



## Ruud Achiever® Series Multi position Gas Furnaces



### R92P- Series

92% A.F.U.E.†

Input Rates from 40 to 115 kBTU  
[11.72 to 33.71 kW]



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

- 92% residential gas furnace CSA certified
- 4 way multi-poise design
- PlusOne™ Diagnostics 7-Segment LED all units
- PlusOne™ Ignition System – DSI for reliability and longevity
- PlusOne™ Water Management System with patented Blocked Drain Sensor
- Heat exchanger is removable for improved serviceability. Aluminized steel primary and stainless steel secondary construction provide maximum corrosion resistance and thermal fatigue reliability.
- Low profile “34 inch” cabinet ideal for space constrained installations.

- Blower Shelf design – serviceable in all furnace orientations
- Pre marked hoses – insures proper system drainage
- Vent with 2" or 3" PVC
- Replaceable Collector box
- Hemmed edges on cabinet and doors
- Quarter turn fasteners for tool less access
- Integrated control boards feature dip switches for easy system set up
- Self priming condensate trap

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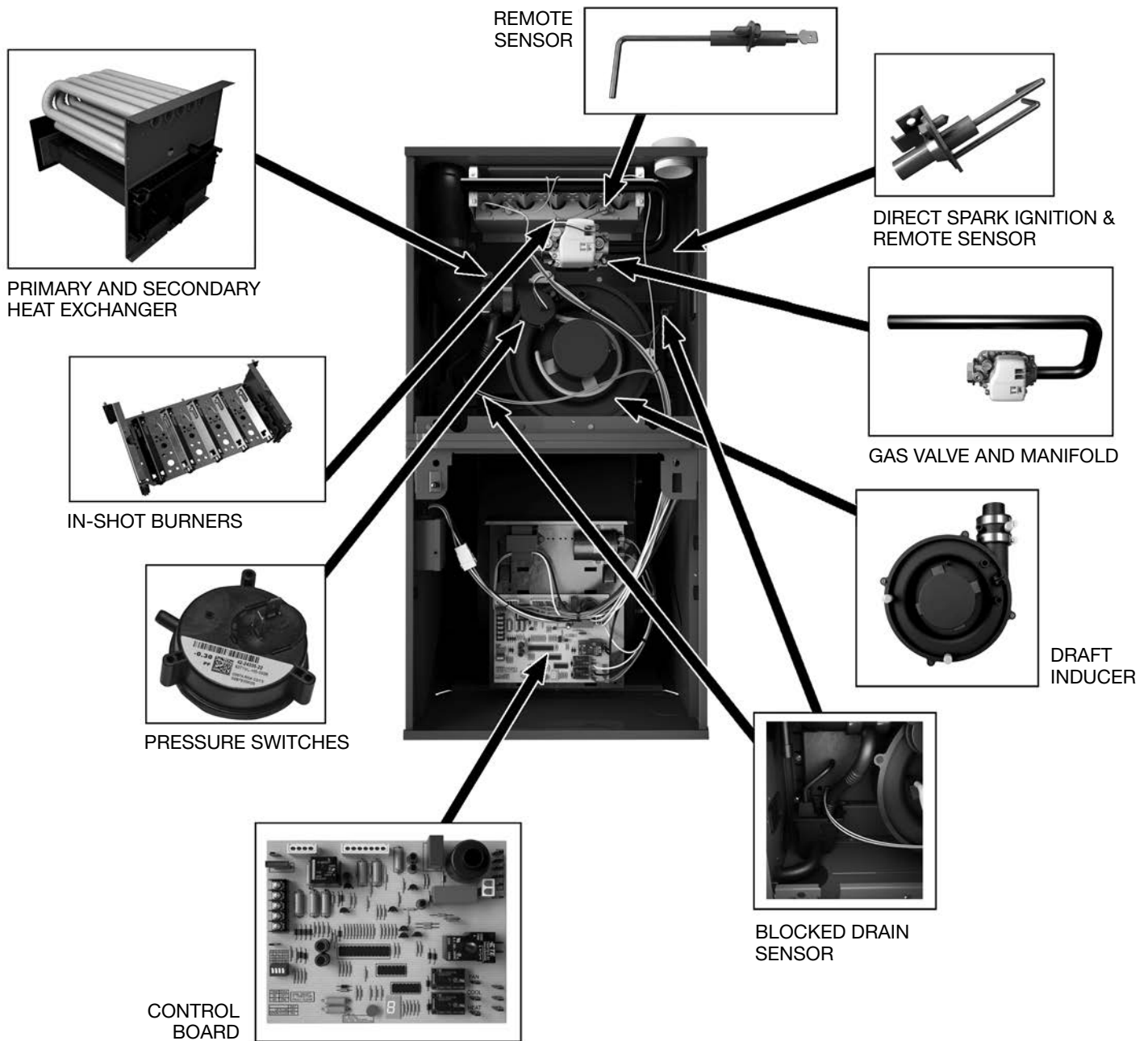
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## STANDARD EQUIPMENT

Completely assembled and wired; blocked drain sensor, 7 segment LED and marked hoses; heat exchanger; primary: aluminized steel, secondary: 29-4C stainless steel; induced draft; pressure switches; 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; humidifier on/off delay; low speed continuous fan option; single speed option for heating and cooling applications; transformer; direct drive, multi-speed blower motor. (Please note: a thermostat is not included as standard equipment.)

## OPTIONAL EQUIPMENT

Side and bottom filter racks; return air cabinet for all sizes.

NOTE: Furnace is not listed for use with fuels other than natural or L.P. (propane) gas.

All models can be converted by a qualified distributor or local service dealer to use L.P. (propane) gas without changing burners. Factory approved kits must be used to convert from natural to L.P. (propane) gas and may be ordered as optional accessories from a parts distributor.

For L.P. (propane) operation, refer to Conversion Kit Index Form.

## 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                                              | R92PA0401317MSA                      | R92PA0601317MSA                      | R92PA0701317MSA                      | R92PA085121MSA                       | R92PA1001521MSA                      | R92PA1151524MSA                      |
|------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| HIGH FIRE INPUT BTU/HR [kW] ①                              | 42,000 [12.31]                       | 56,000 [16.41]                       | 70,000 [20.50]                       | 84,000 [24.61]                       | 98,000 [38.71]                       | 112,000 [32.82]                      |
| HEATING CAPACITY BTU/HR [kW]                               | 39,060 [11.45]                       | 52,080 [15.26]                       | 65,100 [19.67]                       | 78,120 [22.89]                       | 91,140 [36.00]                       | 104,160 [30.52]                      |
| HIGH ALTITUDE OUTPUT<br>10% DERATE [kW] ②                  | 35,154 [10.30]                       | 46,872 [13.74]                       | 58,590 [17.17]                       | 70,308 [26.60]                       | 82,026 [24.03]                       | 93,744 [27.47]                       |
| BLOWER (D x W)<br>[mm]                                     | 11 x 7<br>[279 x 178]                | 11 x 8<br>[279 x 203]                | 11 x 8<br>[279 x 203]                | 11 x 10<br>[279 x 254]               | 11 x 10<br>[279 x 254]               | 11 x 11<br>[279 x 279]               |
| MOTOR H.P. [W]—<br>TYPE                                    | 1/4 [187]-4-PSC                      | 1/2 [373]-4-PSC                      | 1/2 [373]-4-PSC                      | 3/4 [559]-4-PSC                      | 3/4 [559]-4-PSC                      | 3/4 [559]-4-PSC                      |
| MOTOR FULL LOAD AMPS                                       | 4.0                                  | 6.8                                  | 6.8                                  | 8.3                                  | 8.3                                  | 8.3                                  |
| HEATING SPEED                                              | MED-HIGH                             | MED-HIGH                             | MED-HIGH                             | MED-HIGH                             | MED-HIGH                             | MED-HIGH                             |
| COOLING SPEED                                              | HIGH                                 | HIGH                                 | HIGH                                 | HIGH                                 | HIGH                                 | HIGH                                 |
| MINIMUM EXT. STATIC<br>PRESSURE (IN. W.C.) [kPa]           | .18 [.045]                           | .20 [.050]                           | .23 [.057]                           | .28 [.070]                           | .28 [.070]                           | .28 [.070]                           |
| MAXIMUM EXT. STATIC<br>PRESSURE (IN. W.C.) [kPa]           | 0.8 [0.19]                           | 0.8 [0.19]                           | 0.8 [0.19]                           | 0.8 [0.19]                           | 0.8 [0.19]                           | 0.8 [0.19]                           |
| HEATING CFM @ .2" [.049 kPa]<br>W.C. E.S.P. [L/s]          | 1049 [494]                           | 1139 [537]                           | 1211 [571]                           | 1704 [804]                           | 1748 [825]                           | 1750 [825]                           |
| COOLING CFM @ .5" [.124 kPa]<br>W.C. E.S.P. [L/s]          | 1121 [528]                           | 1232 [581]                           | 1318 [622]                           | 1742 [822]                           | 1782 [841]                           | 1934 [912]                           |
| TEMPERATURE RISE-HIGH FIRE<br>RANGE IN DEGREES °F [°C]     | 25 - 55<br>[14 - 31]                 | 35 - 65<br>[19 - 36]                 | 40 - 70<br>[22 - 39]                 | 35 - 65<br>[19 - 36]                 | 35 - 65<br>[19 - 36]                 | 45 - 75<br>[25 - 42]                 |
| RETURN AIR CABINETS (OPT.)<br>RXGR-<br>FILTER SIZE<br>[mm] | C17B<br>(2) 12" x 16"<br>[305 x 406] | C17B<br>(2) 12" x 16"<br>[305 x 406] | C17B<br>(2) 12" x 16"<br>[305 x 406] | C21B<br>(2) 12" x 20"<br>[305 x 508] | C21B<br>(2) 12" x 20"<br>[305 x 508] | C24B<br>(2) 24" x 16"<br>[609 x 406] |
| APPROX. SHIPPING WEIGHT<br>(LBS.) [kg]                     | 123.5 [56]                           | 128 [58]                             | 132 [60]                             | 147.5 [67]                           | 152 [69]                             | 165 [75]                             |
| AFUE ③                                                     | 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.

\*S=Standard Models

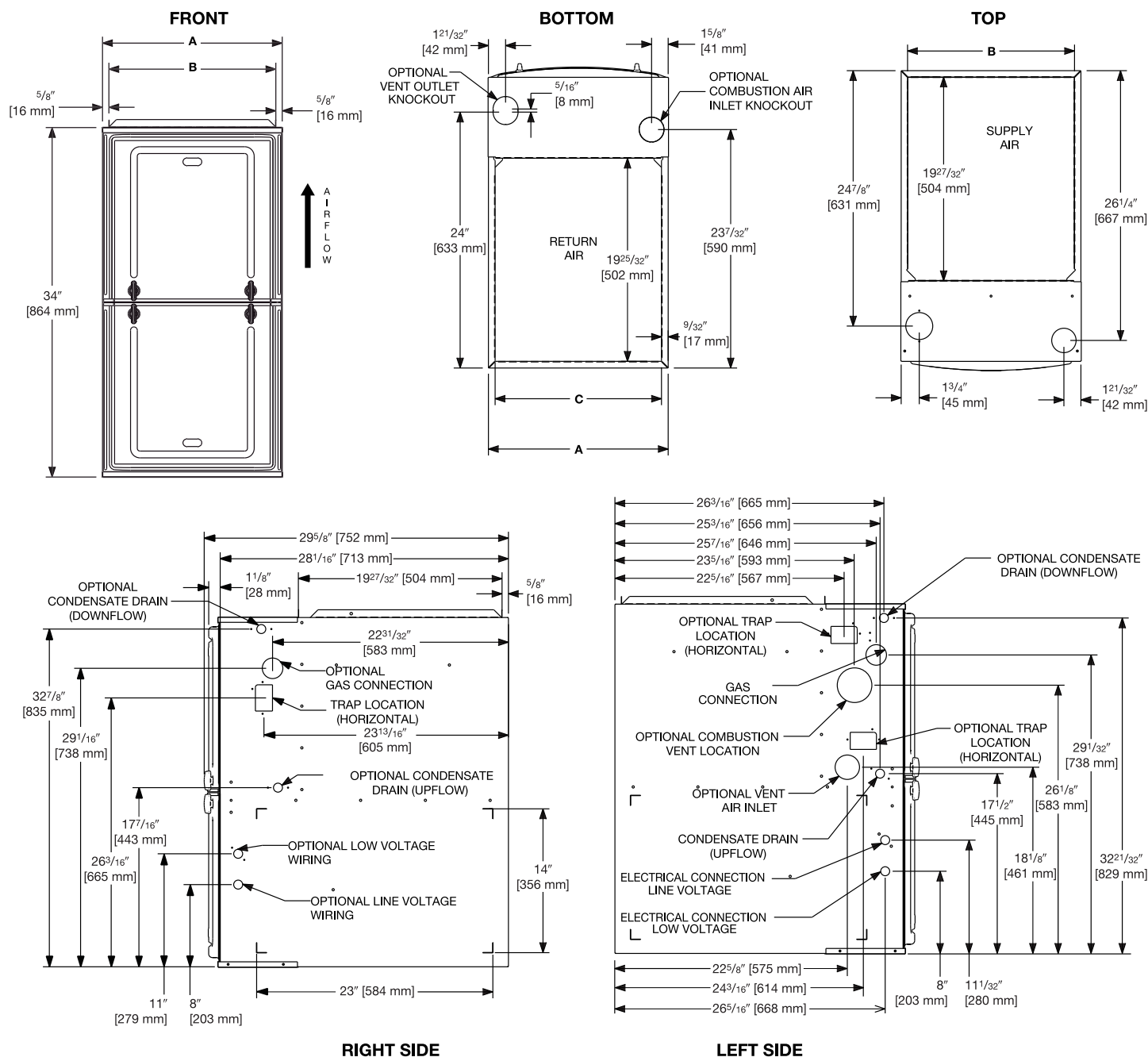
NOTE: Standard model complies with California low nox requirements.

[ ] Designates Metric Conversions

Model Number Identification

| <u>R</u> | <u>92</u>                  | <u>P</u>       | <u>A</u>                        | — | <u>040</u>               | <u>1</u>       | <u>3</u>                                        | <u>17</u>                                             | <u>M</u>                          | <u>S</u>     | <u>A</u>                                               |
|----------|----------------------------|----------------|---------------------------------|---|--------------------------|----------------|-------------------------------------------------|-------------------------------------------------------|-----------------------------------|--------------|--------------------------------------------------------|
| Ruud     | Series<br>92%<br>Efficient | Motor -<br>PSC | Design Series<br>A = 1st Design |   | Input<br>BTU/HR          | Stage - Single | Airflow<br>3 - Up to 3 Tons<br>5 - Up to 5 Tons | Cabinet Width<br>17 = 17.5"<br>21 =21.0"<br>24 =24.5" | Configuration -<br>Multi-Position | S = Standard | Revision -<br>Marketing<br>(A - First Time<br>Release) |
|          |                            |                |                                 |   | 040 = 42,000 [12.31 kW]  |                |                                                 |                                                       |                                   |              |                                                        |
|          |                            |                |                                 |   | 060 = 56,000 [16.41 kW]  |                |                                                 |                                                       |                                   |              |                                                        |
|          |                            |                |                                 |   | 070 = 70,000 [20.51 kW]  |                |                                                 |                                                       |                                   |              |                                                        |
|          |                            |                |                                 |   | 085 = 84,000 [24.62 kW]  |                |                                                 |                                                       |                                   |              |                                                        |
|          |                            |                |                                 |   | 100 = 98,000 [28.72 kW]  |                |                                                 |                                                       |                                   |              |                                                        |
|          |                            |                |                                 |   | 115 = 112,000 [32.82 kW] |                |                                                 |                                                       |                                   |              |                                                        |

[ ] Designates Metric Conversions



### UNIT DIMENSIONS (CLEARANCE TO COMBUSTIBLES)

| MODEL<br>R92P | LEFT<br>SIDE | MINIMUM CLEARANCE (IN.) [mm] |      |        |        |      | SHIP WGTs.<br>(LBS.) [kg] | FLANGE DIMENSIONS |                |                |
|---------------|--------------|------------------------------|------|--------|--------|------|---------------------------|-------------------|----------------|----------------|
|               |              | RIGHT<br>SIDE                | BACK | TOP    | FRONT  | VENT |                           | A                 | B              | C              |
| 040           | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 123.5 [56]                | 17 1/2 [445]      | 16 17/64 [413] | 16 13/64 [412] |
| 060           | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 128 [58]                  | 17 1/2 [445]      | 16 17/64 [413] | 16 13/64 [412] |
| 070           | 0            | 0                            | 0    | 1 [25] | 2 [51] | 0    | 132 [60]                  | 17 1/2 [445]      | 16 17/64 [413] | 16 13/64 [412] |
| 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

| MODEL            | BLOWER SIZE<br>[mm]    | MOTOR<br>H.P.<br>[W] | BLOWER<br>SPEED | CFM [L/s] AIR DELIVERY<br>EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [kPa] |            |            |            |            |            |            |            |
|------------------|------------------------|----------------------|-----------------|------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|
|                  |                        |                      |                 | 0.1 [.02]                                                                    | 0.2 [.05]  | 0.3 [.07]  | 0.4 [.10]  | 0.5 [.12]  | 0.6 [.15]  | 0.7 [.17]  | 0.8 [.19]  |
| R92PA<br>0401317 | 11 x 7<br>[279 x 178]  | 1/4<br>[187]         | LOW             | 732 [345]                                                                    | 695 [328]  | 669 [316]  | 639 [301]  | 605 [285]  | 547 [258]  | 512 [242]  | 487 [230]  |
|                  |                        |                      | MED-LO          | 875 [413]                                                                    | 845 [399]  | 820 [387]  | 792 [374]  | 766 [361]  | 726 [342]  | 659 [311]  | 605 [286]  |
|                  |                        |                      | MED-HI*         | 1073 [506]                                                                   | 1049 [495] | 1004 [474] | 975 [460]  | 943 [445]  | 900 [425]  | 864 [408]  | 798 [376]  |
|                  |                        |                      | HIGH            | 1279 [603]                                                                   | 1239 [584] | 1213 [572] | 1174 [554] | 1121 [529] | 1069 [504] | 1033 [487] | 980 [462]  |
| R92PA<br>0601317 | 11 x 8<br>[279 x 203]  | 1/2<br>[373]         | LOW             | 830 [392]                                                                    | 793 [374]  | 755 [356]  | 705 [333]  | 654 [308]  | 599 [283]  | 544 [257]  | 496 [234]  |
|                  |                        |                      | MED-LO          | 940 [443]                                                                    | 908 [428]  | 875 [413]  | 821 [387]  | 766 [361]  | 710 [333]  | 653 [308]  | 584 [275]  |
|                  |                        |                      | MED-HI*         | 1168 [551]                                                                   | 1139 [537] | 1109 [523] | 1060 [500] | 1010 [476] | 942 [444]  | 874 [412]  | 802 [378]  |
|                  |                        |                      | HIGH            | 1421 [670]                                                                   | 1385 [653] | 1349 [636] | 1291 [609] | 1232 [581] | 1147 [541] | 1062 [501] | 976 [460]  |
| R92PA<br>0701317 | 11 x 8<br>[279 x 203]  | 1/2<br>[373]         | LOW             | 852 [402]                                                                    | 827 [390]  | 802 [378]  | 752 [355]  | 701 [331]  | 662 [312]  | 623 [294]  | 580 [274]  |
|                  |                        |                      | MED-LO          | 986 [465]                                                                    | 955 [450]  | 923 [435]  | 883 [417]  | 843 [398]  | 790 [373]  | 737 [348]  | 686 [324]  |
|                  |                        |                      | MED-HI*         | 1238 [584]                                                                   | 1211 [571] | 1183 [558] | 1139 [537] | 1094 [516] | 1036 [489] | 978 [461]  | 897 [423]  |
|                  |                        |                      | HIGH            | 1493 [704]                                                                   | 1452 [685] | 1410 [665] | 1364 [643] | 1318 [622] | 1257 [593] | 1195 [564] | 1084 [511] |
| R92PA<br>0851521 | 11 x 10<br>[279 x 254] | 3/4<br>[559]         | LOW             | 1313 [619]                                                                   | 1275 [601] | 1236 [583] | 1221 [576] | 1184 [558] | 1141 [538] | 1098 [518] | 1053 [497] |
|                  |                        |                      | MED-LO          | 1488 [702]                                                                   | 1452 [685] | 1415 [667] | 1384 [653] | 1328 [626] | 1279 [603] | 1229 [580] | 1170 [552] |
|                  |                        |                      | MED-HI*         | 1732 [817]                                                                   | 1704 [804] | 1676 [791] | 1630 [769] | 1579 [745] | 1498 [707] | 1417 [668] | 1343 [633] |
|                  |                        |                      | HIGH            | 1983 [935]                                                                   | 1929 [910] | 1874 [884] | 1810 [854] | 1742 [822] | 1663 [784] | 1583 [747] | 1477 [697] |
| R92PA<br>1001521 | 11 x 10<br>[279 x 254] | 3/4<br>[559]         | LOW             | 1329 [627]                                                                   | 1313 [619] | 1296 [611] | 1260 [594] | 1224 [577] | 1171 [552] | 1117 [527] | 1049 [495] |
|                  |                        |                      | MED-LO          | 1535 [724]                                                                   | 1498 [707] | 1461 [689] | 1422 [671] | 1382 [652] | 1325 [625] | 1268 [598] | 1203 [567] |
|                  |                        |                      | MED-HI*         | 1796 [847]                                                                   | 1748 [825] | 1700 [802] | 1656 [781] | 1612 [760] | 1536 [725] | 1460 [689] | 1370 [646] |
|                  |                        |                      | HIGH            | 2019 [952]                                                                   | 1961 [925] | 1903 [898] | 1843 [869] | 1782 [841] | 1687 [796] | 1592 [751] | 1489 [702] |
| R92PA<br>1151524 | 11 x 11<br>[279 x 279] | 3/4<br>[559]         | LOW             | 1249 [589]                                                                   | 1234 [582] | 1219 [575] | 1183 [558] | 1146 [541] | 1112 [525] | 1078 [508] | 1017 [480] |
|                  |                        |                      | MED-LO          | 1440 [679]                                                                   | 1429 [674] | 1417 [668] | 1381 [651] | 1344 [634] | 1313 [619] | 1281 [604] | 1221 [576] |
|                  |                        |                      | MED-HI*         | 1770 [835]                                                                   | 1750 [825] | 1730 [816] | 1696 [800] | 1662 [784] | 1611 [760] | 1559 [735] | 1463 [690] |
|                  |                        |                      | HIGH            | 2123 [1001]                                                                  | 2077 [980] | 2031 [958] | 1983 [935] | 1934 [912] | 1856 [875] | 1777 [838] | 1665 [785] |

\*Factory setting for heat all grey cells are valid heating settings. Do not use speed tabs and/or static pressure which do not fall into the grey cells on this table.

NOTE: Unit tested without filters.

[ ] 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)

**RETURN AIR PLENUM:** RXGR-C17B  
RXGR-C21B  
RXGR-C24B

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

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

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

| FILTER RACK FILTER SIZES* INCHES [mm] |                                                    |                                                    |                        |
|---------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------|
| MODEL                                 | RXGF-CB<br>(UPFLOW/<br>HORIZONTAL)                 | RXGF-CD<br>(UPFLOW)                                | RXGF-CC<br>(DOWNFLOW)  |
| R92PA040                              | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 12 x 20<br>[305 x 508] |
| R92PA060                              | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 12 x 20<br>[305 x 508] |
| R92PA070                              | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 12 x 20<br>[305 x 508] |
| R92PA085                              | 19 <sup>1</sup> / <sub>4</sub> x 25<br>[489 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 12 x 20<br>[305 x 508] |
| R92PA100                              | 19 <sup>1</sup> / <sub>4</sub> x 25<br>[489 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 12 x 20<br>[305 x 508] |
| R92PA115                              | 22 <sup>3</sup> / <sub>4</sub> x 25<br>[578 x 635] | 15 <sup>3</sup> / <sub>4</sub> x 25<br>[400 x 635] | 14 x 20<br>[356 x 508] |

## INDOOR COIL CASINGS

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

## FOR HIGH ALTITUDES:

**NOTE:** For Canadian installations only, an optional derate (manifold gas pressure reduction) method may be used to adjust the furnace for altitude. See Installation Instructions for more information. This optional method may **NOT** be used for U.S. installations. See installation instructions as appropriate orifice change is required.

**L.P. CONVERSION KIT:** RXGJ-FP33

**RETURN AIR PLENUM KIT:** RXGR-C17B  
RXGR-C21B  
RXGR-C24B

**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

**GENERAL TERMS OF LIMITED WARRANTY\***

Ruud 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







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

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