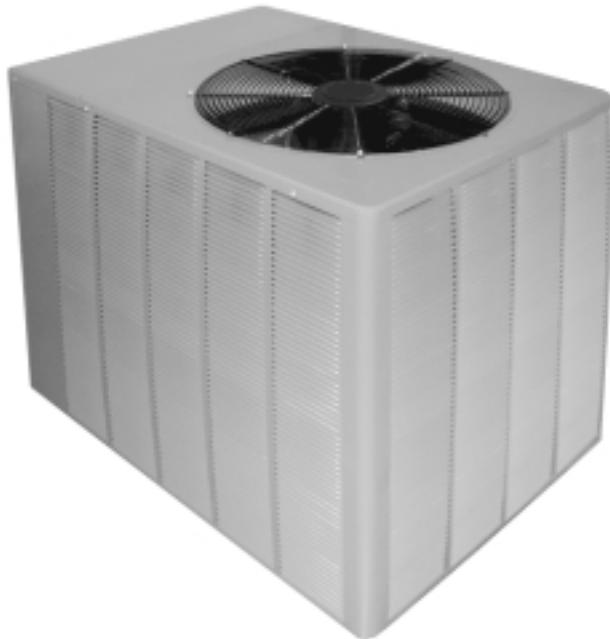


Commercial Standard and High-Efficiency Condensing Units



**RAWD—Standard Efficiency
RAWE—High Efficiency**

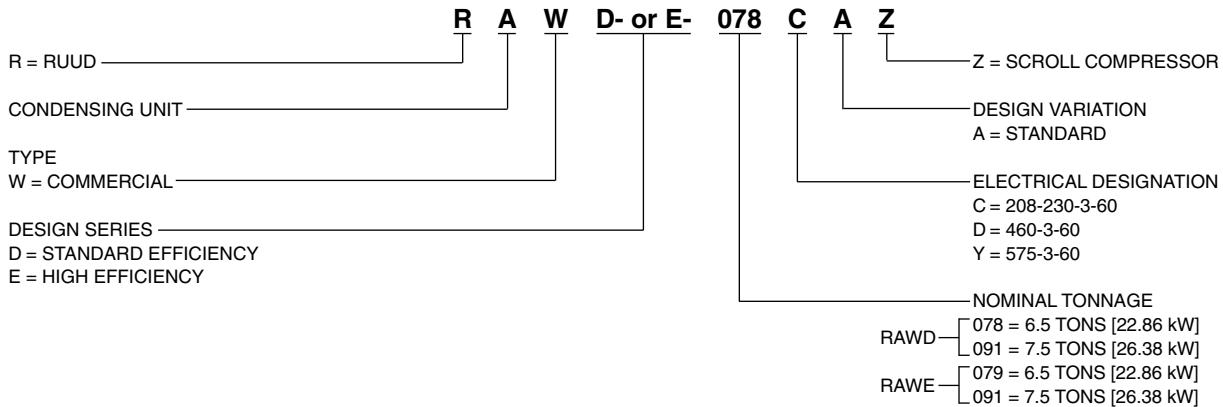
**6.5 & 7.5 TON MODEL
[22.86 & 26.38 kW]**



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MODEL IDENTIFICATION



[] Designates Metric Conversions

CONDENSING UNIT ACCESSORIES

| ACCESSORY DESCRIPTION | MODEL NUMBER | SIZES USED ON |
|-----------------------------|--------------|-----------------------------|
| Anti-Short Cycle Timer Kit | RXAT-A01 | RAWD-078, 091 RAWE-079, 091 |
| Sight Glass | RXAG-A048 | RAWD-078, 091 RAWE-079, 091 |
| Liquid Line Solenoid Valve* | RXAV-BD048 | RAWD-078, 091 RAWE-079, 091 |
| Suction Line Service Valve | RXMV-AA | RAWD-078, 091 |
| Suction Line Service Valve | RXMV-AC | RAWE-079, 091 |

*May be used as isolation valve only. Do not use as a pump-down solenoid. Refer to system wiring diagram.

STANDARD UNIT FEATURES

CABINET—Galvanized steel with powder coat paint finish. The powder coat paint finish is high gloss, durable and capable of withstanding a 1000-HR salt spray test per ASTM B117. The unit is of the frame and panel type of construction which allows all access panels to be opened or removed without affecting the structural strength of the unit. Fastening screws are also of the 1000-HR type. Stamped louver panels offer 100% protection for the condenser coil.

BASE PAN—Galvanized steel with powder coat paint finish.

SERVICE ACCESS—Control box with separation between line and control voltages, as well as compressor and other refrigerant controls are accessible through removable panel without affecting normal operation of unit.

FAN MOTOR—Condenser fan motor(s) are mounted on removable top panel(s) which bring the motor(s) out to you and expose entire condenser coil for cleaning.

COMPRESSOR—The Scroll Compressor is hermetically sealed with internal high temperature protection, and durable insulation on motor windings. The entire compressor is mounted on rubber grommets to reduce vibration and noise. Compressors have an internal pressure relief assembly to protect against excessive pressure differential. There is a separate compressor compartment for easy service access.

COMPRESSOR CRANKCASE HEATER—External wrap-around heater helps prevent refrigerant migration to the compressor oil during long off periods.

CONDENSER COILS—Constructed with copper tubes and aluminum fins mechanically bonded to tubes for maximum heat transfer capabilities. All coil assemblies are leak tested up to 300 PSIG internal pressure.

REFRIGERANT CONNECTIONS—All field sweat joints are made external of the unit and are located close to the ground for a neat looking installation.

LOW AMBIENT CONTROL—A pressure sensitive fan cycling control allows operation of units down to 0°F [-18°C].

HIGH PRESSURE CONTROL—Manual reset control deactivates system if abnormally high pressure occurs.

LOW PRESSURE CONTROL—Automatic reset control deactivates system if abnormally low pressure or refrigerant loss occurs.

SERVICE VALVE—Standard on liquid line.

CONDENSER FAN MOTORS—Direct drive, single-phase permanently lubricated "PSC" motors with inherent overload protection.

TRANSFORMER—50VA step-down type, from Line to 24 volts.

CONTACTOR—The contactor is an electrical switch which operates the compressor and condenser fans. Its 24 volt coil is activated through the High Pressure Control and Low Pressure Control on a call for cooling.

EQUIPMENT GROUND—Lug for field connection of ground wire.

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

CONTROL BOX—The control box is located in the top corner of the cabinet providing for easy access through a service panel.

COMPRESSOR TIME DELAY CONTROL—Compressor will remain off for five minutes after power or thermostat interruption, allowing system pressures to equalize. (Model No. RXMD-B01)

HARD START KITS—Hard start kits are available.

[] Designates Metric Conversions

SELECTION PROCEDURE— MATCHED SYSTEMS

Example 1: Determine the Net System Performance of Condensing Unit RAWD-091 with RHGG-120 at 3840 CFM [1793 L/s] @ .30" [.07 kPa] external static pressure, 80°F [27°C] DB/67°F [19°C] WB entering indoor air and 95°F [35°C] DB outdoor ambient.

From Performance Data—Condensing Unit RAWD-091 with Air Handler RHGE-120Z:

$$\text{Total Cap. (gross)} = 94.5 \times 1000 = 94,500 \text{ BTUH [27.69 kW]}$$

$$\text{Sens. Cap. (gross)} = 79 \times 1000 = 79,000 \text{ BTUH [23.15 kW]}$$

$$\text{Power (gross)} = 8.5 \times 1000 = 8,500 \text{ WATTS}$$

From Commercial Air Handler Form No. H11-514, Wet Coil Airflow Performance Data:

$$\text{Power} = 1,596 \text{ WATTS}$$

$$= 1,596 \times 3.412 = 5,445 \text{ BTUH [1.59 kW]}$$

Therefore, the Net Performance is:

$$\text{Total Cap. (Net)} = 94,500 - 5,445 = 89,055 \text{ BTUH [26.10 kW]}$$

$$\text{Sens. Cap (Net)} = 79,000 - 5,445 = 73,555 \text{ BTUH [21.55 kW]}$$

$$\text{Power (Net)} = 8,500 + 1,596 = 10,096 \text{ WATTS}$$

$$\text{EER} = 89,055 \div 10,096 = 8.82 \text{ BTUH [2.60 w/w] WATT}$$

Example 2: Determine the Sensible Net Capacity at 75°F [27°C] DB entering indoor air with the other conditions from Example 1 being the same.

From Performance Data—Condensing Unit RAWD-091 with Air Handler RHGE-120

$$\text{Sens. Cap (Net)} = 73,555 \text{ BTUH [21.56 kW]}$$

(from Example 1)

Adjust Capacity for temperature other than 80°F [27°C] entering air:

$$\text{Adjustment: } [1.10 \times 3840 \times (1-1.16) \times (75-80)] = -17,530 \text{ BTUH [-5.08 kW]}$$

Therefore, Sensible Capacity (Net) at 75°F [24°C] entering air is:

$$73,555 - 17,530 = 56,025 \text{ BTUH [16.42 kW] (Sens.)}$$

Example 3: Determine Net System Capacity Performance with 150 feet [45.7 m] equivalent length of 1³/₈" [34.9 mm] O.D. vapor line, with other conditions in example 1 being the same.

From piping chart, Vapor Line System Capacity Loss, in this booklet:

$$\text{Capacity Loss} = 1.3\% \text{ per 100 [30.5m] feet of line}$$

The condensing unit Performance Data includes 25 feet [7.6 m] of recommended vapor line; therefore, calculate the System performance with 125 feet [38.1 m] of additional line:

$$\text{Total Cap. (gross)} = 94,500 - [(0.013 \times 125 \div 100) \times 94,500] = 92,964 \text{ BTUH [27.25 kW]}$$

$$\text{Sens. Cap (gross)} = 79,000 - [(0.013 \times 125 \div 100) \times 79,000] = 77,716 \text{ BTUH [22.77 kW]}$$

Thus, the Net Performance is:

$$\text{Total Cap. (Net)} = 92,964 - 5,445 = 87,519 \text{ BTUH [25.65 kW]}$$

$$\text{Sens. Cap. (Net)} = 77,716 - 5,445 = 72,271 \text{ BTUH [21.18 kW]}$$

[] Designates Metric Conversions

SELECTION PROCEDURE— MIXED SYSTEMS

Example 4: Determine the Net System Performance of Condensing Unit RAWD-091 with Air Handler RHGG-090Z at 3250 CFM [1533 L/s] @ .40" [.10 kPa] external static pressure, 80°F [27°C] DB/67°F [19°C] WB entering indoor air and 95°F [35°C] DB outdoor ambient.

- a. From the Condensing Unit Performance Data in this book:
 Plot Condensing Unit Data (Figure 1)

| 40°F [4°C] | 45°F [7°C] | 50°F [10°C] |
|---------------------------------------|---------------------------------------|---------------------------------------|
| 75,900 BTUH [22.24 kW] 7,200 WATTS | 83,500 BTUH [24.45 kW] 7,300 WATTS | 91,500 BTUH [26.80 kW] 7,400 WATTS |

- b. From Commercial Air Handler Form No. H11-514. Wet Coil Performance Data:
 Plot Evaporator Performance Data (Figure 1)

| 40°F [4°C] | 45°F [7.2°C] | 50°F [10.0°C] |
|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|
| 129,300 BTUH [37.89 kW] Total 88,600 BTUH [25.97 kW] Sensible | 109,400 BTUH [32.06 kW] Total 79,900 BTUH [23.42 kW] Sensible | 86,100 BTUH [25.24 kW] Total 70,600 BTUH [20.69 kW] Sensible |

- c. From Indoor Blower Performance Curves, (Wet Coil):

$$\begin{aligned} \text{Power} &= 1,020 \text{ WATTS} \\ &= 1,020 \times 3.412 = 3,480 \text{ BTUH [1.02 kW]} \end{aligned}$$

- d. Total (gross) = 90,000 BTUH [26.38 kW] (from plot)
 Sens. (gross) = 73,000 from evaporator table by interpolation @ plot evaporator temperature°F
 Power (gross) = 7,450 WATTS (from plot)

- e. Therefore, the Net Performance is:

$$\begin{aligned} \text{Total (Net)} &= 90,000 - 3,480 = 86,520 \text{ BTUH [25.27 kW]} \\ \text{Sens. (Net)} &= 72,000 - 3,480 = 68,520 \text{ BTUH [20.08 kW]} \\ \text{Power (Net)} &= 7,450 + 1,020 = 8,470 \text{ WATTS} \\ \text{EER} &= 86,250 \div 8,470 = 10.18 \text{ BTUH [2.99 w/w]/WATT} \end{aligned}$$

Example 5: Determine the Sensible Net Capacity at 75°F dbE with the other conditions from Example 4 being the same.

From the Commercial Air Handler Performance Data in Form No. H11-514.

$$\begin{aligned} \text{Sens. Cap. (gross)} &= \text{Sens. Cap} @ 75°F [24°C] \\ &= 56,820 \text{ BTUH [16.64 kW]} \text{—Interpolation from air handler} \\ &\quad \text{performance data @ plot E.T.} \end{aligned}$$

$$\begin{aligned} \text{Adjusted Sens. Cap. (Net)} &= 56,820 - 3,480 \\ &= 53,340 \text{ BTUH [15.63 kW]} \end{aligned}$$

From Example 4, Total Cap. (Net), Power (Net) and EER remain the same.

Example 6: Determine Net System Performance with 150 feet [45.7 m] equivalent length of 13/8" [34.9 mm] O.D. vapor line, with other conditions in Example 4 being the same.

From Piping Chart, Vapor Line System Capacity Loss, in this book:

$$\text{Capacity Loss} = 1.6\% \text{ per 100 feet [30.5 m] of line}$$

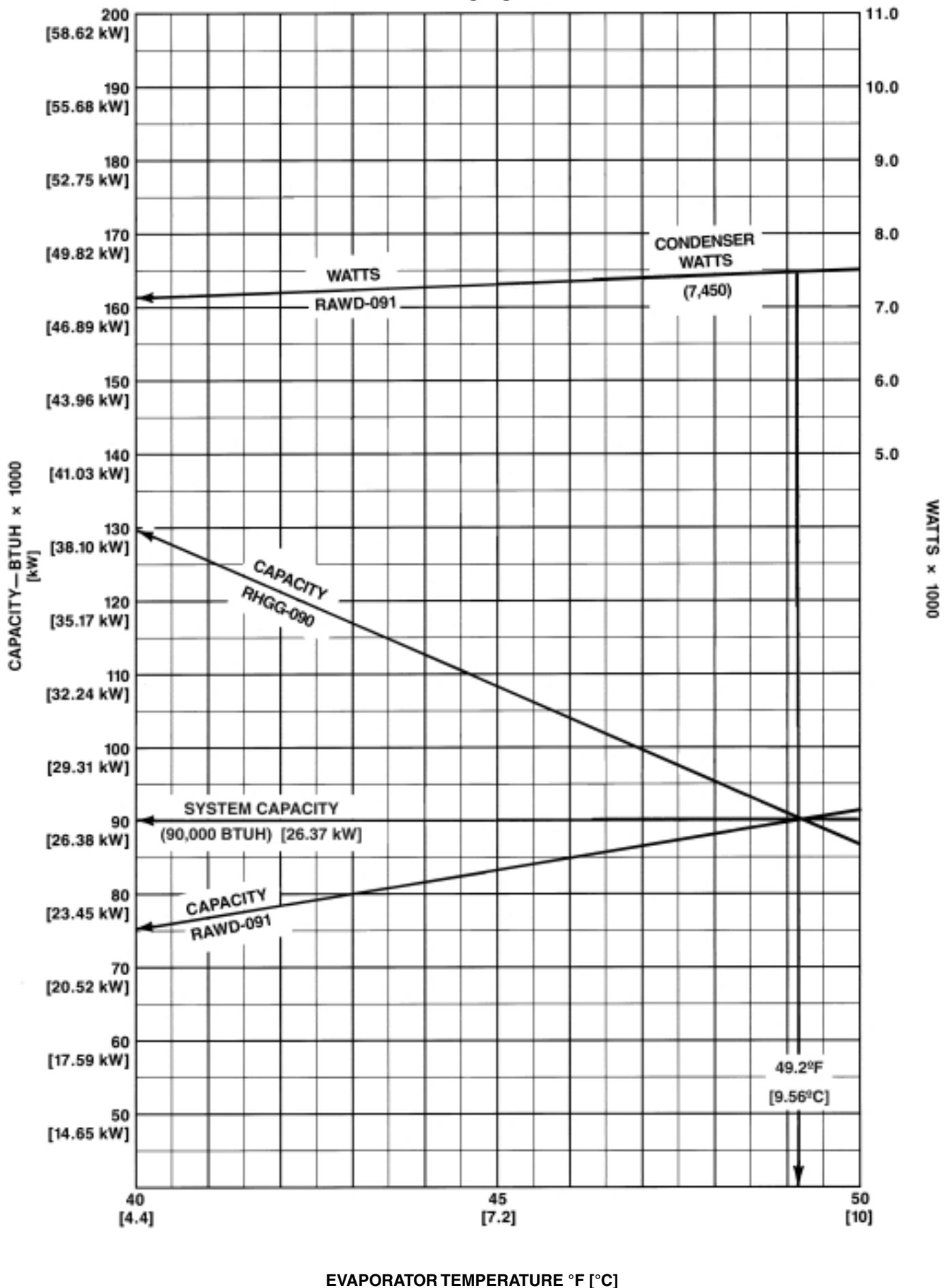
The Condensing Unit Performance Data includes 25 feet [7.6 m] of recommended vapor line. Therefore, calculate the System Performance with 125 feet [38.1 m] of additional line:

$$\begin{aligned} \text{Total (gross)} &= 90,000 - [(0.016 \times 125 \div 100) \times 90,000] = 88,991 \text{ BTUH [26.07 kW]} \\ \text{Sens. (gross)} &= 72,000 - [(0.016 \times 125 \div 100) \times 72,000] = 70,560 \text{ BTUH [20.67 kW]} \end{aligned}$$

Therefore, the Net Performance is:

$$\begin{aligned} \text{Total Net} &= 88,991 - 3,480 = 85,511 \text{ BTUH [25.06 kW]} \\ \text{Sens. Net} &= 70,560 - 3,480 = 67,080 \text{ BTUH [19.71 kW]} \\ \text{Power Net} &= 8,470 \text{ WATTS} \\ \text{EER} &= 85,511 \div 8,470 = 10.09 \text{ BTUH [2.95 w/w]/WATT} \end{aligned}$$

FIGURE 1
MIXED SYSTEM



CONDENSING UNIT—GROSS CAPACITY AND POWER

RAWE-079

| °F [°C] OUTDOOR AMBIENT TEMPERATURE | SATURATED EVAPORATOR TEMPERATURE | | | | | |
|----------------------------------------------|----------------------------------|-----|--------------|-----|--------------|-----|
| | 40 [4] | | 45 [7] | | 50 [10] | |
| | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 76.2 [22.33] | 5.2 | 85.7 [25.12] | 5.4 | 94.2 [27.61] | 5.8 |
| 80 [27] | 74.0 [21.69] | 5.4 | 82.6 [24.21] | 5.6 | 91.5 [26.82] | 6.0 |
| 85 [29] | 71.7 [21.01] | 5.6 | 80.7 [23.65] | 5.9 | 88.7 [26.00] | 6.2 |
| 90 [32] | 69.5 [20.37] | 5.8 | 78.2 [22.92] | 6.1 | 86.0 [25.20] | 6.6 |
| 95 [35] | 67.2 [19.69] | 6.0 | 75.6 [22.16] | 6.3 | 83.2 [24.38] | 6.7 |
| 100 [38] | 64.9 [19.02] | 6.2 | 73.1 [21.42] | 6.6 | 80.5 [23.59] | 6.9 |
| 105 [41] | 62.6 [18.35] | 6.3 | 70.5 [20.66] | 6.8 | 77.7 [22.77] | 7.2 |
| 110 [43] | 60.4 [17.70] | 6.5 | 68.0 [19.93] | 7.0 | 75.1 [22.01] | 7.3 |
| 115 [46] | 58.2 [17.06] | 6.7 | 65.4 [19.17] | 7.2 | 72.3 [21.19] | 7.6 |

RAWE-091

| °F [°C] OUTDOOR AMBIENT TEMPERATURE | SATURATED EVAPORATOR TEMPERATURE | | | | | |
|----------------------------------------------|----------------------------------|-----|--------------|-----|---------------|-----|
| | 40 [4] | | 45 [7] | | 50 [10] | |
| | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 87.5 [25.64] | 6.0 | 96.8 [28.37] | 6.2 | 106.0 [31.07] | 6.5 |
| 80 [27] | 84.8 [24.85] | 6.2 | 94.0 [27.55] | 6.5 | 102.6 [30.07] | 6.9 |
| 85 [29] | 82.0 [24.03] | 6.4 | 91.2 [26.73] | 6.8 | 99.5 [29.16] | 7.1 |
| 90 [32] | 79.2 [23.21] | 6.6 | 88.0 [25.79] | 7.0 | 96.8 [28.37] | 7.4 |
| 95 [35] | 76.5 [22.42] | 6.9 | 84.8 [24.85] | 7.3 | 94.0 [27.55] | 7.6 |
| 100 [38] | 73.7 [21.60] | 7.1 | 82.0 [24.03] | 7.6 | 90.3 [26.46] | 8.0 |
| 105 [41] | 71.0 [20.81] | 7.4 | 79.2 [23.21] | 7.8 | 86.6 [25.38] | 8.2 |
| 110 [43] | 68.2 [19.99] | 7.6 | 76.0 [22.27] | 8.1 | 83.4 [24.44] | 8.6 |
| 115 [46] | 65.4 [19.17] | 7.9 | 72.8 [21.34] | 8.3 | 80.2 [23.50] | 8.8 |

RAWD-078

| °F [°C] OUTDOOR AMBIENT TEMPERATURE | SATURATED EVAPORATOR TEMPERATURE | | | | | |
|----------------------------------------------|----------------------------------|------|--------------|-----|--------------|-----|
| | 40 [4] | | 45 [7] | | 50 [10] | |
| | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 73.0 [21.40] | 5.37 | 82.1 [24.07] | 5.6 | 90.2 [26.44] | 6.0 |
| 80 [27] | 70.9 [20.78] | 5.57 | 79.1 [23.19] | 5.8 | 87.6 [25.68] | 6.2 |
| 85 [29] | 68.7 [20.14] | 5.77 | 77.3 [22.66] | 6.1 | 85.0 [24.92] | 6.4 |
| 90 [32] | 66.6 [19.52] | 5.99 | 74.9 [21.96] | 6.3 | 82.4 [24.15] | 6.8 |
| 95 [35] | 64.4 [18.88] | 6.20 | 72.4 [21.22] | 6.5 | 79.7 [23.36] | 6.9 |
| 100 [38] | 62.2 [18.23] | 6.39 | 70.0 [20.52] | 6.8 | 77.1 [22.60] | 7.1 |
| 105 [41] | 60.0 [17.59] | 6.50 | 67.5 [19.79] | 7.0 | 74.4 [21.81] | 7.4 |
| 110 [43] | 57.9 [16.97] | 6.70 | 65.1 [19.08] | 7.2 | 71.9 [21.08] | 7.6 |
| 115 [46] | 55.7 [16.33] | 6.95 | 62.6 [18.35] | 7.4 | 69.3 [20.31] | 7.9 |

RAWD-091

| °F [°C] OUTDOOR AMBIENT TEMPERATURE | SATURATED EVAPORATOR TEMPERATURE | | | | | |
|----------------------------------------------|----------------------------------|-----|--------------|-----|---------------|-----|
| | 40 [4] | | 45 [4] | | 50 [4] | |
| | MBH [kW] | KW | MBH [kW] | KW | MBH [kW] | KW |
| 75 [24] | 84.4 [24.73] | 6.0 | 92.4 [27.08] | 6.2 | 100.7 [29.52] | 6.3 |
| 80 [27] | 82.3 [24.11] | 6.3 | 90.2 [26.43] | 6.4 | 98.4 [28.84] | 6.6 |
| 85 [29] | 80.2 [23.49] | 6.6 | 88.0 [25.78] | 6.7 | 96.1 [28.16] | 6.9 |
| 90 [32] | 78.0 [22.87] | 6.9 | 85.8 [25.13] | 7.0 | 93.8 [27.48] | 7.2 |
| 95 [35] | 75.9 [22.24] | 7.2 | 83.5 [24.45] | 7.3 | 91.5 [26.80] | 7.4 |
| 100 [38] | 73.8 [21.62] | 7.4 | 81.2 [23.80] | 7.6 | 89.0 [26.08] | 7.7 |
| 105 [41] | 71.7 [21.00] | 7.8 | 79.0 [23.15] | 8.0 | 86.6 [25.38] | 8.1 |
| 110 [43] | 69.4 [20.35] | 8.2 | 76.7 [22.47] | 8.4 | 84.2 [24.68] | 8.5 |
| 115 [46] | 67.3 [19.72] | 8.6 | 74.5 [21.82] | 8.8 | 81.9 [24.00] | 8.9 |

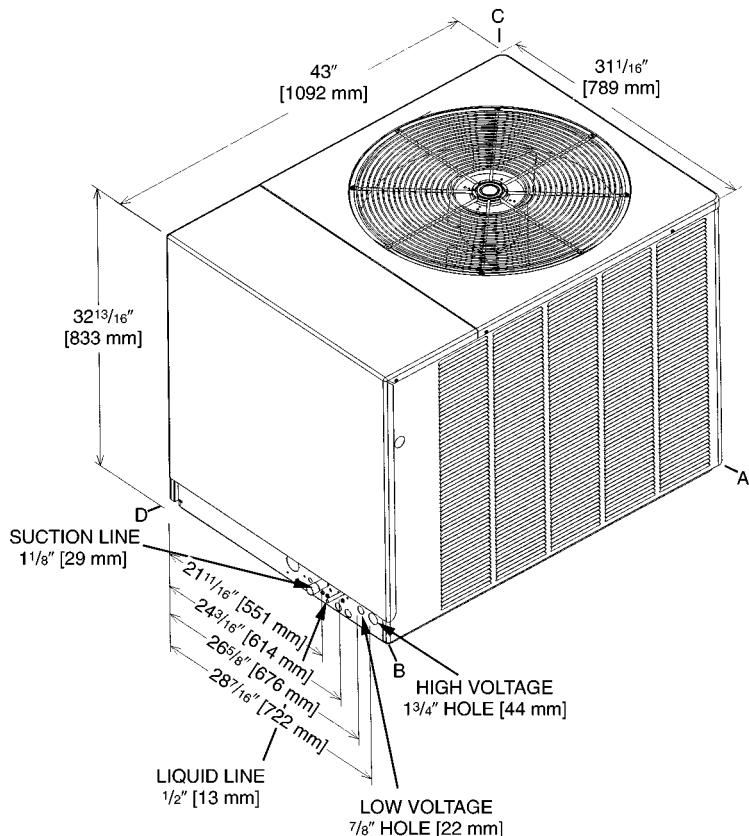
KW —Condensing Unit Power (Compressor + Fan)

MBH—Gross Capacity X 1000 BTUH

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 & WEIGHTS



NOTE: Allow 24" clearance on compressor access panel side of unit and 12" clearance on all other sides.

6.5 TON [22.86 kW] 7.5 TON [26.38 kW]

CORNER WEIGHTS (LBS.) [kg]

| Model | Total Weight Lbs. [kg] | Corner Weights, Lbs. [kg] | | | |
|----------|------------------------|---------------------------|------------|------------|-------------|
| | | A | B | C | D |
| RAWD-078 | 244 [111] | 41 [19.34] | 63 [29.04] | 54 [24.50] | 86 [39.01] |
| RAWD-091 | 254 [115] | 43 [20.28] | 66 [29.94] | 56 [25.40] | 89 [40.37] |
| RAWE-079 | 266 [121] | 45 [20.41] | 66 [29.94] | 63 [28.58] | 91 [41.28] |
| RAWE-091 | 330 [150] | 55 [24.95] | 87 [39.46] | 73 [33.11] | 116 [52.62] |

Designates Metric Conversions

PERFORMANCE DATA @ ARI STANDARD CONDITIONS—COOLING: RAWE-

| MODEL NUMBERS | | 80°F [26.5°C] DB/67°F [19.5°C] WB INDOOR AIR 95°F [35°C] DB OUTDOOR AIR | | | | SOUND RATING | INDOOR CFM [L/s] |
|--------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------|-----------------------|-------|--------------|------------------|
| OUTDOOR UNIT RAWE- | INDOOR COIL AND/OR AIR HANDLER | TOTAL CAPACITY BTU/H [kW] | NET SENSIBLE BTU/H [kW] | NET LATENT BTU/H [kW] | EER | | |
| 079CAZ | RCCU-D5013 | 76,000 [22.3] | 59,828 [17.5] | 16,172 [4.7] | 10.30 | 8.6 | 2,400 [1133] |
| | RCJC-C090 | 74,000 [21.7] | 56,708 [16.6] | 17,292 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| | (RHGG-090H) | 74,000 [21.7] | 56,536 [16.6] | 17,464 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| | (RHGG-090Z) ① | 74,000 [21.7] | 56,708 [16.6] | 17,292 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| 079DAZ | RCCU-D5013 | 76,000 [22.3] | 59,828 [17.5] | 16,172 [4.7] | 10.30 | 8.6 | 2,400 [1133] |
| | RCJC-C090 | 74,000 [21.7] | 56,708 [16.6] | 17,292 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| | (RHGG-090H) | 74,000 [21.7] | 56,536 [16.6] | 17,464 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| | (RHGG-090Z) | 74,000 [21.7] | 56,708 [16.6] | 17,292 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| 079YAZ | RCCU-D5013 | 76,000 [22.3] | 59,828 [17.5] | 16,172 [4.7] | 10.30 | 8.6 | 2,400 [1133] |
| | RCJC-C090 | 74,000 [21.7] | 56,708 [16.6] | 17,292 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| | (RHGG-090H) | 74,000 [21.7] | 56,536 [16.6] | 17,464 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| | (RHGG-090Y) | 74,000 [21.7] | 56,708 [16.6] | 17,292 [5.1] | 10.30 | 8.6 | 2,600 [1227] |
| 091CAZ | RCCU-D5013 | 87,000 [25.5] | 66,657 [19.5] | 20,343 [6.0] | 10.30 | 8.6 | 2,600 [1227] |
| | RCJC-C090 | 88,000 [25.8] | 65,854 [19.3] | 22,146 [6.5] | 10.30 | 8.6 | 2,900 [1369] |
| | RCJC-C120 | 89,000 [26.1] | 67,726 [19.8] | 21,274 [6.2] | 10.30 | 8.6 | 3,000 [1416] |
| | (RHGG-090H) | 88,000 [25.8] | 67,000 [19.6] | 21,000 [6.2] | 10.30 | 8.6 | 2,900 [1369] |
| | (RHGG-090Z) ① | 88,000 [25.8] | 66,680 [19.5] | 21,320 [6.2] | 10.30 | 8.6 | 2,900 [1369] |
| | (RHGG-120H) | 89,000 [26.1] | 67,726 [19.8] | 21,274 [6.2] | 10.30 | 8.6 | 3,100 [1463] |
| | (RHGG-120Z) | 89,000 [26.1] | 67,766 [19.9] | 21,234 [6.2] | 10.30 | 8.6 | 3,100 [1463] |
| 091DAZ | RCCU-D5013 | 87,000 [25.5] | 66,657 [19.5] | 20,343 [6.0] | 10.30 | 8.6 | 2,600 [1227] |
| | RCJC-C090 | 88,000 [25.8] | 65,854 [19.3] | 22,146 [6.5] | 10.30 | 8.6 | 2,900 [1369] |
| | RCJC-C120 | 89,000 [26.1] | 67,726 [19.8] | 21,274 [6.2] | 10.30 | 8.6 | 3,000 [1416] |
| | (RHGG-090H) | 88,000 [25.8] | 67,000 [19.6] | 21,000 [6.2] | 10.30 | 8.6 | 2,900 [1369] |
| | (RHGG-090Z) | 88,000 [25.8] | 66,680 [19.5] | 21,320 [6.2] | 10.30 | 8.6 | 2,900 [1369] |
| | (RHGG-120H) | 89,000 [26.1] | 67,726 [19.8] | 21,274 [6.2] | 10.30 | 8.6 | 3,100 [1463] |
| | (RHGG-120Z) | 89,000 [26.1] | 67,766 [19.9] | 21,234 [6.2] | 10.30 | 8.6 | 3,100 [1463] |
| 091YAZ | RCCU-D5013 | 87,000 [25.5] | 66,657 [19.5] | 20,343 [6.0] | 10.30 | 8.6 | 2,600 [1227] |
| | RCJC-C090 | 88,000 [25.8] | 65,854 [19.3] | 22,146 [6.5] | 10.30 | 8.6 | 2,900 [1369] |
| | RCJC-C120 | 89,000 [26.1] | 67,726 [19.8] | 21,274 [6.2] | 10.30 | 8.6 | 3,000 [1416] |
| | (RHGG-090H) | 88,000 [25.8] | 67,000 [19.6] | 21,000 [6.2] | 10.30 | 8.6 | 2,900 [1369] |
| | (RHGG-090Y) | 88,000 [25.8] | 66,680 [19.5] | 21,320 [6.2] | 10.30 | 8.6 | 2,900 [1369] |
| | (RHGG-120H) | 89,000 [26.1] | 67,726 [19.8] | 21,274 [6.2] | 10.30 | 8.6 | 3,100 [1463] |
| | (RHGG-120Y) | 89,000 [26.1] | 67,766 [19.9] | 21,234 [6.2] | 10.30 | 8.6 | 3,100 [1463] |

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

ELECTRICAL & PHYSICAL DATA: RAWE-

| Model No. RAWE- | Phase Frequency (Hz) Voltage (Volts) | ELECTRICAL | | | | PHYSICAL | | | | | |
|--------------------|--------------------------------------------|--------------------------------|----------------------------------|-------------------------------|--------------------|----------------------------------------|-----------------|------------------------------------|----------|--------------|--------------------------------|
| | | Compressor | | Full Load Amperes (FLA) | | Minimum Circuit Ampacity Amperes | | Fuse or HACR Circuit Breaker | | Outdoor Coil | |
| | | Rated Load Amperes (RLA) | Locked Rotor Amperes (LRA) | Fan Motor | Minimum Amperes | Maximum Amperes | Sq. Ft. [Sq. m] | Face Area Sq. Ft. [Sq. m] | No. Rows | CFW [L/s] | Refrig. Per Circuit Oz. [g] |
| 079CAZ | 3-60-208-230 | 18.6/18.6 | 156 | 1.5 | 25/25 | 30/30 | 40/40 | 22.42 [2.08] | 2 | 3500 [1652] | 296 [8392] |
| 079DAZ | 3-60-460 | 9 | 75 | 1 | 13 | 15 | 20 | 22.42 [2.08] | 2 | 3500 [1652] | 266 [8392] |
| 079YAZ | 3-60-575 | 7.4 | 54 | 0.8 | 11 | 15 | 15 | 22.42 [2.08] | 2 | 3500 [1652] | 266 [8392] |
| 091CAZ | 3-60-208-230 | 25.6/25.6 | 196 | 2.2 | 35/35 | 45/45 | 50/50 | 22.42 [2.08] | 2 | 3800 [1793] | 296 [8392] |
| 091DAZ | 3-60-460 | 12.8 | 100 | 1.3 | 18 | 25 | 30 | 22.42 [2.08] | 2 | 3800 [1793] | 296 [8392] |
| 091YAZ | 3-60-575 | 8.7 | 90 | 1 | 12 | 15 | 20 | 22.42 [2.08] | 2 | 3800 [1793] | 296 [8392] |
| | | | | | | | | | | | 330 [149.7] |
| | | | | | | | | | | | 330 [149.7] |
| | | | | | | | | | | | 330 [149.7] |

[] Designates Metric Conversions

PERFORMANCE DATA @ ARI STANDARD CONDITIONS—COOLING: RAWD-

| MODEL NUMBERS | | 80°F [26.5°C] DB/67°F [19.5°C] WB INDOOR AIR 95°F [35°C] DB OUTDOOR AIR | | | | SOUND RATING | INDOOR CFM [L/s] |
|--------------------|--------------------------------|----------------------------------------------------------------------------|-------------------------|-----------------------|-------|--------------|------------------|
| OUTDOOR UNIT RAWD- | INDOOR COIL AND/OR AIR HANDLER | TOTAL CAPACITY BTU/H [kW] | NET SENSIBLE BTU/H [kW] | NET LATENT BTU/H [kW] | EER | | |
| 078CAZ | RCCU-D5013 | 72,000 [21.1] | 58,000 [17.0] | 14,000 [4.1] | 9.40 | 8.6 | 2,600 [1227] |
| | RCJC-B075 | 73,000 [21.4] | 54,400 [15.9] | 18,600 [5.4] | 9.70 | 8.6 | 2,600 [1227] |
| | (RHGE-075H) | 73,000 [21.4] | 54,800 [16.1] | 18,200 [5.3] | 9.90 | 8.6 | 2,600 [1227] |
| | (RHGE-075Z) ① | 74,000 [21.7] | 55,400 [16.2] | 18,600 [5.4] | 10.30 | 8.6 | 2,600 [1227] |
| 078DAZ | RCCU-D5013 | 72,000 [21.1] | 58,000 [17.0] | 14,000 [4.1] | 9.40 | 8.6 | 2,600 [1227] |
| | RCJC-B075 | 73,000 [21.4] | 54,400 [15.9] | 18,600 [5.4] | 9.70 | 8.6 | 2,600 [1227] |
| | (RHGE-075H) | 73,000 [21.4] | 54,800 [16.1] | 18,200 [5.3] | 9.90 | 8.6 | 2,600 [1227] |
| | (RHGE-075Z) | 74,000 [21.7] | 55,400 [16.2] | 18,600 [5.4] | 10.30 | 8.6 | 2,600 [1227] |
| 078YAZ | RCCU-D5013 | 72,000 [21.1] | 58,000 [17.0] | 14,000 [4.1] | 9.40 | 8.6 | 2,600 [1227] |
| | RCJC-B075 | 73,000 [21.4] | 54,400 [15.9] | 18,600 [5.4] | 9.70 | 8.6 | 2,600 [1227] |
| | (RHGE-075H) | 73,000 [21.4] | 54,800 [16.1] | 18,200 [5.3] | 9.90 | 8.6 | 2,600 [1227] |
| | (RHGE-075Y) | 74,000 [21.7] | 55,400 [16.2] | 18,600 [5.4] | 10.30 | 8.6 | 2,600 [1227] |
| 091CAZ | RCCU-D5013 | 84,000 [24.6] | 63,000 [18.5] | 21,000 [6.2] | 9.10 | 8.6 | 3,150 [1486] |
| | RCJC-C090 | 84,000 [24.6] | 65,000 [19.0] | 19,000 [5.6] | 9.30 | 8.6 | 3,000 [1416] |
| | RCJC-C120 | 87,000 [25.5] | 68,000 [19.9] | 19,000 [5.6] | 9.50 | 8.6 | 3,200 [1510] |
| | (RHGG-090H) | 85,000 [24.9] | 65,800 [19.3] | 19,200 [5.6] | 9.40 | 8.6 | 3,000 [1416] |
| | (RHGG-090Z) ① | 85,000 [24.9] | 65,800 [19.3] | 19,200 [5.6] | 9.50 | 8.6 | 3,000 [1416] |
| | (RHGG-120H) | 87,000 [25.5] | 68,000 [19.9] | 19,000 [5.6] | 9.30 | 8.6 | 3,200 [1510] |
| | (RHGG-120Z) | 88,000 [25.8] | 69,000 [20.2] | 19,000 [5.6] | 9.50 | 8.6 | 3,200 [1510] |
| 091DAZ | RCCU-D5013 | 84,000 [24.6] | 63,000 [18.5] | 21,000 [6.2] | 9.10 | 8.6 | 3,150 [1486] |
| | RCJC-C090 | 84,000 [24.6] | 65,000 [19.0] | 19,000 [5.6] | 9.30 | 8.6 | 3,000 [1416] |
| | RCJC-C120 | 87,000 [25.5] | 68,000 [19.9] | 19,000 [5.6] | 9.50 | 8.6 | 3,200 [1510] |
| | (RHGG-090H) | 85,000 [24.9] | 65,800 [19.3] | 19,200 [5.6] | 9.40 | 8.6 | 3,000 [1416] |
| | (RHGG-090Z) | 85,000 [24.9] | 65,800 [19.3] | 19,200 [5.6] | 9.50 | 8.6 | 3,000 [1416] |
| | (RHGG-120H) | 87,000 [25.5] | 68,000 [19.9] | 19,000 [5.6] | 9.30 | 8.6 | 3,200 [1510] |
| | (RHGG-120Z) | 88,000 [25.8] | 69,000 [20.2] | 19,000 [5.6] | 9.50 | 8.6 | 3,200 [1510] |
| 091YAZ | RCCU-D5013 | 84,000 [24.6] | 63,000 [18.5] | 21,000 [6.2] | 9.10 | 8.6 | 3,150 [1486] |
| | RCJC-C090 | 84,000 [24.6] | 65,000 [19.0] | 19,000 [5.6] | 9.30 | 8.6 | 3,000 [1416] |
| | RCJC-C120 | 87,000 [25.5] | 68,000 [19.9] | 19,000 [5.6] | 9.50 | 8.6 | 3,200 [1510] |
| | (RHGG-090H) | 85,000 [24.9] | 65,800 [19.3] | 19,200 [5.6] | 9.40 | 8.6 | 3,000 [1416] |
| | (RHGG-090Y) | 85,000 [24.9] | 65,800 [19.3] | 19,200 [5.6] | 9.50 | 8.6 | 3,000 [1416] |
| | (RHGG-120H) | 87,000 [25.5] | 68,000 [19.9] | 19,000 [5.6] | 9.30 | 8.6 | 3,200 [1510] |
| | (RHGG-120Y) | 88,000 [25.8] | 69,000 [20.2] | 19,000 [5.6] | 9.50 | 8.6 | 3,200 [1510] |

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

ELECTRICAL & PHYSICAL DATA: RAWD-

| Model No. | RAMD. | ELECTRICAL | | | | | | PHYSICAL | | | | | |
|-----------|--------------|------------|----------------|--------------------------|----------------------------|----------------------------------|-----------------|---------------------------|--------------|-------------|-----------------------------|------------------------|------------------------|
| | | Compressor | | Full Load Amperes (FLA) | | Fuse or HACR Circuit Breaker | | Outdoor Coil | | | Weight | | |
| | | Phase | Frequency (Hz) | Rated Load Amperes (RLA) | Locked Rotor Amperes (LRA) | Minimum Circuit Ampacity Amperes | Maximum Amperes | Face Area Sq. Ft. (Sq. m) | No. Rows | CFM [L/s] | Refrig. Per Circuit Oz. [g] | Net Lbs. [kg] | Ship Lbs. [kg] |
| 078CAZ | 3-60-208-230 | 20.8/20.8 | 20.8/20.8 | 156 | 2.2 | 28/28 | 35/35 | 45/45 | 20.75 [1.93] | 1.5 | 4000 [1888] | 200 [5670] | 244 [10.7] 267 [121.1] |
| 078DAZ | 3-60-460 | 10.3 | 7.5 | 75 | 1.3 | 15 | 20 | 20 | 20.75 [1.93] | 1.5 | 4000 [1888] | 200 [5670] | 244 [10.7] 267 [121.1] |
| 078YAZ | 3-60-575 | 7.5 | 54 | 54 | 1 | 11 | 15 | 15 | 20.75 [1.93] | 1.5 | 4000 [1888] | 200 [5670] | 244 [10.7] 267 [121.1] |
| 091CAZ | 3-60-208-230 | 22.4/22.4 | 164 | 4.2 | 33/33 | 45/45 | 50/50 | 23.00 [2.14] | 1 | 4750 [2242] | 180 [5103] | 254 [15.2] 298 [135.2] | |
| 091DAZ | 3-60-460 | 10.9 | 100 | 2.3 | 16 | 20 | 25 | 23.00 [2.14] | 1 | 4750 [2242] | 180 [5103] | 254 [15.2] 298 [135.2] | |
| 091YAZ | 3-60-575 | 8.3 | 78 | 1.2 | 12 | 15 | 15 | 23.00 [2.14] | 1 | 4750 [2242] | 180 [5103] | 254 [15.2] 298 [135.2] | |

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWD-078**

WITH
COOLING
COIL **RCCU-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] | | | |
| CFM [L/s] | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | |
| DR ① | | .14 | .09 | .03 | .14 | .09 | .03 | .14 | .09 | .03 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 90.5 [26.52] | 87.7 [25.70] | 84.9 [24.88] | 84.6 [24.79] | 81.8 [23.97] | 79.0 [23.15] | 77.4 [22.68] | 74.6 [21.86] | 71.9 [21.07] |
| | | Sens BTUH [kW] | 57.7 [16.91] | 52.3 [15.33] | 47.0 [13.77] | 68.3 [20.02] | 63.0 [18.47] | 57.6 [16.88] | 74.0 [21.69] | 68.7 [20.13] | 63.3 [18.55] |
| | | Power | 6.0 | 5.9 | 5.8 | 5.8 | 5.7 | 5.6 | 5.7 | 5.5 | 5.4 |
| | 80 [26.7] | Total BTUH [kW] | 87.8 [25.73] | 85.0 [24.91] | 82.2 [24.09] | 81.9 [24.00] | 79.1 [23.18] | 76.4 [22.39] | 74.7 [21.89] | 71.9 [21.07] | 69.2 [20.28] |
| | | Sens BTUH [kW] | 57.0 [16.71] | 51.6 [15.13] | 46.3 [13.57] | 67.6 [19.81] | 62.3 [18.26] | 56.9 [16.68] | 73.3 [21.48] | 67.9 [19.90] | 62.6 [18.35] |
| | | Power | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | 5.7 | 5.9 | 5.7 | 5.6 |
| | 85 [29.4] | Total BTUH [kW] | 85.6 [25.09] | 82.8 [24.27] | 80.0 [23.45] | 79.7 [23.36] | 76.9 [22.54] | 74.2 [21.75] | 72.5 [21.25] | 69.7 [20.43] | 67.0 [19.64] |
| | | Sens BTUH [kW] | 56.2 [16.47] | 50.8 [14.89] | 45.5 [13.33] | 66.8 [19.58] | 61.5 [18.02] | 56.1 [16.44] | 67.2 [19.69] | 61.8 [18.11] | 61.8 [18.11] |
| | | Power | 6.4 | 6.3 | 6.2 | 6.2 | 6.1 | 6.0 | 5.9 | 5.8 | 5.8 |
| | 90 [32.2] | Total BTUH [kW] | 83.7 [24.53] | 80.9 [23.71] | 78.1 [22.89] | 77.8 [22.80] | 75.0 [21.98] | 72.3 [21.19] | 70.6 [20.69] | 67.8 [19.87] | 65.1 [19.08] |
| | | Sens BTUH [kW] | 55.4 [16.24] | 50.0 [14.65] | 44.6 [13.07] | 66.0 [19.34] | 60.6 [17.76] | 55.2 [16.18] | 70.6 [20.69] | 66.4 [19.46] | 60.9 [17.85] |
| | | Power | 6.6 | 6.5 | 6.4 | 6.4 | 6.3 | 6.2 | 6.3 | 6.1 | 6.0 |
| | 95 [35] | Total BTUH [kW] | 81.9 [24.00] | 79.1 [23.18] | 76.4 [22.39] | 76.0 [22.27] | 73.2 [21.45] | 70.5 [20.66] | 68.8 [20.16] | 66.0 [19.34] | 63.3 [18.55] |
| | | Sens BTUH [kW] | 54.4 [15.94] | 49.0 [14.36] | 43.7 [12.81] | 65.0 [19.05] | 59.7 [17.50] | 54.3 [15.91] | 68.8 [20.16] | 65.4 [19.17] | 60.0 [17.58] |
| | | Power | 6.8 | 6.7 | 6.6 | 6.6 | 6.5 | 6.4 | 6.4 | 6.3 | 6.2 |
| | 100 [37.8] | Total BTUH [kW] | 80.0 [23.45] | 77.3 [22.65] | 74.5 [21.83] | 74.2 [21.75] | 71.4 [20.93] | 68.6 [20.10] | 67.0 [19.64] | 64.2 [18.82] | 61.4 [17.99] |
| | | Sens BTUH [kW] | 53.4 [15.65] | 48.0 [14.07] | 42.7 [12.51] | 64.0 [18.76] | 58.7 [17.20] | 53.3 [15.62] | 67.0 [19.64] | 64.2 [18.82] | 59.0 [17.29] |
| | | Power | 7.0 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.4 |
| | 105 [40.6] | Total BTUH [kW] | 77.9 [22.83] | 75.2 [22.04] | 72.4 [21.22] | 72.1 [21.13] | 69.3 [20.31] | 66.5 [19.49] | 64.9 [19.02] | 62.1 [18.20] | 59.3 [17.38] |
| | | Sens BTUH [kW] | 52.4 [15.36] | 47.0 [13.77] | 41.6 [12.19] | 63.0 [18.46] | 57.6 [16.88] | 52.3 [15.33] | 64.9 [19.02] | 62.1 [18.20] | 57.9 [16.97] |
| | | Power | 7.2 | 7.1 | 7.0 | 7.0 | 6.9 | 6.8 | 6.7 | 6.6 | 6.6 |
| | 110 [43.3] | Total BTUH [kW] | 75.4 [22.10] | 72.6 [21.28] | 69.9 [20.49] | 69.5 [20.37] | 66.7 [19.55] | 64.0 [18.76] | 62.3 [18.26] | 59.6 [17.47] | 56.8 [16.65] |
| | | Sens BTUH [kW] | 51.3 [15.03] | 45.9 [13.45] | 40.5 [11.87] | 61.9 [18.14] | 56.5 [16.56] | 51.2 [15.01] | 62.3 [18.26] | 59.6 [17.47] | 56.8 [16.65] |
| | | Power | 7.4 | 7.3 | 7.2 | 7.2 | 7.1 | 7.0 | 6.9 | 6.8 | 6.8 |
| | 115 [46.1] | Total BTUH [kW] | 72.2 [21.16] | 69.5 [20.37] | 66.7 [19.55] | 66.3 [19.43] | 63.6 [18.64] | 60.8 [17.82] | 59.2 [17.35] | 56.4 [16.53] | 53.6 [15.71] |
| | | Sens BTUH [kW] | 50.2 [14.71] | 44.8 [13.13] | 39.4 [11.55] | 60.8 [17.82] | 55.4 [16.24] | 53.4 [15.65] | 59.2 [17.35] | 56.4 [16.53] | 53.6 [15.71] |
| | | Power | 7.6 | 7.5 | 7.4 | 7.4 | 7.3 | 7.2 | 7.2 | 7.1 | 7.0 |

CONDENSING
UNIT **RAWD-078**

WITH
COOLING
COIL **RCJC-B075**

| 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] | | | |
| CFM [L/s] | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | |
| DR ① | | .21 | .18 | .14 | .21 | .18 | .14 | .21 | .18 | .14 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 93.5 [27.40] | 90.7 [26.58] | 87.9 [25.76] | 87.6 [25.67] | 84.8 [24.85] | 82.0 [24.03] | 80.4 [23.56] | 77.6 [22.74] | 74.9 [21.95] |
| | | Sens BTUH [kW] | 55.7 [16.32] | 50.3 [14.74] | 44.9 [13.16] | 66.3 [19.43] | 60.9 [17.85] | 55.6 [16.29] | 72.0 [21.10] | 66.6 [19.52] | 61.2 [17.94] |
| | | Power | 6.1 | 6.0 | 5.9 | 5.9 | 5.8 | 5.7 | 5.8 | 5.7 | 5.5 |
| | 80 [26.7] | Total BTUH [kW] | 90.8 [26.61] | 88.0 [25.79] | 85.2 [24.97] | 84.9 [24.88] | 82.1 [24.06] | 79.4 [23.27] | 77.7 [22.77] | 74.9 [21.95] | 72.2 [21.16] |
| | | Sens BTUH [kW] | 55.0 [16.12] | 49.6 [14.54] | 44.2 [12.95] | 65.6 [19.23] | 60.2 [17.64] | 54.9 [16.09] | 71.3 [20.90] | 65.9 [19.31] | 60.6 [17.76] |
| | | Power | 6.3 | 6.2 | 6.1 | 6.1 | 6.0 | 5.9 | 6.0 | 5.9 | 5.7 |
| | 85 [29.4] | Total BTUH [kW] | 88.6 [25.97] | 85.8 [25.15] | 83.0 [24.32] | 82.7 [24.24] | 79.9 [23.42] | 77.2 [22.63] | 75.5 [22.13] | 72.7 [21.31] | 70.0 [20.51] |
| | | Sens BTUH [kW] | 54.2 [15.88] | 48.8 [14.30] | 43.4 [12.72] | 64.8 [18.99] | 59.4 [17.41] | 54.1 [15.86] | 70.5 [20.66] | 65.1 [19.08] | 59.8 [17.53] |
| | | Power | 6.5 | 6.4 | 6.3 | 6.3 | 6.2 | 6.1 | 6.2 | 6.0 | 5.9 |
| | 90 [32.2] | Total BTUH [kW] | 86.7 [25.41] | 83.9 [24.59] | 81.1 [23.77] | 80.8 [23.68] | 78.0 [22.86] | 75.3 [22.07] | 73.6 [21.57] | 70.8 [20.75] | 68.1 [19.96] |
| | | Sens BTUH [kW] | 53.3 [15.62] | 47.9 [14.04] | 42.6 [12.48] | 64.0 [18.76] | 58.6 [17.17] | 53.2 [15.59] | 69.6 [20.40] | 64.3 [18.84] | 58.9 [17.26] |
| | | Power | 6.7 | 6.6 | 6.5 | 6.5 | 6.4 | 6.3 | 6.4 | 6.2 | 6.1 |
| | 95 [35] | Total BTUH [kW] | 84.9 [24.88] | 82.1 [24.06] | 79.4 [23.27] | 79.0 [23.15] | 76.2 [22.33] | 73.5 [21.54] | 71.8 [21.04] | 69.0 [20.22] | 66.3 [19.43] |
| | | Sens BTUH [kW] | 52.4 [15.36] | 47.0 [13.77] | 41.6 [12.19] | 63.0 [18.46] | 57.6 [16.88] | 52.3 [15.33] | 68.7 [20.13] | 63.3 [18.55] | 58.0 [17.00] |
| | | Power | 6.9 | 6.8 | 6.7 | 6.7 | 6.6 | 6.5 | 6.6 | 6.4 | 6.3 |
| | 100 [37.8] | Total BTUH [kW] | 83.0 [24.32] | 80.3 [23.53] | 77.5 [22.71] | 77.2 [22.63] | 74.4 [21.80] | 71.6 [20.98] | 70.0 [20.51] | 67.2 [19.69] | 64.4 [18.87] |
| | | Sens BTUH [kW] | 51.4 [15.06] | 46.0 [13.48] | 40.6 [11.90] | 62.0 [18.17] | 56.6 [16.59] | 51.3 [15.03] | 67.7 [19.84] | 62.3 [18.26] | 57.0 [16.71] |
| | | Power | 7.1 | 7.0 | 6.9 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.5 |
| | 105 [40.6] | Total BTUH [kW] | 80.9 [23.71] | 78.2 [22.92] | 75.4 [22.10] | 75.1 [22.01] | 72.3 [21.19] | 69.5 [20.37] | 67.9 [19.90] | 65.1 [19.08] | 62.3 [18.26] |
| | | Sens BTUH [kW] | 50.3 [14.74] | 45.0 [13.19] | 39.6 [11.61] | 61.0 [17.88] | 55.6 [16.29] | 50.2 [14.71] | 66.7 [19.55] | 61.3 [17.97] | 55.9 [16.38] |
| | | Power | 7.3 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.9 | 6.8 | 6.7 |
| | 110 [43.3] | Total BTUH [kW] | 78.4 [22.98] | 75.6 [22.16] | 72.9 [21.36] | 72.5 [21.25] | 69.7 [20.43] | 67.0 [19.64] | 65.3 [19.14] | 62.6 [18.35] | 59.8 [17.53] |
| | | Sens BTUH [kW] | 49.3 [14.45] | 43.9 [12.87] | 38.5 [11.28] | 59.9 [17.55] | 54.5 [15.97] | 49.1 [14.39] | 65.3 [19.14] | 60.2 [17.64] | 54.8 [16.06] |
| | | Power | 7.5 | 7.4 | 7.3 | 7.3 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 |
| | 115 [46.1] | Total BTUH [kW] | 75.2 [22.04] | 72.5 [21.25] | 69.7 [20.43] | 69.3 [20.31] | 66.6 [19.52] | 63.8 [18.70] | 62.2 [18.23] | 59.4 [17.41] | 56.6 [16.59] |
| | | Sens BTUH [kW] | 48.1 [14.10] | 42.8 [12.54] | 37.4 [10.96] | 58.8 [17.23] | 53.4 [15.65] | 48.0 [14.07] | 62.2 [18.23] | 59.1 [17.32] | 53.7 [15.74] |
| | | Power | 7.7 | 7.6 | 7.5 | 7.5 | 7.4 | 7.3 | 7.3 | 7.2 | 7.1 |

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:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWD-078**

WITH
AIR
HANDLER **RHGE-075**

| 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] | | | |
| CFM [L/s] | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | |
| DR ① | | .21 | .18 | .14 | .21 | .18 | .14 | .21 | .18 | .14 | |
| OUTDOOR DRY BULB TEMP °F [°C] | 75 [23.9] | Total BTUH [kW] | 93.4 [27.37] | 90.6 [26.55] | 87.9 [25.76] | 87.5 [25.64] | 84.8 [24.85] | 82.0 [24.03] | 80.3 [23.53] | 77.6 [22.74] | 74.8 [21.92] |
| | | Sens BTUH [kW] | 55.6 [16.29] | 50.2 [14.71] | 44.9 [13.16] | 66.2 [19.40] | 60.9 [17.85] | 55.5 [16.27] | 71.9 [21.07] | 66.6 [19.52] | 61.2 [17.94] |
| | | Power | 6.1 | 6.0 | 5.8 | 5.8 | 5.7 | 5.6 | 5.7 | 5.6 | 5.5 |
| | 80 [26.7] | Total BTUH [kW] | 90.7 [26.58] | 88.0 [25.79] | 85.2 [24.97] | 84.8 [24.85] | 82.1 [24.06] | 79.3 [23.24] | 77.6 [22.74] | 74.9 [21.95] | 72.1 [21.13] |
| | | Sens BTUH [kW] | 54.9 [16.09] | 49.5 [14.51] | 44.2 [12.95] | 65.5 [19.20] | 60.2 [17.64] | 54.8 [16.06] | 71.2 [20.87] | 65.9 [19.31] | 60.5 [17.73] |
| | | Power | 6.3 | 6.2 | 6.0 | 6.0 | 5.9 | 5.8 | 5.9 | 5.8 | 5.7 |
| | 85 [29.4] | Total BTUH [kW] | 88.5 [25.94] | 85.7 [25.12] | 83.0 [24.32] | 82.6 [24.21] | 79.9 [23.42] | 77.1 [22.60] | 75.4 [22.10] | 72.7 [21.31] | 69.9 [20.49] |
| | | Sens BTUH [kW] | 54.1 [15.86] | 48.8 [14.30] | 43.4 [12.72] | 64.8 [18.99] | 59.4 [17.41] | 54.0 [15.83] | 70.4 [20.63] | 65.1 [19.08] | 59.7 [17.50] |
| | 90 [32.2] | Total BTUH [kW] | 86.6 [25.38] | 83.8 [24.56] | 81.1 [23.77] | 80.7 [23.65] | 78.0 [22.86] | 75.2 [22.04] | 73.5 [21.54] | 70.8 [20.75] | 68.0 [19.93] |
| | | Sens BTUH [kW] | 53.3 [15.62] | 47.9 [14.04] | 42.5 [12.46] | 63.9 [18.73] | 58.5 [17.14] | 53.1 [15.56] | 69.6 [20.40] | 64.2 [18.82] | 58.8 [17.23] |
| | 6.7 | Power | 6.6 | 6.4 | 6.4 | 6.4 | 6.3 | 6.2 | 6.3 | 6.2 | 6.1 |
| | 95 [35] | Total BTUH [kW] | 84.8 [24.85] | 82.1 [24.06] | 79.3 [23.24] | 78.9 [23.12] | 76.2 [22.33] | 73.4 [21.51] | 71.8 [21.04] | 69.0 [20.22] | 66.2 [19.40] |
| | | Sens BTUH [kW] | 52.3 [15.33] | 46.9 [13.75] | 41.6 [12.19] | 62.9 [18.43] | 57.6 [16.88] | 52.2 [15.30] | 68.6 [20.10] | 63.3 [18.55] | 57.9 [16.97] |
| | | Power | 6.9 | 6.7 | 6.6 | 6.6 | 6.5 | 6.4 | 6.5 | 6.4 | 6.3 |
| | 100 [37.8] | Total BTUH [kW] | 83.0 [24.32] | 80.2 [23.50] | 77.4 [22.68] | 77.1 [22.60] | 74.3 [21.78] | 71.6 [20.98] | 69.9 [20.49] | 67.1 [19.67] | 64.4 [18.87] |
| | | Sens BTUH [kW] | 51.3 [15.03] | 45.9 [13.45] | 40.6 [11.90] | 61.9 [18.14] | 56.6 [16.59] | 51.2 [15.01] | 67.6 [19.81] | 62.3 [18.26] | 56.9 [16.68] |
| | | Power | 7.1 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.7 | 6.6 | 6.5 |
| | 105 [40.6] | Total BTUH [kW] | 80.9 [23.71] | 78.1 [22.89] | 75.3 [22.07] | 75.0 [21.98] | 72.2 [21.16] | 69.4 [20.34] | 67.8 [19.87] | 65.0 [19.05] | 62.3 [18.26] |
| | | Sens BTUH [kW] | 50.3 [14.74] | 44.9 [13.16] | 39.5 [11.58] | 60.9 [17.85] | 55.5 [16.27] | 50.2 [14.71] | 66.6 [19.52] | 61.2 [17.94] | 55.8 [16.35] |
| | | Power | 7.3 | 7.1 | 7.0 | 7.0 | 6.9 | 6.8 | 6.9 | 6.8 | 6.7 |
| | 110 [43.3] | Total BTUH [kW] | 78.3 [22.95] | 75.6 [22.16] | 72.8 [21.34] | 72.4 [21.22] | 69.7 [20.43] | 66.9 [19.61] | 65.3 [19.14] | 62.5 [18.32] | 59.7 [17.50] |
| | | Sens BTUH [kW] | 49.2 [14.42] | 43.8 [12.84] | 38.4 [11.25] | 59.8 [17.53] | 54.4 [15.94] | 49.1 [14.39] | 65.3 [19.14] | 60.1 [17.61] | 54.8 [16.06] |
| | | Power | 7.4 | 7.3 | 7.2 | 7.2 | 7.1 | 7.0 | 7.1 | 7.0 | 6.9 |
| | 115 [46.1] | Total BTUH [kW] | 75.2 [22.04] | 72.4 [21.22] | 69.6 [20.40] | 69.3 [20.31] | 66.5 [19.49] | 63.7 [18.67] | 62.1 [18.20] | 59.3 [17.38] | 56.6 [16.59] |
| | | Sens BTUH [kW] | 48.1 [14.10] | 42.7 [12.51] | 37.3 [10.93] | 58.7 [17.20] | 53.3 [15.62] | 48.0 [14.07] | 62.1 [18.20] | 59.0 [17.29] | 53.7 [15.74] |
| | | Power | 7.6 | 7.5 | 7.4 | 7.4 | 7.3 | 7.2 | 7.3 | 7.2 | 7.1 |

CONDENSING UNIT **RAWD-091**

WITH COOLING COIL **RCCU-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] | | | |
| CFM [L/s] | | 3780 [1784] | 3150 [1487] | 2520 [1189] | 3780 [1784] | 3150 [1487] | 2520 [1189] | 3780 [1784] | 3150 [1487] | 2520 [1189] | |
| DR ① | | .24 | 0.20 | 0.16 | .24 | 0.20 | 0.16 | .24 | 0.20 | 0.16 | |
| OUTDOOR DRY BULB TEMP °F [°C] | 75 [23.9] | Total BTUH [kW] | 109.6 [32.12] | 105.7 [30.98] | 101.9 [29.86] | 98.6 [28.90] | 95.1 [27.87] | 91.7 [26.87] | 94.9 [27.81] | 91.6 [26.85] | 88.2 [25.85] |
| | | Sens BTUH [kW] | 40.4 [11.84] | 37.0 [10.84] | 33.5 [9.82] | 75.9 [22.24] | 69.4 [20.34] | 62.9 [18.43] | 85.0 [24.91] | 77.7 [22.77] | 70.5 [20.66] |
| | | Power | 10.7 | 10.6 | 10.4 | 10.3 | 10.2 | 10.0 | 10.2 | 10.0 | 9.9 |
| | 80 [26.7] | Total BTUH [kW] | 107.3 [31.45] | 103.6 [30.36] | 99.8 [29.25] | 96.4 [28.25] | 93.0 [27.26] | 89.6 [26.26] | 92.7 [27.17] | 89.4 [26.20] | 86.2 [25.26] |
| | | Sens BTUH [kW] | 39.4 [11.55] | 36.1 [10.58] | 32.7 [9.58] | 74.9 [21.95] | 68.5 [20.08] | 62.1 [18.20] | 84.0 [24.62] | 76.8 [22.51] | 69.7 [20.43] |
| | | Power | 10.2 | 10.0 | 9.9 | 9.8 | 9.6 | 9.5 | 9.7 | 9.5 | 9.4 |
| | 85 [29.4] | Total BTUH [kW] | 105.4 [30.89] | 101.7 [29.81] | 98.0 [28.72] | 94.5 [27.70] | 91.2 [26.73] | 87.8 [25.73] | 90.8 [26.61] | 87.6 [25.67] | 84.4 [24.74] |
| | | Sens BTUH [kW] | 38.8 [11.37] | 35.5 [10.40] | 32.1 [9.41] | 74.2 [21.75] | 67.9 [19.90] | 61.5 [18.02] | 83.3 [24.41] | 76.2 [22.33] | 69.1 [20.25] |
| | 90 [32.2] | Total BTUH [kW] | 103.8 [30.42] | 100.1 [29.34] | 96.5 [28.28] | 92.8 [27.20] | 89.5 [26.23] | 86.3 [25.29] | 89.1 [26.11] | 86.0 [25.20] | 82.8 [24.27] |
| | | Sens BTUH [kW] | 38.2 [11.20] | 35.0 [10.26] | 31.7 [9.29] | 73.7 [21.60] | 67.4 [19.75] | 61.1 [17.91] | 82.8 [24.27] | 75.8 [22.21] | 68.7 [20.13] |
| | | Power | 9.1 | 9.0 | 8.8 | 8.7 | 8.6 | 8.4 | 8.6 | 8.5 | 8.3 |
| | 95 [35] | Total BTUH [kW] | 102.2 [29.95] | 98.6 [28.90] | 95.0 [27.84] | 91.2 [26.73] | 88.0 [25.79] | 84.8 [24.85] | 87.5 [25.64] | 84.4 [24.74] | 81.4 [23.86] |
| | | Sens BTUH [kW] | 37.8 [11.08] | 34.6 [10.14] | 31.3 [9.17] | 73.2 [21.45] | 67.0 [19.64] | 60.7 [17.79] | 82.4 [24.15] | 75.3 [22.07] | 68.3 [20.02] |
| | | Power | 8.6 | 8.5 | 8.3 | 8.2 | 8.1 | 7.9 | 8.1 | 7.9 | 7.8 |
| | 100 [37.8] | Total BTUH [kW] | 100.5 [29.45] | 97.0 [28.43] | 93.5 [27.40] | 89.6 [26.26] | 86.4 [25.32] | 83.3 [24.41] | 85.9 [25.17] | 82.9 [24.30] | 79.8 [23.39] |
| | | Sens BTUH [kW] | 37.3 [10.93] | 34.1 [9.99] | 30.9 [9.06] | 72.7 [21.31] | 66.5 [19.49] | 60.3 [17.67] | 81.8 [23.97] | 74.9 [21.95] | 67.9 [19.90] |
| | | Power | 8.1 | 7.9 | 7.8 | 7.7 | 7.5 | 7.4 | 7.5 | 7.4 | 7.3 |
| | 105 [40.6] | Total BTUH [kW] | 98.7 [28.93] | 95.3 [27.93] | 91.8 [26.90] | 87.8 [25.73] | 84.7 [24.82] | 81.6 [23.91] | 84.1 [24.65] | 81.1 [23.77] | 78.2 [22.92] |
| | | Sens BTUH [kW] | 36.6 [10.73] | 33.5 [9.82] | 30.3 [8.88] | 72.0 [21.10] | 65.9 [19.31] | 59.7 [17.50] | 81.2 [23.80] | 74.2 [21.75] | 67.3 [19.72] |
| | | Power | 7.5 | 7.4 | 7.3 | 7.1 | 7.0 | 6.9 | 7.0 | 6.9 | 6.8 |
| | 110 [43.3] | Total BTUH [kW] | 96.7 [28.34] | 93.3 [27.34] | 89.9 [26.35] | 85.7 [25.12] | 82.7 [24.24] | 79.7 [23.36] | 82.0 [24.03] | 79.1 [23.18] | 76.3 [22.36] |
| | | Sens BTUH [kW] | 35.6 [10.43] | 32.6 [9.55] | 29.5 [8.65] | 71.1 [20.84] | 65.0 [19.05] | 58.9 [17.26] | 80.2 [23.50] | 73.3 [21.48] | 66.5 [19.49] |
| | | Power | 7.0 | 6.9 | 6.8 | 6.6 | 6.5 | 6.4 | 6.5 | 6.4 | 6.3 |
| | 115 [46.1] | Total BTUH [kW] | 94.2 [27.61] | 90.9 [26.64] | 87.6 [25.67] | 83.2 [24.38] | 80.3 [23.53] | 77.4 [22.68] | 79.5 [23.30] | 76.7 [22.48] | 74.0 [21.69] |
| | | Sens BTUH [kW] | 34.2 [10.02] | 31.3 [9.17] | 28.4 [8.32] | 69.7 [20.43] | 63.7 [18.67] | 57.8 [16.94] | 78.8 [23.09] | 72.1 [21.13] | 65.4 [19.17] |
| | | Power | 6.5 | 6.4 | 6.2 | 6.1 | 6.0 | 5.9 | 5.9 | 5.8 | 5.7 |

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:

- ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.
- ② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.
- ③ Power input is gross, which does not include indoor blower motor.
- ④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING UNIT **RAWD-091** WITH COOLING COIL **RCJC-C090**

| 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] | | |
| CFM [L/s] | | 3600 [1699] | 3000 [1416] | 2400 [1133] | 3600 [1699] | 3000 [1416] | 2400 [1133] | 3600 [1699] | 3000 [1416] | 2400 [1133] |
| DR ① | | .16 | .12 | .08 | .16 | .12 | .08 | .16 | .12 | .08 |
| OUTDOOR DRY BULB TEMPERATURE [°F / °C] | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 109.3 [32.03] 42.3 [12.40] 10.6 | 105.5 [30.92] 38.7 [11.34] 10.4 | 101.6 [29.78] 35.1 [10.29] 10.3 | 98.3 [28.81] 77.8 [22.80] 10.2 | 94.9 [27.81] 71.1 [20.84] 10.0 | 91.4 [26.79] 64.5 [18.90] 9.9 | 94.6 [27.72] 86.9 [25.47] 10.1 | 91.3 [26.76] 79.5 [23.30] 9.9 |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 107.1 [31.39] 41.4 [12.13] 10.1 | 103.3 [30.27] 37.8 [11.08] 9.9 | 99.6 [29.19] 34.3 [10.05] 9.7 | 96.1 [28.16] 76.8 [22.51] 9.7 | 92.7 [27.17] 70.3 [20.60] 9.5 | 89.4 [26.20] 63.7 [18.67] 9.4 | 92.4 [27.08] 85.9 [25.17] 9.6 | 89.2 [26.14] 78.6 [23.04] 9.4 |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 105.2 [30.83] 40.7 [11.93] 9.5 | 101.5 [29.75] 37.2 [10.90] 9.4 | 97.8 [28.66] 33.7 [9.88] 9.2 | 94.2 [27.61] 76.1 [22.30] 9.1 | 90.9 [26.64] 69.6 [20.40] 9.0 | 87.6 [25.67] 63.1 [18.49] 8.8 | 90.5 [26.52] 85.3 [25.00] 9.0 | 87.3 [25.59] 78.0 [22.86] 8.9 |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 103.5 [30.33] 40.2 [11.78] 9.0 | 99.9 [29.28] 36.7 [10.76] 8.9 | 96.2 [28.19] 33.3 [9.76] 8.7 | 92.5 [27.11] 75.6 [22.16] 8.6 | 89.3 [26.17] 69.2 [20.28] 8.5 | 86.0 [25.20] 62.7 [18.38] 8.3 | 88.8 [26.02] 84.7 [24.82] 8.5 | 85.7 [25.12] 77.5 [22.71] 8.3 |
| | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 101.9 [29.86] 39.7 [11.63] 8.5 | 98.3 [28.81] 36.3 [10.64] 8.3 | 94.8 [27.78] 32.9 [9.64] 8.2 | 90.9 [26.64] 75.2 [22.04] 8.1 | 87.7 [25.70] 68.7 [20.13] 7.9 | 84.5 [24.76] 62.3 [18.26] 7.8 | 87.2 [25.56] 84.3 [24.71] 7.9 | 84.2 [24.68] 77.1 [22.60] 7.8 |
| | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 100.3 [29.40] 39.2 [11.49] 7.9 | 96.8 [28.37] 35.8 [10.49] 7.8 | 93.2 [27.31] 32.5 [9.52] 7.7 | 89.3 [26.17] 74.6 [21.86] 7.5 | 86.2 [25.26] 68.3 [20.02] 7.4 | 83.0 [24.32] 61.9 [18.14] 7.3 | 85.6 [25.09] 83.8 [24.56] 7.4 | 82.6 [24.21] 76.6 [22.45] 7.3 |
| | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 98.5 [28.87] 38.5 [11.28] 7.4 | 95.0 [27.84] 35.2 [10.32] 7.3 | 91.6 [26.85] 31.9 [9.35] 7.2 | 87.5 [25.64] 73.9 [21.66] 7.0 | 84.4 [24.74] 67.6 [19.81] 6.9 | 81.4 [23.86] 61.3 [17.97] 6.8 | 83.8 [24.56] 83.1 [24.35] 6.9 | 80.9 [23.71] 76.0 [22.27] 6.8 |
| | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 96.4 [28.25] 37.5 [10.99] 6.9 | 93.0 [27.26] 34.3 [10.05] 6.8 | 89.7 [26.29] 31.1 [9.11] 6.6 | 85.4 [25.03] 73.0 [21.39] 6.5 | 82.4 [24.15] 66.7 [19.55] 6.4 | 79.4 [23.27] 60.5 [17.73] 6.3 | 81.8 [23.97] 81.8 [23.97] 6.3 | 78.9 [23.12] 75.1 [22.01] 6.2 |
| | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 93.9 [27.52] 36.2 [10.61] 6.3 | 90.7 [26.58] 33.1 [9.70] 6.2 | 87.4 [25.61] 30.0 [8.79] 6.1 | 83.0 [24.32] 71.6 [20.98] 5.9 | 80.1 [23.48] 65.5 [19.20] 5.8 | 77.1 [22.60] 59.4 [17.41] 5.7 | 79.3 [23.24] 79.3 [23.24] 5.8 | 76.5 [22.42] 73.8 [21.63] 5.7 |

CONDENSING UNIT **RAWD-091** WITH COOLING COIL **RCJC-C120**

| 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] | | |
| CFM [L/s] | | 3840 [1812] | 3200 [1510] | 2560 [1208] | 3840 [1812] | 3200 [1510] | 2560 [1208] | 3840 [1812] | 3200 [1510] | 2560 [1208] |
| DR ① | | .17 | .13 | .08 | .17 | .13 | .08 | .17 | .13 | .08 |
| OUTDOOR DRY BULB TEMPERATURE [°F / °C] | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 112.7 [33.03] 45.9 [13.45] 10.7 | 108.7 [31.86] 42.0 [12.31] 10.5 | 104.8 [30.71] 38.0 [11.14] 10.3 | 101.7 [29.81] 81.3 [23.83] 10.3 | 98.1 [28.75] 74.4 [21.80] 10.1 | 94.6 [27.72] 67.4 [19.75] 9.9 | 98.0 [28.72] 90.4 [26.49] 10.1 | 94.6 [27.72] 82.7 [24.24] 10.0 |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 110.4 [32.36] 44.9 [13.16] 10.1 | 106.6 [31.24] 41.1 [12.05] 10.0 | 102.7 [30.10] 37.2 [10.90] 9.8 | 99.5 [29.16] 80.4 [23.56] 9.7 | 96.0 [28.13] 73.5 [21.54] 9.6 | 92.5 [27.11] 66.6 [19.52] 9.4 | 95.8 [28.08] 89.5 [26.23] 9.6 | 92.4 [27.08] 81.8 [23.97] 9.4 |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 108.6 [31.83] 44.2 [12.95] 9.6 | 104.7 [30.68] 40.5 [11.87] 9.4 | 100.9 [29.57] 36.7 [10.76] 9.3 | 97.6 [28.60] 79.7 [23.36] 9.2 | 94.2 [27.61] 72.9 [21.36] 9.0 | 90.7 [26.58] 66.1 [19.37] 8.9 | 93.9 [27.52] 88.8 [26.02] 9.1 | 90.6 [26.55] 81.2 [23.80] 8.9 |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 106.9 [31.33] 43.7 [12.81] 9.1 | 103.1 [30.22] 40.0 [11.72] 8.9 | 99.4 [29.13] 36.3 [10.64] 8.8 | 95.9 [28.11] 79.2 [23.21] 8.7 | 92.5 [27.11] 72.4 [21.22] 8.5 | 89.2 [26.14] 65.7 [19.25] 8.4 | 92.2 [27.02] 88.3 [25.88] 8.5 | 89.0 [26.08] 80.8 [23.68] 8.4 |
| | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 105.3 [30.86] 43.3 [12.69] 8.5 | 101.6 [29.78] 39.6 [11.61] 8.4 | 97.9 [28.69] 35.9 [10.52] 8.2 | 94.3 [27.64] 78.7 [23.06] 8.1 | 91.0 [26.67] 72.0 [21.10] 8.0 | 87.7 [25.70] 65.3 [19.14] 7.9 | 90.6 [26.55] 87.8 [25.73] 8.0 | 87.4 [25.61] 80.3 [23.53] 7.9 |
| | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 103.6 [30.36] 42.7 [12.51] 8.0 | 100.0 [29.31] 39.1 [11.46] 7.9 | 96.4 [28.25] 35.4 [10.37] 7.7 | 92.7 [27.17] 78.2 [22.92] 7.6 | 89.4 [26.20] 71.5 [20.95] 7.5 | 86.2 [25.26] 64.8 [18.99] 7.3 | 89.0 [26.08] 87.3 [25.59] 7.5 | 85.9 [25.17] 79.9 [23.42] 7.3 |
| | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 101.9 [29.86] 42.0 [12.31] 7.5 | 98.3 [28.81] 38.5 [11.28] 7.3 | 94.7 [27.75] 34.9 [10.23] 7.2 | 90.9 [26.64] 77.5 [22.71] 7.1 | 87.7 [25.70] 70.9 [20.78] 6.9 | 84.5 [24.76] 64.3 [18.84] 6.8 | 87.2 [25.56] 86.6 [25.38] 6.9 | 84.1 [24.65] 79.2 [23.21] 6.8 |
| | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 99.8 [29.25] 41.1 [12.05] 6.9 | 96.3 [28.22] 37.6 [11.02] 6.8 | 92.8 [27.20] 34.1 [9.99] 6.7 | 88.8 [26.02] 76.5 [22.42] 6.5 | 85.7 [25.12] 70.0 [20.51] 6.4 | 82.6 [24.21] 63.5 [18.61] 6.3 | 85.1 [24.94] 85.1 [24.94] 6.4 | 82.1 [24.06] 78.3 [22.95] 6.3 |
| | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 97.3 [28.52] 39.7 [11.63] 6.4 | 93.9 [27.52] 36.3 [10.64] 6.3 | 90.5 [26.52] 32.9 [9.64] 6.2 | 86.3 [25.29] 75.2 [22.04] 6.0 | 83.3 [24.41] 68.7 [20.13] 5.9 | 80.3 [23.53] 62.3 [18.26] 5.8 | 82.6 [24.21] 82.6 [24.21] 5.9 | 79.7 [23.36] 77.1 [22.60] 5.8 |

DR —Depression ratio

Total —Total capacity x 1000 BTUH

dbE—Entering air dry bulb

Sens —Sensible capacity x 1000 BTUH

wbE—Entering air wet bulb

Power—KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWD-091**

WITH
AIR
HANDLER **RHGG-090H**

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] | | | | |
|--------------------------------------|------------|-----------------|---------------|---------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|--|
| CFM [L/s] | | 3600 [1669] | 3000 [1416] | 2400 [1133] | 3600 [1669] | 3000 [1416] | 2400 [1133] | 3600 [1669] | 3000 [1416] | 2400 [1133] | | |
| DR ① | | .15 | .12 | .07 | .15 | .12 | .07 | .15 | .12 | .07 | | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 110.1 [32.27] | 106.2 [31.12] | 102.3 [29.98] | 99.1 [29.04] | 95.6 [28.02] | 92.1 [26.99] | 95.4 [27.96] | 92.0 [26.96] | 88.7 [26.00] | |
| | | Sens BTUH [kW] | 42.9 [12.57] | 39.2 [11.49] | 35.6 [10.43] | 78.3 [22.95] | 71.7 [21.01] | 65.0 [19.05] | 87.5 [25.64] | 80.0 [23.45] | 72.5 [21.25] | |
| | | Power | 10.7 | 10.5 | 10.4 | 10.3 | 10.1 | 10.0 | 10.2 | 10.0 | 9.8 | |
| | 80 [26.7] | Total BTUH [kW] | 107.8 [31.59] | 104.0 [30.48] | 100.3 [29.40] | 96.9 [28.40] | 93.5 [27.40] | 90.1 [26.41] | 93.2 [27.31] | 89.9 [26.35] | 86.6 [25.38] | |
| | | Sens BTUH [kW] | 41.9 [12.28] | 38.4 [11.25] | 34.8 [10.20] | 77.4 [22.68] | 70.8 [20.75] | 64.2 [18.82] | 86.5 [25.35] | 79.1 [23.18] | 71.7 [21.01] | |
| | | Power | 10.2 | 10.0 | 9.8 | 9.6 | 9.4 | 9.6 | 9.5 | 9.3 | | |
| | 85 [29.4] | Total BTUH [kW] | 105.9 [31.04] | 102.2 [29.95] | 98.5 [28.87] | 95.0 [27.84] | 91.6 [26.85] | 88.3 [25.88] | 91.3 [26.76] | 88.1 [25.82] | 84.9 [24.88] | |
| | | Sens BTUH [kW] | 41.3 [12.10] | 37.7 [11.05] | 34.2 [10.02] | 76.7 [22.48] | 70.2 [20.57] | 63.6 [18.64] | 85.8 [25.15] | 78.5 [23.01] | 71.2 [20.87] | |
| | | Power | 9.6 | 9.5 | 9.3 | 9.2 | 9.1 | 8.9 | 9.1 | 9.0 | 8.8 | |
| | 90 [32.2] | Total BTUH [kW] | 104.3 [30.57] | 100.6 [29.48] | 96.9 [28.40] | 93.3 [27.34] | 90.0 [26.38] | 86.7 [25.41] | 89.6 [26.26] | 86.4 [25.32] | 83.3 [24.41] | |
| | | Sens BTUH [kW] | 40.7 [11.93] | 37.3 [10.93] | 33.8 [9.91] | 76.2 [22.33] | 69.7 [20.43] | 63.2 [18.52] | 85.3 [25.00] | 78.0 [22.86] | 70.7 [20.72] | |
| | | Power | 9.1 | 8.9 | 8.8 | 8.7 | 8.6 | 8.4 | 8.6 | 8.4 | 8.3 | |
| | 95 [35] | Total BTUH [kW] | 102.7 [30.10] | 99.1 [29.04] | 95.5 [27.99] | 91.7 [26.87] | 88.5 [25.94] | 85.2 [24.97] | 88.0 [25.79] | 84.9 [24.88] | 81.8 [23.97] | |
| | | Sens BTUH [kW] | 40.3 [11.81] | 36.8 [10.79] | 33.4 [9.79] | 75.7 [22.19] | 69.3 [20.31] | 62.8 [18.40] | 84.9 [24.88] | 77.6 [22.74] | 70.4 [20.63] | |
| | | Power | 8.6 | 8.4 | 8.3 | 8.2 | 8.0 | 7.9 | 8.0 | 7.9 | 7.8 | |
| | 100 [37.8] | Total BTUH [kW] | 101.0 [29.60] | 97.5 [28.57] | 93.9 [27.52] | 90.0 [26.38] | 86.9 [25.47] | 83.7 [24.53] | 86.4 [25.32] | 83.3 [24.41] | 80.3 [23.53] | |
| | | Sens BTUH [kW] | 39.8 [11.66] | 36.4 [10.67] | 33.0 [9.67] | 75.2 [22.04] | 68.8 [20.16] | 62.4 [18.29] | 84.3 [24.71] | 77.1 [22.60] | 69.9 [20.49] | |
| | | Power | 8.0 | 7.9 | 7.8 | 7.6 | 7.5 | 7.4 | 7.5 | 7.4 | 7.3 | |
| | 105 [40.6] | Total BTUH [kW] | 99.2 [29.07] | 95.8 [28.08] | 92.3 [27.05] | 88.3 [25.88] | 85.2 [24.97] | 82.1 [24.06] | 84.6 [24.79] | 81.6 [23.91] | 78.6 [23.04] | |
| | | Sens BTUH [kW] | 39.1 [11.46] | 35.7 [10.46] | 32.4 [9.50] | 74.5 [21.83] | 68.2 [19.99] | 61.8 [18.11] | 83.6 [24.50] | 76.5 [22.42] | 69.4 [20.34] | |
| | | Power | 7.5 | 7.4 | 7.2 | 7.1 | 7.0 | 6.9 | 7.0 | 6.9 | 6.7 | |
| | 110 [43.3] | Total BTUH [kW] | 97.2 [28.49] | 93.8 [27.49] | 90.4 [26.49] | 86.2 [25.26] | 83.2 [24.38] | 80.1 [23.48] | 82.5 [24.18] | 79.6 [23.33] | 76.7 [22.48] | |
| | | Sens BTUH [kW] | 38.1 [11.17] | 34.8 [10.20] | 31.6 [9.26] | 73.5 [21.54] | 67.3 [19.72] | 61.0 [17.88] | 82.5 [24.18] | 75.6 [22.16] | 68.6 [20.10] | |
| | | Power | 7.0 | 6.8 | 6.7 | 6.6 | 6.4 | 6.3 | 6.4 | 6.3 | 6.2 | |
| | 115 [46.1] | Total BTUH [kW] | 94.7 [27.75] | 91.4 [26.79] | 88.1 [25.82] | 83.7 [24.53] | 80.8 [23.68] | 77.8 [22.80] | 80.0 [23.45] | 77.2 [22.63] | 74.4 [21.80] | |
| | | Sens BTUH [kW] | 36.7 [10.76] | 33.6 [9.85] | 30.5 [8.94] | 72.2 [21.16] | 66.0 [19.34] | 59.9 [17.55] | 80.0 [23.45] | 74.4 [21.80] | 67.4 [19.75] | |
| | | Power | 6.4 | 6.3 | 6.2 | 6.0 | 5.9 | 5.8 | 5.9 | 5.8 | 5.7 | |

CONDENSING UNIT **RAWD-091**

WITH AIR HANDLER **RHGG-090Z**

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] | | | |
|--------------------------------------|------------|-----------------|---------------|---------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|
| CFM [L/s] | | 3600 [1669] | 3000 [1416] | 2400 [1133] | 3600 [1669] | 3000 [1416] | 2400 [1133] | 3600 [1669] | 3000 [1416] | 2400 [1133] | |
| DR ① | | .17 | .13 | .08 | .17 | .13 | .08 | .17 | .13 | .08 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 109.1 [31.97] | 105.3 [30.86] | 101.5 [29.75] | 98.1 [28.75] | 94.7 [27.75] | 91.2 [26.73] | 94.4 [27.67] | 91.1 [26.70] | 87.8 [25.73] |
| | | Sens BTUH [kW] | 41.9 [12.28] | 38.3 [11.22] | 34.7 [10.17] | 77.4 [22.68] | 70.8 [20.75] | 64.1 [18.79] | 86.5 [25.35] | 79.1 [23.18] | 71.7 [21.01] |
| | | Power | 10.9 | 10.7 | 10.5 | 10.5 | 10.3 | 10.1 | 10.4 | 10.2 | 10.0 |
| | 80 [26.7] | Total BTUH [kW] | 106.9 [31.33] | 103.1 [30.22] | 99.4 [29.13] | 95.9 [28.11] | 92.5 [27.11] | 89.2 [26.14] | 92.2 [27.02] | 89.0 [26.08] | 85.8 [25.15] |
| | | Sens BTUH [kW] | 40.9 [11.99] | 37.5 [10.99] | 34.0 [9.96] | 76.4 [22.39] | 69.9 [20.49] | 63.4 [18.58] | 85.5 [25.06] | 78.2 [22.92] | 70.9 [20.78] |
| | | Power | 10.3 | 10.2 | 10.0 | 9.9 | 9.8 | 9.6 | 9.8 | 9.7 | 9.5 |
| | 85 [29.4] | Total BTUH [kW] | 105.0 [30.77] | 101.3 [29.69] | 97.6 [28.60] | 94.0 [27.55] | 90.7 [26.58] | 87.4 [25.61] | 90.3 [26.46] | 87.2 [25.56] | 84.0 [24.62] |
| | | Sens BTUH [kW] | 40.3 [11.81] | 36.8 [10.79] | 33.4 [9.79] | 75.7 [22.19] | 69.3 [20.31] | 62.8 [18.40] | 84.8 [24.85] | 77.6 [22.74] | 70.4 [20.63] |
| | | Power | 9.8 | 9.6 | 9.5 | 9.4 | 9.2 | 9.1 | 9.3 | 9.1 | 9.0 |
| | 90 [32.2] | Total BTUH [kW] | 103.3 [30.27] | 99.7 [29.22] | 96.1 [28.16] | 92.3 [27.05] | 89.1 [26.11] | 85.9 [25.17] | 88.6 [25.97] | 85.5 [25.06] | 82.4 [24.15] |
| | | Sens BTUH [kW] | 39.8 [11.66] | 36.4 [10.67] | 33.0 [9.67] | 75.2 [22.04] | 68.8 [20.16] | 62.4 [18.29] | 84.3 [24.71] | 77.1 [22.60] | 69.9 [20.49] |
| | | Power | 9.3 | 9.1 | 9.0 | 8.9 | 8.7 | 8.6 | 8.7 | 8.6 | 8.5 |
| | 95 [35] | Total BTUH [kW] | 101.7 [29.81] | 98.2 [28.78] | 94.6 [27.72] | 90.7 [26.58] | 87.6 [25.67] | 84.4 [24.74] | 87.1 [25.53] | 84.0 [24.62] | 80.9 [23.71] |
| | | Sens BTUH [kW] | 39.3 [11.52] | 35.9 [10.52] | 32.6 [9.55] | 74.7 [21.89] | 68.4 [20.05] | 62.0 [18.17] | 83.9 [24.59] | 76.7 [22.48] | 69.5 [20.37] |
| | | Power | 8.7 | 8.6 | 8.4 | 8.3 | 8.2 | 8.1 | 8.2 | 8.1 | 7.9 |
| | 100 [37.8] | Total BTUH [kW] | 100.1 [29.34] | 96.6 [28.31] | 93.1 [27.28] | 89.1 [26.11] | 86.0 [25.20] | 82.9 [24.30] | 85.4 [25.03] | 82.4 [24.15] | 79.4 [23.27] |
| | | Sens BTUH [kW] | 38.8 [11.37] | 35.5 [10.40] | 32.1 [9.41] | 74.2 [21.75] | 67.9 [19.90] | 61.5 [18.02] | 83.3 [24.41] | 76.2 [22.33] | 69.1 [20.25] |
| | | Power | 8.2 | 8.1 | 7.9 | 7.8 | 7.7 | 7.5 | 7.7 | 7.6 | 7.4 |
| | 105 [40.6] | Total BTUH [kW] | 98.3 [28.81] | 94.9 [27.81] | 91.4 [26.79] | 87.3 [25.59] | 84.3 [24.71] | 81.2 [23.80] | 83.6 [24.50] | 80.7 [23.65] | 77.8 [22.80] |
| | | Sens BTUH [kW] | 38.1 [11.17] | 34.8 [10.20] | 31.6 [9.26] | 73.5 [21.54] | 67.3 [19.72] | 61.0 [17.88] | 82.7 [24.24] | 75.6 [22.16] | 68.5 [20.08] |
| | | Power | 7.7 | 7.5 | 7.4 | 7.3 | 7.1 | 7.0 | 7.1 | 7.0 | 6.9 |
| | 110 [43.3] | Total BTUH [kW] | 96.2 [28.19] | 92.9 [27.23] | 89.5 [26.23] | 85.3 [25.00] | 82.3 [24.12] | 79.3 [23.24] | 81.6 [23.91] | 78.7 [23.06] | 75.8 [22.21] |
| | | Sens BTUH [kW] | 37.1 [10.87] | 33.9 [9.94] | 30.8 [9.03] | 72.6 [21.28] | 66.4 [19.46] | 60.2 [17.64] | 81.6 [23.91] | 74.7 [21.89] | 67.7 [19.84] |
| | | Power | 7.1 | 7.0 | 6.9 | 6.7 | 6.6 | 6.5 | 6.6 | 6.5 | 6.4 |
| | 115 [46.1] | Total BTUH [kW] | 93.8 [27.49] | 90.5 [26.52] | 87.2 [25.56] | 82.8 [24.27] | 79.9 [23.42] | 77.0 [22.57] | 79.1 [23.18] | 76.3 [22.36] | 73.5 [21.54] |
| | | Sens BTUH [kW] | 35.7 [10.46] | 32.7 [9.58] | 29.6 [8.67] | 71.2 [20.87] | 65.1 [19.08] | 59.0 [17.29] | 79.1 [23.18] | 73.5 [21.54] | 66.6 [19.52] |
| | | Power | 6.6 | 6.5 | 6.4 | 6.2 | 6.1 | 6.0 | 6.1 | 6.0 | 5.9 |

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:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWD-091**

WITH
AIR
HANDLER **RHGG-120H**

| 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] | | | |
| CFM [L/s] | | 3840 [1812] | 3200 [1510] | 2560 [1208] | 3840 [1812] | 3200 [1510] | 2560 [1208] | 3840 [1812] | 3200 [1510] | 2560 [1208] | |
| DR ① | | .17 | .13 | .08 | .17 | .13 | .08 | .17 | .13 | .08 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 112.8 [33.06] | 108.8 [31.89] | 104.9 [30.74] | 101.8 [29.83] | 98.2 [28.78] | 94.7 [27.75] | 98.1 [28.75] | 94.7 [27.75] | 91.2 [26.73] |
| | Sens BTUH [kW] | 46.0 [13.48] | 42.1 [12.34] | 38.1 [11.17] | 81.4 [23.86] | 74.5 [21.83] | 67.5 [19.78] | 90.6 [26.55] | 82.8 [24.27] | 75.1 [22.01] | |
| | Power | 10.8 | 10.7 | 10.5 | 10.4 | 10.3 | 10.1 | 10.3 | 10.1 | 10.0 | |
| | 80 [26.7] | Total BTUH [kW] | 110.6 [32.41] | 106.7 [31.27] | 102.8 [30.13] | 99.6 [29.19] | 96.1 [28.16] | 92.6 [27.14] | 95.9 [28.11] | 92.5 [27.11] | 89.2 [26.14] |
| | Sens BTUH [kW] | 45.0 [13.19] | 41.2 [12.07] | 37.3 [10.93] | 80.5 [23.59] | 73.6 [21.57] | 66.7 [19.55] | 89.6 [26.26] | 82.0 [24.03] | 74.3 [21.78] | |
| | Power | 10.3 | 10.1 | 10.0 | 9.9 | 9.7 | 9.6 | 9.8 | 9.6 | 9.5 | |
| | 85 [29.4] | Total BTUH [kW] | 108.7 [31.86] | 104.9 [30.74] | 101.0 [29.60] | 97.7 [28.63] | 94.3 [27.64] | 90.8 [26.61] | 94.0 [27.55] | 90.7 [26.58] | 87.4 [25.61] |
| | Sens BTUH [kW] | 44.4 [13.01] | 40.6 [11.90] | 36.8 [10.79] | 79.8 [23.39] | 73.0 [21.39] | 66.2 [19.40] | 88.9 [26.05] | 81.3 [23.83] | 81.3 [23.83] | 73.7 [21.60] |
| | Power | 9.8 | 9.6 | 9.4 | 9.4 | 9.2 | 9.1 | 9.2 | 9.1 | 8.9 | |
| | 90 [32.2] | Total BTUH [kW] | 107.0 [31.36] | 103.2 [30.24] | 99.5 [29.16] | 96.0 [28.13] | 92.6 [27.14] | 89.3 [26.17] | 92.3 [27.05] | 89.1 [26.11] | 85.8 [25.15] |
| | Sens BTUH [kW] | 43.8 [12.84] | 40.1 [11.75] | 36.4 [10.67] | 79.3 [23.24] | 72.5 [21.25] | 65.7 [19.25] | 88.4 [25.91] | 80.9 [23.71] | 73.3 [21.48] | |
| | Power | 9.2 | 9.1 | 8.9 | 8.8 | 8.7 | 8.5 | 8.7 | 8.6 | 8.4 | |
| | 95 [35] | Total BTUH [kW] | 105.4 [30.89] | 101.7 [29.81] | 98.0 [28.72] | 94.4 [27.67] | 91.1 [26.70] | 87.8 [25.73] | 90.7 [26.58] | 87.5 [25.64] | 84.4 [24.74] |
| | Sens BTUH [kW] | 43.4 [12.72] | 39.7 [11.63] | 36.0 [10.55] | 78.8 [23.09] | 72.1 [21.13] | 65.4 [19.17] | 87.9 [25.76] | 80.4 [23.56] | 72.9 [21.36] | |
| | Power | 8.7 | 8.6 | 8.4 | 8.3 | 8.2 | 8.0 | 8.2 | 8.0 | 7.9 | |
| | 100 [37.8] | Total BTUH [kW] | 103.8 [30.42] | 100.1 [29.34] | 96.5 [28.28] | 92.8 [27.20] | 89.5 [26.23] | 86.3 [25.29] | 89.1 [26.11] | 86.0 [25.20] | 82.8 [24.27] |
| | Sens BTUH [kW] | 42.9 [12.57] | 39.2 [11.49] | 35.5 [10.40] | 78.3 [22.95] | 71.6 [20.98] | 64.9 [19.02] | 87.4 [25.61] | 80.0 [23.45] | 72.5 [21.25] | |
| | Power | 8.2 | 8.0 | 7.9 | 7.8 | 7.6 | 7.5 | 7.6 | 7.5 | 7.4 | |
| | 105 [40.6] | Total BTUH [kW] | 102.0 [29.89] | 98.4 [28.84] | 94.8 [27.78] | 91.0 [26.67] | 87.8 [25.73] | 84.6 [24.79] | 87.3 [25.59] | 84.2 [24.68] | 81.2 [23.80] |
| | Sens BTUH [kW] | 42.2 [12.37] | 38.6 [11.31] | 35.0 [10.26] | 77.6 [22.74] | 71.0 [20.81] | 64.4 [18.87] | 86.7 [25.41] | 79.3 [23.24] | 71.9 [21.07] | |
| | Power | 7.6 | 7.5 | 7.4 | 7.2 | 7.1 | 7.0 | 7.1 | 7.0 | 6.9 | |
| | 110 [43.3] | Total BTUH [kW] | 99.9 [29.28] | 96.4 [28.25] | 92.9 [27.23] | 88.9 [26.05] | 85.8 [25.15] | 82.7 [24.24] | 85.2 [24.97] | 82.2 [24.09] | 79.3 [23.24] |
| | Sens BTUH [kW] | 41.2 [12.07] | 37.7 [11.05] | 34.2 [10.02] | 76.6 [22.45] | 70.1 [20.54] | 63.6 [18.64] | 85.2 [24.97] | 78.4 [22.98] | 71.1 [20.84] | |
| | Power | 7.1 | 7.0 | 6.9 | 6.7 | 6.6 | 6.5 | 6.6 | 6.5 | 6.3 | |
| | 115 [46.1] | Total BTUH [kW] | 97.4 [28.55] | 94.0 [27.55] | 90.6 [26.55] | 86.5 [25.35] | 83.4 [24.44] | 80.4 [23.56] | 82.8 [24.27] | 79.9 [23.42] | 77.0 [22.57] |
| | Sens BTUH [kW] | 39.8 [11.66] | 36.4 [10.67] | 33.0 [9.67] | 75.3 [22.07] | 68.9 [20.19] | 62.4 [18.29] | 82.8 [24.27] | 77.2 [22.63] | 70.0 [20.51] | |
| | Power | 6.6 | 6.4 | 6.3 | 6.1 | 6.0 | 5.9 | 6.0 | 5.9 | 5.8 | |

CONDENSING
UNIT **RAWD-091**

WITH
AIR
HANDLER **RHGG-120Z**

| 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] | | | |
| CFM [L/s] | | 3840 [1812] | 3200 [1510] | 2560 [1208] | 3840 [1812] | 3200 [1510] | 2560 [1208] | 3840 [1812] | 3200 [1510] | 2560 [1208] | |
| DR ① | | .17 | .13 | .08 | .17 | .13 | .08 | .17 | .13 | .08 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 112.9 [33.09] | 108.9 [31.92] | 105.0 [30.77] | 101.9 [29.86] | 98.4 [28.84] | 94.8 [27.78] | 98.2 [28.78] | 94.8 [27.78] | 91.3 [26.76] |
| | Sens BTUH [kW] | 46.1 [13.51] | 42.2 [12.37] | 38.3 [11.22] | 81.6 [23.91] | 74.6 [21.86] | 67.6 [19.81] | 90.7 [26.58] | 83.0 [24.32] | 75.2 [22.04] | |
| | Power | 11.0 | 10.8 | 10.6 | 10.6 | 10.4 | 10.3 | 10.5 | 10.3 | 10.1 | |
| | 80 [26.7] | Total BTUH [kW] | 110.7 [32.44] | 106.8 [31.30] | 102.9 [30.16] | 99.7 [29.22] | 96.2 [28.19] | 92.7 [27.17] | 96.0 [28.13] | 92.7 [27.17] | 89.3 [26.17] |
| | Sens BTUH [kW] | 45.2 [13.25] | 41.3 [12.10] | 37.5 [10.99] | 80.6 [23.62] | 73.7 [21.60] | 66.9 [19.61] | 89.7 [26.29] | 82.1 [24.06] | 74.4 [21.80] | |
| | Power | 10.5 | 10.3 | 10.1 | 10.1 | 9.9 | 9.7 | 9.9 | 9.8 | 9.6 | |
| | 85 [29.4] | Total BTUH [kW] | 108.8 [31.89] | 105.0 [30.77] | 101.2 [29.66] | 97.8 [28.66] | 94.4 [27.67] | 91.0 [26.67] | 94.1 [27.58] | 90.8 [26.61] | 87.5 [25.64] |
| | Sens BTUH [kW] | 44.5 [13.04] | 40.7 [11.93] | 36.9 [10.81] | 79.9 [23.42] | 73.1 [21.42] | 66.3 [19.43] | 91.1 [26.58] | 89.1 [26.11] | 81.5 [23.89] | 73.9 [21.66] |
| | Power | 9.9 | 9.8 | 9.6 | 9.5 | 9.4 | 9.2 | 9.4 | 9.3 | 9.1 | |
| | 90 [32.2] | Total BTUH [kW] | 107.1 [31.39] | 103.4 [30.30] | 99.6 [29.19] | 96.1 [28.16] | 92.8 [27.20] | 89.4 [26.20] | 92.4 [27.08] | 89.2 [26.14] | 86.0 [25.20] |
| | Sens BTUH [kW] | 44.0 [12.90] | 40.2 [11.78] | 36.5 [10.70] | 79.4 [23.27] | 72.6 [21.28] | 65.9 [19.31] | 88.5 [25.94] | 81.0 [23.74] | 73.4 [21.51] | |
| | Power | 9.4 | 9.2 | 9.1 | 9.0 | 8.8 | 8.7 | 8.9 | 8.7 | 8.6 | |
| | 95 [35] | Total BTUH [kW] | 105.5 [30.92] | 101.8 [29.83] | 98.1 [28.75] | 94.5 [27.70] | 91.2 [26.73] | 87.9 [25.76] | 90.8 [26.61] | 87.7 [25.70] | 84.5 [24.76] |
| | Sens BTUH [kW] | 43.5 [12.75] | 39.8 [11.66] | 36.1 [10.58] | 79.0 [23.15] | 72.2 [21.16] | 65.5 [19.20] | 88.1 [25.82] | 80.6 [23.62] | 73.0 [21.39] | |
| | Power | 8.9 | 8.7 | 8.6 | 8.5 | 8.3 | 8.2 | 8.3 | 8.2 | 8.1 | |
| | 100 [37.8] | Total BTUH [kW] | 103.9 [30.45] | 100.2 [29.37] | 96.6 [28.31] | 92.9 [27.23] | 89.6 [26.26] | 86.4 [25.32] | 89.2 [26.14] | 86.1 [25.23] | 83.0 [24.32] |
| | Sens BTUH [kW] | 43.0 [12.60] | 39.3 [11.52] | 35.7 [10.46] | 78.4 [22.98] | 71.7 [21.01] | 65.0 [19.05] | 87.6 [25.67] | 80.1 [23.48] | 72.6 [21.28] | |
| | Power | 8.3 | 8.2 | 8.1 | 7.9 | 7.8 | 7.7 | 7.8 | 7.7 | 7.5 | |
| | 105 [40.6] | Total BTUH [kW] | 102.1 [29.92] | 98.5 [28.87] | 94.9 [27.81] | 91.1 [26.70] | 87.9 [25.76] | 84.7 [24.82] | 87.4 [25.61] | 84.4 [24.74] | 81.3 [23.83] |
| | Sens BTUH [kW] | 42.3 [12.40] | 38.7 [11.34] | 35.1 [10.29] | 77.8 [22.80] | 71.1 [20.84] | 64.5 [18.90] | 86.9 [25.47] | 79.5 [23.30] | 72.0 [21.10] | |
| | Power | 7.8 | 7.7 | 7.5 | 7.4 | 7.3 | 7.1 | 7.3 | 7.1 | 7.0 | |
| | 110 [43.3] | Total BTUH [kW] | 100.0 [29.31] | 96.5 [28.28] | 93.0 [27.26] | 89.1 [26.11] | 85.9 [25.17] | 82.8 [24.27] | 85.4 [25.03] | 82.4 [24.15] | 79.4 [23.27] |
| | Sens BTUH [kW] | 41.3 [12.10] | 37.8 [11.08] | 34.3 [10.05] | 76.8 [22.51] | 70.2 [20.57] | 63.7 [18.67] | 85.4 [25.03] | 78.6 [23.04] | 71.2 [20.87] | |
| | Power | 7.3 | 7.1 | 7.0 | 6.9 | 6.7 | 6.6 | 6.7 | 6.6 | 6.5 | |
| | 115 [46.1] | Total BTUH [kW] | 97.6 [28.60] | 94.1 [27.58] | 90.7 [26.58] | 86.6 [25.38] | 83.5 [24.47] | 80.5 [23.59] | 82.9 [24.30] | 80.0 [23.45] | 77.1 [22.60] |
| | Sens BTUH [kW] | 40.0 [11.72] | 36.6 [10.73] | 33.1 [9.70] | 75.4 [22.10] | 69.0 [20.22] | 62.5 [18.32] | 82.9 [24.30] | 77.3 [22.65] | 70.1 [20.54] | |
| | Power | 6.7 | 6.6 | 6.5 | 6.3 | 6.2 | 6.1 | 6.2 | 6.1 | 6.0 | |

DR —Depression ratio

Total —Total capacity x 1000 BTUH

dbE—Entering air dry bulb

Sens —Sensible capacity x 1000 BTUH

wbE—Entering air wet bulb

Power—KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWE-079**

WITH
AIR
HANDLER **RCJC-090**

ENTERING INDOOR AIR @ 80°F [26.7°C] dB_E ①

| wbE | | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
|--------------------------------------|------------|-----------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|
| CFM [L/s] | | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] |
| DR ① | | | .14 | .09 | .03 | .14 | .09 | .03 | .14 | .09 | .03 |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 89.8 [26.32] | 87.0 [25.50] | 84.2 [24.68] | 83.3 [24.41] | 80.5 [23.59] | 77.7 [22.77] | 79.9 [23.42] | 77.1 [22.60] | 74.7 [21.89] |
| | | Sens BTUH [kW] | 58.4 [8.40] | 52.9 [15.50] | 47.4 [13.89] | 68.1 [19.96] | 62.6 [18.35] | 57.1 [16.73] | 79.9 [23.42] | 75.8 [22.21] | 70.1 [20.54] |
| | | Power | 5.3 | 5.2 | 5.1 | 5.2 | 5.1 | 5.0 | 5.2 | 5.0 | 4.9 |
| | 80 [26.7] | Total BTUH [kW] | 88.1 [25.82] | 85.4 [25.03] | 82.6 [24.21] | 81.7 [23.94] | 78.9 [23.12] | 76.1 [22.30] | 78.3 [22.95] | 75.5 [22.13] | 72.7 [21.31] |
| | | Sens BTUH [kW] | 57.5 [16.85] | 52.0 [15.24] | 46.5 [13.63] | 67.2 [19.69] | 61.7 [18.08] | 56.2 [16.47] | 78.3 [22.95] | 74.8 [21.92] | 69.6 [20.40] |
| | | Power | 5.6 | 5.5 | 5.4 | 5.5 | 5.4 | 5.3 | 5.5 | 5.4 | 5.3 |
| | 85 [29.4] | Total BTUH [kW] | 86.3 [25.29] | 83.5 [24.47] | 80.8 [23.68] | 79.8 [23.39] | 77.1 [22.60] | 74.3 [21.78] | 76.5 [22.42] | 73.7 [21.60] | 70.9 [20.78] |
| | | Sens BTUH [kW] | 56.8 [16.65] | 51.3 [15.03] | 45.8 [13.42] | 66.4 [19.46] | 60.9 [17.85] | 55.4 [16.24] | 76.5 [22.42] | 73.7 [21.60] | 68.9 [20.19] |
| | | Power | 5.9 | 5.8 | 5.7 | 5.8 | 5.7 | 5.6 | 5.8 | 5.7 | 5.6 |
| | 90 [32.2] | Total BTUH [kW] | 84.4 [24.74] | 81.6 [23.91] | 78.9 [23.12] | 77.9 [22.83] | 75.2 [22.04] | 72.4 [21.22] | 74.6 [21.86] | 71.8 [21.04] | 69.0 [20.22] |
| | | Sens BTUH [kW] | 56.1 [16.44] | 50.6 [14.83] | 45.1 [13.22] | 65.8 [19.28] | 60.3 [17.67] | 54.8 [16.06] | 74.6 [21.86] | 71.8 [21.04] | 67.8 [19.87] |
| | | Power | 6.2 | 6.1 | 6.0 | 6.1 | 6.0 | 5.9 | 6.1 | 6.0 | 5.9 |
| | 95 [35] | Total BTUH [kW] | 82.5 [24.18] | 79.7 [23.36] | 76.0 [22.27] | 76.0 [22.27] | 73.2 [21.45] | 70.5 [20.66] | 72.6 [21.28] | 69.9 [20.49] | 67.1 [19.67] |
| | | Sens BTUH [kW] | 55.5 [16.27] | 50.0 [14.65] | 44.5 [13.04] | 65.2 [19.11] | 59.7 [17.50] | 54.2 [15.88] | 72.6 [21.28] | 69.9 [20.49] | 67.1 [19.67] |
| | | Power | 6.5 | 6.4 | 6.3 | 6.4 | 6.3 | 6.2 | 6.4 | 6.3 | 6.2 |
| | 100 [37.8] | Total BTUH [kW] | 80.6 [23.62] | 77.9 [22.83] | 75.1 [22.01] | 74.2 [21.75] | 71.4 [20.93] | 68.6 [20.10] | 70.8 [20.75] | 68.0 [19.93] | 65.3 [19.14] |
| | | Sens BTUH [kW] | 54.9 [16.09] | 49.4 [14.48] | 43.9 [12.87] | 64.5 [18.90] | 59.0 [17.29] | 53.5 [15.68] | 70.8 [20.75] | 68.0 [19.93] | 65.3 [19.14] |
| | | Power | 6.8 | 6.7 | 6.6 | 6.7 | 6.6 | 6.5 | 6.7 | 6.6 | 6.5 |
| | 105 [40.6] | Total BTUH [kW] | 79.0 [23.15] | 76.2 [22.33] | 73.4 [21.51] | 72.5 [21.25] | 69.7 [20.43] | 67.0 [19.64] | 69.1 [20.25] | 66.4 [19.46] | 63.6 [18.64] |
| | | Sens BTUH [kW] | 54.1 [15.86] | 48.6 [14.24] | 43.1 [12.63] | 63.8 [18.70] | 58.3 [17.09] | 52.8 [15.47] | 69.1 [20.25] | 66.4 [19.46] | 63.6 [18.64] |
| | | Power | 7.2 | 7.0 | 6.9 | 7.1 | 7.0 | 6.8 | 7.0 | 6.9 | 6.8 |
| | 110 [43.3] | Total BTUH [kW] | 77.6 [22.74] | 74.8 [21.92] | 72.1 [21.13] | 71.1 [20.84] | 68.4 [20.05] | 65.6 [19.23] | 67.7 [19.84] | 65.0 [19.05] | 62.2 [18.23] |
| | | Sens BTUH [kW] | 53.2 [15.59] | 47.7 [13.98] | 42.2 [12.37] | 62.8 [18.40] | 57.3 [16.79] | 51.8 [15.18] | 67.7 [19.84] | 65.0 [19.05] | 62.2 [18.23] |
| | | Power | 7.5 | 7.4 | 7.3 | 7.4 | 7.3 | 7.2 | 7.3 | 7.2 | 7.1 |
| | 115 [46.1] | Total BTUH [kW] | 76.6 [22.45] | 73.8 [21.63] | 71.0 [20.81] | 70.1 [20.54] | 67.3 [19.72] | 64.6 [18.93] | 66.7 [19.55] | 63.9 [18.73] | 61.2 [17.94] |
| | | Sens BTUH [kW] | 52.0 [15.24] | 46.5 [13.63] | 41.0 [12.02] | 61.7 [18.08] | 56.2 [16.47] | 50.7 [14.86] | 67.7 [19.84] | 63.9 [18.73] | 61.2 [17.94] |
| | | Power | 7.8 | 7.7 | 7.6 | 7.7 | 7.6 | 7.5 | 7.7 | 7.5 | 7.4 |

CONDENSING UNIT **RAWE-079**

WITH COOLING COIL **RHGG-C090**

ENTERING INDOOR AIR @ 80°F [26.7°C] dB_E ①

| wbE | | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | | |
|--------------------------------------|------------|-----------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|
| CFM [L/s] | | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] |
| DR ① | | | .14 | .09 | .03 | .14 | .09 | .03 | .14 | .09 | .03 |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 92.7 [27.17] | 89.9 [26.35] | 87.1 [25.53] | 86.2 [25.26] | 83.4 [24.44] | 80.7 [23.65] | 82.8 [24.27] | 80.1 [23.47] | 77.3 [22.65] |
| | | Sens BTUH [kW] | 57.6 [8.40] | 52.1 [15.27] | 46.6 [13.66] | 67.3 [19.72] | 61.8 [18.11] | 56.3 [16.50] | 80.4 [23.56] | 75.0 [21.98] | 69.5 [20.37] |
| | | Power | 5.4 | 5.3 | 5.2 | 5.3 | 5.2 | 5.1 | 5.3 | 5.2 | 5.0 |
| | 80 [26.7] | Total BTUH [kW] | 91.1 [26.70] | 88.3 [25.88] | 85.5 [25.06] | 84.6 [24.79] | 81.8 [23.97] | 79.1 [23.18] | 81.2 [23.80] | 78.4 [22.98] | 75.7 [22.19] |
| | | Sens BTUH [kW] | 56.7 [16.62] | 51.2 [15.01] | 45.7 [13.39] | 66.4 [19.46] | 60.9 [17.85] | 55.4 [16.24] | 79.7 [23.36] | 73.9 [21.66] | 68.6 [20.10] |
| | | Power | 5.7 | 5.6 | 5.5 | 5.6 | 5.5 | 5.4 | 5.6 | 5.5 | 5.4 |
| | 85 [29.4] | Total BTUH [kW] | 89.2 [26.14] | 86.5 [25.35] | 83.7 [24.53] | 82.8 [24.27] | 80.0 [23.45] | 77.2 [22.63] | 79.4 [23.27] | 76.6 [22.45] | 73.9 [21.66] |
| | | Sens BTUH [kW] | 56.0 [16.41] | 50.5 [14.80] | 45.0 [13.19] | 65.6 [19.23] | 60.1 [17.61] | 54.6 [16.00] | 78.7 [23.06] | 73.5 [21.54] | 67.8 [19.87] |
| | | Power | 6.0 | 5.9 | 5.8 | 5.9 | 5.8 | 5.7 | 5.9 | 5.8 | 5.7 |
| | 90 [32.2] | Total BTUH [kW] | 87.3 [25.59] | 84.6 [24.79] | 81.8 [23.97] | 80.9 [23.71] | 78.1 [22.89] | 75.3 [22.07] | 77.5 [22.71] | 74.7 [21.89] | 71.9 [21.07] |
| | | Sens BTUH [kW] | 55.3 [16.21] | 49.8 [14.59] | 44.3 [12.98] | 65.0 [19.05] | 59.5 [17.44] | 54.0 [15.83] | 77.5 [22.71] | 72.8 [21.34] | 67.2 [19.69] |
| | | Power | 6.3 | 6.2 | 6.1 | 6.2 | 6.1 | 6.0 | 6.2 | 6.1 | 6.0 |
| | 95 [35] | Total BTUH [kW] | 85.4 [25.03] | 82.6 [24.21] | 79.9 [23.42] | 78.9 [23.12] | 76.2 [22.33] | 73.4 [21.51] | 75.6 [22.16] | 72.8 [21.34] | 70.0 [20.51] |
| | | Sens BTUH [kW] | 54.7 [16.03] | 49.2 [14.42] | 43.7 [12.81] | 64.4 [18.87] | 58.9 [17.26] | 53.4 [15.65] | 75.6 [22.16] | 71.9 [21.07] | 66.6 [19.52] |
| | | Power | 6.6 | 6.5 | 6.4 | 6.5 | 6.4 | 6.3 | 6.5 | 6.4 | 6.3 |
| | 100 [37.8] | Total BTUH [kW] | 83.6 [24.50] | 80.8 [23.68] | 78.0 [22.86] | 77.1 [22.60] | 74.3 [21.78] | 71.6 [20.98] | 73.7 [21.60] | 71.0 [20.81] | 68.2 [19.99] |
| | | Sens BTUH [kW] | 54.1 [15.86] | 48.6 [14.24] | 43.1 [12.63] | 63.7 [18.67] | 58.2 [17.06] | 52.7 [15.44] | 73.7 [21.60] | 71.0 [20.81] | 65.9 [19.31] |
| | | Power | 7.0 | 6.8 | 6.7 | 6.9 | 6.7 | 6.6 | 6.8 | 6.7 | 6.6 |
| | 105 [40.6] | Total BTUH [kW] | 81.9 [24.00] | 79.1 [23.18] | 76.4 [22.39] | 75.4 [22.10] | 72.7 [21.31] | 69.9 [20.49] | 72.1 [21.13] | 69.3 [20.31] | 66.5 [19.49] |
| | | Sens BTUH [kW] | 53.3 [15.62] | 47.8 [14.01] | 42.3 [12.40] | 63.0 [18.46] | 57.5 [16.85] | 52.0 [15.24] | 72.1 [21.13] | 69.3 [20.31] | 65.2 [19.11] |
| | | Power | 7.3 | 7.2 | 7.0 | 7.2 | 7.1 | 7.0 | 7.1 | 7.0 | 6.9 |
| | 110 [43.3] | Total BTUH [kW] | 80.5 [23.59] | 77.8 [22.80] | 75.0 [21.98] | 74.1 [21.72] | 71.3 [20.90] | 68.5 [20.08] | 70.7 [20.72] | 67.9 [19.90] | 65.1 [19.08] |
| | | Sens BTUH [kW] | 52.4 [15.36] | 46.9 [13.75] | 41.4 [12.13] | 62.1 [18.20] | 56.6 [16.59] | 51.1 [14.98] | 70.7 [20.72] | 67.9 [19.90] | 64.2 [18.82] |
| | | Power | 7.6 | 7.5 | 7.4 | 7.5 | 7.4 | 7.3 | 7.4 | 7.3 | 7.2 |
| | 115 [46.1] | Total BTUH [kW] | 79.5 [23.30] | 76.7 [22.48] | 74.0 [21.69] | 73.0 [21.39] | 70.3 [20.60] | 67.5 [19.78] | 69.6 [20.40] | 66.9 [19.61] | 64.1 [18.79] |
| | | Sens BTUH [kW] | 51.2 [15.01] | 45.7 [13.39] | 40.2 [11.78] | 60.9 [17.85] | 55.4 [16.24] | 49.9 [14.62] | 69.6 [20.40] | 66.9 [19.61] | 63.1 [18.49] |
| | | Power | 7.9 | 7.8 | 7.7 | 7.8 | 7.7 | 7.6 | 7.8 | 7.7 | 7.5 |

DR — Depression ratio

dB_E—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:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dB}_E - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWE-079**

WITH
AIR
HANDLER **RCCU-D5013S**

| 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] | | |
| CFM [L/s] | | 2880 [1359] | 2400 [1132] | 1920 [906] | 2880 [1359] | 2400 [1132] | 1920 [906] | 2880 [1359] | 2400 [1132] | 1920 [906] |
| DR ① | | .12 | .07 | .02 | .12 | .07 | .02 | .12 | .07 | .02 |
| OUTDOOR DRY BULB TEMPERATURE [°F / °C] | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 92.4 [27.08] 54.8 [16.06] 5.3 | 90.6 [26.55] 51.1 [14.98] 5.3 | 87.8 [25.71] 47.2 [13.82] 5.2 | 85.9 [25.17] 65.7 [19.26] 5.4 | 85.3 [24.99] 60.6 [17.74] 5.3 | 81.6 [23.92] 54.8 [16.06] 5.2 | 80.4 [23.54] 77.0 [22.56] 5.6 | 78.0 [22.86] 71.3 [20.89] 5.4 |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 90.5 [26.52] 54.0 [15.81] 5.6 | 88.8 [26.01] 50.4 [14.76] 5.5 | 85.2 [24.96] 46.8 [13.71] 5.3 | 84.1 [24.63] 64.9 [19.03] 5.7 | 83.5 [24.47] 59.7 [17.49] 5.6 | 79.3 [23.25] 54.6 [15.99] 5.4 | 78.7 [23.07] 76.2 [22.34] 5.8 | 76.5 [22.41] 69.5 [20.36] 5.7 |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 87.8 [25.72] 53.4 [15.65] 5.8 | 86.0 [25.21] 49.9 [14.63] 5.7 | 83.3 [24.42] 46.1 [13.50] 5.6 | 82.1 [24.05] 64.1 [18.78] 6.0 | 81.6 [23.91] 58.8 [17.24] 5.9 | 77.6 [22.73] 53.9 [15.78] 5.7 | 76.7 [22.46] 76.1 [22.30] 6.1 | 74.4 [21.80] 69.5 [20.36] 5.9 |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 85.8 [25.15] 52.7 [15.44] 6.1 | 84.2 [24.66] 49.2 [14.42] 6.0 | 81.6 [23.90] 45.4 [13.30] 5.9 | 80.1 [23.47] 63.2 [18.51] 6.3 | 79.7 [23.35] 58.1 [17.01] 6.2 | 76.6 [22.43] 52.7 [15.43] 6.0 | 75.0 [21.98] 75.1 [21.99] 6.4 | 72.6 [21.26] 68.3 [20.01] 6.2 |
| | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 84.5 [24.75] 51.7 [15.15] 6.4 | 82.2 [24.10] 48.5 [14.21] 6.3 | 79.8 [23.37] 44.7 [13.10] 6.1 | 78.1 [22.89] 62.3 [18.26] 6.6 | 78.0 [22.85] 57.4 [16.82] 6.4 | 74.3 [21.77] 52.5 [15.37] 6.2 | 74.8 [21.93] 74.8 [21.93] 6.8 | 71.2 [20.85] 68.0 [19.93] 6.5 |
| | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 82.4 [24.14] 50.9 [14.92] 6.7 | 80.3 [23.52] 47.8 [14.00] 6.6 | 77.9 [22.83] 44.0 [12.89] 6.5 | 76.3 [22.36] 61.8 [18.10] 6.9 | 75.6 [22.15] 57.2 [16.77] 6.7 | 72.5 [21.23] 51.7 [15.16] 6.6 | 72.5 [21.25] 72.5 [21.25] 7.1 | 69.4 [20.35] 67.1 [19.67] 6.9 |
| | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 79.6 [23.33] 50.5 [14.78] 7.0 | 78.2 [22.92] 47.0 [13.78] 6.9 | 76.0 [22.27] 43.3 [12.68] 6.8 | 74.4 [21.81] 61.1 [17.89] 7.3 | 74.1 [21.71] 55.7 [16.33] 7.2 | 70.6 [20.70] 51.0 [14.94] 6.9 | 70.9 [20.77] 70.9 [20.77] 7.5 | 67.7 [19.83] 66.2 [19.41] 7.3 |
| | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 77.5 [22.70] 49.7 [14.55] 7.4 | 76.2 [22.31] 46.3 [13.55] 7.3 | 74.1 [21.70] 42.5 [12.46] 7.2 | 72.0 [21.09] 60.9 [17.85] 7.6 | 71.7 [21.01] 55.9 [16.37] 7.6 | 68.8 [20.16] 50.2 [14.71] 7.3 | 69.2 [20.28] 69.2 [20.28] 7.9 | 65.7 [19.25] 64.8 [18.98] 7.7 |
| | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 75.3 [22.05] 48.9 [14.32] 7.8 | 74.0 [21.69] 45.5 [13.33] 7.7 | 72.1 [21.11] 41.8 [12.24] 7.6 | 69.9 [20.48] 60.2 [17.65] 8.2 | 69.7 [20.42] 55.1 [16.14] 8.0 | 66.9 [19.60] 49.4 [14.49] 7.7 | 67.5 [19.77] 67.5 [19.77] 8.4 | 64.9 [19.01] 63.6 [18.62] 8.3 |

CONDENSING UNIT **RAWE-091**

WITH COOLING COIL **RCJC-090**

| 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] | | |
| CFM [L/s] | | 3480 [1642] | 2900 [1369] | 2320 [1095] | 3480 [1642] | 2900 [1369] | 2320 [1095] | 3480 [1642] | 2900 [1369] | 2320 [1095] |
| DR ① | | .15 | .12 | .07 | .15 | .12 | .07 | .15 | .12 | .07 |
| OUTDOOR DRY BULB TEMPERATURE [°F / °C] | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 113.3 [33.20] 68.1 [8.40] 6.2 | 109.9 [32.21] 61.6 [18.05] 6.1 | 106.6 [31.24] 55.1 [16.15] 6.0 | 104.1 [30.51] 79.6 [23.33] 6.2 | 100.8 [29.54] 73.1 [21.42] 6.1 | 97.5 [28.57] 66.6 [19.52] 5.9 | 101.8 [29.83] 89.6 [26.26] 6.0 | 98.5 [28.87] 83.1 [24.35] 5.9 |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 111.9 [32.79] 67.7 [19.84] 6.6 | 108.6 [31.83] 61.2 [17.94] 6.4 | 105.3 [30.86] 54.7 [16.03] 6.3 | 102.8 [30.13] 79.2 [23.21] 6.6 | 99.5 [29.16] 72.7 [21.31] 6.4 | 96.2 [28.19] 66.2 [19.40] 6.3 | 100.5 [29.45] 89.2 [26.14] 6.4 | 97.2 [28.49] 82.7 [24.24] 6.2 |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 109.7 [32.15] 66.9 [19.61] 6.9 | 106.4 [31.18] 60.4 [17.71] 6.8 | 103.1 [30.22] 53.9 [15.80] 6.7 | 100.6 [29.48] 78.4 [22.98] 6.9 | 97.3 [28.52] 71.9 [21.07] 6.8 | 94.0 [27.55] 65.4 [19.17] 6.7 | 98.3 [28.81] 88.4 [25.91] 6.7 | 95.0 [27.84] 81.9 [24.00] 6.6 |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 107.0 [31.36] 65.8 [19.28] 7.3 | 103.7 [30.39] 59.3 [17.38] 7.1 | 100.4 [29.42] 52.7 [15.44] 7.0 | 97.9 [28.69] 77.3 [22.65] 7.3 | 94.5 [27.70] 70.7 [20.72] 7.1 | 91.2 [26.73] 64.2 [18.82] 7.0 | 95.5 [27.99] 87.3 [25.59] 7.1 | 92.2 [27.02] 80.8 [23.68] 6.9 |
| | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 104.1 [30.51] 64.5 [18.90] 7.6 | 100.8 [29.54] 58.0 [17.00] 7.5 | 97.5 [28.57] 51.5 [15.09] 7.4 | 94.9 [27.81] 76.0 [22.27] 7.6 | 91.6 [26.85] 69.5 [20.37] 7.5 | 88.3 [25.88] 63.0 [18.46] 7.4 | 92.6 [27.14] 86.0 [25.20] 7.4 | 93.8 [27.49] 89.2 [26.14] 7.2 |
| | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 101.3 [29.69] 63.2 [18.52] 8.0 | 98.0 [28.72] 56.7 [16.62] 7.8 | 94.6 [27.72] 50.2 [14.71] 7.7 | 92.1 [26.99] 74.7 [21.89] 8.0 | 88.8 [26.02] 68.2 [19.99] 7.8 | 85.5 [25.06] 61.7 [18.08] 7.7 | 89.8 [26.32] 84.7 [24.82] 7.8 | 86.5 [25.35] 87.2 [22.92] 7.6 |
| | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 98.9 [28.98] 62.1 [18.20] 8.3 | 95.6 [28.02] 55.6 [16.29] 8.2 | 92.3 [27.05] 49.1 [14.39] 8.1 | 89.8 [26.32] 73.6 [21.57] 8.3 | 86.5 [25.35] 67.1 [19.67] 8.2 | 83.2 [24.38] 60.6 [17.76] 8.1 | 87.5 [25.64] 83.6 [24.50] 8.1 | 84.1 [24.65] 77.1 [22.60] 8.0 |
| | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 97.4 [28.55] 61.3 [17.97] 8.7 | 94.1 [27.58] 54.8 [16.06] 8.5 | 90.8 [26.61] 48.3 [14.16] 8.4 | 88.2 [25.85] 72.8 [21.34] 8.7 | 84.9 [24.88] 66.3 [19.43] 8.5 | 81.6 [23.91] 59.8 [17.53] 8.4 | 85.9 [25.17] 82.8 [24.27] 8.5 | 82.6 [24.21] 76.3 [22.36] 8.3 |
| | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 97.0 [28.43] 61.0 [17.88] 9.0 | 93.6 [27.43] 54.5 [15.97] 8.9 | 90.3 [26.46] 48.0 [14.07] 8.8 | 87.8 [25.73] 72.5 [21.25] 9.0 | 84.5 [24.76] 66.0 [19.34] 8.9 | 81.2 [23.80] 59.5 [17.44] 8.8 | 85.5 [25.06] 82.5 [24.18] 8.8 | 82.2 [24.09] 76.0 [22.27] 8.7 |

DR —Depression ratio

Total —Total capacity x 1000 BTUH

dbE—Entering air dry bulb

Sens —Sensible capacity x 1000 BTUH

wbE—Entering air wet bulb

Power—KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWE-091**

WITH
AIR
HANDLER **RCJC-C120**

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] | | | |
|--------------------------------------|------------|-----------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|
| CFM [L/s] | | 2880 [1359] | 2400 [1132] | 1920 [906] | 2880 [1359] | 2400 [1132] | 1920 [906] | 2880 [1359] | 2400 [1132] | 1920 [906] | |
| DR ① | | .12 | .07 | .02 | .12 | .07 | .02 | .12 | .07 | .02 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 92.4 [27.08] | 90.6 [26.55] | 87.8 [25.71] | 85.9 [25.17] | 85.3 [24.99] | 81.6 [23.92] | 80.4 [23.54] | 78.0 [22.86] | 75.5 [22.12] |
| | | Sens BTUH [kW] | 54.8 [16.06] | 51.1 [14.98] | 47.2 [13.82] | 65.7 [19.26] | 60.6 [17.74] | 54.8 [16.06] | 77.0 [22.56] | 71.3 [20.89] | 63.0 [18.46] |
| | | Power | 5.3 | 5.3 | 5.2 | 5.4 | 5.3 | 5.2 | 5.6 | 5.4 | 5.3 |
| | 80 [26.7] | Total BTUH [kW] | 90.5 [26.52] | 88.8 [26.01] | 85.2 [24.96] | 84.1 [24.63] | 83.5 [24.47] | 79.3 [23.25] | 78.7 [23.07] | 76.5 [22.41] | 74.0 [21.68] |
| | | Sens BTUH [kW] | 54.0 [15.81] | 50.4 [14.76] | 46.8 [13.71] | 64.9 [19.03] | 59.7 [17.49] | 54.6 [15.99] | 76.2 [22.34] | 69.5 [20.36] | 62.2 [18.23] |
| | | Power | 5.6 | 5.5 | 5.3 | 5.7 | 5.6 | 5.4 | 5.8 | 5.7 | 5.6 |
| | 85 [29.4] | Total BTUH [kW] | 87.8 [25.72] | 86.0 [25.21] | 83.3 [24.42] | 82.1 [24.05] | 81.6 [23.91] | 77.6 [22.73] | 76.7 [22.46] | 74.4 [21.80] | 72.3 [21.19] |
| | | Sens BTUH [kW] | 53.4 [15.65] | 49.9 [14.63] | 46.1 [13.50] | 64.1 [18.78] | 58.8 [17.24] | 53.9 [15.78] | 76.1 [22.30] | 69.5 [20.36] | 61.4 [17.98] |
| | | Power | 5.8 | 5.7 | 5.6 | 6.0 | 5.9 | 5.7 | 6.1 | 5.9 | 5.9 |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 90 [32.2] | Total BTUH [kW] | 85.8 [25.15] | 84.2 [24.66] | 81.6 [23.90] | 80.1 [23.47] | 79.7 [23.35] | 76.6 [22.43] | 75.0 [21.98] | 72.6 [21.26] | 70.3 [20.60] |
| | | Sens BTUH [kW] | 52.7 [15.44] | 49.2 [14.42] | 45.4 [13.30] | 63.2 [18.51] | 58.1 [17.01] | 52.7 [15.43] | 75.1 [21.99] | 68.3 [20.01] | 61.5 [18.02] |
| | | Power | 6.1 | 6.0 | 5.9 | 6.3 | 6.2 | 6.0 | 6.4 | 6.2 | 6.0 |
| | 95 [35] | Total BTUH [kW] | 84.5 [24.75] | 82.2 [24.10] | 79.8 [23.37] | 78.1 [22.89] | 78.0 [22.85] | 74.3 [21.77] | 74.8 [21.93] | 71.2 [20.85] | 68.7 [20.14] |
| | | Sens BTUH [kW] | 51.7 [15.15] | 48.5 [14.21] | 44.7 [13.10] | 62.3 [18.26] | 57.4 [16.82] | 52.5 [15.37] | 74.8 [21.93] | 68.0 [19.93] | 60.8 [17.80] |
| | | Power | 6.4 | 6.3 | 6.1 | 6.6 | 6.4 | 6.2 | 6.8 | 6.5 | 6.4 |
| | 100 [37.8] | Total BTUH [kW] | 82.4 [24.14] | 80.3 [23.52] | 77.9 [22.83] | 76.3 [22.36] | 75.6 [22.15] | 72.5 [21.23] | 72.5 [21.25] | 69.4 [20.35] | 67.5 [19.79] |
| | | Sens BTUH [kW] | 50.9 [14.92] | 47.8 [14.00] | 44.0 [12.89] | 61.8 [18.10] | 57.2 [16.77] | 51.7 [15.16] | 66.6 | 67.1 [19.67] | 59.1 [17.32] |
| | | Power | 6.7 | 6.6 | 6.5 | 6.9 | 6.7 | 6.6 | 7.1 | 6.9 | 6.8 |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 105 [40.6] | Total BTUH [kW] | 79.6 [23.33] | 78.2 [22.92] | 76.0 [22.27] | 74.4 [21.81] | 74.1 [21.71] | 70.6 [20.70] | 70.9 [20.77] | 67.7 [19.83] | 65.4 [19.16] |
| | | Sens BTUH [kW] | 50.5 [14.78] | 47.0 [13.78] | 43.3 [12.68] | 61.1 [17.89] | 55.7 [16.33] | 51.0 [14.94] | 70.9 [20.77] | 66.2 [19.41] | 59.2 [17.35] |
| | | Power | 7.0 | 6.9 | 6.8 | 7.3 | 7.2 | 6.9 | 7.5 | 7.3 | 7.1 |
| | 110 [43.3] | Total BTUH [kW] | 77.5 [22.70] | 76.2 [22.31] | 74.1 [21.70] | 72.0 [21.09] | 71.7 [21.01] | 68.8 [20.16] | 69.2 [20.28] | 65.7 [19.25] | 63.7 [18.67] |
| | | Sens BTUH [kW] | 49.7 [14.55] | 46.3 [13.55] | 42.5 [12.46] | 60.9 [17.85] | 55.9 [16.37] | 50.2 [14.71] | 7.3 | 64.8 [18.98] | 58.6 [17.17] |
| | | Power | 7.4 | 7.3 | 7.2 | 7.6 | 7.6 | 7.3 | 7.9 | 7.7 | 7.6 |
| | 115 [46.1] | Total BTUH [kW] | 75.3 [22.05] | 74.0 [21.69] | 72.1 [21.11] | 69.9 [20.48] | 69.7 [20.42] | 66.9 [19.60] | 67.5 [19.77] | 64.9 [19.01] | 62.2 [18.23] |
| | | Sens BTUH [kW] | 48.9 [14.32] | 45.5 [13.33] | 41.8 [12.24] | 60.2 [17.65] | 55.1 [16.14] | 51.1 [14.49] | 8.0 | 63.6 [18.62] | 56.5 [16.54] |
| | | Power | 7.8 | 7.7 | 7.6 | 8.2 | 8.0 | 7.7 | 8.4 | 8.3 | 8.0 |

CONDENSING UNIT **RAWE-091**

WITH COOLING COIL **RHGG-090**

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] | | | |
|--------------------------------------|------------|-----------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|--------------|--------------|
| CFM [L/s] | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | |
| DR ① | | .03 | .01 | .01 | .04 | .05 | .06 | .14 | .10 | .06 | |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] | 108.6 [31.83] | 106.4 [31.18] | 102.3 [29.97] | 101.6 [29.77] | 98.9 [28.99] | 95.7 [28.03] | 94.9 [27.81] | 92.3 [27.03] | 88.4 [25.91] |
| | | Sens BTUH [kW] | 64.9 [19.01] | 60.2 [17.65] | 54.8 [16.06] | 78.5 [23.00] | 71.6 [20.97] | 63.9 [18.72] | 91.8 [26.89] | 83.2 [24.39] | 73.8 [21.62] |
| | | Power | 6.3 | 6.2 | 6.1 | 6.4 | 6.3 | 6.2 | 6.5 | 6.4 | 6.2 |
| | 80 [26.7] | Total BTUH [kW] | 106.3 [31.15] | 104.2 [30.54] | 100.2 [29.37] | 99.5 [29.15] | 97.3 [28.50] | 93.7 [27.46] | 92.7 [27.17] | 90.3 [26.45] | 86.6 [25.38] |
| | | Sens BTUH [kW] | 64.0 [18.74] | 59.4 [17.39] | 54.0 [15.83] | 77.1 [22.58] | 70.3 [20.60] | 63.0 [18.46] | 90.3 [26.45] | 82.4 [24.13] | 72.9 [21.37] |
| | | Power | 6.5 | 6.5 | 6.3 | 6.7 | 6.6 | 6.4 | 6.8 | 6.7 | 6.5 |
| | 85 [29.4] | Total BTUH [kW] | 103.9 [30.43] | 101.9 [29.85] | 98.0 [28.72] | 96.8 [28.37] | 94.6 [27.72] | 91.2 [26.71] | 91.0 [26.66] | 88.1 [25.83] | 84.7 [24.80] |
| | | Sens BTUH [kW] | 63.0 [18.46] | 58.4 [17.12] | 53.2 [15.58] | 76.6 [22.43] | 69.9 [20.47] | 62.7 [18.36] | 88.8 [26.32] | 81.3 [23.82] | 72.0 [21.10] |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 90 [32.2] | Total BTUH [kW] | 101.5 [29.74] | 99.2 [29.06] | 95.4 [27.96] | 94.6 [27.72] | 92.5 [27.10] | 89.2 [26.13] | 89.0 [26.09] | 86.6 [25.37] | 83.2 [24.37] |
| | | Sens BTUH [kW] | 62.1 [18.20] | 57.8 [16.94] | 52.4 [15.34] | 75.7 [22.17] | 69.0 [20.22] | 61.8 [18.11] | 88.7 [25.98] | 79.6 [23.34] | 70.3 [20.60] |
| | | Power | 7.1 | 7.0 | 6.9 | 7.3 | 7.1 | 7.0 | 7.5 | 7.3 | 7.2 |
| | 95 [35] | Total BTUH [kW] | 99.1 [29.04] | 96.9 [28.38] | 93.8 [27.48] | 92.3 [27.05] | 90.8 [26.59] | 87.2 [25.54] | 87.5 [25.65] | 84.2 [24.66] | 80.9 [23.69] |
| | | Sens BTUH [kW] | 61.2 [17.93] | 57.0 [16.70] | 51.6 [15.11] | 74.7 [21.90] | 67.5 [19.77] | 61.0 [17.86] | 87.5 [25.65] | 79.4 [23.26] | 70.3 [20.59] |
| | | Power | 7.4 | 7.3 | 7.2 | 7.6 | 7.5 | 7.3 | 7.8 | 7.6 | 7.4 |
| | 100 [37.8] | Total BTUH [kW] | 96.3 [28.22] | 94.5 [27.69] | 91.6 [26.83] | 90.3 [26.45] | 88.1 [25.82] | 85.1 [24.92] | 85.4 [25.04] | 82.1 [24.05] | 78.9 [23.12] |
| | | Sens BTUH [kW] | 60.9 [17.84] | 56.2 [16.46] | 50.7 [14.86] | 73.1 [21.42] | 67.2 [19.69] | 60.1 [17.61] | 85.4 [25.04] | 78.4 [22.97] | 69.4 [20.33] |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 105 [40.6] | Total BTUH [kW] | 93.8 [27.48] | 92.1 [26.98] | 89.3 [26.16] | 87.4 [25.60] | 85.8 [25.14] | 82.7 [24.24] | 83.5 [24.46] | 79.9 [23.42] | 76.9 [22.52] |
| | | Sens BTUH [kW] | 60.0 [17.57] | 55.3 [16.20] | 49.9 [14.62] | 72.9 [21.35] | 66.3 [19.42] | 59.2 [17.34] | 83.5 [24.46] | 77.4 [22.67] | 68.4 [20.05] |
| | | Power | 8.1 | 8.0 | 7.9 | 8.4 | 8.2 | 8.1 | 8.6 | 8.4 | 8.2 |
| | 110 [43.3] | Total BTUH [kW] | 91.2 [26.73] | 89.6 [26.26] | 87.0 [25.49] | 85.2 [24.95] | 83.5 [24.47] | 80.7 [23.65] | 81.7 [23.95] | 77.6 [22.75] | 74.8 [21.92] |
| | | Sens BTUH [kW] | 59.0 [17.30] | 54.4 [15.95] | 49.3 [14.45] | 71.9 [21.06] | 65.3 [19.14] | 58.3 [17.08] | 81.7 [23.95] | 75.9 [22.25] | 67.5 [19.78] |
| | | Power | 8.7 | 8.4 | 8.3 | 8.8 | 8.6 | 8.5 | 9.0 | 8.9 | 8.6 |
| | 115 [46.1] | Total BTUH [kW] | 88.6 [25.96] | 87.1 [25.53] | 85.2 [24.98] | 82.7 [24.23] | 81.1 [23.78] | 78.1 [22.88] | 79.4 [23.28] | 75.7 [22.19] | 72.4 [21.21] |
| | | Sens BTUH [kW] | 58.1 [17.02] | 53.6 [15.70] | 48.1 [14.10] | 70.9 [20.77] | 64.4 [18.86] | 56.9 [16.68] | 79.4 [23.28] | 75.3 [22.07] | 66.3 [19.42] |
| | | Power | 9.0 | 8.9 | 8.8 | 9.3 | 9.1 | 9.0 | 9.6 | 9.4 | 9.2 |

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:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

COOLING PERFORMANCE DATA

CONDENSING
UNIT **RAWE-091**

WITH
COOLING
COIL **RHGG-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] | | |
| CFM [L/s] | | 3720 [1756] | 3100 [1463] | 2480 [1170] | 3720 [1756] | 3100 [1463] | 2480 [1170] | 3720 [1756] | 3100 [1463] | 2480 [1170] |
| DR ① | | .18 | .14 | .10 | .18 | .14 | .10 | .18 | .14 | .10 |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 113.5 [33.26] 69.3 [8.40] 6.5 | 110.2 [32.30] 62.8 [18.40] 6.3 | 106.9 [31.33] 56.3 [16.50] 6.2 | 104.4 [30.60] 80.8 [23.68] 6.4 | 101.1 [29.63] 74.3 [21.78] 6.3 | 97.8 [28.66] 67.8 [19.87] 6.3 | 102.1 [29.92] 90.8 [26.61] 6.3 | 98.8 [28.96] 84.3 [24.71] 6.1 |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 112.2 [32.88] 68.9 [20.19] 6.8 | 108.9 [31.92] 62.4 [18.29] 6.7 | 105.6 [30.95] 55.9 [16.38] 6.6 | 103.1 [30.22] 80.4 [23.56] 6.8 | 99.8 [29.25] 73.9 [21.66] 6.7 | 96.4 [28.25] 67.4 [19.75] 6.5 | 100.8 [29.54] 90.4 [26.49] 6.6 | 97.4 [28.55] 83.9 [24.59] 6.5 |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 110.0 [32.24] 68.1 [19.96] 7.2 | 106.7 [31.27] 61.6 [18.05] 7.0 | 103.4 [30.30] 55.1 [16.15] 6.9 | 100.9 [29.57] 79.6 [23.33] 7.2 | 97.6 [28.60] 73.1 [21.42] 7.0 | 94.3 [27.64] 66.6 [19.52] 6.9 | 98.6 [28.90] 89.6 [26.26] 7.0 | 95.2 [27.90] 83.1 [24.35] 6.8 |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 107.3 [31.45] 67.0 [19.64] 7.5 | 104.0 [30.48] 60.5 [17.73] 7.4 | 100.7 [29.51] 53.9 [15.80] 7.3 | 98.1 [28.75] 78.5 [23.01] 7.5 | 94.8 [27.78] 72.0 [21.10] 7.4 | 91.5 [26.82] 65.4 [19.17] 7.3 | 95.8 [28.08] 88.5 [25.94] 7.3 | 92.5 [27.11] 82.0 [24.03] 7.2 |
| | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 104.4 [30.60] 65.7 [19.25] 7.9 | 101.1 [29.63] 59.2 [17.35] 7.7 | 97.7 [28.63] 52.7 [15.44] 7.6 | 95.2 [27.90] 77.2 [22.63] 7.9 | 91.9 [26.93] 70.7 [20.72] 7.7 | 88.6 [25.97] 64.2 [18.82] 7.6 | 92.9 [27.23] 87.2 [25.56] 7.7 | 89.6 [26.26] 80.7 [23.65] 7.5 |
| | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 101.6 [29.78] 64.4 [18.87] 8.2 | 98.2 [28.78] 57.9 [16.97] 8.1 | 94.9 [27.81] 51.4 [15.06] 8.0 | 92.4 [27.08] 75.9 [22.24] 8.2 | 89.1 [26.11] 69.4 [20.34] 8.1 | 85.8 [25.15] 62.9 [18.43] 8.0 | 90.1 [26.41] 85.9 [25.17] 8.0 | 86.8 [25.44] 79.4 [23.27] 7.9 |
| | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 99.2 [29.07] 63.3 [18.55] 8.6 | 95.9 [28.11] 56.8 [16.65] 8.4 | 92.6 [27.14] 50.3 [14.74] 8.3 | 90.1 [26.41] 74.8 [21.92] 8.6 | 86.8 [25.44] 68.3 [20.02] 8.4 | 83.4 [24.44] 61.8 [18.11] 8.3 | 87.7 [25.70] 84.8 [24.85] 8.4 | 84.4 [24.74] 78.3 [22.95] 8.2 |
| | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 97.7 [28.63] 62.5 [18.32] 8.9 | 94.4 [27.67] 56.0 [16.41] 8.8 | 91.0 [26.67] 49.5 [14.51] 8.7 | 88.5 [25.94] 74.0 [21.69] 8.9 | 85.2 [24.97] 67.5 [19.78] 8.8 | 81.9 [24.00] 61.0 [17.88] 8.7 | 86.2 [25.26] 84.0 [24.62] 8.7 | 82.9 [24.30] 77.5 [22.71] 8.6 |
| | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 97.2 [28.49] 62.2 [18.23] 9.3 | 93.9 [27.52] 55.7 [16.32] 9.1 | 90.6 [26.55] 49.2 [14.42] 9.0 | 88.1 [25.82] 73.7 [21.60] 9.3 | 84.8 [24.85] 67.2 [19.69] 9.1 | 81.5 [23.89] 60.7 [17.79] 9.0 | 85.8 [25.15] 83.7 [24.53] 9.1 | 82.5 [24.18] 77.2 [22.63] 8.9 |
| | | | | | | | | | | 79.2 [23.21] 70.7 [20.72] 8.8 |

CONDENSING
UNIT **RAWE-091**

WITH
AIR
HANDLER **RCCU-D5013S**

| 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] | | |
| CFM [L/s] | | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] | 3120 [1472] | 2600 [1227] | 2080 [982] |
| DR ① | | .03 | .01 | .01 | .04 | .05 | .06 | .14 | .10 | .06 |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9] | Total BTUH [kW] Sens BTUH [kW] Power | 108.6 [31.83] 64.9 [19.01] 6.3 | 106.4 [31.18] 60.2 [17.65] 6.2 | 102.3 [29.97] 54.8 [16.06] 6.1 | 101.6 [29.77] 78.5 [23.00] 6.4 | 98.9 [28.99] 71.6 [20.97] 6.3 | 95.7 [28.03] 63.9 [18.72] 6.2 | 94.9 [27.81] 91.8 [26.89] 6.5 | 92.3 [27.03] 83.2 [24.39] 6.4 |
| | 80 [26.7] | Total BTUH [kW] Sens BTUH [kW] Power | 106.3 [31.15] 64.0 [18.74] 6.5 | 104.2 [30.54] 59.4 [17.39] 6.5 | 100.2 [29.37] 54.0 [15.83] 6.3 | 99.5 [29.15] 77.1 [22.58] 6.7 | 97.3 [28.50] 70.3 [20.60] 6.6 | 93.7 [27.46] 63.0 [18.46] 6.4 | 92.7 [27.17] 90.3 [26.46] 6.8 | 90.3 [26.45] 82.4 [24.13] 6.7 |
| | 85 [29.4] | Total BTUH [kW] Sens BTUH [kW] Power | 103.9 [30.43] 63.0 [18.46] 6.8 | 101.9 [29.85] 58.4 [17.12] 6.8 | 98.0 [28.72] 53.2 [15.58] 6.6 | 96.8 [28.37] 76.6 [22.43] 7.0 | 94.6 [27.72] 69.9 [20.47] 6.8 | 91.2 [26.71] 62.7 [18.36] 6.7 | 91.0 [26.66] 89.8 [26.32] 7.1 | 88.1 [25.83] 81.3 [23.82] 7.0 |
| | 90 [32.2] | Total BTUH [kW] Sens BTUH [kW] Power | 101.5 [29.74] 62.1 [18.20] 7.1 | 99.2 [29.06] 57.8 [16.94] 7.0 | 95.4 [27.96] 52.4 [15.34] 6.9 | 94.6 [27.72] 75.7 [22.17] 7.3 | 92.5 [27.10] 69.0 [20.22] 7.1 | 89.2 [26.13] 61.8 [18.11] 7.0 | 89.0 [26.09] 88.7 [25.98] 7.5 | 86.6 [25.37] 79.6 [23.34] 7.3 |
| | 95 [35] | Total BTUH [kW] Sens BTUH [kW] Power | 99.1 [29.04] 61.2 [17.93] 7.4 | 96.9 [28.38] 57.0 [16.70] 7.3 | 93.8 [27.48] 51.6 [15.11] 7.2 | 92.3 [27.05] 74.7 [21.90] 7.6 | 90.8 [26.59] 67.5 [19.77] 7.5 | 87.2 [25.54] 61.0 [17.86] 7.3 | 87.5 [25.65] 87.5 [25.65] 7.8 | 84.2 [24.66] 79.4 [23.26] 7.6 |
| | 100 [37.8] | Total BTUH [kW] Sens BTUH [kW] Power | 96.3 [28.22] 60.9 [17.84] 7.7 | 94.5 [27.69] 56.2 [16.46] 7.6 | 91.6 [26.83] 50.7 [14.86] 7.5 | 90.3 [26.45] 73.1 [21.42] 8.0 | 88.1 [25.82] 67.2 [19.69] 7.8 | 85.1 [24.92] 60.1 [17.61] 7.6 | 85.4 [25.04] 85.4 [25.04] 8.2 | 82.1 [24.05] 78.4 [22.97] 8.0 |
| | 105 [40.6] | Total BTUH [kW] Sens BTUH [kW] Power | 93.8 [27.48] 60.0 [17.57] 8.1 | 92.1 [26.98] 55.3 [16.20] 8.0 | 89.3 [26.16] 49.9 [14.62] 7.9 | 87.4 [25.60] 72.9 [21.35] 8.4 | 85.8 [25.14] 66.3 [19.42] 8.2 | 82.7 [24.24] 59.2 [17.34] 8.1 | 83.5 [24.46] 83.5 [24.46] 8.6 | 79.9 [23.42] 77.4 [22.67] 8.4 |
| | 110 [43.3] | Total BTUH [kW] Sens BTUH [kW] Power | 91.2 [26.73] 59.0 [17.30] 8.7 | 89.6 [26.26] 54.4 [15.95] 8.4 | 87.0 [25.49] 49.3 [14.45] 8.3 | 85.2 [24.95] 71.9 [21.06] 8.8 | 83.5 [24.47] 65.3 [19.14] 8.6 | 80.7 [23.65] 58.3 [17.08] 8.5 | 81.7 [23.95] 81.7 [23.95] 9.0 | 77.6 [22.75] 75.9 [22.25] 8.9 |
| | 115 [46.1] | Total BTUH [kW] Sens BTUH [kW] Power | 88.6 [25.96] 58.1 [17.02] 9.0 | 87.1 [25.53] 53.6 [15.70] 8.9 | 85.2 [24.98] 48.1 [14.10] 8.8 | 82.7 [24.23] 70.9 [20.77] 9.3 | 81.1 [23.78] 64.4 [18.86] 9.1 | 78.1 [22.88] 56.9 [16.68] 9.0 | 79.4 [23.28] 79.4 [23.28] 9.6 | 75.7 [22.19] 75.3 [22.07] 9.4 |
| | | | | | | | | | | 72.4 [21.21] 66.3 [19.42] 9.2 |

DR —Depression ratio

Total —Total capacity x 1000 BTUH

dbE—Entering air dry bulb

Sens —Sensible capacity x 1000 BTUH

wbE—Entering air wet bulb

Power—KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

② Total and sensible capacity is gross, with no deduction for indoor blower motor heat.

③ Power input is gross, which does not include indoor blower motor.

④ Refer to the "Systems Selection Performance Program and Data Diskette" to interpolate or extrapolate above data.

[] Designates Metric Conversions

TYPICAL REFRIGERANT PIPING RECOMMENDATIONS

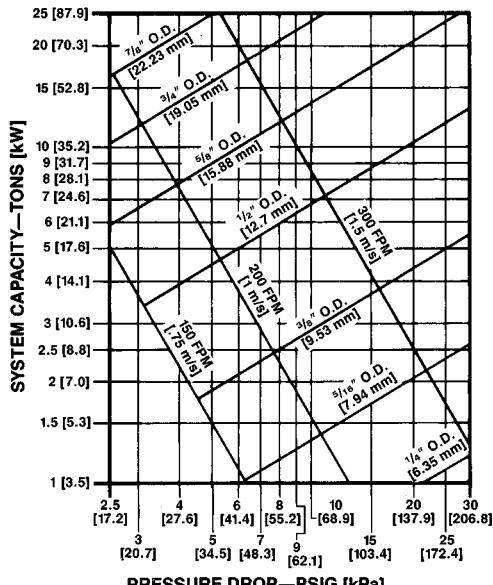
General Notes:

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

| EQUIVALENT LENGTH (FT.) [m] OF STRAIGHT TYPE "L" TUBING FOR NON-FERROUS VALVES AND FITTINGS (BRAZED) | | | | | | |
|------------------------------------------------------------------------------------------------------|-----------------|-------------|------------------|-----------------|---------------|-----------------|
| TUBE SIZE (IN.) [mm] | SOLE-NOID VALVE | ANGLE VALVE | SHORT RADIUS ELL | LONG RADIUS ELL | TEE LINE FLOW | TEE BRANCH FLOW |
| LIQUID LINE | | | | | | |
| 1/2 [12.7] | 70 [21.34] | 24 [7.32] | 4.7 [1.43] | 3.2 [0.98] | 1.7 [0.52] | 6.6 [2.01] |
| 5/8 [15.88] | 72 [21.95] | 25 [7.62] | 5.7 [1.74] | 3.9 [1.19] | 2.3 [0.70] | 8.2 [2.50] |
| 3/4 [19.05] | 75 [22.86] | 25 [7.62] | 6.5 [1.98] | 4.5 [1.37] | 2.9 [0.88] | 9.7 [3.00] |
| 7/8 [22.23] | 78 [23.77] | 28 [8.53] | 7.8 [2.38] | 5.3 [1.62] | 3.7 [1.13] | 12.0 [3.66] |
| SUCTION LINE | | | | | | |
| 1 1/8 [28.58] | 87 [26.52] | 29 [8.84] | 2.7 [0.82] | 1.9 [0.58] | 5.2 [1.59] | 8.0 [2.44] |
| 1 3/8 [34.93] | 102 [31.09] | 33 [10.06] | 3.2 [0.98] | 2.2 [0.67] | 6.9 [2.10] | 10.0 [3.05] |
| 1 5/8 [41.28] | 115 [35.05] | 34 [10.36] | 3.8 [1.16] | 2.6 [0.79] | 8.7 [2.65] | 12.0 [3.66] |
| 2 1/8 [53.98] | 141 [42.98] | 39 [11.89] | 5.2 [1.59] | 3.4 [1.04] | 12.0 [3.66] | 16.0 [4.88] |

LIQUID LINE PRESSURE DROP PER 100 FEET [30.48 m]

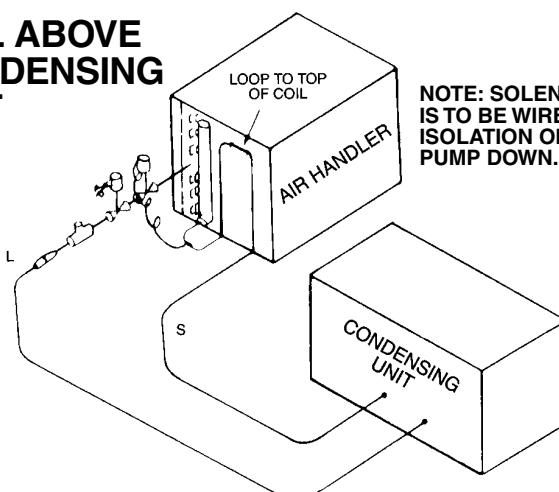
EQUIVALENT LENGTH (TYPE L COPPER TUBING)



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 30 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].

COIL ABOVE CONDENSING UNIT

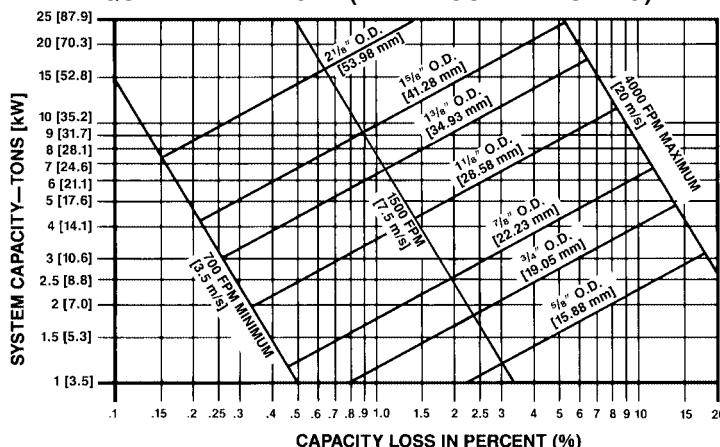


| RECOMMENDED VAPOR AND LIQUID LINE SIZES FOR VARIOUS LENGTHS OF RUN | | | | |
|--------------------------------------------------------------------|-----------------------------------|------------|----------------------------------|--------------|
| LINEAR LENGTH (FT.) [m] | LIQUID LINE O.D. SIZES (IN.) [mm] | | VAPOR LINE O.D. SIZES (IN.) [mm] | |
| | 078/079 | 091* | 078/079 | 091 |
| 0-15 [0-4.57] | 1/2 [12.7] | 1/2 [12.7] | 11/8 [28.58] | 11/8 [28.58] |
| 16-50 [4.88-15.24] | 1/2 [12.7] | 1/2 [12.7] | 11/8 [28.58] | 11/8 [28.58] |
| 51-100 [15.54-30.48] | 1/2 [12.7] | 1/2 [12.7] | 11/8 [28.58] | 13/8 [34.93] |
| 101-150 [30.78-45.72] | 1/2 [12.7] | 1/2 [12.7] | 13/8 [34.93] | 13/8 [34.93] |

NOTE: Runs between condenser and evaporator not to exceed 150' [45.7 m] linear length.

*See note ④ under liquid line pressure drop chart. Use 5/8" [15.88 mm] liquid line with solenoid valve.

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



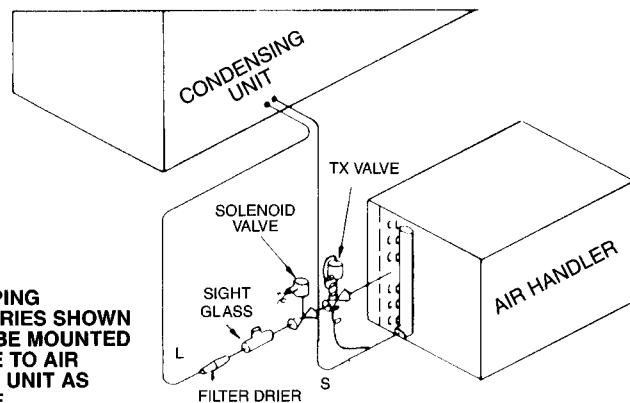
NOTES:

- The minimum velocity line (700 fpm) [3.6 m/s] is recommended.
- 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 3 PSIG [20.7 kPa] pressure drop.
- Pitch all horizontal vapor lines downward in the direction of flow (1/2" [12.7 mm] to 10' [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.

COIL BELOW CONDENSING UNIT



TYPICAL REFRIGERANT PIPING RECOMMENDATIONS (cont.)

REQUIRED OZS. R22 CHARGE PER FT. [m] OF TUBING

| TUBE SIZE O.D. (IN.) [mm] | LIQUID TUBE | SUCTION TUBE |
|------------------------------|----------------|-----------------|
| 1/2 [12.7] | 1.20 | — |
| 5/8 [15.9] | 1.86 | — |
| 7/8 [22.2] | 2.67 | .06 |
| 11/8 [28.6] | — | .15 |
| 13/8 [34.9] | — | .22 |
| 15/8 [41.3] | — | .29 |
| 21/8 [54.0] | — | .43 |

BASIC SYSTEM CHARGE*

| UNIT MODEL | BASIC SYSTEM CHARGE, OZ, [g]* |
|---------------|----------------------------------|
| RAWD-078 | 200 [5670] |
| RAWD-091 | 146 [4139] |
| RAWE-079 | 262 [7428] |
| RAWE-091 | 262 [7428] |

*System with 0 feet [m] of tubing.

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. See page 8.

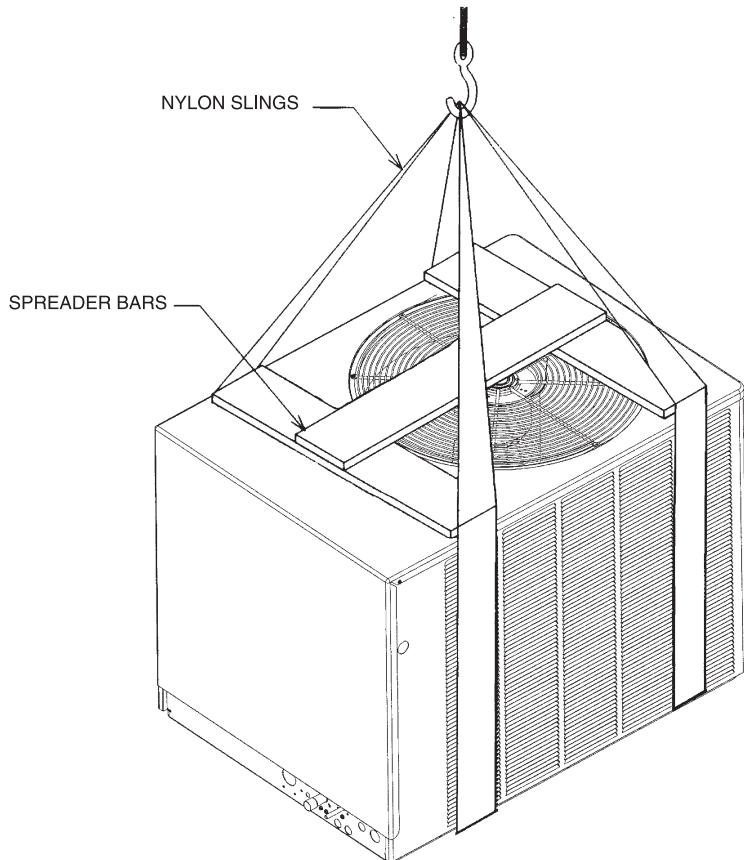
The unit must not be connected to any duct work. Do not locate unit under a roof drip; if necessary, install gutters, etc., to prevent water run-off from hitting the unit. To prevent air recirculation, it is recommended that the unit not be installed under an overhang, but if necessary **allow a minimum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

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.

RIGGING

RAWD 066 & 076 MODELS RAWE 078 & 090 MODELS

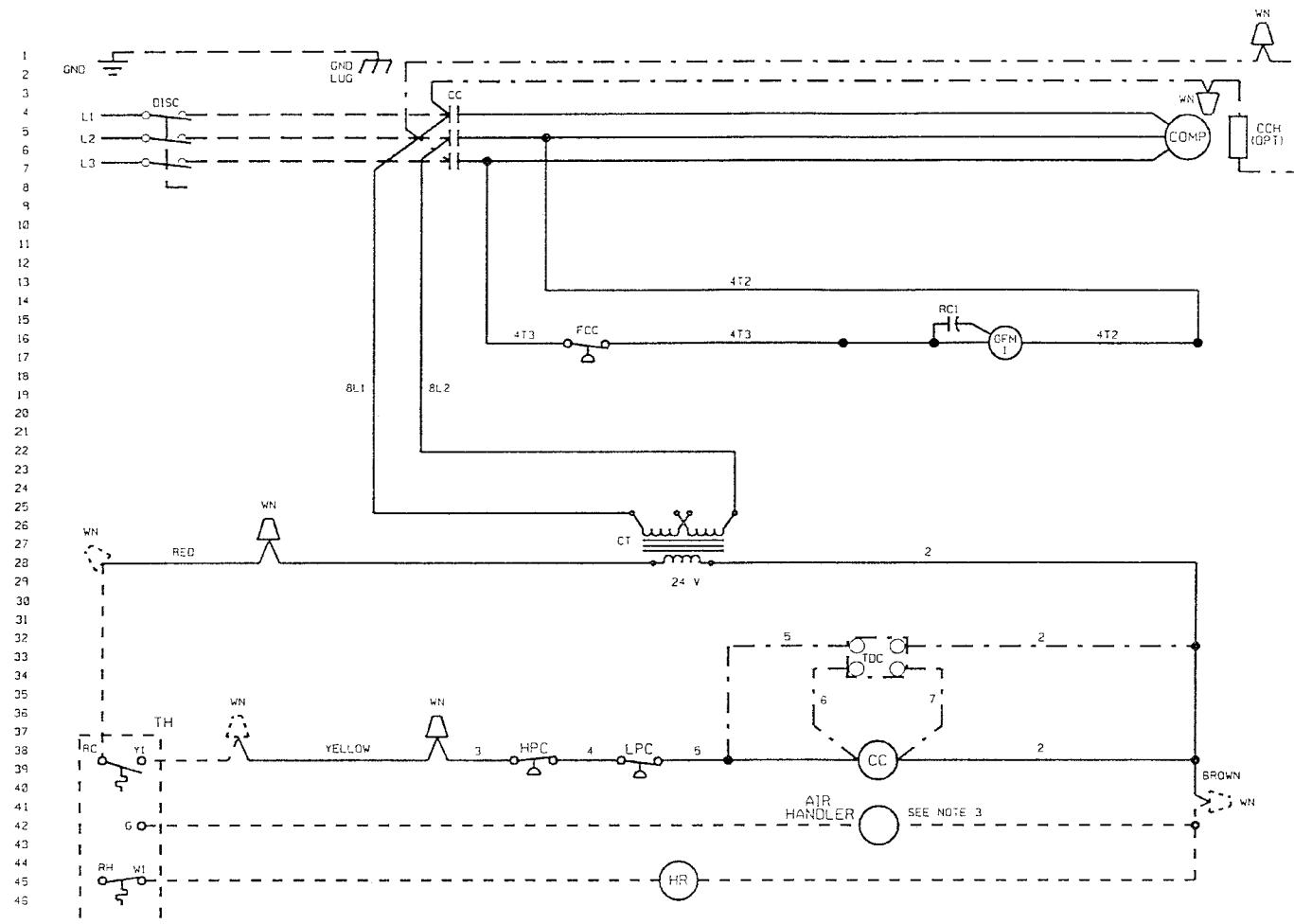


SLAB INSTALLATION

Condensing units should be set on a solid level foundation. When installed at ground level, the unit should be placed on a 6 inch [152.4 mm] 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.

[] Designates Metric Conversions

TYPICAL WIRING SCHEMATIC



| COMPONENT CODE | COMPONENT NAME |
|----------------|-----------------------|
| CC | COMPRESSOR CONTACTOR |
| COMP | COMPRESSOR |
| CT | CONTROL TRANSFORMER |
| FCC | FAN CYCLE CONTROL |
| HPC | HIGH PRESSURE CONTROL |
| HR | HEATER RELAY |
| LPC | LOW PRESSURE CONTROL |
| OFM | OUTDOOR FAN MOTOR |
| RC | RUN CAPACITOR |
| TDC | TIME DELAY CONTROL |
| TH | THERMOSTAT (H/C) |
| WN | WIRE NUT |

NOTES:

1. REPLACEMENT WIRE & FUSES
MUST BE SAME TYPE & SIZE AS ORIGINAL.
2. UNIT MUST BE PERMANENTLY GROUNDED & CONFORM TO N.E.C. & LOCAL CODES.
3. MAXIMUM IN RUSH VA NOT TO EXCEED 92 VA.
4. MINIMUM WIRE SIZE BASED ON 75 DEGREES C INSULATION COPPER WIRE.

WIRING INFORMATION

1. LINE VOLTAGE
FACTORY STANDARD
FACTORY OPTION
FIELD INSTALLED
 2. LOW VOLTAGE
FACTORY STANDARD
FACTORY OPTION
FIELD INSTALLED
 3. REPLACEMENT WIRE
MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)
- WARNING**
CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C., (C.E.C.-CANADA) AND LOCAL CODES.

| WIRE COLOR CODE | |
|-----------------|--------|
| BK — BLACK | PURPLE |
| BR — BROWN | RED |
| BU — BLUE | WHITE |
| GR — GREEN | YELLOW |
| OR — ORANGE | |

WIRING SCHEMATIC
6.5 & 7.5 TON—
[22.86 & 26.38 kW]
CONDENSING UNIT

90-42456-02-07

SEQUENCE OF OPERATION

- When the room temperature is higher than the thermostat setting, the thermostat contacts close and energize the compressor contactor (CC) through the high pressure & low pressure control contacts. If the unit has "short cycled" and the optional time delay (TDC) has been supplied, the contactor coil (CC) will remain de-energized for up to five (5) minutes.
- The system will continue cooling operation, as long as the contacts of all safety devices are closed and until the thermostat is satisfied.
- When the thermostat is satisfied compressor or contactor (CC) is de-energized.

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 below, in accordance with the terms of the limited warranty.

Air Conditioner Motor CompressorFive (5) Years
Any Other PartOne (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.

GUIDE SPECIFICATIONS

Furnish and install as shown on the drawing Ruud Model _____ air cooled condensing unit suitable for outdoor application.

COMPRESSOR—Unit shall have (1) compressor. It is to be of the welded hermetic type with durable insulation on the motor windings. 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 _____ on 6.5 nominal ton [22.86 kW] units and _____ on 7.5 nominal ton [26.38 kW] units _____ 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°F [°C] ambient.

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

MOTORS & FANS—Each unit shall have one (6.5 & 7.5 ton) [22.86 & 26.38 kW] sleeve bearing, permanently lubricated motor(s) fixed with direct-drive, multi-bladed fan(s). Motor(s) shall be equipped with inherent overload protection. Motor(s) & fan(s) shall be mounted on hinged 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 an air pressure test of up to 300 PSIG after fabrication and dehydrated. Units shall be shipped with a dry nitrogen holding charge. Coil design shall permit removal of service panels without affecting operation of the

unit. 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, pre-treated 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 face. 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, a liquid line service valve. 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 low ambient fan cycling control, and compressor across-the-line 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. They shall experience the following control testing procedures: high pressure control, switching of electrical components, and compressor operation.

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
AIR CONDITIONING
DIVISION

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

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