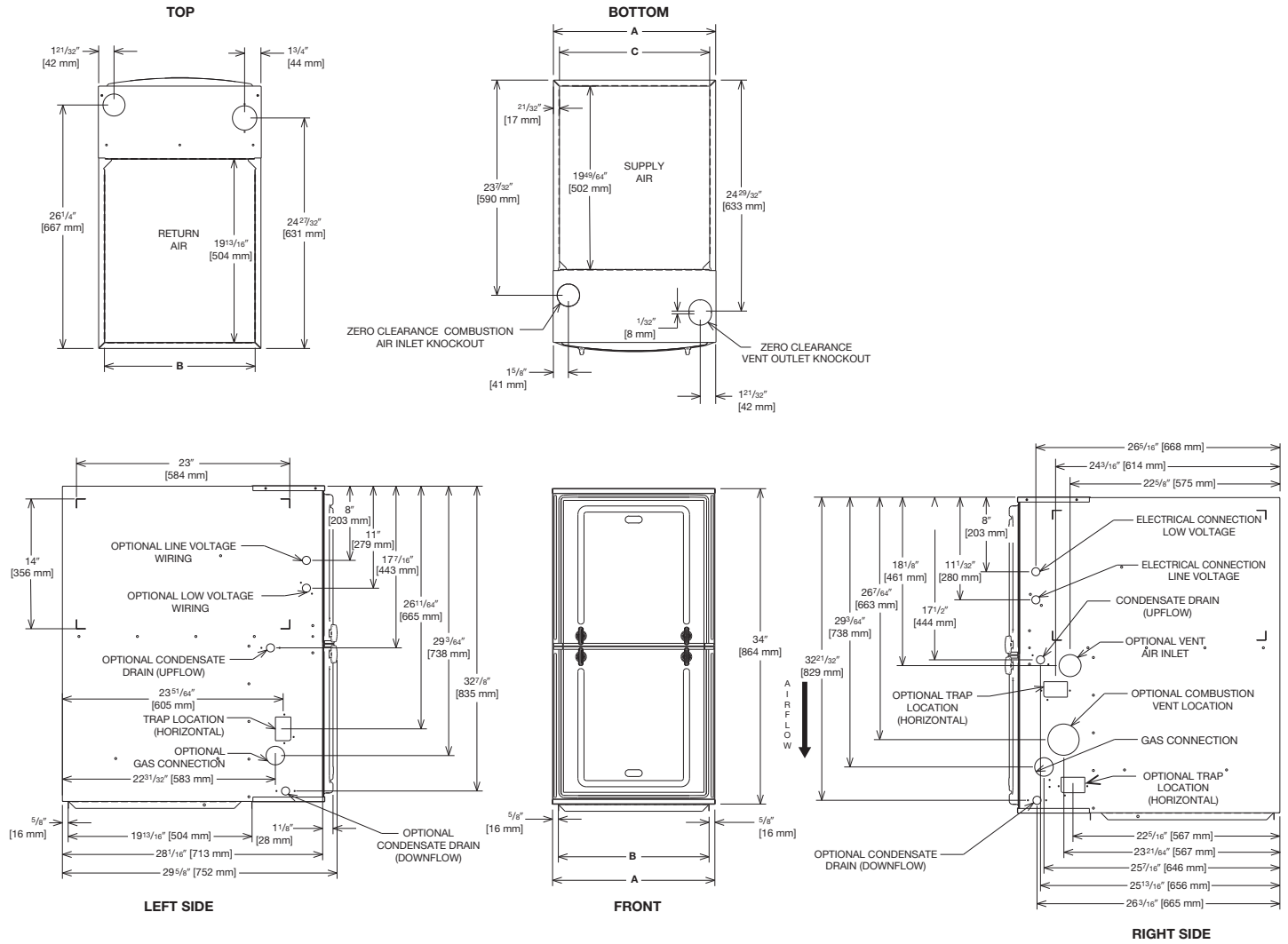
Standard model complies with California low NOx requirements.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit. 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.

[] Designates Metric Conversions

Downflow Horizontal Applications



ST-A1250-03-00

Unit Dimensions (Clearance to Combustibles)

| MODEL | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | |
|------------|-----------|------------------------------|------|--------|--------|------|
| | | RIGHT SIDE | BACK | TOP | FRONT | VENT |
| (-)97MV060 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 |
| (-)97MV070 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 |
| (-)97MV085 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 |
| (-)97MV100 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 |
| (-)97MV115 | 0 | 0 | 0 | 1 [25] | 2 [51] | 0 |

*A service clearance of at least 24" is recommended in front of all furnaces

| FLANGE DIMENSIONS | | |
|--------------------------------------|--|--|
| A | B | C |
| 17 ¹ / ₂ [445] | 16 ¹⁷ / ₆₄ [413] | 16 ¹³ / ₆₄ [412] |
| 21 [533] | 19 ⁴⁹ / ₆₄ [502] | 19 ⁴⁵ / ₆₄ [500] |
| 24 ¹ / ₂ [662] | 23 ¹⁷ / ₆₄ [591] | 23 ¹³ / ₆₄ [589] |

Supply and return depicted as downflow configuration.
Flange configuration will vary depending on installation orientation.

[] Designates Metric Conversions

Blower Performance Data

| Comfort Select – CFM Options (factory setting) | | | | | | |
|--|----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| Model Number | | (-)97V(-)060M317K(--) | (-)97V(-)070M317K(--) | (-)97V(-)085M521K(-) | (-)97V(-)100M521K(--) | (-)97V(-)115M524K(--) |
| HEATING CFM [L/s] | LOW HEAT (40%) | 428 [202] | 466 [220] | 579 [276] | 683 [322] | 778 [367] |
| | MEDIUM HEAT (65%) | 562 [265] | 635 [300] | 685 [323] | 807 [381] | 990 [467] |
| | HIGH HEAT (100%) | 749 [353] | 871 [411] | 833 [393] | 982 [463] | 1286 [607] |
| Efficiency Select – CFM Options | | | | | | |
| HEATING CFM [L/s] | LOW HEAT (40%) | 550 [260] | 599 [283] | 745 [352] | 910 [429] | 1000 [472] |
| | MEDIUM HEAT (65%) | 690 [325] | 778 [367] | 845 [399] | 1014 [479] | 1217 [574] |
| | HIGH HEAT (100%) | 885 [418] | 1029 [486] | 985 [465] | 1160 [547] | 1520 [717] |
| | MAX HEAT (-4°F) | 954 [450] | 1109 [524] | 1067 [501] | 1251 [590] | 1628 [769] |

*S = Standard Models

NOTES Standard model complies with California low NOx requirements.

Refer to Installation Manual for complete heating dip switch options.

| COOLING CFM | | | | | | | |
|---|------------------------------|-----------------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| Model Number | | | (-)97V(-)060M317K(--) | (-)97V(-)070M317K(--) | (-)97V(-)085M521K(-) | (-)97V(-)100M521K(--) | (-)97V(-)115M524K(--) |
| TARGET COOLING/ HEAT PUMP AIRFLOW | HIGH COOLING CFM [L/s] | SW 4 = OFF SW 5 = OFF | 1050 [496] | 1050 [496] | 1750 [825] | 1750 [825] | 1750 [825] |
| | | SW 4 = ON SW 5 = OFF | 875 [413] | 875 [413] | 1400 [661] | 1400 [661] | 1400 [661] |
| | | SW 4 = OFF SW 5 = ON | 700 [330] | 700 [330] | 1225 [578] | 1225 [578] | 1225 [578] |
| | | SW 4 = ON SW 5 = ON | 525 [248] | 525 [248] | 1050 [496] | 1050 [496] | 1050 [496] |
| | LOW COOLING CFM [L/s] | SW 4 = OFF SW 5 = OFF | 788 [372] | 788 [372] | 1313 [619] | 1313 [619] | 1313 [619] |
| | | SW 4 = ON SW 5 = OFF | 656 [310] | 656 [310] | 1050 [496] | 1050 [496] | 1050 [496] |
| | | SW 4 = OFF SW 5 = ON | 525 [248] | 525 [248] | 919 [434] | 919 [434] | 919 [434] |
| | | SW 4 = ON SW 5 = ON | 394 [185] | 394 [185] | 788 [372] | 788 [372] | 788 [372] |

[] Designates Metric Conversions

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 (HORIZONTAL) RACK: RXGF-CB

EXTERNAL (DOWNFLOW) FILTER RACK: RXGF-CC

| FILTER RACK FILTER SIZES* INCHES [mm] | | |
|---------------------------------------|----------------------|-----------------------|
| MODEL | RXGF-CB (HORIZONTAL) | RXGF-CC (DOWNFLOW) |
| (-97(-)060 | 16 x 24 [40 x 61] | (2) 14 x 20 [36 x 51] |
| (-97(-)070 | 16 x 24 [40 x 61] | (2) 14 x 20 [36 x 51] |
| (-97(-)085 | 20 x 24 [51 x 61] | (2) 14 x 20 [36 x 51] |
| (-97(-)100 | 20 x 24 [51 x 61] | (2) 14 x 20 [36 x 51] |
| (-97(-)115 | 24 x 24 [61 x 61] | (2) 14 x 20 [36 x 51] |

*Filter racks are shipped without filters.
A suitable 1" [25.4 mm] filter may be used

[] Designates Metric Conversions

Indoor Coil Casings

| MODEL NUMBER |
|--------------|
| RXBC-D17A1 |
| RXBC-D21A1 |
| RXBC-D21B1 |
| RXBC-D24A1 |

For High Altitudes:

NOTE: Modulating furnaces require a unique 2% derate at altitudes above 2,000 feet. See Installation Instructions for details.

HIGH ALTITUDE KITS

R97MV060M317K(--)
R97MV070M317K(--)
R97MV085M521K(--)
R97MV100M521K(--)
R97MV115M524K(--)

RXGY-F48
RXGY-F49
RXGY-F50
RXGY-F51
RXGY-F52

L.P. CONVERSION KIT: RXGJ-FP37

CONDENSATE PUMP KIT: PROSTOCK & 1PCB151TUL

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



THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER – Current conditions plus 6-day forecast

5 OPERATING MODES – Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE – Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING – Allows you to save while you're away and come home to comfort



RETST800SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER – Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL – Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION – Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING – Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



The new degree of comfort.®

Endeavor™ Line *Prestige*® Series Gas Furnaces



This product meets a stringent set of our internally defined sustainability standards



R98MV

98% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Modulating

Motor Type: Constant CFM

Input Rates: 60 to 115 kBTU [11.6 to 33.7 kW]

Configuration Options: Upflow



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

Table of Contents

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Features and Benefits

- **PlusOne® Energy Efficiency:** ENERGY STAR® certified, featuring 98% AFUE across all model sizes
- **PlusOne® Diagnostics:** Industry first, 7-Segment LED Display makes service calls quick and easy
- **PlusOne® Ignition System:** Proven Direct Spart Ignition (DSI) for reliability and longevity
- **PlusOne® Water Management System:** Exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked and alerts the contractor via diagnostic code
- **Modulating Heating Stage:** Gradual auto-adjustment from low to 100% of capacity to meet precise comfort requirements
- **Constant CFM Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sounds levels and year-round energy savings
- **Quietest Operation¹:** A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace of the quietest available
- **EcoNet® Enabled Furnace:** The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- **Allows on-the-go control** and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App²

¹Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

²Wifi broadband internet connection required. Download the EcoNet® App from the App Store® or Google Play® to set up your EcoNet® Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

Gas Furnaces

| <u>R</u> | <u>98</u> | <u>M</u> | <u>V</u> | <u>060</u> | <u>3</u> | <u>A</u> | <u>17</u> | <u>M4</u> | <u>S</u> | <u>G</u> | <u>A</u> | <u>P</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 | 98 - 98% AFUE | M - Modulating | V - ECM Variable Speed | 060 - 76,000 [17.6 kW] 070 - 70,000 [20.5 kW] 085 - 85,000 [24.9 kW] 100 - 100,000 [29.3 kW] 115 - 115,000 [33.7 kW] | 3 - 3 ton drive 5 - 5 ton drive | A - 1st Design Series | 17 - 17.5" Width 21 - 21" Width 24 - 24.5" Width | M4 - Multi-4 Way | S - Standard | G - Communicating, EcoNet® | A - 1st Series | P - Premium Grade |

[] Designates Metric Conversions

| AVAILABLE MODELS |
|--------------------|
| R98MV0603A17UPSGAP |
| R98MV0703A17UPSGAP |
| R98MV0855A21UPSGAP |
| R98MV1005A21UPSGAP |
| R98MV1155A24UPSGAP |

| STANDARD EQUIPMENT |
|--|
| Multi-speed Constant CFM 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 U.S. and Canadian Models

| MODEL NUMBER | (-)98V(-)060A317U(--) | (-)98V(-)070A317U(--) | (-)98V(-)085A521U(-) | (-)98V(-)100A521U(--) | (-)98V(-)115A524U(--) |
|--|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| HIGH FIRE INPUT BTU/HR [kW] | 56,000 [16.41] | 70,000 [20.50] | 84,000 [24.61] | 98,000 [28.72] | 112,000 [32.82] |
| LOW FIRE INPUT | 22,400 [6.56] | 28,000 [8.21] | 33,600 [9.85] | 39,000 [11.49] | 44,800 [13.13] |
| HEATING CAPACITY BTU/HR [kW] | 55,000 [16.12] | 69,000 [20.22] | 83,000 [24.32] | 97,000 [28.43] | 110,000 [32.24] |
| BLOWER (D x W) [mm] | 11 x 8 [279 x 203] | 11 x 8 [279 x 203] | 11 x 10 [279 x 254] | 11 x 10 [279 x 254] | 11 x 11 [279 x 279] |
| MOTOR H. P. [W]-TYPE | 1/2 [373] E. C. M. | 1/2 [373] E. C. M. | 3/4 [559] E. C. M. | 3/4 [559] E. C. M. | 3/4 [559] E. C. M. |
| MIN. CIRCUIT AMPACITY | 10.00 | 10.00 | 12.00 | 13.00 | 12.00 |
| MIN. OVERLOAD PROTECTION DEVICE | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |
| MAX. OVERLOAD PROTECTION DEVICE | 15.00 | 15.00 | 20.00 | 20.00 | 20.00 |
| MINIMUM EXT. STATIC PRESSURE IN. W.C. [kPa] | .20 [.050] | .23 [.057] | .28 [.070] | .28 [.070] | .28 [.070] |
| MAXIMUM EXT. STATIC PRESSURE IN. W.C. [kPa] | 1.0 [0.249] | 1.0 [0.249] | 1.0 [0.249] | 1.0 [0.249] | 1.0 [0.249] |
| MAXIMUM HEATING CFM [L/s] | 954 [450] | 1109 [524] | 1294 [611] | 1644 [776] | 1629 [769] |
| COOLING CFM @ .50" W.C. [.124 kPa] E.S.P. [L/s] | 1050 [496] | 1050 [496] | 1750 [825] | 1750 [825] | 1750 [825] |
| TEMPERATURE RISE- HIGH FIRE °F [°C] | 40 - 70 [22 - 39] | 40 - 70 [22 - 39] | 40 - 70 [22 - 39] | 40 - 70 [22 - 39] | 45 - 75 [25 - 41] |
| TEMPERATURE RISE- LOW FIRE °F [°C] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] | 20 - 50 [11 - 28] | 25 - 55 [13 - 30] | 20 - 50 [11 - 28] |
| APPROX. SHIPPING WEIGHT (LBS) [kg] | 128 [58] | 132 [60] | 147.5 [67] | 152 [69] | 165 [75] |
| AFUE ① | 98.7% | 98.3% | 98.1% | 98.1% | 98.6% |

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

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

*S=Standard Models

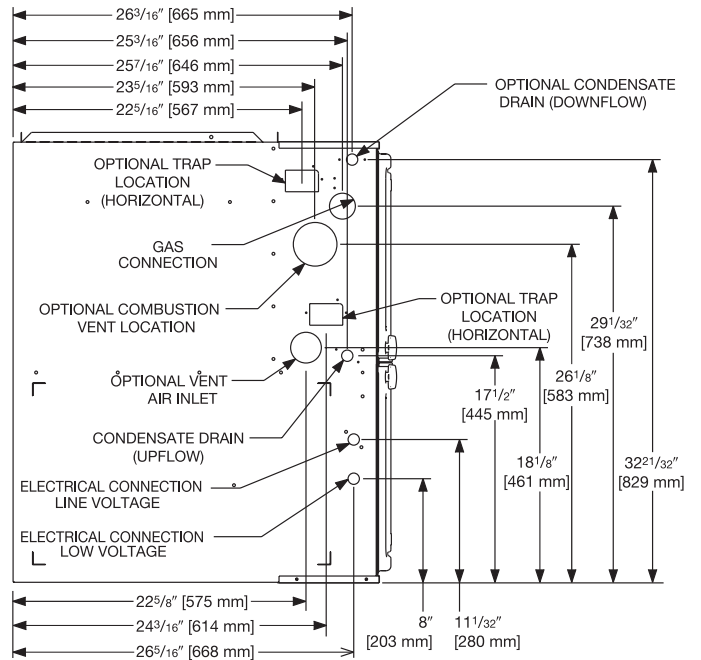
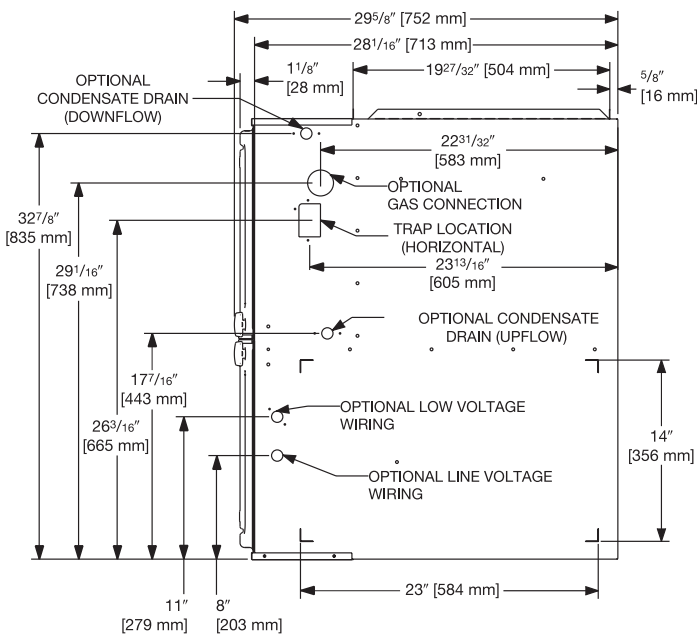
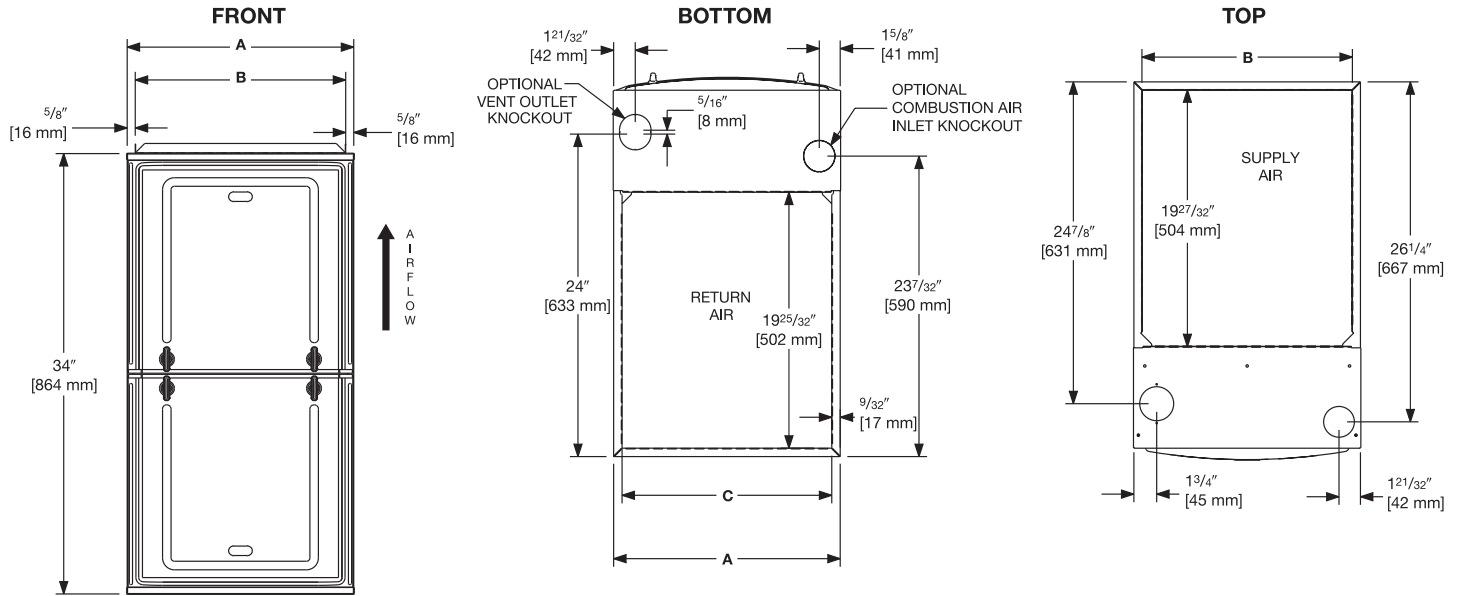
NOTE: Standard model complies with California low NOx requirements.

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.

[] Designates Metric Conversions

Upflow Application



RIGHT SIDE

LEFT SIDE

Dimensional Data: Upflow Model

| MODEL R98MV | LEFT SIDE | MINIMUM CLEARANCE (IN.) [mm] | | | | | SHIP WGTS. | FLANGE DIMENSIONS | | |
|----------------|--------------|------------------------------|------|--------|--------|------|---------------|-------------------|----------------|----------------|
| | | RIGHT SIDE | BACK | TOP | FRONT | VENT | | A | B | C |
| 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] |
| 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

| Comfort Select – CFM Options | | | | | | |
|---|----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| Model Number | | (-)98V(-)060A317U(--) | (-)98V(-)070A317U(--) | (-)98V(-)085A521U(-) | (-)98V(-)100A521U(--) | (-)98V(-)115A524U(--) |
| HEATING CFM [L/s] | LOW HEAT (40%) | 428 [202] | 466 [220] | 568 [268] | 544 [257] | 778 [367] |
| | MEDIUM HEAT (65%) | 562 [265] | 635 [300] | 754 [356] | 855 [404] | 990 [467] |
| | HIGH HEAT (100%) | 749 [353] | 871 [411] | 1015 [479] | 1290 [609] | 1286 [607] |
| Efficiency Select – CFM Options (factory setting) | | | | | | |
| HEATING CFM [L/s] | LOW HEAT (40%) | 550 [260] | 599 [283] | 730 [345] | 725 [342] | 1000 [472] |
| | MEDIUM HEAT (65%) | 690 [325] | 778 [367] | 926 [437] | 1058 [499] | 1271 [600] |
| | HIGH HEAT (100%) | 885 [418] | 1029 [486] | 1200 [566] | 1525 [720] | 1520 [717] |
| | MAX HEAT (-4°F) | 954 [450] | 1109 [524] | 1294 [611] | 1645 [776] | 1629 [769] |

*S = Standard Models

NOTES Standard model complies with California low NOx requirements.

Refer to Installation Manual for complete heating dip switch options.

| COOLING CFM | | | | | | | | |
|---|------------------------------|---------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|---------------|
| Model Number | | | (-)98V(-)060A317U(--) | (-)98V(-)070A317U(--) | (-)98V(-)085A521U(-) | (-)98V(-)100A521U(--) | (-)98V(-)115A524U(--) | |
| TARGET COOLING/ HEAT PUMP AIRFLOW | HIGH COOLING CFM [L/s] | SW 4 = OFF | SW 5 = OFF | 1050 [496] | 1050 [496] | 1750 [825] | 1750 [825] | 1750 [825] |
| | | SW 4 = ON | SW 5 = OFF | 875 [413] | 875 [413] | 1400 [661] | 1400 [661] | 1400 [661] |
| | | SW 4 = OFF | SW 5 = ON | 700 [330] | 700 [330] | 1225 [578] | 1225 [578] | 1225 [578] |
| | | SW 4 = ON | SW 5 = ON | 525 [248] | 525 [248] | 1050 [496] | 1050 [496] | 1050 [496] |
| | LOW COOLING CFM [L/s] | SW 4 = OFF | SW 5 = OFF | 788 [372] | 788 [372] | 1313 [619] | 1313 [619] | 1313 [619] |
| | | SW 4 = ON | SW 5 = OFF | 656 [310] | 656 [310] | 1050 [496] | 1050 [496] | 1050 [496] |
| | | SW 4 = OFF | SW 5 = ON | 525 [248] | 525 [248] | 919 [434] | 919 [434] | 919 [434] |
| | | SW 4 = ON | SW 5 = ON | 394 [185] | 394 [185] | 788 [372] | 788 [372] | 788 [372] |

[] Designates Metric Conversions

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) RACK: RXGF-CB

EXTERNAL SIDE (UPFLOW) FILTER RACK: RXGF-CD

| FILTER RACK FILTER SIZES* INCHES [mm] | |
|---------------------------------------|-------------------|
| MODEL | RXGF-CD (UPFLOW) |
| (-)98V(-)060 | 16 x 24 [40 x 61] |
| (-)98V(-)070 | 16 x 24 [40 x 61] |
| (-)98V(-)085 | 20 x 24 [51 x 61] |
| (-)98V(-)100 | 20 x 24 [51 x 61] |
| (-)98V(-)115 | 24 x 24 [61 x 61] |

*Filter racks are shipped without filters.
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|--------------|
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| RXBC-D21B1 |
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HIGH ALTITUDE KITS

(-)98V(-)060A317U(--) RXGY-F53
 (-)98V(-)070A317U(--) RXGY-F54
 (-)98V(-)085A521U(--) RXGY-F55
 (-)98V(-)100A521U(--) RXGY-F56
 (-)98V(-)115A524U(--) RXGY-F57

L.P. CONVERSION KIT: RXGJ-FP37

CONDENSATE PUMP KIT: PROSTOCK & 1PCB151TUL

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



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STANDBY SCREEN – Displays indoor temperature and current weather



RETST800SYS

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