



TABLE OF CONTENTS

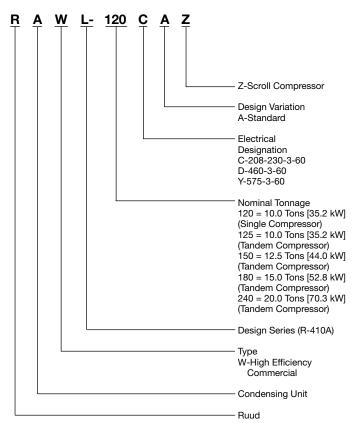
| Model Number Designation | 2 |
|---------------------------------|-----|
| Accessories | 3 |
| Standard Unit Features | 3-4 |
| Selection Procedure | |
| Matched Systems | 5 |
| Gross Capacity and Power Tables | 6-7 |
| Unit Dimensions | 8-9 |
| AHRI Ratings | 10 |
| | |

| Electrical & Physical Data Table 1 Cooling Performance Data 12-1 Installation 1 Limited Warranty 1 Piping 17-1 Wiring Schematic 19-2 Sequence of Operation 2 Sample Specifications 2 | 5 6 8 0 1 |
|--|-----------------------|
| Sample Specifications2 | 2 |

WHY USE A HIGH EFFICIENCY, AIR COOLED SPLIT SYSTEM?

- The size ranges offered by Ruud[®] allow you to mix or match components to meet actual job requirements, thus eliminating the need to use oversized or undersized equipment. Equipment sized to meet the actual load will provide better operating economy, better humidity control, and longer equipment life.
- With an air cooled system, you have no water or sewer connections to make, and no troublesome and costly water treatment problems.
- Since the condensing unit is located outside the building, and the low profile air handling unit can be installed in the drop ceiling or in the conditioned space, you will not need a separate equipment room which takes up valuable building space.
- Remote mounting of the already quiet condensing unit keeps the compressor and condenser fan noise outside, and the vertical discharge fans carry the sound up and away from the surrounding area.
- Because of the simple design of the Ruud condensing unit, installation is quick and simple, and very little maintenance is required.
- Energy Efficiency Ratings (EER's) to 11.2!

MODEL NUMBER DESIGNATION



[] Designates Metric Conversions

CONDENSING UNIT ACCESSORIES

| ACCESSORY DESCRIPTION | MODEL NUMBER | SIZES USED ON |
|-----------------------------|--------------|---------------|
| Sight Glass | RXAG-A048 | 120, 125 |
| Sight Glass | RXAG-A020 | 180, 240 |
| Liquid Line Solenoid Valve* | RXAV-CD120 | 120, 125, 150 |
| Liquid Line Solenoid Valve* | RXAV-CD180 | 180, 240 |

*Cannot be used as a pump down solenoid.

STANDARD UNIT FEATURES

CABINET—Galvanized steel with a durable powder paint finish. Stamped louvered panels offer 100% protection for the condenser coil.

COMPRESSOR—The Scroll Compressor is hermetically sealed with internal overload protection and durable insulation on motor windings. The entire compressor is mounted on rubber grommets to reduce vibration and noise.

CONDENSER COIL—Constructed with copper tubes and aluminum fins mechanically bonded to the tubes for maximum heat transfer capabilities.

BASE PAN-Galvanized steel with powder paint finish.

REFRIGERANT CONNECTIONS—Field piping connections are made through a fixed panel. This allows removal of access panels after piping connections have been made.

CRANKCASE HEATERS—Standard, all models. Prevents refrigerant migration to compressor(s).

LOW AMBIENT CONTROL—A pressure sensitive fan cycling control to allow unit operation down to 0°F [–17.8°C] is standard.

SERVICE VALVES—Standard on liquid and suction lines. Allows outdoor section to be isolated from indoor coil.

SERVICE ACCESS—Control box as well as the compressor and other refrigerant controls are accessible through access panels. Control box may be open without affecting the normal operation of the unit. Condenser fan motors are accessible by removing wire grilles. **FILTER DRIER**—Standard (uninstalled) on all models. Helps ensure refrigerant cleanliness.

TRANSFORMER—Step-down type, line to 24 volts. Provides control circuit voltage.

CONTACTOR—The contactor is an electrical switch which operates the compressor and condenser fans.

HIGH PRESSURE CONTROL—Opens the contactor circuit on high refrigerant pressure; manual reset.

LOW PRESSURE CONTROL—Stops compressor operation in the event of loss of refrigerant.

CONDENSER FAN MOTOR (Direct Drive)—Ball bearing 1075 RPM motors are mounted to minimize vibration and noise problems. These are permanent split capacitor types.

TESTING—All units are run tested at the factory prior to shipment. Units are shipped with a holding charge of nitrogen.

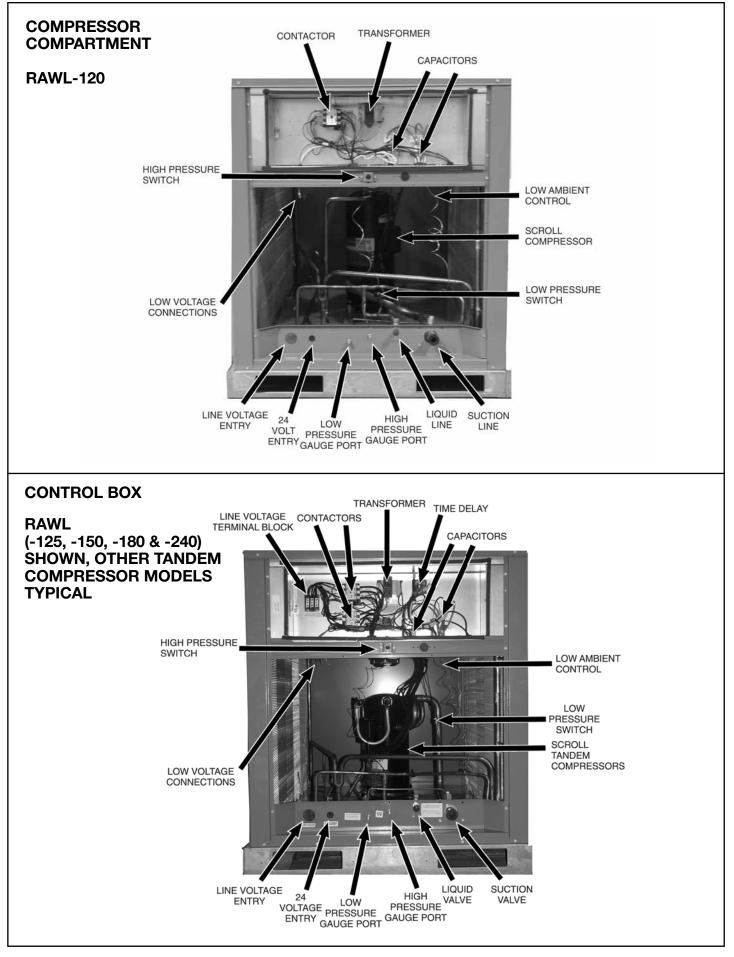
EXTERNAL GAUGE PORTS—Allows pressures to be checked without removing access panel.

COIL LOUVERS—Helps prevent damage to outdoor coils.

TIME DELAY—Supplied on tandem compressor models to provide a delay between stages.

EQUIPMENT GROUND-Lug for field connection of ground wire.

10, 12.5, 15 & 20 TON [35.2, 44.0, 52.8 & 70.3 kW] MODELS



SELECTION PROCEDURE – MATCHED SYSTEMS

Example 1: Determine the Net System Performance of Condensing Unit RAWL-120 with RHGL-120 at 3800 CFM [1793.4 L/s] at .30" external static pressure [.07 kPa], 80°F [26.7°C] DB/67°F [19.4°C] WB entering indoor air and 95°F [35.0°C] DB outdoor ambient.

From Cooling Performance Data, Condensing Unit RAWL-120 with Air Handler RHGL-120 Total Cap. (gross) = 121.8 x 1000 = 121,800 BTUH [35.69 kW] Sens. Cap. (gross) = 91.3 x 1000 = 91,300 BTUH [26.76 kW] Power (gross) = 9.1 x 1000 = 9,100 WATTS From Commercial Air Handler Form Airflow Performance Data. Power = 1,455 WATTS (K-Drive, 2 turns open) = 1,455 x 3,412 = 4,964 BTUH [1.4 kW] Therefore, the Net Performance is: Total Cap. (net) = 121,800 - 4,964 = 116,836 BTUH [34.24 kW] Sens. Cap (net) = 91,300 - 4,964 = 86,336 BTUH [34.24 kW] Power (net) = 91,000 + 1,455 = 10,555 WATTS EER = 116,836 ÷ 10,555 = 11.07 BTUH/WATT [3.24 w/w]

Example 2: Determine the Sensible Net Capacity at 75°F [23.9°C] DB entering indoor air with the other conditions from Example 1 being the same.

From Cooling Performance Data, Condensing Unit RAWL-120 with Air Handler RHGL-120 Sens. Cap (net) = 86,336 BTUH [25.30 kW] (from Example 1)
Adjust Capacity for temperature other than 80°F [26.7°C] entering air: adjustment: [1.10 x 3,800 x (1-.16) x (75-80]) = - 17,556 BTUH [5.14 kW]
Therefore, Sensible Capacity (net) at 75°F [23.9°C] entering air is: 86,336 - 17,556 = 68,780 BTUH [20.15 kW] (Sensible)

CONDENSING UNIT – GROSS CAPACITY AND POWER

| | | | RAWL-120 | | | |
|--------------------|---------------|------|-------------------|------------|---------------|------|
| °F [°C] | | SAT | JRATED EVAPORATOR | TEMPERATUR | E °F [°C] | |
| OUTDOOR AMBIENT | 40 [4.4 | 4] | 45 [7. | 2] | 50 [10. | .0] |
| TEMPERATURE | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 118.0 [34.58] | 7.2 | 129.4 [37.91] | 7.3 | 141.2 [41.37] | 7.5 |
| 80 [27] | 114.6 [33.59] | 7.5 | 125.7 [36.83] | 7.7 | 137.2 [40.20] | 7.9 |
| 85 [29] | 111.2 [32.59] | 7.9 | 122.0 [35.75] | 8.1 | 133.2 [39.03] | 8.2 |
| 90 [32] | 107.8 [31.60] | 8.3 | 118.3 [34.66] | 8.5 | 129.2 [37.87] | 8.6 |
| 95 [35] | 104.4 [30.60] | 8.7 | 114.6 [33.58] | 8.9 | 125.3 [36.70] | 9.0 |
| 100 [38] | 101.0 [29.61] | 9.1 | 110.9 [32.50] | 9.3 | 121.3 [35.53] | 9.4 |
| 105 [41] | 97.6 [28.61] | 9.5 | 107.2 [31.42] | 9.7 | 117.3 [34.37] | 9.8 |
| 110 [43] | 94.3 [27.62] | 9.9 | 103.5 [30.34] | 10.1 | 113.3 [33.20] | 10.2 |
| 115 [46] | 90.9 [26.62] | 10.3 | 99.8 [29.25] | 10.4 | 109.3 [32.03] | 10.6 |

| | | | RAWL-125 | | | |
|-------------|---------------|------|--------------------|--------------|---------------|------|
| °F [°C] | | SATU | RATED EVAPORATOR T | EMPERATURE ° | F [°C] | |
| | 40 [4.4] | | 45 [7.2] | | 50 [10.0] | |
| TEMPERATURE | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 117.5 [34.43] | 7.0 | 128.6 [37.68] | 7.1 | 140.3 [41.12] | 7.2 |
| 80 [27] | 114.0 [33.39] | 7.4 | 124.9 [36.59] | 7.5 | 136.4 [39.95] | 7.7 |
| 85 [29] | 110.4 [32.35] | 7.9 | 121.2 [35.50] | 8.0 | 132.4 [38.78] | 8.1 |
| 90 [32] | 106.9 [31.31] | 8.3 | 117.4 [34.41] | 8.4 | 128.4 [37.62] | 8.5 |
| 95 [35] | 103.3 [30.27] | 8.7 | 113.7 [33.32] | 8.8 | 124.4 [36.45] | 9.0 |
| 100 [38] | 99.8 [29.23] | 9.2 | 110.0 [32.23] | 9.3 | 120.4 [35.28] | 9.4 |
| 105 [41] | 96.2 [28.19] | 9.6 | 106.3 [31.14] | 9.7 | 116.4 [34.11] | 9.9 |
| 110 [43] | 92.7 [27.15] | 10.1 | 102.5 [30.05] | 10.1 | 112.4 [32.94] | 10.3 |
| 115 [46] | 89.1 [26.11] | 10.5 | 98.8 [28.96] | 10.6 | 108.4 [31.77] | 10.7 |

| | | | RAWL-150 | | | |
|-------------|---------------|------|---------------------|---------------|---------------|------|
| °F [°C] | | SATU | RATED EVAPORATOR TI | EMPERATURE °I | F [°C] | |
| | 40 [4.4] | | 45 [7.2] | | 50 [10.0] | |
| TEMPERATURE | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 151.6 [44.42] | 9.5 | 164.3 [48.13] | 9.6 | 177.2 [51.90] | 9.7 |
| 80 [27] | 147.0 [43.06] | 10.0 | 159.4 [46.69] | 10.1 | 172.0 [50.39] | 10.3 |
| 85 [29] | 142.3 [41.70] | 10.6 | 154.5 [45.26] | 10.7 | 166.8 [48.88] | 10.8 |
| 90 [32] | 137.7 [40.33] | 11.1 | 149.5 [43.82] | 11.2 | 161.7 [47.36] | 11.3 |
| 95 [35] | 133.0 [38.97] | 11.6 | 144.6 [42.38] | 11.7 | 156.5 [45.85] | 11.9 |
| 100 [38] | 128.3 [37.61] | 12.1 | 139.7 [40.94] | 12.3 | 151.3 [44.34] | 12.4 |
| 105 [41] | 123.7 [36.24] | 12.7 | 134.8 [39.50] | 12.8 | 146.2 [42.82] | 12.9 |
| 110 [43] | 119.0 [34.88] | 13.2 | 129.9 [38.07] | 13.3 | 141.0 [41.31] | 13.4 |
| 115 [46] | 114.4 [33.51] | 13.7 | 125.0 [36.63] | 13.8 | 135.8 [39.80] | 14.0 |

KW – Condensing Unit Power (Compressor + Fan) MBH-Gross Capacity x 1000 BTUH [kW]

NOTES: 1. All values at approximately 20°F [11.1°C] subcooling 2. Data includes 25 feet [7.62 m] of recommended vapor and liquid lines

CONDENSING UNIT-GROSS CAPACITY AND POWER (cont.)

| | | | RAWL-180 | | | |
|--------------------|---------------|------|---------------------|--------------|---------------|------|
| °F [°C] | | SATU | JRATED EVAPORATOR T | EMPERATURE ° | F [°C] | |
| OUTDOOR AMBIENT | 40 [4.4] | | 45 [7.2] | | 50 [10.0] |] |
| TEMPERATURE | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 200.8 [58.84] | 11.4 | 216.3 [63.38] | 11.8 | 222.7 [65.24] | 12.2 |
| 80 [27] | 194.3 [56.94] | 12.2 | 209.8 [61.47] | 12.6 | 217.8 [63.82] | 12.9 |
| 85 [29] | 187.8 [55.03] | 13.0 | 203.3 [59.56] | 13.3 | 213.0 [62.40] | 13.7 |
| 90 [32] | 181.3 [53.12] | 13.8 | 196.7 [57.64] | 14.1 | 208.1 [60.98] | 14.5 |
| 95 [35] | 174.8 [51.22] | 14.5 | 190.2 [55.73] | 14.8 | 203.3 [59.56] | 15.2 |
| 100 [38] | 168.3 [49.31] | 15.3 | 183.7 [53.82] | 15.6 | 198.4 [58.14] | 16.0 |
| 105 [41] | 161.8 [47.40] | 16.1 | 177.1 [51.90] | 16.3 | 193.6 [56.72] | 16.7 |
| 110 [43] | 155.3 [45.50] | 16.9 | 170.6 [49.99] | 17.1 | 188.7 [55.30] | 17.5 |
| 115 [46] | 148.8 [43.59] | 17.6 | 164.1 [48.08] | 17.8 | 183.9 [53.88] | 18.2 |

| | | | RAWL-240 | | | |
|--------------------|---------------|------|---------------------|-------------------------|---------------|------|
| °F [°C] | | SATU | JRATED EVAPORATOR T | EMPERATURE [°] | °F [°C] | |
| OUTDOOR AMBIENT | 40 [4.4] | | 45 [7.2] | | 50 [10.0 |] |
| TEMPERATURE | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 272.7 [79.90] | 17.6 | 294.3 [86.23] | 18.0 | 316.7 [92.79] | 18.5 |
| 80 [27] | 264.1 [77.39] | 18.5 | 285.6 [83.67] | 18.9 | 307.7 [90.14] | 19.4 |
| 85 [29] | 255.6 [74.88] | 19.4 | 276.9 [81.12] | 19.9 | 298.6 [87.50] | 20.3 |
| 90 [32] | 247.0 [72.37] | 20.4 | 268.1 [78.56] | 20.8 | 289.6 [84.86] | 21.3 |
| 95 [35] | 238.5 [69.87] | 21.3 | 259.4 [76.01] | 21.7 | 280.6 [82.22] | 22.2 |
| 100 [38] | 229.9 [67.36] | 22.2 | 250.7 [73.45] | 22.6 | 271.6 [79.58] | 23.1 |
| 105 [41] | 221.3 [64.85] | 23.1 | 242.0 [70.89] | 23.5 | 262.6 [76.94] | 24.1 |
| 110 [43] | 212.8 [62.35] | 24.0 | 233.2 [68.34] | 24.4 | 253.6 [74.29] | 25.0 |
| 115 [46] | 204.2 [59.84] | 24.9 | 224.5 [65.78] | 25.3 | 244.5 [71.65] | 25.9 |

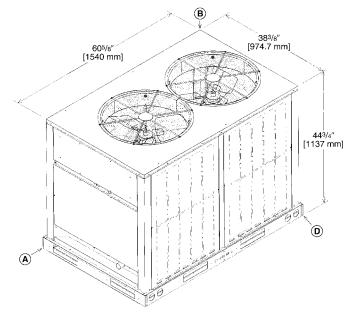
KW — Condensing Unit Power (Compressor + Fan) MBH— Gross Capacity x 1000 BTUH [kW]

NOTES: 1. All values at approximately 20°F [11.1°C] subcooling 2. Data includes 25 feet [7.62 m] of recommended vapor and liquid lines

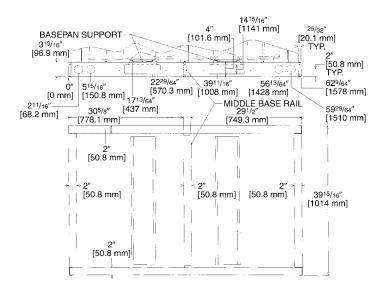
UNIT DIMENSIONS AND WEIGHTS

| MODEL | TOTAL WEIGHT | | Corner Weig | hts, Lbs. [kg] | |
|----------|--------------|-----------|-------------|----------------|-----------|
| MODEL | LBS. [kg] | Α | В | С | D |
| RAWL-120 | 501 [227] | 123 [56] | 132 [60] | 119 [54] | 127 [58] |
| RAWL-125 | 586 [266] | 144 [65] | 154 [70] | 139 [63] | 149 [67] |
| RAWL-150 | 650 [295] | 160 [72] | 171 [78] | 154 [70] | 165 [75] |
| RAWL-180 | 746 [338] | 183 [83] | 196 [89] | 177 [80] | 189 [86] |
| RAWL-240 | 952 [432] | 234 [106] | 251 [114] | 226 [103] | 241 [110] |

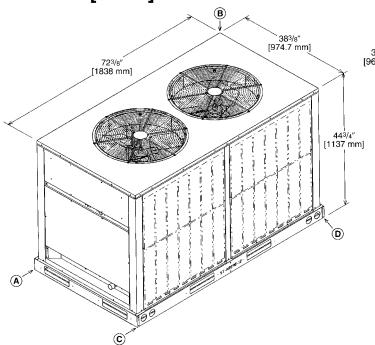
10 TON [35.2 kW]



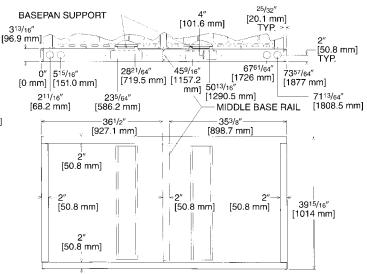
BOTTOM VIEW



12.5 TON [44 kW]

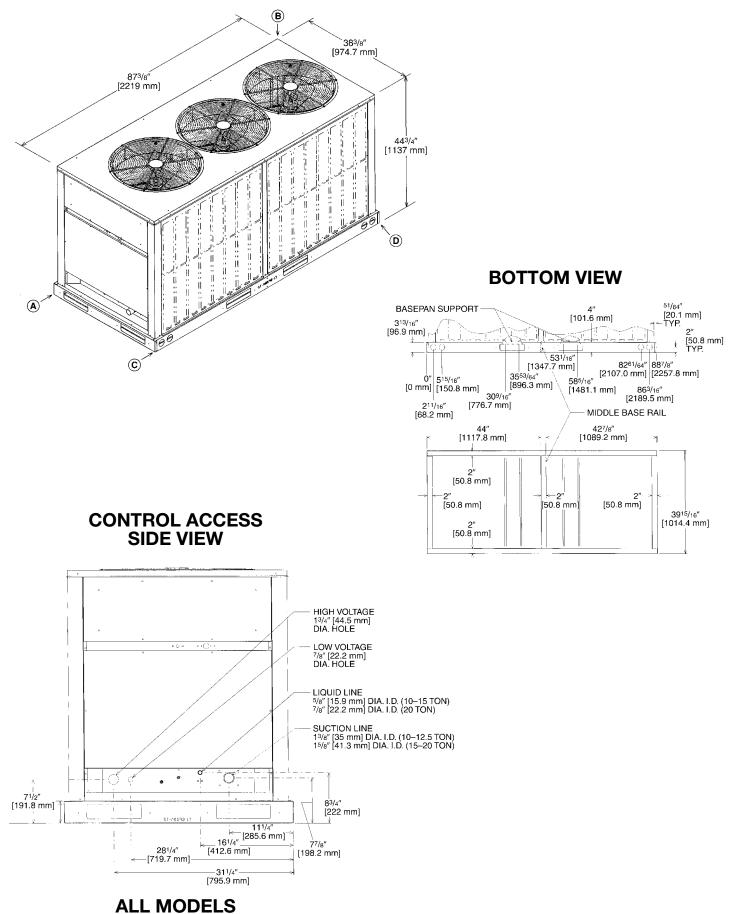


BOTTOM VIEW



UNIT DIMENSIONS (cont.)

15 TON & 20 TON [52.8 kW & 70.3 kW]



PERFORMANCE DATA @ AHRI STANDARD CONDITIONS - COOLING: RAWL-

| MODEL | NUMBERS | 80°F | [26.5°C] DB/67°F [1 95°F [35°C] DB | | RAIR | | SOUND | INDOOR |
|--------------------------|--------------------------------------|---------------------------------|---------------------------------------|-----------------------------|-------|------|--------------|--------------|
| OUTDOOR UNIT RAWL- | INDOOR COIL AND/OR AIR HANDLER | TOTAL CAPACITY BTU/H [kW] | NET SENSIBLE BTU/H [kW] | NET LATENT BTU/H [kW] | EER | IPLV | RATING dB | CFM [L/s] |
| Rev. 8/14/2008 | RHGL-120Z 1 | 117,000 [34.3] | 86,500 [25.3] | 30,500 [8.9] | 11.20 | N/A | 88 | 3,800 [1793] |
| 120CAZ | RCCL-D5013 | 118,000 [34.6] | 86,500 [25.3] | 31,500 [9.2] | 11.20 | N/A | 88 | 3,800 [1793] |
| 120DAZ | RHGL-120Z | 117,000 [34.3] | 86,500 [25.3] | 30,500 [8.9] | 11.20 | N/A | 88 | 3,800 [1793] |
| 120DAZ | RCCL-D5013 | 118,000 [34.6] | 86,500 [25.3] | 31,500 [9.2] | 11.20 | N/A | 88 | 3,800 [1793] |
| 120YAZ | RHGL-120Y | 117,000 [34.3] | 86,500 [25.3] | 30,500 [8.9] | 11.20 | N/A | 88 | 3,800 [1793] |
| 120 TAZ | RCCL-D5013 | 118,000 [34.6] | 86,500 [25.3] | 31,500 [9.2] | 11.20 | N/A | 88 | 3,800 [1793] |
| 125CAZ | RHGL-120Z 1 | 116,000 [34.0] | 87,000 [25.5] | 29,000 [8.5] | 11.20 | 14 | 88 | 3,800 [1793] |
| 125CAZ | RCCL-D5013 | 116,000 [34.0] | 85,000 [24.9] | 31,000 [9.1] | 11.20 | 14 | 88 | 3,800 [1793] |
| 125DAZ | RHGL-120Z | 116,000 [34.0] | 87,000 [25.5] | 29,000 [8.5] | 11.20 | 14 | 88 | 3,800 [1793] |
| 120DAZ | RCCL-D5013 | 116,000 [34.0] | 85,000 [24.9] | 31,000 [9.1] | 11.20 | 14 | 88 | 3,800 [1793] |
| 125YAZ | RHGL-120Y | 116,000 [34.0] | 87,000 [25.5] | 29,000 [8.5] | 11.20 | 14 | 88 | 3,800 [1793] |
| 125TAZ | RCCL-D5013 | 116,000 [34.0] | 85,000 [24.9] | 31,000 [9.1] | 11.20 | 14 | 88 | 3,800 [1793] |
| 150CAZ | RHGL-180Z 1 | 146,000 [42.8] | 112,000 [32.8] | 34,000 [10.0] | 11.10 | 15 | 88 | 5,000 [2360] |
| 150DAZ | RHGL-180Z | 146,000 [42.8] | 112,000 [32.8] | 34,000 [10.0] | 11.10 | 15 | 88 | 5,000 [2360] |
| 150YAZ | RHGL-180Y | 146,000 [42.8] | 112,000 [32.8] | 34,000 [10.0] | 11.10 | 15 | 88 | 5,000 [2360] |
| 180CAZ | RHGL-180Z ① | 178,000 [52.2] | 125,000 [36.6] | 53,000 [15.5] | 11.00 | 12.3 | 88 | 5,100 [2407] |
| 180DAZ | RHGL-180Z | 178,000 [52.2] | 125,000 [36.6] | 53,000 [15.5] | 11.00 | 12.3 | 88 | 5,100 [2407] |
| 180YAZ | RHGL-180Y | 178,000 [52.2] | 125,000 [36.6] | 53,000 [15.5] | 11.00 | 12.3 | 88 | 5,100 [2407] |
| 240CAZ | RHGL-240Z 1 | 244,000 [71.5] | 169,000 [49.5] | 75,000 [22.0] | 10.00 | 13.7 | 88 | 6,900 [3256] |
| 240DAZ | RHGL-240Z | 244,000 [71.5] | 169,000 [49.5] | 75,000 [22.0] | 10.00 | 13.7 | 88 | 6,900 [3256] |
| 240YAZ | RHGL-240Y | 244,000 [71.5] | 169,000 [49.5] | 75,000 [22.0] | 10.00 | 13.7 | 88 | 6,900 [3256] |

In Highest sales volume tested combination required by D.O.E. test procedures.
 N/A = Not applicable

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| | | | ELEC | ELECTRICAL | | | _ | | | ΡH | PHYSICAL | | |
|----------------|-----------------|------------------|------------------|----------------------|----------|-------------------------|--------------------|------------------------------|--------------|--------------|----------------|------------------|-------------------|
| Model | Phase | Comp | Compressor | Full Load Amperes | Minimum | Fuse or HACR Circuit | r HACR suit | 0 | Outdoor Coil | | Dofria Dor | Weight | ght |
| RAWI - | Frequency (Hz) | Rated Load | Locked Rotor | (FLA) | Amnacity | Breaker | aker | | | | Circuit 02 Cal | | |
| | Voltage (Volts) | Amperes (RLA) | Amperes (LRA) | Fan Motor | Amperes | Minimum Amperes | Maximum Amperes | Face Area Sq. Ft. [Sq. m] | No. Rows | CFM [L/s] | | Net Lbs. [kg] | Ship Lbs. [kg] |
| Rev. 8/14/2008 | | | | | | | | | | | | | |
| 120CAZ | 3-60-208/230 | 30.1/30.1 | 225 | 4.8 | 43/43 | 50/50 | 60/60 | 27.00 [2.51] | 2 | 8000 [3775] | 339 [9611] | 501 [227.3] | 541 [245.4] |
| 120DAZ | 3-60-460 | 16.7 | 114 | 2.8 | 24 | 30 | 40 | 27.00 [2.51] | 2 | 8000 [3775] | 339 [9611] | 501 [227.3] | 541 [245.4] |
| 120YAZ | 3-60-575 | 12.2 | 80 | 2 | 18 | 25 | 25 | 27.00 [2.51] | 2 | 8000 [3775] | 339 [9611] | 501 [227.3] | 541 [245.4] |
| 125CAZ | 3-60-208/230 | 17.6/17.6 | 123 | 4.8 | 45/45 | 50/50 | 60/60 | 27.00 [2.51] | 2 | 8000 [3775] | 300 [8505] | 586 [265.8] | 626 [284.0] |
| 125DAZ | 3-60-460 | 9.6 | 62 | 2.8 | 25 | 30 | 30 | 27.00 [2.51] | 2 | 8000 [3775] | 300 [8505] | 586 [265.8] | 626 [284.0] |
| 125YAZ | 3-60-575 | 6.1 | 40 | 2 | 16 | 20 | 20 | 27.00 [2.51] | 2 | 8000 [3775] | 300 [8505] | 586 [265.8] | 626 [284.0] |
| 150CAZ | 3-60-208/230 | 22.4/22.4 | 149 | 4.8 | 56/56 | 70/70 | 70/70 | 32.88 [3.05] | 2 | 8000 [3775] | 378 [10716] | 650 [294.8] | 690 [313.0] |
| 150DAZ | 3-60-460 | 10.6 | 75 | 2.8 | 27 | 30 | 35 | 32.88 [3.05] | 2 | 8000 [3775] | 378 [10716] | 650 [294.8] | 690 [313.0] |
| 150YAZ | 3-60-575 | 7.7 | 54 | 2 | 20 | 25 | 25 | 32.88 [3.05] | 2 | 8000 [3775] | 378 [10716] | 650 [294.8] | 690 [313.0] |
| 180CAZ | 3-60-208/230 | 25/25 | 164 | 7.2 | 64/64 | 70/70 | 80/80 | 40.38 [3.75] | 2 | 12000 [5663] | 506 [14345] | 746 [338.4] | 786 [356.5] |
| 180DAZ | 3-60-460 | 12.2 | 100 | 4.2 | 32 | 35 | 40 | 40.38 [3.75] | 2 | 12000 [5663] | 506 [14345] | 746 [338.4] | 786 [356.5] |
| 180YAZ | 3-60-575 | 6 | 78 | 3 | 24 | 30 | 30 | 40.38 [3.75] | 2 | 12000 [5663] | 506 [14345] | 746 [338.4] | 786 [356.5] |
| 240CAZ | 3-60-208/230 | 33.3/33.3 | 239 | 7.2 | 83/83 | 100/100 | 110/110 | 40.38 [3.75] | 3 | 12000 [5663] | 655 [18569] | 952 [431.8] | 992 [450.0] |
| 240DAZ | 3-60-460 | 17.9 | 125 | 3.3 | 44 | 50 | 60 | 40.38 [3.75] | 3 | 12000 [5663] | 655 [18569] | 952 [431.8] | 992 [450.0] |
| 240YAZ | 3-60-575 | 12.8 | 80 | 2.4 | 32 | 35 | 40 | 40.38 [3.75] | ç | 12000 [5663] | 655 [18569] | 952 [431.8] | 992 [450.0] |

CONDENSING UNIT **RAWL-120**

COOLING RHGL-120

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | |
|------------------|---|--|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|--|---------------------------------------|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
| | CI | FM [L/s] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4580 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | |
| | | DR 1 | .05 | .08 | .13 | .05 | .08 | .13 | .05 | .08 | .13 | |
| | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 146.6 [42.96] 94.5 [27.70] 7.7 | 141.5 [41.47] 81.3 [23.83] 7.6 | 136.3 [39.95] 69.0 [20.22] 7.5 | 140.6 [41.21] 112.1 [32.85] 7.6 | 135.6 [39.74] 97.5 [28.57] 7.5 | 130.7 [38.30] 84.0 [24.62] 7.4 | 136.0 [39.86] 127.9 [37.48] 7.5 | 131.2 [38.45] 112.2 [32.88] 7.4 | 126.4 [37.04] 97.4 [28.55] 7.3 | |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 143.1 [41.94] 92.6 [27.14] 8.1 | 138.1 [40.47] 79.7 [23.36] 8.0 | 133.0 [38.98] 67.6 [19.81] 7.8 | 137.1 [40.18] 110.2 [32.30] 8.0 | 132.2 [38.74] 95.9 [28.11] 7.9 | 127.4 [37.34] 82.6 [24.21] 7.7 | 132.5 [38.83] 126.1 [36.96] 7.9 | 127.8 [37.45] 110.6 [32.41] 7.8 | 123.2 [36.11] 96.1 [28.16] 7.6 | |
| O R D | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 139.5 [40.88] 90.6 [26.55] 8.5 | 134.6 [39.45] 78.0 [22.86] 8.3 | 129.7 [38.01] 66.3 [19.43] 8.2 | 133.5 [39.12] 108.2 [31.71] 8.4 | 128.8 [37.75] 94.3 [27.64] 8.2 | 124.1 [36.37] 81.2 [23.80] 8.1 | 128.9 [37.78] 124.1 [36.37] 8.3 | 124.4 [36.46] 109.0 [31.94] 8.1 | 119.9 [35.14] 94.7 [27.75] 8.0 | |
| R Y B U | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 135.9 [39.83] 88.9 [26.05] 8.9 | 131.1 [38.42] 76.5 [22.42] 8.7 | 126.4 [37.04] 65.1 [19.08] 8.6 | 129.9 [38.07] 106.5 [31.21] 8.8 | 125.3 [36.72] 92.8 [27.20] 8.6 | 120.7 [35.37] 80.0 [23.45] 8.5 | 125.3 [36.72] 122.3 [35.84] 8.7 | 120.9 [35.43] 107.5 [31.51] 8.5 | 116.5 [34.14] 93.5 [27.40] 8.4 | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 132.2 [38.74] 87.0 [25.50] 9.3 | 127.6 [37.40] 75.0 [21.98] 9.2 | 122.9 [36.02] 63.7 [18.67] 9.0 | 126.2 [36.99] 104.6 [30.66] 9.2 | 121.8 [35.70] 91.3 [26.76] 9.1 | 117.3 [34.38] 78.7 [23.06] 8.9 | 121.6 [35.64] 120.5 [35.32] 9.1 | 117.3 [34.38] 105.9 [31.04] 9.0 | 113.1 [33.15] 92.2 [27.02] 8.8 | |
| E M P E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 128.5 [37.66] 85.3 [25.00] 9.8 | 124.0 [36.34] 73.5 [21.54] 9.6 | 119.5 [35.02] 62.6 [18.35] 9.4 | 122.5 [35.90] 102.9 [30.16] 9.7 | 118.2 [34.64] 89.8 [26.32] 9.5 | 113.9 [33.38] 77.5 [22.71] 9.3 | 117.9 [34.55] 117.9 [34.55] 9.6 | 113.7 [33.32] 104.4 [30.60] 9.4 | 109.6 [32.12] 90.9 [26.64] 9.2 | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 124.7 [36.55] 83.5 [24.47] 10.2 | 120.3 [35.26] 72.0 [21.10] 10.1 | 116.0 [34.00] 61.4 [17.99] 9.9 | 118.7 [34.79] 101.1 [29.63] 10.1 | 114.5 [33.56] 88.3 [25.88] 10.0 | 110.4 [32.36] 76.3 [22.36] 9.8 | 114.1 [33.44] 114.1 [33.44] 10.0 | 110.1 [32.27] 103.0 [30.19] 9.9 | 106.1 [31.09] 89.8 [26.32] 9.7 | |
| R E ⁰F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 120.9 [35.43] 81.8 [23.97] 10.7 | 116.6 [34.17] 70.5 [20.66] 10.5 | 112.4 [32.94] 60.1 [17.61] 10.4 | 114.8 [33.64] 99.3 [29.10] 10.6 | 110.8 [32.47] 86.8 [25.44] 10.4 | 106.8 [31.30] 75.1 [22.01] 10.3 | 110.3 [32.33] 110.3 [32.33] 10.5 | 106.4 [31.18] 101.5 [29.75] 10.3 | 102.5 [30.04] 88.5 [25.94] 10.2 | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 117.0 [34.29] 80.0 [23.45] 11.3 | 112.9 [33.09] 69.1 [20.25] 11.1 | 108.8 [31.89] 58.9 [17.26] 10.9 | 111.0 [32.53] 97.7 [28.63] 11.1 | 107.1 [31.39] 85.5 [25.06] 11.0 | 103.2 [30.24] 74.0 [21.69] 10.8 | 106.4 [31.18] 106.4 [31.18] 11.0 | 102.7 [30.10] 100.1 [29.34] 10.9 | 98.9 [28.98] 87.3 [25.59] 10.7 | |

CONDENSING UNIT

RAWL-120

WITH COOLING RCCL-D5013 COIL

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | |
|---------------------|---|--|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|--|---------------------------------------|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
| | CI | FM [L/s] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | |
| | | DR ① | .05 | .09 | .14 | .05 | .09 | .14 | .05 | .09 | .14 | |
| 0 | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 147.6 [43.26] 94.5 [27.70] 7.8 | 142.4 [41.73] 81.2 [23.80] 7.7 | 137.3 [40.24] 69.0 [20.22] 7.6 | 141.6 [41.50] 112.1 [32.85] 7.7 | 136.6 [40.03] 97.5 [28.57] 7.6 | 131.6 [38.57] 83.9 [24.59] 7.5 | 137.0 [40.15] 127.9 [37.48] 7.6 | 132.2 [38.74] 112.2 [32.88] 7.5 | 127.4 [37.34] 97.4 [28.55] 7.4 | |
| UTDOOR DRY BU | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 144.1 [42.23] 92.6 [27.14] 8.2 | 139.0 [40.74] 79.6 [23.33] 8.1 | 134.0 [39.27] 67.6 [19.81] 7.9 | 138.1 [40.47] 110.2 [32.30] 8.1 | 133.2 [39.04] 95.9 [28.11] 8.0 | 128.4 [37.63] 82.6 [24.21] 7.8 | 133.5 [39.12] 126.1 [36.96] 8.0 | 128.8 [37.75] 110.6 [32.41] 7.9 | 124.1 [36.37] 96.0 [28.13] 7.7 | |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 140.5 [41.18] 90.6 [26.55] 8.6 | 135.6 [39.74] 78.0 [22.86] 8.4 | 130.7 [38.30] 66.3 [19.43] 8.3 | 134.5 [39.42] 108.2 [31.71] 8.5 | 129.8 [38.04] 94.3 [27.64] 8.3 | 125.1 [36.66] 81.2 [23.80] 8.2 | 129.9 [38.07] 124.1 [36.37] 8.4 | 125.4 [36.75] 109.0 [31.94] 8.2 | 120.8 [35.40] 94.7 [27.75] 8.1 | |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 136.9 [40.12] 88.9 [26.05] 9.0 | 132.1 [38.71] 76.5 [22.42] 8.8 | 127.3 [37.31] 65.0 [19.05] 8.7 | 130.9 [38.36] 106.5 [31.21] 8.9 | 126.3 [37.01] 92.8 [27.20] 8.7 | 121.7 [35.67] 80.0 [23.45] 8.6 | 126.3 [37.01] 122.3 [35.84] 8.8 | 121.9 [35.73] 107.5 [31.51] 8.6 | 117.4 [34.41] 93.4 [27.37] 8.5 | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 133.2 [39.04] 87.0 [25.50] 9.4 | 128.6 [37.69] 75.0 [21.98] 9.3 | 123.9 [36.31] 63.7 [18.67] 9.1 | 127.2 [37.28] 104.6 [30.66] 9.3 | 122.7 [35.96] 91.2 [26.73] 9.1 | 118.3 [34.67] 78.7 [23.06] 9.0 | 122.6 [35.93] 120.5 [35.32] 9.2 | 118.3 [34.67] 105.9 [31.04] 9.0 | 114.0 [33.41] 92.1 [26.99] 8.9 | |
| E M P E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 129.5 [37.95] 85.3 [25.00] 9.9 | 125.0 [36.63] 73.5 [21.54] 9.7 | 120.4 [35.29] 62.5 [18.32] 9.5 | 123.5 [36.19] 102.9 [30.16] 9.8 | 119.1 [34.90] 89.7 [26.29] 9.6 | 114.8 [33.64] 77.4 [22.68] 9.4 | 118.9 [34.85] 118.7 [34.79] 9.7 | 114.7 [33.62] 104.4 [30.60] 9.5 | 110.6 [32.41] 90.9 [26.64] 9.3 | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 125.7 [36.84] 83.5 [24.47] 10.3 | 121.3 [35.55] 72.0 [21.10] 10.2 | 116.9 [34.26] 61.3 [17.97] 10.0 | 119.7 [35.08] 101.1 [29.63] 10.2 | 115.5 [33.85] 88.3 [25.88] 10.1 | 111.3 [32.62] 76.3 [22.36] 9.9 | 115.1 [33.73] 115.1 [33.73] 10.1 | 111.1 [32.56] 103.0 [30.19] 10.0 | 107.0 [31.36] 89.7 [26.29] 9.8 | |
| R E °F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 121.9 [35.73] 81.8 [23.97] 10.8 | 117.6 [34.47] 70.5 [20.66] 10.6 | 113.3 [33.20] 60.0 [17.58] 10.5 | 115.9 [33.97] 99.4 [29.13] 10.7 | 111.8 [32.77] 86.8 [25.44] 10.5 | 107.7 [31.56] 75.0 [21.98] 10.4 | 111.3 [32.62] 111.3 [32.62] 10.6 | 107.4 [31.48] 101.5 [29.75] 10.4 | 103.5 [30.33] 88.5 [25.94] 10.3 | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 118.0 [34.58] 80.0 [23.45] 11.4 | 113.9 [33.38] 69.1 [20.25] 11.2 | 109.7 [32.15] 58.8 [17.23] 11.0 | 112.0 [32.82] 97.7 [28.63] 11.2 | 108.0 [31.65] 85.4 [25.03] 11.1 | 104.1 [30.51] 73.9 [21.66] 10.9 | 107.4 [31.48] 107.4 [31.48] 11.1 | 103.6 [30.36] 100.0 [29.31] 11.0 | 99.9 [29.28] 87.3 [25.59] 10.8 | |
| DR - | A —Depression ratio Total —Total capacity x 1000 BTUH NOTES: | | | | | | | | | | | |

DR -Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb

NOTES: Sens —Sensible capacity x 1000 BTUH

The the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)]. ② Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

[] Designates Metric Conversions

Power—KW input

CONDENSING UNIT **RAWL-125**

WITH **RHGL-120** AIR HANDLER

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | |
|------------------|---|--|---------------------------------------|---------------------------------------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|--|---------------------------------------|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
| | CF | FM [L/s] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | |
| | | DR ① | .03 | .07 | .11 | .03 | .07 | .11 | .03 | .07 | .11 | |
| 0 | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 145.7 [42.70] 95.2 [27.90] 7.4 | 140.6 [41.21] 82.0 [24.03] 7.3 | 135.5 [39.71] 69.7 [20.43] 7.2 | 140.4 [41.15] 112.8 [33.06] 7.4 | 135.5 [39.71] 98.3 [28.81] 7.2 | 130.5 [38.25] 84.6 [24.79] 7.1 | 139.2 [40.80] 131.3 [38.48] 7.3 | 134.3 [39.36] 115.2 [33.76] 7.2 | 129.5 [37.95] 100.1 [29.34] 7.1 | |
| U T D O | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 141.6 [41.50] 93.2 [27.31] 7.8 | 136.6 [40.03] 80.2 [23.50] 7.7 | 131.6 [38.57] 68.2 [19.99] 7.6 | 136.3 [39.95] 110.6 [32.41] 7.8 | 131.5 [38.54] 96.4 [28.25] 7.6 | 126.7 [37.13] 83.1 [24.35] 7.5 | 135.1 [39.59] 129.2 [37.86] 7.7 | 130.4 [38.22] 113.5 [33.26] 7.6 | 125.6 [36.81] 98.6 [28.90] 7.4 | |
| O R D | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 137.6 [40.33] 91.1 [26.70] 8.3 | 132.8 [38.92] 78.5 [23.01] 8.1 | 128.0 [37.51] 66.8 [19.58] 8.0 | 132.4 [38.80] 108.7 [31.86] 8.2 | 127.7 [37.43] 94.7 [27.75] 8.0 | 123.1 [36.08] 81.7 [23.94] 7.9 | 131.2 [38.45] 127.3 [37.31] 8.1 | 126.6 [37.10] 111.8 [32.77] 8.0 | 122.0 [35.75] 97.2 [28.49] 7.8 | |
| R Y B U | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 133.9 [39.24] 89.2 [26.14] 8.7 | 129.2 [37.86] 76.9 [22.54] 8.6 | 124.5 [36.49] 65.5 [19.20] 8.4 | 128.7 [37.72] 106.9 [31.33] 8.6 | 124.1 [36.37] 93.2 [27.31] 8.5 | 119.6 [35.05] 80.4 [23.56] 8.3 | 127.5 [37.37] 125.4 [36.75] 8.6 | 123.0 [36.05] 110.2 [32.30] 8.4 | 118.5 [34.73] 95.8 [28.08] 8.3 | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 130.4 [38.22] 87.6 [25.67] 9.2 | 125.9 [36.90] 75.6 [22.16] 9.0 | 121.3 [35.55] 64.4 [18.87] 8.9 | 125.1 [36.66] 105.1 [30.80] 9.1 | 120.8 [35.40] 91.8 [26.90] 9.0 | 116.4 [34.11] 79.2 [23.21] 8.8 | 124.0 [36.34] 123.7 [36.25] 9.1 | 119.6 [35.05] 108.7 [31.86] 8.9 | 115.3 [33.79] 94.7 [27.75] 8.7 | |
| E M P E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 127.1 [37.25] 85.9 [25.17] 9.7 | 122.7 [35.96] 74.2 [21.75] 9.5 | 118.2 [34.64] 63.2 [18.52] 9.3 | 121.9 [35.73] 103.6 [30.36] 9.6 | 117.6 [34.47] 90.5 [26.52] 9.5 | 113.3 [33.20] 78.2 [22.92] 9.3 | 120.7 [35.37] 120.7 [35.37] 9.6 | 116.4 [34.11] 107.4 [31.48] 9.4 | 112.2 [32.88] 93.6 [27.43] 9.2 | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 124.1 [36.37] 84.6 [24.79] 10.2 | 119.7 [35.08] 73.0 [21.39] 10.0 | 115.3 [33.79] 62.2 [18.23] 9.9 | 118.8 [34.82] 102.2 [29.95] 10.2 | 114.6 [33.59] 89.3 [26.17] 10.0 | 110.4 [32.36] 77.2 [22.63] 9.8 | 117.6 [34.47] 117.6 [34.47] 10.1 | 113.5 [33.26] 106.3 [31.15] 9.9 | 109.3 [32.03] 92.6 [27.14] 9.7 | |
| R E °F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 121.2 [35.52] 83.4 [24.44] 10.8 | 116.9 [34.26] 72.0 [21.10] 10.6 | 112.7 [33.03] 61.5 [18.02] 10.4 | 115.9 [33.97] 100.9 [29.57] 10.7 | 111.8 [32.77] 88.2 [25.85] 10.5 | 107.8 [31.59] 76.3 [22.36] 10.3 | 114.7 [33.62] 114.7 [33.62] 10.6 | 110.7 [32.44] 105.2 [30.83] 10.5 | 106.7 [31.27] 91.8 [26.90] 10.3 | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 118.5 [34.73] 82.2 [24.09] 11.4 | 114.3 [33.50] 71.0 [20.81] 11.2 | 110.2 [32.30] 60.7 [17.79] 11.0 | 113.2 [33.18] 99.7 [29.22] 11.3 | 109.2 [32.00] 87.2 [25.56] 11.1 | 105.3 [30.86] 75.5 [22.13] 10.9 | 112.0 [32.82] 112.0 [32.82] 11.2 | 108.1 [31.68] 104.3 [30.57] 11.0 | 104.2 [30.54] 91.0 [26.67] 10.8 | |

CONDENSING UNIT

WITH **RAWL-125** AIR HANDLER

RCCL-D5013

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | |
|------------------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|---------------------------------------|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
| | CF | FM [L/s] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | 4560 [2152] | 3800 [1793] | 3040 [1435] | |
| | | DR 1 | .07 | .11 | .16 | .11 | .11 | .16 | .07 | .11 | .16 | |
| 0 | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 145.7 [42.70] 93.0 [27.26] 7.4 | 140.5 [41.18] 79.9 [23.42] 7.3 | 135.4 [39.68] 67.8 [19.87] 7.2 | 140.4 [41.15] 110.6 [32.41] 7.4 | 135.4 [39.68] 96.2 [28.19] 7.2 | 130.5 [38.25] 82.8 [24.27] 7.1 | 139.2 [40.80] 129.1 [37.84] 7.3 | 134.3 [39.36] 113.2 [33.18] 7.2 | 129.4 [37.92] 98.2 [28.78] 7.1 | |
| U T D O | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 141.5 [41.47] 90.9 [26.64] 7.8 | 136.6 [40.03] 78.2 [22.92] 7.7 | 131.6 [38.57] 66.4 [19.46] 7.6 | 136.2 [39.92] 108.3 [31.74] 7.8 | 131.5 [38.54] 94.4 [27.67] 7.6 | 126.7 [37.13] 81.2 [23.80] 7.5 | 135.1 [39.59] 127.0 [37.22] 7.7 | 130.3 [38.19] 111.4 [32.65] 7.6 | 125.6 [36.81] 96.7 [28.34] 7.4 | |
| O R D | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 137.6 [40.33] 88.9 [26.05] 8.3 | 132.8 [38.92] 76.5 [22.42] 8.1 | 128.0 [37.51] 65.0 [19.05] 8.0 | 132.3 [38.77] 106.4 [31.18] 8.2 | 127.7 [37.43] 92.7 [27.17] 8.1 | 123.0 [36.05] 79.8 [23.39] 7.9 | 131.2 [38.45] 125.1 [36.66] 8.1 | 126.6 [37.10] 109.8 [32.18] 8.0 | 122.0 [35.75] 95.4 [27.96] 7.9 | |
| R Y B U | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 133.9 [39.24] 87.0 [25.50] 8.7 | 129.2 [37.86] 74.9 [21.95] 8.6 | 124.5 [36.49] 63.6 [18.64] 8.4 | 128.6 [37.69] 104.6 [30.66] 8.7 | 124.1 [36.37] 91.2 [26.73] 8.5 | 119.6 [35.05] 78.6 [23.04] 8.3 | 127.5 [37.37] 123.2 [36.11] 8.6 | 123.0 [36.05] 108.2 [31.71] 8.4 | 118.5 [34.73] 94.0 [27.55] 8.3 | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 130.4 [38.22] 85.4 [25.03] 9.2 | 125.8 [36.87] 73.5 [21.54] 9.0 | 121.3 [35.55] 62.6 [18.35] 8.9 | 125.1 [36.66] 102.9 [30.16] 9.1 | 120.7 [35.37] 89.7 [26.29] 9.0 | 116.3 [34.08] 77.3 [22.65] 8.8 | 124.0 [36.34] 121.5 [35.61] 9.1 | 119.6 [35.05] 106.7 [31.27] 8.9 | 115.3 [33.79] 92.8 [27.20] 8.8 | |
| E M P E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 127.1 [37.25] 83.7 [24.53] 9.7 | 122.7 [35.96] 72.2 [21.16] 9.5 | 118.2 [34.64] 61.4 [17.99] 9.4 | 121.8 [35.70] 101.4 [29.72] 9.6 | 117.6 [34.47] 88.5 [25.94] 9.5 | 113.3 [33.20] 76.3 [22.36] 9.3 | 120.7 [35.37] 119.9 [35.14] 9.6 | 116.4 [34.11] 105.4 [30.89] 9.4 | 112.2 [32.88] 91.8 [26.90] 9.2 | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 124.0 [36.34] 82.3 [24.12] 10.2 | 119.7 [35.08] 71.0 [20.81] 10.0 | 115.3 [33.79] 60.4 [17.70] 9.9 | 118.7 [34.79] 99.9 [29.28] 10.2 | 114.6 [33.59] 87.3 [25.59] 10.0 | 110.4 [32.36] 75.3 [22.07] 9.8 | 117.6 [34.47] 117.6 [34.47] 10.1 | 113.4 [33.23] 104.2 [30.54] 9.9 | 109.3 [32.03] 90.8 [26.61] 9.8 | |
| R E ⁰F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 121.1 [35.49] 81.1 [23.77] 10.8 | 116.9 [34.26] 70.0 [20.51] 10.6 | 112.6 [33.00] 59.6 [17.47] 10.4 | 115.9 [33.97] 98.7 [28.93] 10.7 | 111.8 [32.77] 86.2 [25.26] 10.5 | 107.7 [31.56] 74.4 [21.80] 10.3 | 114.7 [33.62] 114.7 [33.62] 10.7 | 110.7 [32.44] 103.2 [30.24] 10.5 | 106.6 [31.24] 89.9 [26.35] 10.3 | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 118.5 [34.73] 80.0 [23.45] 11.4 | 114.3 [33.50] 69.0 [20.22] 11.2 | 110.2 [32.30] 58.8 [17.23] 11.0 | 113.2 [33.18] 97.5 [28.57] 11.3 | 109.2 [32.00] 85.2 [24.97] 11.1 | 105.2 [30.83] 73.6 [21.57] 10.9 | 112.0 [32.82] 112.0 [32.82] 11.2 | 108.1 [31.68] 102.3 [29.98] 11.0 | 104.2 [30.54] 89.2 [26.14] 10.8 | |
| DR _ | 3 —Depression ratio Total —Total capacity x 1000 BTUH NOTES: | | | | | | | | | | | |

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

The the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

② Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

CONDENSING RAWL-150

COOLING RHGL-180

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | | |
|------------------|---|--|--------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | | |
| | CI | FM [L/s] | 6000 [2832] | 5000 [2360] | 4000 [1888] | 6000 [2832] | 5000 [2360] | 4000 [1888] | 6000 [2832] | 5000 [2360] | 4000 [1888] | | |
| | | DR ① | .06 | .01 | .14 | .06 | .01 | .14 | .06 | .01 | .14 | | |
| 0 | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 159.8 [46.8] 108.4 [31.8] 10.5 | 154.2 [45.2] 93.5 [27.4] 10.3 | 148.6 [43.6] 79.7 [23.4] 10.1 | 164.1 [48.1] 135.8 [39.8] 11.5 | 158.3 [46.4] 118.4 [34.7] 11.3 | 152.6 [44.7] 102.2 [30.0] 11.1 | 157.5 [46.2] 151.0 [44.3] 12.4 | 152.0 [44.5] 132.6 [38.9] 12.2 | 146.5 [42.9] 115.2 [33.8] 12.0 | | |
| U T D O | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 159.9 [46.9] 108.8 [31.9] 11.1 | 154.3 [45.2] 93.9 [27.5] 10.9 | 148.7 [43.6] 80.1 [23.5] 10.7 | 164.2 [48.1] 136.2 [39.9] 12.0 | 158.4 [46.4] 118.8 [34.8] 11.8 | 152.7 [44.8] 102.5 [30.0] 11.6 | 157.7 [46.2] 151.5 [44.4] 13.0 | 152.1 [44.6] 133.0 [39.0] 12.8 | 146.6 [43.0] 115.6 [33.9] 12.6 | | |
| O R D | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 159.0 [46.6] 108.6 [31.8] 11.7 | 153.5 [45.0] 93.8 [27.5] 11.5 | 147.9 [43.3] 80.0 [23.5] 11.3 | 163.3 [47.9] 136.0 [39.9] 12.7 | 157.6 [46.2] 118.7 [34.8] 12.5 | 151.9 [44.5] 102.5 [30.0] 12.2 | 156.8 [46.0] 151.3 [44.4] 13.7 | 151.3 [44.3] 132.9 [39.0] 13.4 | 145.8 [42.7] 115.5 [33.9] 13.2 | | |
| R Y B U | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 157.2 [46.1] 107.7 [31.6] 12.4 | 151.7 [44.5] 93.0 [27.3] 12.1 | 146.1 [42.8] 79.2 [23.2] 11.9 | 161.4 [47.3] 135.0 [39.6] 13.3 | 155.8 [45.7] 117.9 [34.6] 13.1 | 150.1 [44.0] 101.7 [29.8] 12.9 | 154.9 [45.4] 150.3 [44.1] 14.3 | 149.5 [43.8] 132.1 [38.7] 14.1 | 144.0 [42.2] 114.8 [33.7] 13.8 | | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 154.3 [45.2] 106.1 [31.1] 13.1 | 148.9 [43.6] 91.6 [26.9] 12.8 | 143.5 [42.1] 78.2 [22.9] 12.6 | 158.6 [46.5] 133.5 [39.1] 14.0 | 153.0 [44.8] 116.5 [34.2] 13.8 | 147.5 [43.2] 100.6 [29.5] 13.5 | 152.0 [44.5] 148.7 [43.6] 15.0 | 146.7 [43.0] 130.7 [38.3] 14.8 | 141.4 [41.4] 113.7 [33.3] 14.5 | | |
| E M P E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 150.5 [44.1] 103.8 [30.4] 13.8 | 145.2 [42.6] 89.6 [26.3] 13.5 | 139.9 [41.0] 76.4 [22.4] 13.3 | 154.7 [45.3] 131.1 [38.4] 14.8 | 149.3 [43.8] 114.5 [33.6] 14.5 | 143.9 [42.2] 98.9 [29.0] 14.3 | 148.2 [43.4] 146.4 [42.9] 15.7 | 143.0 [41.9] 128.7 [37.7] 15.5 | 137.8 [40.4] 112.0 [32.8] 15.2 | | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 145.6 [42.7] 100.7 [29.5] 14.6 | 140.5 [41.2] 87.0 [25.5] 14.3 | 135.4 [39.7] 74.3 [21.8] 14.1 | 149.9 [43.9] 128.1 [37.6] 15.5 | 144.6 [42.4] 111.9 [32.8] 15.3 | 139.4 [40.9] 96.7 [28.3] 15.0 | 143.3 [42.0] 143.3 [42.0] 16.5 | 138.3 [40.5] 126.1 [37.0] 16.2 | 133.3 [39.1] 109.8 [32.2] 15.9 | | |
| R E ⁰F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 139.8 [41.0] 97.1 [28.5] 15.4 | 134.9 [39.5] 83.9 [24.6] 15.1 | 130.0 [38.1] 71.6 [21.0] 14.8 | 144.1 [42.2] 124.4 [36.5] 16.4 | 139.0 [40.7] 108.7 [31.9] 16.1 | 133.9 [39.2] 93.9 [27.5] 15.8 | 137.5 [40.3] 137.5 [40.3] 17.3 | 132.7 [38.9] 123.0 [36.1] 17.0 | 127.9 [37.5] 107.2 [31.4] 16.7 | | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 133.0 [39.0] 92.7 [27.2] 16.2 | 128.3 [37.6] 80.1 [23.5] 15.9 | 123.6 [36.2] 68.4 [20.1] 15.7 | 137.2 [40.2] 119.9 [35.1] 17.2 | 132.4 [38.8] 104.9 [30.8] 16.9 | 127.6 [37.4] 90.8 [26.6] 16.6 | 130.7 [38.3] 130.7 [38.3] 18.2 | 126.1 [37.0] 119.1 [34.9] 17.9 | 121.5 [35.6] 103.8 [30.4] 17.6 | | |

CONDENSING UNIT

RAWL-180

COOLING RHGL-180

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | |
|-------------|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
| | C | FM [L/s] | 6120 [2888] | 5100 [2407] | 4080 [1926] | 6120 [2888] | 5100 [2407] | 4080 [1926] | 6120 [2888] | 5100 [2407] | 4080 [1926] | |
| | DR ① | | .01 | .07 | .14 | .01 | .07 | .14 | .01 | .07 | .14 | |
| | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 238.4 [69.9] 148.4 [43.5] 15.8 | 230.0 [67.4] 127.3 [37.3] 15.6 | 221.6 [64.9] 107.8 [31.6] 15.3 | 217.6 [63.8] 164.2 [48.1] 14.5 | 210.0 [61.5] 142.6 [41.8] 14.2 | 202.4 [59.3] 122.4 [35.9] 14.0 | 210.9 [61.8] 180.8 [53.0] 13.1 | 203.5 [59.6] 158.0 [46.3] 12.9 | 196.1 [57.5] 136.5 [40.0] 12.6 | |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 232.3 [68.1] 145.6 [42.7] 16.4 | 224.1 [65.7] 125.0 [36.6] 16.1 | 216.0 [63.3] 106.0 [31.1] 15.9 | 211.5 [62.0] 161.5 [47.3] 15.0 | 204.1 [59.8] 140.3 [41.1] 14.8 | 196.7 [57.6] 120.5 [35.3] 14.5 | 204.8 [60.0] 178.1 [52.2] 13.7 | 197.6 [57.9] 155.7 [45.6] 13.4 | 190.4 [55.8] 134.6 [39.5] 13.2 | |
| F | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 226.4 [66.4] 142.9 [41.9] 17.0 | 218.5 [64.0] 122.8 [36.0] 16.7 | 210.5 [61.7] 104.1 [30.5] 16.4 | 205.7 [60.3] 158.8 [46.5] 15.7 | 198.5 [58.2] 138.0 [40.5] 15.4 | 191.2 [56.0] 118.5 [34.7] 15.1 | 198.9 [58.3] 175.3 [51.4] 14.3 | 192.0 [56.3] 153.4 [45.0] 14.0 | 185.0 [54.2] 132.7 [38.9] 13.8 | |
| R Y B | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 220.8 [64.7] 140.1 [41.1] 17.7 | 213.0 [62.4] 120.3 [35.3] 17.4 | 205.3 [60.2] 102.1 [29.9] 17.1 | 200.0 [58.6] 155.9 [45.7] 16.3 | 193.0 [56.6] 135.6 [39.8] 16.0 | 186.0 [54.5] 116.6 [34.2] 15.7 | 193.3 [56.7] 172.5 [50.6] 14.9 | 186.5 [54.7] 151.0 [44.3] 14.7 | 179.7 [52.7] 130.7 [38.3] 14.4 | |
| | 05 | Total BTUH [kW] Sens BTUH [kW] Power | 215.3 [63.1] 137.1 [40.2] 18.4 | 207.8 [60.9] 117.9 [34.6] 18.1 | 200.2 [58.7] 100.0 [29.3] 17.7 | 194.6 [57.0] 153.1 [44.9] 17.0 | 187.7 [55.0] 133.1 [39.0] 16.7 | 180.9 [53.0] 114.5 [33.6] 16.4 | 187.8 [55.0] 169.6 [49.7] 15.6 | 181.2 [53.1] 148.5 [43.5] 15.4 | 174.7 [51.2] 128.7 [37.7] 15.1 | |
| | [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 210.1 [61.6] 134.2 [39.3] 19.1 | 202.7 [59.4] 115.3 [33.8] 18.8 | 195.3 [57.2] 97.8 [28.7] 18.4 | 189.3 [55.5] 150.0 [44.0] 17.7 | 182.7 [53.5] 130.6 [38.3] 17.4 | 176.1 [51.6] 112.4 [33.0] 17.1 | 182.6 [53.5] 166.5 [48.8] 16.4 | 176.2 [51.6] 145.9 [42.8] 16.1 | 169.8 [49.8] 126.5 [37.1] 15.8 | |
| F A T | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 205.1 [60.1] 131.1 [38.4] 19.9 | 197.9 [58.0] 112.7 [33.0] 19.5 | 190.7 [55.9] 95.7 [28.1] 19.2 | 184.3 [54.0] 146.9 [43.1] 18.5 | 177.9 [52.1] 128.0 [37.5] 18.2 | 171.4 [50.2] 110.2 [32.3] 17.9 | 177.6 [52.0] 163.5 [47.9] 17.1 | 171.4 [50.2] 143.3 [42.0] 16.8 | 165.1 [48.4] 124.2 [36.4] 16.5 | |
| F E | [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 200.3 [58.7] 127.9 [37.5] 20.7 | 193.3 [56.7] 110.0 [32.2] 20.3 | 186.2 [54.6] 93.3 [27.4] 20.0 | 179.5 [52.6] 143.8 [42.2] 19.3 | 173.2 [50.8] 125.2 [36.7] 19.0 | 166.9 [48.9] 107.8 [31.6] 18.6 | 172.8 [50.6] 160.4 [47.0] 17.9 | 166.7 [48.9] 140.6 [41.2] 17.6 | 160.7 [47.1] 122.0 [35.8] 17.3 | |
| [°(| ^[] 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 195.7 [57.4] 124.6 [36.5] 21.5 | 188.8 [55.3] 107.1 [31.4] 21.1 | 182.0 [53.3] 90.9 [26.7] 20.8 | 175.0 [51.3] 140.6 [41.2] 20.1 | 168.8 [49.5] 122.4 [35.9] 19.8 | 162.7 [47.7] 105.4 [30.9] 19.4 | 168.2 [49.3] 157.1 [46.1] 18.8 | 162.3 [47.6] 137.8 [40.4] 18.4 | 156.4 [45.8] 119.6 [35.1] 18.1 | |

DR —Depression ratio dbE —Entering air dry bulb wbE—Entering air wet bulb Total—Total capacity x 1000 BTUHSens—Sensible capacity x 1000 BTUH

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

2 Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

[] Designates Metric Conversions

Power—KW input

CONDENSING UNIT **RAWL-180**

WITH AIR HANDLER **RHGL-240**

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | | |
|------------------|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | | |
| | CI | FM [L/s] | 8040 [3794] | 6700 [3162] | 5360 [2530] | 8040 [3794] | 6700 [3162] | 5360 [2530] | 8040 [3794] | 6700 [3162] | 5360 [2530] | | |
| | | DR 1) | .06 | .01 | .13 | .06 | .01 | .13 | .06 | .01 | .13 | | |
| 0 | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 251.1 [73.6] 172.1 [50.4] 16.2 | 242.3 [71.0] 148.6 [43.6] 15.9 | 233.5 [68.4] 126.8 [37.2] 15.6 | 230.4 [67.5] 188.1 [55.1] 14.8 | 222.3 [65.1] 163.9 [48.0] 14.6 | 214.2 [62.8] 141.3 [41.4] 14.3 | 223.7 [65.6] 204.7 [60.0] 13.4 | 215.8 [63.2] 179.3 [52.6] 13.2 | 208.0 [61.0] 155.5 [45.6] 13.0 | | |
| U T D O | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 245.1 [71.8] 169.5 [49.7] 16.8 | 236.5 [69.3] 146.4 [42.9] 16.5 | 227.9 [66.8] 124.9 [36.6] 16.2 | 224.3 [65.7] 185.3 [54.3] 15.4 | 216.4 [63.4] 161.6 [47.4] 15.1 | 208.6 [61.1] 139.4 [40.9] 14.9 | 217.6 [63.8] 201.9 [59.2] 14.0 | 209.9 [61.5] 177.0 [51.9] 13.8 | 202.3 [59.3] 153.6 [45.0] 13.5 | | |
| O R D | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 239.2 [70.1] 166.7 [48.9] 17.4 | 230.8 [67.6] 144.1 [42.2] 17.1 | 222.4 [65.2] 123.0 [36.1] 16.8 | 218.4 [64.0] 182.5 [53.5] 16.0 | 210.8 [61.8] 159.3 [46.7] 15.7 | 203.1 [59.5] 137.4 [40.3] 15.5 | 211.7 [62.0] 199.1 [58.4] 14.6 | 204.3 [59.9] 174.7 [51.2] 14.4 | 196.8 [57.7] 151.6 [44.4] 14.1 | | |
| R Y B U | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 233.5 [68.4] 163.8 [48.0] 18.0 | 225.3 [66.0] 141.6 [41.5] 17.7 | 217.1 [63.6] 120.9 [35.4] 17.4 | 212.8 [62.4] 179.7 [52.7] 16.7 | 205.3 [60.2] 156.9 [46.0] 16.4 | 197.9 [58.0] 135.5 [39.7] 16.1 | 206.0 [60.4] 196.3 [57.5] 15.3 | 198.8 [58.3] 172.3 [50.5] 15.0 | 191.6 [56.2] 149.7 [43.9] 14.8 | | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 228.1 [66.8] 160.9 [47.2] 18.7 | 220.1 [64.5] 139.2 [40.8] 18.4 | 212.1 [62.2] 119.0 [34.9] 18.1 | 207.3 [60.8] 176.8 [51.8] 17.4 | 200.1 [58.6] 154.5 [45.3] 17.1 | 192.8 [56.5] 133.5 [39.1] 16.8 | 200.6 [58.8] 193.4 [56.7] 16.0 | 193.6 [56.7] 169.9 [49.8] 15.7 | 186.5 [54.7] 147.6 [43.3] 15.4 | | |
| E M E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 222.9 [65.3] 158.0 [46.3] 19.5 | 215.0 [63.0] 136.6 [40.0] 19.1 | 207.2 [60.7] 116.8 [34.2] 18.8 | 202.1 [59.2] 173.8 [50.9] 18.1 | 195.0 [57.1] 151.9 [44.5] 17.8 | 187.9 [55.1] 131.3 [38.5] 17.5 | 195.4 [57.3] 190.4 [55.8] 16.7 | 188.5 [55.2] 167.2 [49.0] 16.4 | 181.7 [53.3] 145.4 [42.6] 16.1 | | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 217.8 [63.8] 154.8 [45.4] 20.2 | 210.2 [61.6] 134.0 [39.3] 19.9 | 202.6 [59.4] 114.6 [33.6] 19.5 | 197.1 [57.8] 170.8 [50.1] 18.9 | 190.2 [55.7] 149.3 [43.8] 18.5 | 183.3 [53.7] 129.1 [37.8] 18.2 | 190.4 [55.8] 187.3 [54.9] 17.5 | 183.7 [53.8] 164.6 [48.2] 17.2 | 177.0 [51.9] 143.2 [42.0] 16.9 | | |
| R E °F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 213.1 [62.5] 151.8 [44.5] 21.0 | 205.6 [60.3] 131.3 [38.5] 20.7 | 198.1 [58.1] 112.2 [32.9] 20.3 | 192.3 [56.4] 167.6 [49.1] 19.7 | 185.6 [54.4] 146.6 [43.0] 19.3 | 178.8 [52.4] 126.8 [37.2] 19.0 | 185.6 [54.4] 184.2 [54.0] 18.3 | 179.1 [52.5] 162.0 [47.5] 18.0 | 172.6 [50.6] 141.0 [41.3] 17.6 | | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 208.5 [61.1] 148.5 [43.5] 21.9 | 201.2 [59.0] 128.5 [37.7] 21.5 | 193.8 [56.8] 109.8 [32.2] 21.1 | 187.7 [55.0] 164.3 [48.2] 20.5 | 181.2 [53.1] 143.8 [42.2] 20.1 | 174.6 [51.2] 124.4 [36.5] 19.8 | 181.0 [53.0] 180.9 [53.0] 19.1 | 174.6 [51.2] 159.1 [46.6] 18.8 | 168.3 [49.3] 138.5 [40.6] 18.4 | | |

CONDENSING UNIT

RAWL-240

WITH AIR HANDLER

RHGL-240

| | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① | | | | | | | | | | | |
|------------------|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
| | CI | FM [L/s] | 8640 [4078] | 7200 [3398] | 5760 [2718] | 8640 [4078] | 7200 [3398] | 5760 [2718] | 8640 [4078] | 7200 [3398] | 5760 [2718] | |
| | | DR 1) | .0 | .01 | .07 | .0 | .01 | .07 | .0 | .01 | .07 | |
| 0 | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 299.6 [87.8] 198.4 [58.2] 17.9 | 289.1 [84.7] 171.0 [50.1] 17.6 | 278.6 [81.6] 145.5 [42.7] 17.3 | 286.3 [83.9] 229.1 [67.2] 17.5 | 276.3 [81.0] 199.5 [58.5] 17.2 | 266.2 [78.0] 171.7 [50.3] 16.9 | 278.9 [81.7] 260.1 [76.2] 17.1 | 269.2 [78.9] 228.2 [66.9] 16.8 | 259.4 [76.0] 198.0 [58.0] 16.5 | |
| U T D O | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 292.6 [85.8] 194.7 [57.1] 18.9 | 282.3 [82.7] 167.8 [49.2] 18.6 | 272.0 [79.7] 142.8 [41.9] 18.3 | 279.3 [81.9] 225.3 [66.0] 18.5 | 269.5 [79.0] 196.3 [57.5] 18.2 | 259.7 [76.1] 169.1 [49.6] 17.8 | 271.9 [79.7] 256.4 [75.2] 18.1 | 262.4 [76.9] 225.0 [66.0] 17.7 | 252.8 [74.1] 195.3 [57.2] 17.4 | |
| O R D | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 285.4 [83.6] 191.0 [56.0] 20.0 | 275.4 [80.7] 164.7 [48.3] 19.6 | 265.4 [77.8] 140.3 [41.1] 19.3 | 272.2 [79.8] 221.7 [65.0] 19.6 | 262.6 [77.0] 193.2 [56.6] 19.2 | 253.1 [74.2] 166.6 [48.8] 18.9 | 264.8 [77.6] 252.8 [74.1] 19.1 | 255.5 [74.9] 221.9 [65.0] 18.8 | 246.2 [72.2] 192.8 [56.5] 18.5 | |
| R Y B U | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 278.1 [81.5] 187.3 [54.9] 21.1 | 268.3 [78.6] 161.5 [47.3] 20.8 | 258.6 [75.8] 137.6 [40.3] 20.4 | 264.8 [77.6] 217.9 [63.9] 20.7 | 255.5 [74.9] 190.0 [55.7] 20.3 | 246.2 [72.2] 163.8 [48.0] 20.0 | 257.4 [75.4] 249.0 [73.0] 20.3 | 248.4 [72.8] 218.7 [64.1] 19.9 | 239.4 [70.2] 190.1 [55.7] 19.6 | |
| L B T | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 270.6 [79.3] 183.6 [53.8] 22.3 | 261.1 [76.5] 158.4 [46.4] 21.9 | 251.6 [73.7] 135.0 [39.6] 21.5 | 257.3 [75.4] 214.2 [62.8] 21.9 | 248.3 [72.8] 186.9 [54.8] 21.5 | 239.3 [70.1] 161.3 [47.3] 21.1 | 249.9 [73.2] 245.2 [71.9] 21.5 | 241.2 [70.7] 215.6 [63.2] 21.1 | 232.4 [68.1] 187.5 [55.0] 20.7 | |
| E M P E | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 262.9 [77.0] 179.7 [52.7] 23.6 | 253.7 [74.4] 155.2 [45.5] 23.2 | 244.5 [71.7] 132.4 [38.8] 22.8 | 249.7 [73.2] 210.5 [61.7] 23.2 | 240.9 [70.6] 183.7 [53.8] 22.8 | 232.2 [68.1] 158.7 [46.5] 22.4 | 242.3 [71.0] 241.5 [70.8] 22.7 | 233.8 [68.5] 212.4 [62.3] 22.3 | 225.3 [66.0] 184.9 [54.2] 21.9 | |
| R A T U | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 255.1 [74.8] 176.1 [51.6] 24.9 | 246.2 [72.2] 152.2 [44.6] 24.5 | 237.2 [69.5] 129.8 [38.1] 24.1 | 241.9 [70.9] 206.9 [60.6] 24.5 | 233.4 [68.4] 180.7 [53.0] 24.1 | 224.9 [65.9] 156.1 [45.8] 23.6 | 234.5 [68.7] 234.5 [68.7] 24.1 | 226.3 [66.3] 209.4 [61.4] 23.6 | 218.0 [63.9] 182.3 [53.4] 23.2 | |
| R E °F | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 247.1 [72.4] 172.4 [50.5] 26.3 | 238.5 [69.9] 149.1 [43.7] 25.9 | 229.8 [67.3] 127.3 [37.3] 25.4 | 233.9 [68.5] 203.1 [59.5] 25.9 | 225.7 [66.1] 177.6 [52.1] 25.4 | 217.5 [63.7] 153.6 [45.0] 25.0 | 226.5 [66.4] 226.5 [66.4] 25.5 | 218.6 [64.1] 206.2 [60.4] 25.0 | 210.6 [61.7] 179.7 [52.7] 24.6 | |
| [°C] | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 239.0 [70.0] 168.7 [49.5] 27.8 | 230.6 [67.6] 145.9 [42.8] 27.3 | 222.2 [65.1] 124.7 [36.6] 26.8 | 225.8 [66.2] 199.4 [58.4] 27.3 | 217.9 [63.9] 174.5 [51.2] 26.9 | 209.9 [61.5] 151.0 [44.3] 26.4 | 218.4 [64.0] 218.4 [64.0] 26.9 | 210.7 [61.8] 203.1 [59.5] 26.5 | 203.1 [59.5] 177.3 [52.0] 26.0 | |

DR —Depression ratio dbE —Entering air dry bulb

wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH Sens —Sensible capacity x 1000 BTUH

Power—KW input

NOTES:

The the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

② Data includes 25 feet [7.62 m] of recommended suction/liquid lines.

RIGGING **ROOFTOP INSTALLATION**

If rooftop installation is required, make certain that the building construction is adequate for the weight of the unit. (Refer to physical data chart.) Before placing the unit on the roof, make certain that the nylon rigging slings are of sufficient length to maintain equilibrium of the unit when lifting. Under no circumstances should the unit be lifted by only one corner for rooftop installation.

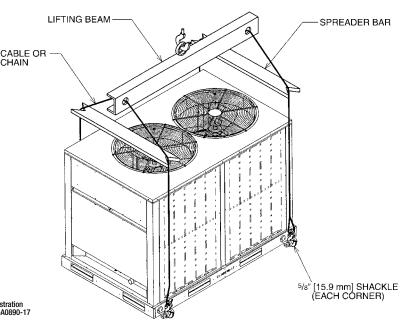


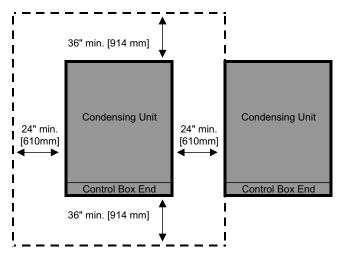
Illustration ST-A0890-17

GENERAL INSTALLATION

The condensing unit should be installed outdoors. It should be located as near as possible to the evaporator section to keep connecting refrigerant tubing lengths to a minimum. The unit must be installed to allow a free air flow to the condenser coils.

If several units are installed adjacent to each other, care must be taken to avoid recirculation of air from one condenser to another. In all installations, adequate space must be provided for installation and servicing.

CLEARANCES



SLAB INSTALLATION

Condensing units should be set on a solid level foundation. When installed at ground level, the unit should be placed on a cement slab. If the pad is formed at the installation site, do not pour the pad tight against the structure, otherwise vibration will be transmitted from the unit through the pad.

The unit must not be connected to any duct work. Do not locate unit under a roof drip; if necessary, install gutters, etc., to prevent water run-off from hitting the unit. To prevent air recirculation, it is recommended that the unit not be installed under an overhang, but if necessary allow a minimum of 60 inches [1524 mm] above the unit for air discharge.

[] 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 periods stated, in accordance with the terms of the limited warranty.

| Compressor | Five (5) Years |
|----------------|----------------|
| Any Other Part | One (1) Year |

*For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

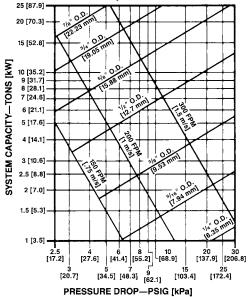
TYPICAL REFRIGERANT PIPING RECOMMENDATIONS

General Notes:

- 1. Vertical risers not to exceed 60 feet [18.29 mm].
- 2. Locate the condensing unit and evaporator(s) as close together as possible to minimize piping runs.
- 3 Condensing units are shipped with a nitrogen holding charge. Evacuate condensing unit before charging with refrigerant.

| E | EQUIVALENT LENGTH (FT.) [m] OF STRAIGHT TYPE "L" TUBING FOR Non-Ferrous Valves & Fittings (Brazed) | | | | | | | | | | | | |
|-----------------------------------|---|----------------|------------------------|-----------------------|---------------------|-----------------------|--|--|--|--|--|--|--|
| TUBE SIZE, INCHES [mm] 0.D. | SOLENOID VALVE | ANGLE VALVE | SHORT Radius Ell | LONG Radius Ell | TEE Line Flow | TEE Branch Flow | | | | | | | |
| ¹ /2 [13.00] | 12 [3.7] | 8.3 [2.5] | 1.6 [0.5] | 1.0 [0.3] | 1.0 [0.3] | 3.1 [0.9] | | | | | | | |
| ⁵ /8 [16.00] | 15 [4.6] | 10.4 [3.2] | 1.9 [0.6] | 1.2 [0.4] | 1.2 [0.4] | 3.6 [1.1] | | | | | | | |
| ³ /4 [19.00] | 18 [5.5] | 12.5 [3.8] | 2.1 [0.7] | 1.4 [0.4] | 1.4 [0.4] | 4.2 [1.3] | | | | | | | |
| 7/8 [22.00] | 21 [6.4] | 14.6 [4.4] | 2.4 [0.7] | 1.6 [0.5] | 1.6 [0.5] | 4.8 [1.5] | | | | | | | |
| 11/8 [29.00] | 12 [3.7] | 18.8 [5.7] | 3.0 [0.9] | 2.0 [0.6] | 2.0 [0.6] | 6.0 [1.8] | | | | | | | |
| 1 ³ /8 [35.00] | 15 [4.6] | 22.9 [7.0] | 3.6 [1.1] | 2.4 [0.7] | 2.4 [0.7] | 7.2 [2.2] | | | | | | | |
| 15/8 [41.00] | 18 [5.5] | 27.1 [8.3] | 4.2 [1.3] | 2.8 [0.8] | 2.8 [0.8] | 8.4 [2.6] | | | | | | | |
| 25/8 [54.00] | 21 [6.4] | 35.4 [10.8] | 5.3 [1.6] | 3.5 [1.1] | 3.5 [1.1] | 10.7 [3.3] | | | | | | | |

LIQUID LINE PRESSURE DROP PER 100 FEET [30.48 m] EQUIVALENT LENGTH (TYPE L COPPER TUBING)



NOTES:

- When evaporator coil is above condenser, the pressure drop due to vertical lift (.5 PSIG per foot of lift) [1.05 kPa per meter] must be added to the pressure drop derived from this curve.
- Size liquid line for **no more** than 10°F [5.6°C] loss (approximately 50 PSIG [206.8 kPa] total pressure drop).
- Do not oversize liquid line. Oversized liquid lines add significantly to the amount of refrigerant required to charge the system.
- The maximum recommended velocity with solenoid valves or other quick closing devices in the liquid line is 300 FPM [1.5 m/s].

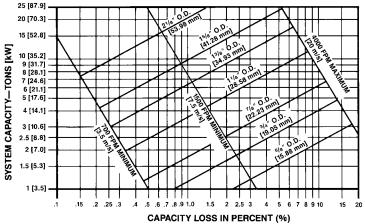
[] Designates Metric Conversions

| RECOMMENDED VAPOR AND LIQUID LINE Sizes to various length of run | | | | | | | | | | | |
|---|------------------------|------------------------|--|--------------------------|--|--|--|--|--|--|--|
| EQUIVALENT LENGTH TO | | -INE O.D. [mm] | VAPOR LINE O.D. (IN.) [mm] COOLING MODEL | | | | | | | | |
| EVAPORATOR | COOLING | G MODEL | | | | | | | | | |
| (FT.) [m] | 120 | 125 | 120 | 125 | | | | | | | |
| 1-15 [1-4.57] | ⁵ /8 [15.9] | ⁵ /8 [15.9] | 13/8 [34.9] | 13/8 [34.9] | | | | | | | |
| 16-50 [4.88-15.24] | ⁵ /8 [15.9] | ⁵ /8 [15.9] | 1 ³ /8 [34.9] | 1 ³ /8 [34.9] | | | | | | | |
| 51-100 [15.54-30.48] | ⁵ /8 [15.9] | ⁵ /8 [15.9] | 1 ³ /8 [34.9] | 1 ³ /8 [34.9] | | | | | | | |
| 101-150 [30.78-45.72] | ⁵ /8 [15.9] | ⁵ /8 [15.9] | 15/8 [41.3] | 15/8 [41.3] | | | | | | | |

| RECOMMENDED VAPOR AND LIQUID LINE SIZES TO VARIOUS LENGTH OF RUN | | | | | | | | | | | |
|---|------------------------|---------------------------|------------|-------------------------------|--------------------------|-------------|--|--|--|--|--|
| EQUIVALENT LENGTH TO | LIC | QUID LINE O (IN.) [mm] | .D. | VAPOR LINE O.D. (IN.) [mm] | | | | | | | |
| EVAPORATOR | CO | OLING MOD | EL | COOLING MODEL | | | | | | | |
| (FT.) [m] | 150 | 180 | 240 | 150 | 180 | 240 | | | | | |
| 1-15 [1-4.57] | ⁵ /8 [15.9] | ⁵ /8 [15.9] | 7/8 [22.2] | 13/8 [34.9] | 15/8 [41.3] | 15/8 [41.3] | | | | | |
| 16-50 [4.88-15.24] | ⁵ /8 [15.9] | ⁵ /8 [15.9] | 7/8 [22.2] | 15/8 [41.3] | 15/8 [41.3] | 15/8 [41.3] | | | | | |
| 51-100 [15.54-30.48] | ⁵ /8 [15.9] | ³ /4 [19.1] | 7/8 [22.2] | 15/8 [41.3] | 15/8 [41.3] | 21/8 [53.9] | | | | | |
| 101-150 [30.78-45.72] | ⁵ /8 [15.9] | ³ /4 [19.1] | 7/8 [22.2] | 21/8 [53.9] | 2 ¹ /8 [53.9] | 21/8 [53.9] | | | | | |

NOTE: Runs between condenser and evaporator not to exceed an equivalent length greater than 150 [45.7 m] feet.

VAPOR LINE SYSTEM CAPACITY LOSS IN PERCENT PER 100 FEET [30.48 m] EQUIVALENT LENGTH (TYPE L COPPER TUBING)



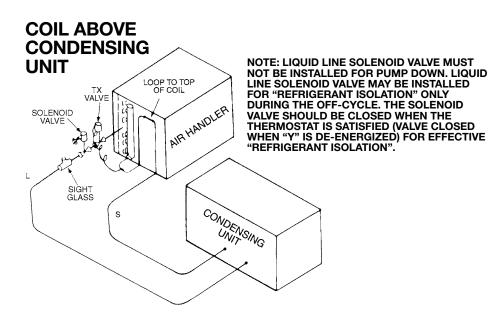
NOTES:

- 1) The minimum velocity line (700 fpm) [3.6 m/s] is recommended.
- 2) For vapor pressure drop (PSIG) [6.9 kPa], multiply percent (%) loss by 1.18.
- Size vapor lines for no more than 2°F [1.1°C] loss which corresponds to approximately 5 PSIG [20.7 kPa] pressure drop.
- Pitch all horizontal vapor lines downward in the direction of flow (1/2" [12.7 mm] to10' [3.0 m] run).

WARNING

Do not use oxygen to purge lines or pressure system for leak test. Oxygen reacts violently with oil, which can cause an explosion resulting in severe personal injury or death.

TYPICAL REFRIGERANT PIPING RECOMMENDATIONS (cont.)



REQUIRED OZS. [g] R410A CHARGE PER FT. [m] OF TUBING

| TUBE SIZE O.D. (IN.) [mm] | LIQUID (OZ.) [g] | VAPOR (OZ.) [g] | |
|------------------------------------|---------------------|--------------------|--|
| ¹ / ₂ [12.7] | 1.06 [30.0] | .04 [1.13] | |
| ⁵ /8 [15.88] | 1.65 [46.7] | .07 [1.98] | |
| ³ /4 [19.05] | 2.46 [69.7] | .10 [2.83] | |
| 7/8 [22.23] | 3.28 [92.9] | .13 [3.68] | |
| 11/8 [28.58] | | .22 [6.23] | |
| 1 ³ /8 [34.93] | | .34 [9.63] | |
| 15/8 [41.28] | | .48 [13.60] | |
| 21/8 [53.98] | | .84 [23.81] | |

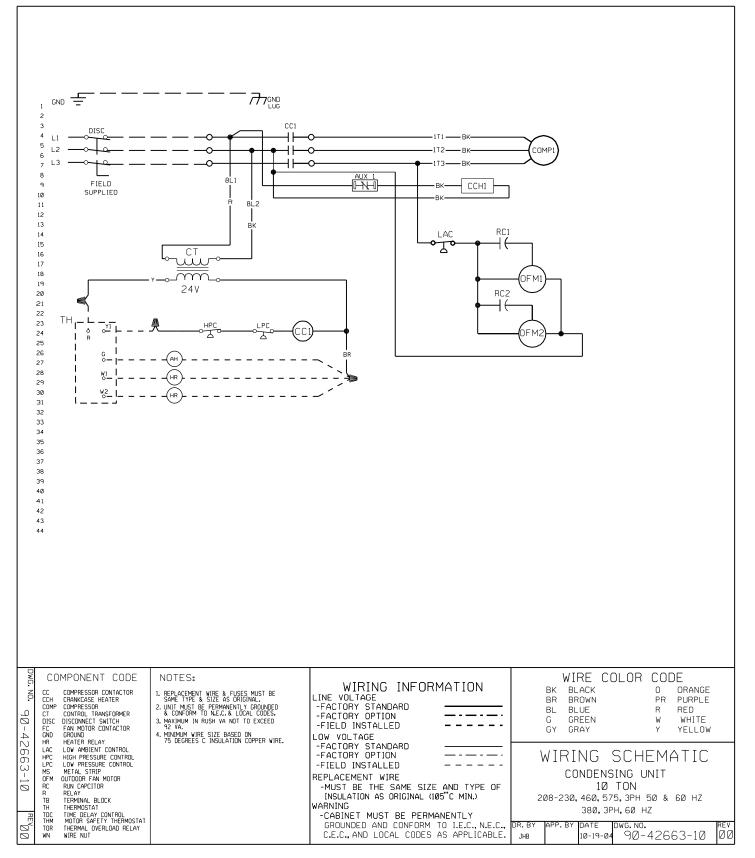
Quantities based on 110°F liquid and 45°F vapor.

BASIC SYSTEM CHARGE*

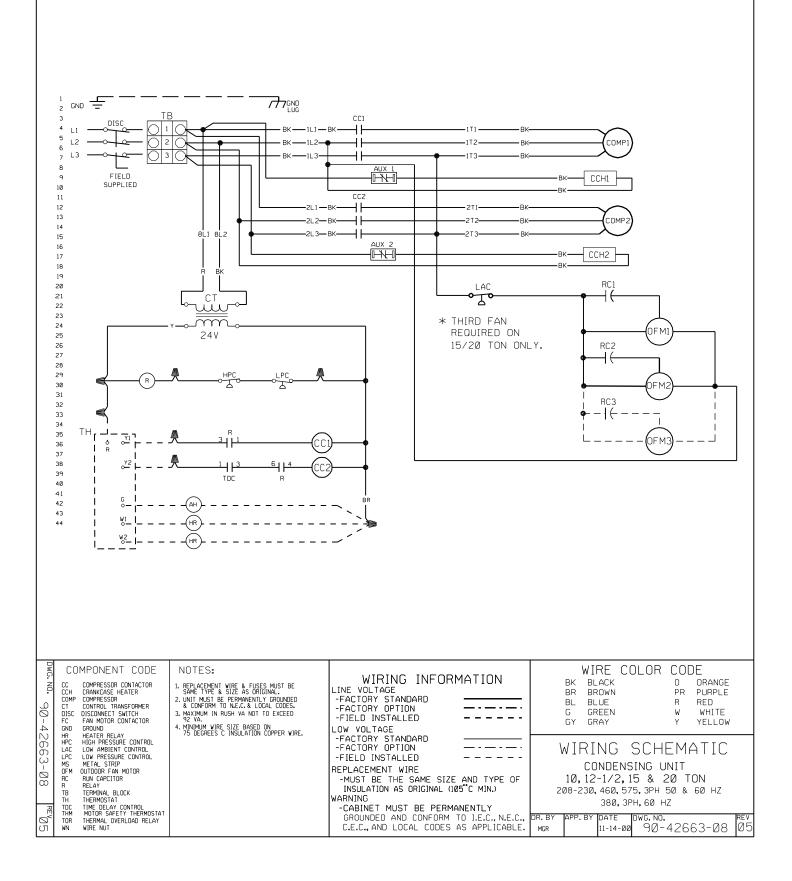
| RAWL-120 | RAWL-125 | RAWL-150 | RAWL-180 | RAWL-240 |
|----------|----------|-----------|-----------|-----------|
| 339 oz. | 300 oz. | 378 oz. | 506 oz. | 655 oz. |
| [9610 g] | [8505 g] | [10716 g] | [14345 g] | [18569 g] |

*System with 0 feet [m] of tubing.

TYPICAL WIRING SCHEMATIC - RAWL-120 10 TON [35.2 kW]



TYPICAL WIRING SCHEMATIC— RAWL-125, 150, 180, 240 10 TON [35.2, 44.0, 52.8, 70.3 kW]



SEQUENCE OF OPERATION RAWL-120, Single Stage

- 1. When the room thermostat is set on "Cool", "Fan Auto", and the temperature is higher than the thermostat setting, the thermostat "Y1" circuit closes and energizes the compressor contactor (CC) through the closed contacts of the high pressure and low pressure controls. Power to the crankcase heater (CCH) will be de-energized by the auxiliary contacts (AUX-1)
- 2. Simultaneously, the "G" circuit provides power to the indoor blower motor circuit and starts indoor air circulation through the evaporator coil.
- 3. When the discharge pressure increases to 450 psig, the contacts on the low ambient control (LAC) will allow supply power to start the outdoor fan motors (ODF) which begin to pull air through the condenser coils.
- 4. The system will continue cooling operation, as long as the room thermostat "Y1" circuit and all safety device contacts are closed. The low ambient control (LAC) will open and close, allowing the outdoor fans to maintain discharge pressure between 250 and 450 psig.
- 5. When the thermostat is satisfied, the "Y1" circuit will open and de-energize the compressor contactor (CC), stopping compressor operation and closing the auxiliary contacts (AUX-1), which energizes the crankcase heater (CCH).
- 6. The thermostat "G" circuit will stop blower operation.

SEQUENCE OF OPERATION RAWL-125, 150, 180, 240, Two Stage

- When the room thermostat is set on "Cool", "Fan Auto", and the temperature is higher than the thermostat setting, the thermostat "Y1" circuit closes and energizes the number one compressor contactor (CC1) through the closed cooling relay (R) contacts. Power to the crankcase heater (CCH1) will be de-energized by the auxiliary contacts (AUX-1).
- 2. Simultaneously, the "G" circuit provides power to the indoor blower motor circuit and starts indoor air circulation through the evaporator coil.
- 3. When the discharge pressure increases to 450 psig, the contacts on the low ambient control (LAC) will allow supply power to start the outdoor fan motors (ODF) which begin to pull air through the condenser coils. The system is now in first stage cooling, operating at near fifty percent of full load capacity.
- 4. If the temperature at the thermostat continues to increase, the thermostat "Y2" circuit closes and after a 30 second delay, power passes through the time delay control (TDC) and energizes the number two compressor contactor (CC2) through the second set of closed cooling relay (R) contacts. Power to the crankcase heater (CCH2) will be de-energized by the auxiliary contacts (AUX-2)

- 5. The system will continue cooling at maximum capacity, as long as the room thermostat is demanding full load and all safety device contacts are closed. The low ambient control (LAC) will open and close, allowing the outdoor fans to maintain discharge pressure between 250 and 450 psig.
- 6. As the temperature at the thermostat drops enough to satisfy "Y2", the circuit will open and de-energize the compressor contactor (CC2), stopping compressor operation and closing the auxiliary contacts (AUX-2), which energizes the crankcase heater (CCH2).
- 5. When continued cooling satisfies the "Y1" circuit, it will open and de-energize the compressor contactor (CC1), stopping compressor operation and closing the auxiliary contacts (AUX-1), which energizes the crankcase heater (CCH1).
- 6. The thermostat "G" circuit will stop blower operation.

SAMPLE SPECIFICATIONS

Furnish and install as shown on the drawing Ruud Model _______air cooled condensing unit suitable for out-

door application.

COMPRESSOR—Unit shall have scroll compressor(s). It shall be externally mounted on rubber grommets to reduce vibration transmission and noise to surrounding area. Maximum power input shall not be more than ______ at conditions specified.

LOW AMBIENT CONTROL—All units shall have standard head pressure controls that cycle the condenser fan motors to maintain condensing pressures for operation down to $0^{\circ}F$ [-17.8°C] ambient (12.5 and 15 ton [44.0 and 52.8 kW] models only.)

CAPACITY – Capacity shall be _____ BTU/H when operating at _____ °F [°C] saturated suction temperature.

MOTORS & FANS—Each unit shall have 1075 RPM sleeve bearing, permanently lubricated motor(s) fixed with directdrive, dual bladed fan(s). Motor(s) shall be equipped with inherent overload protection. Motor(s) & fan(s) shall be mounted on top panel for easy access. Condenser air shall discharge vertically.

COILS—Coils shall be fabricated of ³/⁸ [9.53 mm] O.D. seamless copper tubing and aluminum fins with die-formed collars mechanically bonded to tubes arranged in a staggered pattern. All coils shall be submitted to a pressure test after fabrication and dehydrated. Units shall be shipped with a dry nitrogen holding charge. Airflow shall be drawn through design providing uniform air distribution across the coil surface.

CASINGS—Casings shall make unit suitable for outdoor installation. Casing, base pan and framework shall be manufactured of galvanized sheet metal subjected to multistage cleaning, primed, and finished with a durable powder coat paint, capable of withstanding a 1000-HR salt spray test per ASTM B 117. Units shall have stamped louver panels offering 100% protection of the condenser coil. Openings shall be provided for power. Dimensions of entire assembly shall be not more than _____ inches [mm] high, _____ inches [mm] long and _____ inches [mm] wide.

REFRIGERATION CIRCUIT—Shall include the compressor, the condenser coils, all internal refrigerant piping and liquid and suction line service valves. Refrigerant stubs shall be extended through the cabinet for external field connection without affecting accessibility to compressor compartment.

CONTROL PANEL—The panel shall be designed for single power source to the compressor and fan motor(s) and shall include fan cycling control, and compressor contactor.

SAFETY CONTROLS – Manual reset high pressure and automatic reset low pressure control shall be provided.

FACTORY TESTING - All units shall be test run at the factory.

NOTES

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.

Ruud Heating, Cooling and Water Heating



P.O. Box 17010, Fort Smith, AR 72917

"In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice." PRINTED IN U.S.A. 10-17 QG