Ruud *Achiever Plus*® Series
Multi position Gas Furnaces



R95T- Series

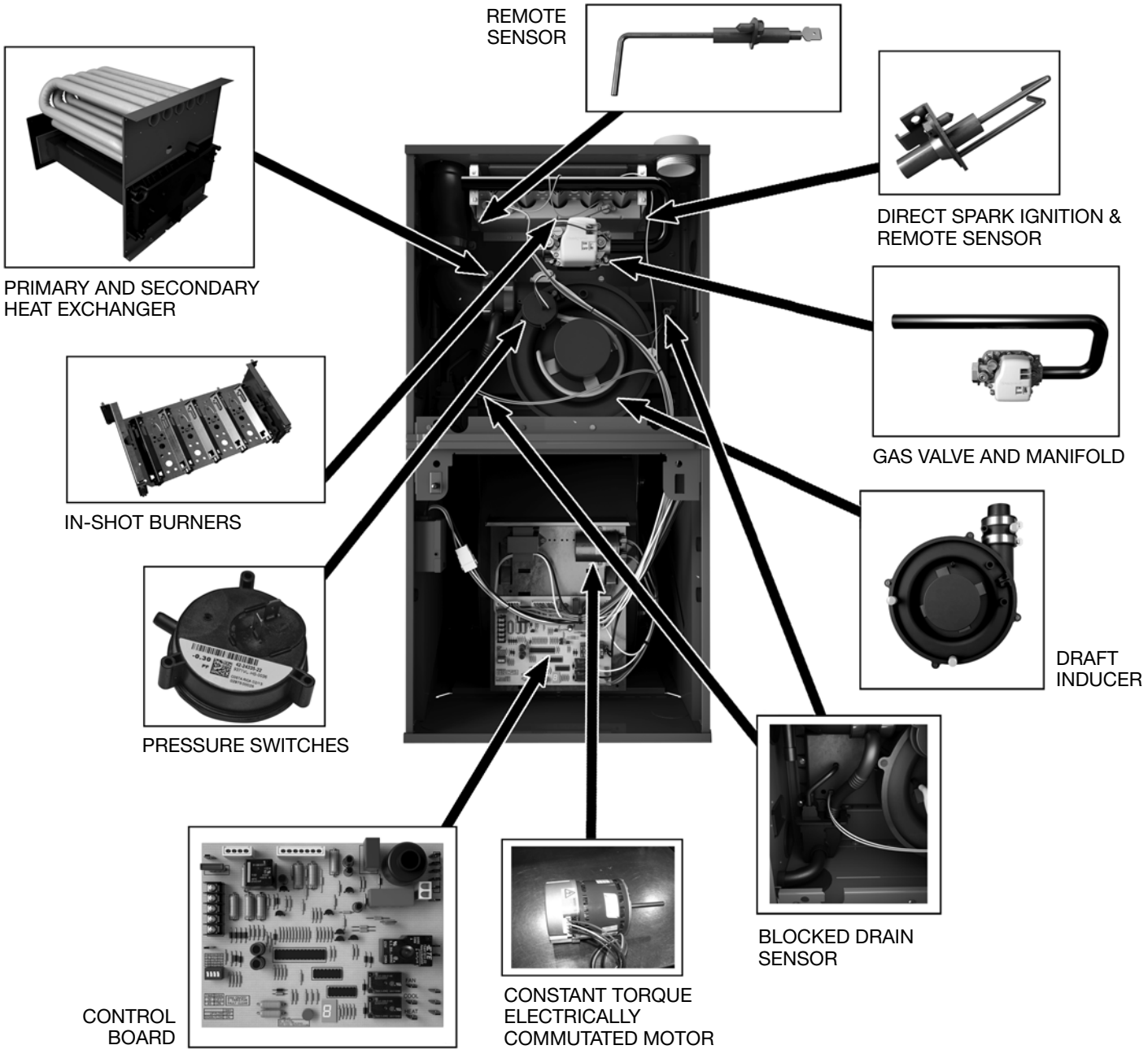
95% A.F.U.E.†
Input Rates from 40 to 115 kBTU
[11.72 to 33.71 kW]

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

- 95% 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
- Constant Torque electrically commutated motor
- Quarter turn fasteners for tool less access
- Integrated control boards feature dip switches for easy system set up
- Self priming condensate trap
- Solid bottom included

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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; solid bottom; 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 Constant Torque electrically commutated 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	R95T(-)0401317MSA	R95T(-)0601317MSA	R95T(-)0701317MSA	R95T(-)081521MSA	R95T(-)1001521MSA	R95T(-)1151524MSA
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 [28.72]	112,000 [32.82]
HEATING CAPACITY BTU/HR [kW]	41,000 [12.02]	54,000 [15.83]	68,000 [19.93]	82,000 [24.03]	95,000 [27.84]	108,000 [31.65]
HIGH ALTITUDE OUTPUT 10% DERATE [kW] ②	36,288 [10.64]	48,384 [14.18]	60,480 [17.72]	72,576 [21.28]	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 11 [279 x 279]
MOTOR H.P. [W]– TYPE	1/2 [373]-5-Contstant Torque ECM	1/2 [373]-5-Contstant Torque ECM	1/2 [373]-5-Contstant Torque ECM	1 [746]-5-Contstant Torque ECM	1 [746]-5-Contstant Torque ECM	1 [746]-5-Contstant Torque ECM
MIN. CIRCUIT AMPACITY	8.00	10.00	10.00	13.00	15.00	14.00
MIN. OVERLOAD PROTECTION DEVICE	15.00	15.00	15.00	20.00	20.00	20.00
MAX. OVERLOAD PROTECTION DEVICE	15.00	15.00	15.00	20.00	20.00	20.00
MOTOR FULL LOAD AMPS	4.0	6.8	6.8	8.3	8.3	8.3
HEATING SPEED	MED-LOW	MED-LOW	MEDIUM	MED-LOW	MED-LOW	MED-LOW
COOLING SPEED	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
MINIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa]	.18 [.045]	.20 [.050]	.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]
HEATING CFM @ .2" [.049 kPa] W.C. E.S.P. [L/s]	982 [463]	913 [431]	1113 [525]	1574 [743]	1651 [779]	1524 [719]
COOLING CFM @ .5" [.124 kPa] W.C. E.S.P. [L/s]	1239 [585]	1227 [579]	1198 [565]	1833 [865]	1975 [932]	1748 [825]
TEMPERATURE RISE-HIGH FIRE RANGE IN DEGREES °F [°C]	25 - 55 [14 -31]	35 - 65 [19 - 36]	40 - 70 [22 - 39]	35 - 65 [19 - 36]	35 - 65 [19 - 36]	45 - 75 [25 - 42]
APPROX. SHIPPING WEIGHT (LBS.) [kg]	123.5 [56]	128 [58]	132 [60]	147.5 [67]	152 [69]	165 [75]
AFUE ③	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%

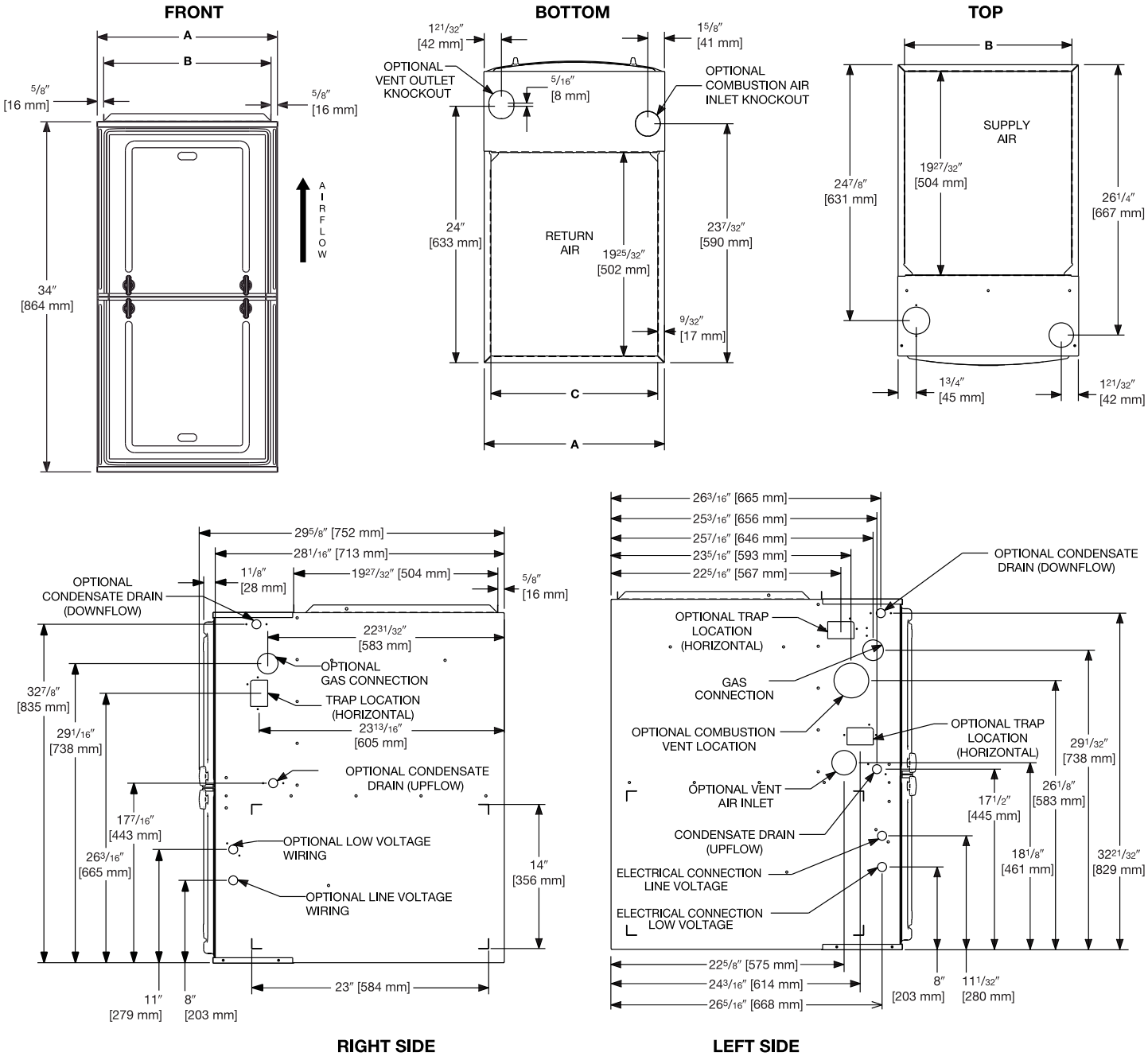
NOTES: All models are 115V, 60HZ, 1 phase Gas connection size for all models is 1/2" [13 mm] N.P.T.
① Installation instructions for high altitude derate.
② Canadian installations only.
③ In accordance with D.O.E. test procedures.
*S=Standard Models
NOTE: Standard model complies with California low nox requirements.

[ ] Designates Metric Conversions

Model Number Identification

R	95	T	A	—	040	1	3	17	M	S	A
Ruud	Series 95% Efficient	Motor - Constant Torque	Design Series A = 1st Design B = 2nd Design C = 3rd Design		Input BTU/HR 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]	Stage - Single	Airflow 3 - Up to 3 Tons 5 - Up to 5 Tons	Cabinet Width 17 = 17.5" 21 =21.0" 24 =24.5"	Configuration - Multi-Position	S = Standard	Revision - Marketing (A - First Time Release)

[ ] Designates Metric Conversions



UNIT DIMENSIONS (CLEARANCE TO COMBUSTIBLES)

MODEL R95T	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]
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

FURNACE MODEL	BLOWER SIZE [mm]	MOTOR H.P. [W]	MOTOR TAP	MOTOR LEAD WIRE COLOR	SPEED	CFM [L/s] AIR DELIVERY 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]	0.9 [.22]
(-)95T(-) 0401317MSA	11 x 7 [279 x 178]	1/2 [373]	1	Red	Low	874 [413]	820 [387]	765 [361]	710 [335]	658 [311]	575 [271]	523 [247]	482 [228]	448 [211]
			2	Yellow	Medium Low	1029 [486]	982 [463]	930 [439]	881 [416]	833 [393]	780 [368]	716 [338]	665 [314]	621 [293]
			3	Purple	Medium	1098 [518]	1055 [498]	1008 [476]	962 [454]	920 [434]	870 [411]	822 [388]	755 [356]	705 [332]
			4	Blue	Medium High	1253.6 [592]	1209.1 [571]	1164.4 [550]	1128.1 [532]	1082.2 [511]	1043.7 [493]	1000 [472]	960 [453]	907.2 [428]
			5	Black	High	1380.6 [652]	1345.5 [635]	1313.1 [620]	1276 [602]	1239.2 [585]	1202.3 [567]	1166 [550]	1132.7 [535]	1098.9 [519]
(-)95T(-) 0601317MSA	11 x 8 [279 x 203]	1/2 [373]	1	Red	Low	818 [386]	766 [362]	720 [340]	668 [315]	594 [280]	548 [259]	494 [233]	444 [210]	416 [196]
			2	Yellow	Medium Low	968 [457]	913 [431]	885 [418]	841 [397]	796 [376]	739 [349]	685 [323]	641 [303]	596 [281]
			3	Purple	Medium	1018 [480]	981 [463]	931 [439]	903 [426]	860 [406]	815 [385]	756 [357]	703 [332]	656 [310]
			4	Blue	Medium High	1173 [554]	1142 [539]	1108 [523]	1059 [500]	1025 [484]	989 [467]	951 [449]	912 [430]	855 [404]
			5	Black	High	1338 [631]	1327 [626]	1288 [608]	1245 [588]	1227 [579]	1193 [563]	1165 [550]	1134 [535]	1099 [519]
(-)95T(-) 0701317MSA	11 x 8 [279 x 203]	1/2 [373]	1	Red	Low	947 [447]	908 [429]	871 [411]	834 [394]	796 [376]	755 [356]	716 [338]	681 [321]	656 [310]
			2	Yellow	Medium Low	1044 [493]	997 [471]	968 [457]	934 [441]	902 [426]	862 [407]	828 [391]	795 [375]	765 [361]
			3	Purple	Medium	1148 [542]	1113 [525]	1092 [515]	1056 [498]	1029 [486]	995 [470]	962 [454]	928 [438]	895 [422]
			4	Blue	Medium High	1213 [572]	1180 [557]	1155 [545]	1126 [531]	1096 [517]	1062 [501]	1032 [487]	993 [469]	969 [457]
			5	Black	High	1324 [625]	1283 [606]	1254 [592]	1221 [576]	1198 [565]	1169 [552]	1141 [538]	1107 [522]	1080 [510]
(-)95T(-) 0851521MSA	11 x 10 [279 x 254]	1 [746]	1	Red	Low	1406 [664]	1355 [640]	1300 [614]	1230 [581]	1175 [555]	1111 [524]	1059 [500]	1006 [475]	941 [444]
			2	Yellow	Medium Low	1656 [782]	1621 [765]	1574 [743]	1533 [723]	1485 [701]	1434 [677]	1375 [649]	1328 [627]	1281 [605]
			3	Purple	Medium	1692 [799]	1653 [780]	1606 [758]	1557 [735]	1508 [712]	1459 [689]	1409 [665]	1363 [643]	1312 [619]
			4	Blue	Medium High	1881 [888]	1831 [864]	1804 [851]	1757 [829]	1713 [808]	1668 [787]	1628 [768]	1568 [740]	1528 [721]
			5	Black	High	1978 [934]	1942 [917]	1906 [900]	1862 [879]	1833 [865]	1793 [846]	1751 [826]	1702 [803]	1652 [780]
(-)95T(-) 1001521MSA	11 x 10 [279 x 254]	1 [746]	1	Red	Low	1637 [773]	1593 [752]	1545 [729]	1494 [705]	1441 [680]	1382 [652]	1329 [627]	1274 [601]	1236 [583]
			2	Yellow	Medium Low	1745 [824]	1697 [801]	1651 [779]	1600 [755]	1560 [736]	1500 [708]	1443 [681]	1394 [658]	1342 [633]
			3	Purple	Medium	1766 [833]	1723 [813]	1686 [796]	1633 [771]	1585 [748]	1537 [725]	1482 [699]	1428 [674]	1380 [651]
			4	Blue	Medium High	1967 [928]	1929 [910]	1895 [894]	1852 [874]	1805 [852]	1754 [828]	1708 [806]	1668 [787]	1612 [761]
			5	Black	High	2137 [1009]	2102 [992]	2062 [973]	2020 [953]	1975 [932]	1946 [918]	1908 [900]	1817 [858]	1685 [795]
(-)95T(-) 1151524MSA	11 x 11 [279 x 279]	1 [746]	1	Red	Low	1476 [697]	1432 [676]	1406 [664]	1332 [629]	1291 [609]	1247 [589]	1207 [570]	1163 [549]	1117 [527]
			2	Yellow	Medium Low	1615 [762]	1568 [740]	1524 [719]	1487 [702]	1452 [685]	1401 [661]	1356 [640]	1325 [625]	1278 [603]
			3	Purple	Medium	1709 [807]	1674 [790]	1633 [771]	1591 [751]	1551 [732]	1519 [717]	1477 [697]	1436 [678]	1397 [659]
			4	Blue	Medium High	1772 [836]	1746 [824]	1706 [805]	1667 [787]	1627 [768]	1593 [752]	1553 [733]	1521 [718]	1482 [699]
			5	Black	High	1887 [891]	1852 [874]	1828 [863]	1784 [842]	1748 [825]	1713 [808]	1678 [792]	1648 [778]	1619 [764]

*This table is for reference. The technician/installer must verify furnace is operating within the published rise range before completing the installation.

[ ] 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

FILTER RACK FILTER SIZES* INCHES [mm]			
MODEL	**RXGF-CB (UPFLOW/ HORIZONTAL)**	**RXGF-CD (UPFLOW)**	**RXGF-CC (DOWNFLOW)**
R95T(-)040	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [305 x 508]
R95T(-)060	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [305 x 508]
R95T(-)070	15 3/4 x 25 [400 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [305 x 508]
R95T(-)085	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [305 x 508]
R95T(-)100	19 1/4 x 25 [489 x 635]	15 3/4 x 25 [400 x 635]	14 x 20 [305 x 508]
R95T(-)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

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

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 .....Limited Lifetime

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

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