

Rheem Commercial Split Classic® Series Air Conditioner



RACY Series

Cooling Efficiencies up to: 11.2 EER/14.8 IEER Nominal Sizes: 6.5, 7.5, 10,12.5,15 & 20 Tons [22.9, 26.4, 35.2, 44.0, 52.7 & 70.3 kW]

Cooling Capacities: 72.2k Btu/h to 240.0k Btu/h

Refrigerant Type: R-454B

Designed for use with matching RHCYA models







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RACY STANDARD FEATURES INCLUDE:

- · Factory charged with nitrogen for shipping
- Ready to be charged with R-454B Low GWP refrigerant in the field after installation
- Wired and run tested
- Scroll compressors with internal line break overload and high pressure protection
- High and Low Pressure switches provide additional system protection
- Forkable base rails on 10 (two fan), 12.5, 15, and 20 Ton for easy handling and lifting

- Cooling operation up to 125°F ambient
- Tube and Fin condenser and evaporator coils
- Single-piece control door
- 6.5, 7.5 and 10 Ton includes a single 2-Stage scroll compressor
- 12.5, 15, and 20 Ton includes a tandem scroll compressor configuration

ACCESSORIES

| ACCESSORY DESCRIPTION | MODEL NUMBER | SIZE USED ON |
|-----------------------|--------------|-----------------------------------|
| Low Ambient Control | RXAD-A08 | 078, 090, 119, 120, 150, 180, 240 |

WHY USE AN AIR COOLED CONDENSING UNIT?

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



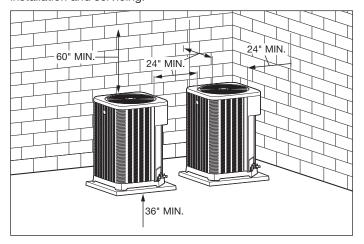
Designing for Sustainability with Low GWP: For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78% lower GWP than previous-generation refrigerants — with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort.

¹When comparing the GWP of R-454B to R-410A refrigerant.

GENERAL INSTALLATION

The Remote AC Condensing unit must be installed outdoors. It should be located as near as possible to the indoor section to keep connecting refrigerant tubing lengths to a minimum. The unit must be installed to allow a free air flow to the outdoor coils.

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



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

[] Designates Metric Conversions

SLAB INSTALLATION

Remote 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.

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.

 $\frac{R}{1}$ $\frac{A}{2}$ $\frac{C}{3}$ $\frac{Y}{4}$ $\frac{2}{5}$ $\frac{078}{678}$ $\frac{C}{9}$ $\frac{A}{10}$ $\frac{Z}{11}$

1-Brand

R = Rheem

2-Unit Type

A = Remote Condensing Unit

3—Cabinet Type

C = Commercial

4-Refrigerant

Y = R-454B

5—Cooling Configuration

2 = 2 Stage Cooling

6,7,8—Capacity

078 = 6.5 Ton

090 = 7.5 Ton

119 = 10 Ton (1 fan)

120 = 10 Ton (2 fan)

150 = 12.5 Ton

180 = 15 Ton

240 = 20 Ton

9-Electrical Designation

C = 208/230 V, 3 PH, 60 Hz

D = 460 V, 3 PH, 60 Hz

Y = 575 V, 3PH, 60Hz

10-Minor Series

A = 1st Design

11-Compressor

Z = Scroll Compressor

SELECTION PROCEDURE

To select an RACY Remote AC Condensing unit to meet a job requirement, follow this procedure:

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example: Total cooling capacity -84,000 Btu/h [24.61 kW] Sensible cooling capacity— 68,000 Btu/h [19.92 kW] Heating capacity— 120,000 Btu/h [35.16 kW] *Condenser Entering Air-95°F [35°C] DB *Evaporator Mixed Air Entering 78°F [26°C] DB; 65°F [18°C] WB *Indoor Air Flow (vertical) 3000 CFM [1416 L/s] *External Static Pressure .5 in. WG Available Power 240 V, 3 PH

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 7.5 ton [26.4 kW] unit, enter cooling performance table at 95°F [35°C] DB condenser inlet air. Interpolate between 63°F [2°C] and 67°F [19°C] to determine total and sensible capacity and power input for 65°F [18°C] WB evap inlet air at 3200 CFM [1510 L/s] indoor air flow (table basis):

Total Capacity = 85,150 Btu/h [25.0 kW] Sensible Capacity = 73,850 Btu/h [23.0 kW] Power Input (Compressor and Cond. Fans) = 6,750 Watts

Use formula in note ① on the cooling performance table to determine sensible capacity at 78°F [26°C] DB evaporator entering air:

Sensible Capacity = 67,250 Btu/h [19.7 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 3000 CFM [1416 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity = $85,150 \times .99 = 84,299 \text{ Btu/h} [24.7 \text{ kW}]$ Sensible Capacity = $73,850 \times .97 = 71,634 \text{ Btu/h} [21.0 \text{ kW}]$ Power Input = $6,750 \times 1.00 = 6,750 \text{ Watts}$

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

In the "Commercial Air Handler Specification Sheet" follow the bold line example on the "Blower Performance Curve – 10 ton (wet coil)". Enter the graph at 3000 CFM [1416 L/s]. Determine which "number of turns" line is closest to the intersection of 0.5 IN [.12 kPa] static and 3000 CFM [1416 L/s]. In this case 4 turns is the closest. Continue following the 3000 CFM line to the next intersection of 4 turns. From this intersection draw a line to the right to determine the watts.

WATTS = 950

5. CALCULATE INDOOR BLOWER Btu/h HEAT EFFECT FROM MOTOR WATTS, STEP 4.

 $HEAT = 950 \times 3.412 = 3,240 \text{ Btu/h}$

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

Net Total Capacity = 84,299 - 3,240 = 81,059 Btu/h [23.76 kW] Net Sensible Capacity = 71,634 - 3,240 = 68,394 Btu/h [20.00 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 6,750 (step 3) + 950 (step 4) = 7,700 Watts $EER = \frac{\text{Net Total Btu/h [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{81,059}{7,700} = 10.5$

8. SELECT UNIT HEATING CAPACITY.

In the "Commercial Air Handler Specification Sheet" turn to the "electrical heater kit characteristics table," find a heater kit that is compatible and has minimum of 120,000 Btu/h. The RXHE-DE020CA [20 kW] has a capacity of 114,000 Btu/h at 208/230 V.

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit mounted and centered on the zone it conditions by ducts.

GENERAL DATA

| Model RACY2 Series | 078CAZ | 078DAZ | 078YAZ | |
|--|-----------------------|-----------------------|-----------------------|--|
| Cooling Performance ^A | | | CONTINUED — | |
| Gross Cooling Capacity Btu/h [kW] | 78,000 [22.9] | 78,000 [22.9] | 78,000 [22.9] | |
| EER | 11.2 | 11.2 | 11.2 | |
| IEER B | 14.8 | 14.8 | 14.8 | |
| Nominal CFM/AHRI Rated CFM [L/s] | 2600/2580 [1227/1218] | 2600/2580 [1227/1218] | 2600/2580 [1227/1218] | |
| AHRI Net Cooling Capacity Btu/h [kW] | 72,200 [21.2] | 72,200 [21.2] | 72,200 [21.2] | |
| Net Sensible Capacity Btu/h [kW] | 53,500 [15.7] | 53,500 [15.7] | 53,500 [15.7] | |
| Net Latent Capacity Btu/h [kW] | 18,700 [5.5] | 18,700 [5.5] | 18,700 [5.5] | |
| Compressor | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | |
| Outdoor Sound Rating (dB) ^C | 86 | 86 | 86 | |
| Outdoor Coil - Fin Type | Louvered | Louvered | Louvered | |
| Tube Type | Rifled | Rifled | Rifled | |
| Tube Diameter | 0.375 | 0.375 | 0.375 | |
| Outer Face Area sq. ft. [sq. m] | 31.8 [3.0] | 31.8 [3.0] | 31.8 [3.0] | |
| Inner Face Area sq. ft. [sq. m] | 29.6 [2.7] | 29.6 [2.7] | 29.6 [2.7] | |
| Rows/FPI [FPcm] | 2 / 22 [9] | 2 / 22 [9] | 2 / 22 [9] | |
| Outdoor Fan - Type | Propeller | Propeller | Propeller | |
| No. Blades/Diameter in. [mm] | 4/26 [660] | 4/26 [660] | 4/26 [660] | |
| Drive Type/No. Speeds | ECM/1 | ECM/1 | PSC/1 | |
| CFM [L/s] | 5,700 [2,690] | 5,700 [2,690] | 5,700 [2,690] | |
| No. Motors/HP | 1 at 1/2HP | 1 at 3/4HP | 1 at 1/2HP | |
| Motor RPM | 1100 | 1100 | 1100 | |
| Refrigerant Charge Oz. [g] | 338 [9,582] | 338 [9,582] | 338 [9,582] | |
| Weights | | | | |
| Net Weight lbs. [kg] | 383 [174] | 383 [174] | 383 [174] | |
| Ship Weight lbs. [kg] | 403 [183] | 403 [183] | 403 [183] | |

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

| Model RACY2 Series | 090CAZ | 090DAZ | 090YAZ |
|--|-----------------------|-----------------------|-----------------------|
| Cooling Performance ^A | | | CONTINUED — |
| Gross Cooling Capacity Btu/h [kW] | 90,000 [26.4] | 90,000 [26.4] | 90,000 [26.4] |
| EER | 11.2 | 11.2 | 11.2 |
| IEER ^B | 14.8 | 14.8 | 14.8 |
| Nominal CFM/AHRI Rated CFM [L/s] | 2600/2580 [1227/1218] | 2600/2580 [1227/1218] | 2600/2580 [1227/1218] |
| AHRI Net Cooling Capacity Btu/h [kW] | 85,500 [25.1] | 85,500 [25.1] | 85,500 [25.1] |
| Net Sensible Capacity Btu/h [kW] | 61,500 [18.0] | 61,500 [18.0] | 61,500 [18.0] |
| Net Latent Capacity Btu/h [kW] | 24,000 [7.0] | 24,000 [7.0] | 24,000 [7.0] |
| Compressor | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB) ^c | 86 | 86 | 86 |
| Outdoor Coil - Fin Type | Louvered | Louvered | Louvered |
| Tube Type | Rifled | Rifled | Rifled |
| Tube Diameter | 0.375 | 0.375 | 0.375 |
| Outer Face Area sq. ft. [sq. m] | 31.8 [3.0] | 31.8 [3.0] | 31.8 [3.0] |
| Inner Face Area sq. ft. [sq. m] | 29.6 [2.7] | 29.6 [2.7] | 29.6 [2.7] |
| Rows/FPI [FPcm] | 2 / 22 [9] | 2 / 22 [9] | 2 / 22 [9] |
| Outdoor Fan - Type | Propeller | Propeller | Propeller |
| No. Blades/Diameter in. [mm] | 4/26 | 4/26 | 4/26 |
| Drive Type/No. Speeds | ECM/1 | ECM/1 | PSC/1 |
| CFM [L/s] | 5,700 [2,690] | 5,700 [2,690] | 5,700 [2,690] |
| No. Motors/HP | 1 at 1/2HP | 1 at 3/4HP | 1 at 1/2HP |
| Motor RPM | 1100 | 1100 | 1100 |
| Refrigerant Charge Oz. [g] | 338 [9,582] | 338 [9,582] | 338 [9,582] |
| Weights | | | |
| Net Weight lbs. [kg] | 383 [174] | 383 [174] | 383 [174] |
| Ship Weight lbs. [kg] | 403 [183] | 403 [183] | 403 [183] |

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

| Model RACY2 Series | 119CAZ | 119DAZ | 120CAZ | 120DAZ | 120YAZ |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Cooling Performance ^A | | | | | CONTINUED |
| Gross Cooling Capacity Btu/h [kW] | 120,000 [35.2] | 120,000 [35.2] | 120,000 [35.2] | 120,000 [35.2] | 120,000 [35.2] |
| EER | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| IEER B | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| Nominal CFM/AHRI Rated CFM [L/s] | 4000/3900 [1888/1841] | 4000/3900 [1888/1841] | 4000/3900 [1888/1841] | 4000/3900 [1888/1841] | 4000/3900 [1888/1841] |
| AHRI Net Cooling Capacity Btu/h [kW] | 112,000 [32.8] | 112,000 [32.8] | 114,000 [33.4] | 114,000 [33.4] | 114,000 [33.4] |
| Net Sensible Capacity Btu/h [kW] | 86,000 [25.2] | 86,000 [25.2] | 86,000 [25.2] | 86,000 [25.2] | 86,000 [25.2] |
| Net Latent Capacity Btu/h [kW] | 26,000 [7.6] | 26,000 [7.6] | 28,000 [8.2] | 28,000 [8.2] | 28,000 [8.2] |
| Compressor | | | | | |
| No./Type | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll | 1/Scroll |
| Outdoor Sound Rating (dB) ^C | 86 | 86 | 88 | 88 | 88 |
| Outdoor Coil - Fin Type | Louvered | Louvered | Louvered | Louvered | Louvered |
| Tube Type | Rifled | Rifled | Rifled | Rifled | Rifled |
| Tube Diameter | 0.375 | 0.375 | 0.375 | 0.375 | 0.375 |
| Outer Face Area sq. ft. [sq. m] | 31.8 [3.0] | 31.8 [3.0] | 16.4 [1.5] | 16.4 [1.5] | 16.4 [1.5] |
| Inner Face Area sq. ft. [sq. m] | 29.6 [2.7] | 29.6 [2.7] | 16.4 [1.5] | 16.4 [1.5] | 16.4 [1.5] |
| Rows/FPI [FPcm] | 2 / 22 [9] | 2 / 22 [9] | 2 / 22 [9] | 2 / 22 [9] | 2 / 22 [9] |
| Outdoor Fan - Type | Propeller | Propeller | Propeller | Propeller | Propeller |
| No. Blades/Diameter in. [mm] | 4/26 [660] | 4/26 [660] | 4/26 [660] | 4/26 [660] | 4/26 [660] |
| Drive Type/No. Speeds | ECM/1 | ECM/1 | ECM/2 | ECM/2 | PSC/2 |
| CFM [L/s] | 5,700 [2,690] | 5,700 [2,690] | 11,400 [5380] | 11,400 [5380] | 11,400 [5380] |
| No. Motors/HP | 1 at 1/2HP | 1 at 3/4HP | 2 at 1/2HP | 2 at 3/4HP | 2 at 1/2HP |
| Motor RPM | 1100 | 1100 | 1100 | 1100 | 1100 |
| Refrigerant Charge Oz. [g] | 338 [9,582] | 338 [9,582] | 460 [13,041] | 460 [13,041] | 460 [13,041] |
| Weights | | | | | |
| Net Weight lbs. [kg] | 411 [186] | 411 [186] | 565 [256] | 565 [256] | 565 [256] |
| Ship Weight lbs. [kg] | 431 [195] | 431 [195] | 585 [265] | 585 [265] | 585 [265] |

NOTES

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

| Model RACY2 Series | 150CAZ | 150DAZ | 150YAZ | |
|--|-----------------------|-----------------------|-----------------------|--|
| Cooling Performance ^A | | | CONTINUED — | |
| Gross Cooling Capacity Btu/h [kW] | 150,000 [44.0] | 150,000 [44.0] | 150,000 [44.0] | |
| EER | 11.0 | 11.0 | 11.0 | |
| IEER B | 14.2 | 14.2 | 14.2 | |
| Nominal CFM/AHRI Rated CFM [L/s] | 4500/4350 [2124/2053] | 4500/4350 [2124/2053] | 4500/4350 [2124/2053] | |
| AHRI Net Cooling Capacity Btu/h [kW] | 142,500 [42.0] | 142,500 [42.0] | 142,500 [42.0] | |
| Net Sensible Capacity Btu/h [kW] | 106,000 [31.1] | 106,000 [31.1] | 106,000 [31.1] | |
| Net Latent Capacity Btu/h [kW] | 36,500 [10.7] | 36,500 [10.7] | 36,500 [10.7] | |
| Compressor | | | | |
| No./Type | 2/Scroll | 2/Scroll | 2/Scroll | |
| Outdoor Sound Rating (dB) ^c | 88 | 88 | 88 | |
| Outdoor Coil - Fin Type | Louvered | Louvered | Louvered | |
| Tube Type | Rifled | Rifled | Rifled | |
| Tube Diameter | 0.375 | 0.375 | 0.375 | |
| Outer Face Area sq. ft. [sq. m] | 16.4 [1.5] | 16.4 [1.5] | 16.4 [1.5] | |
| Inner Face Area sq. ft. [sq. m] | 16.4 [1.5] | 16.4 [1.5] | 16.4 [1.5] | |
| Rows/FPI [FPcm] | 2 / 22 [56] | 2 / 22 [56] | 2 / 22 [56] | |
| Outdoor Fan - Type | Propeller | Propeller | Propeller | |
| No. Blades/Diameter in. [mm] | 4/26 [660] | 4/26 [660] | 4/26 [660] | |
| Drive Type/No. Speeds | ECM/1 | ECM/1 | PSC/1 | |
| CFM [L/s] | 11,400 [5380] | 11,400 [5380] | 11,400 [5380] | |
| No. Motors/HP | 2 at 1/2HP | 2 at 3/4HP | 2 at 1/2HP | |
| Motor RPM | 1100 | 1100 | 1100 | |
| Refrigerant Charge Oz. [g] | 372 [10,546] | 372 [10,546] | 372 [10,546] | |
| Weights | | | | |
| Net Weight lbs. [kg] | 647 [293] | 647 [293] | 647 [293] | |
| Ship Weight lbs. [kg] | 667 [303] | 667 [303] | 667 [303] | |

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

| Model RACY2 Series | 180CAZ | 180DAZ | 180YAZ |
|--|----------------|----------------|----------------|
| Cooling Performance ^A | | | CONTINUED - |
| Gross Cooling Capacity Btu/h [kW] | 180,000 [52.8] | 180,000 [52.8] | 180,000 [52.8] |
| EER | 11.0 | 11.0 | 11.0 |
| IEER B | 14.2 | 14.2 | 14.2 |
| Nominal CFM/AHRI Rated CFM [L/s] | 5400/5200 | 5400/5200 | 5400/5200 |
| AHRI Net Cooling Capacity Btu/h [kW] | 171,000 [50.1] | 171,000 [50.1] | 171,000 [50.1] |
| Net Sensible Capacity Btu/h [kW] | 125,000 [36.6] | 125,000 [36.6] | 125,000 [36.6] |
| Net Latent Capacity Btu/h [kW] | 46,000 [13.5] | 46,000 [13.5] | 46,000 [13.5] |
| Compressor | | | |
| No./Type | 2/Scroll | 2/Scroll | 2/Scroll |
| Outdoor Sound Rating (dB) ^C | 90 | 90 | 90 |
| Outdoor Coil - Fin Type | Louvered | Louvered | Louvered |
| Tube Type | Rifled | Rifled | Rifled |
| Tube Diameter | 0.375 | 0.375 | 0.375 |
| Outer Face Area sq. ft. [sq. m] | 30.3 [2.8] | 30.3 [2.8] | 30.3 [2.8] |
| Inner Face Area sq. ft. [sq. m] | 30.3 [2.8] | 30.3 [2.8] | 30.3 [2.8] |
| Rows/FPI [FPcm] | 3 / 18 [46] | 3 / 18 [46] | 3 / 18 [46] |
| Outdoor Fan - Type | Propeller | Propeller | Propeller |
| No. Blades/Diameter in. [mm] | 4/24 | 4/24 | 4/24 |
| Drive Type/No. Speeds | ECM/1 | ECM/1 | PSC/1 |
| CFM [L/s] | 12,000 [5663] | 12,000 [5663] | 12,000 [5663] |
| No. Motors/HP | 3 at 1/2HP | 3 at 3/4HP | 3 at 1/2HP |
| Motor RPM | 1,100 | 1,100 | 1,100 |
| Refrigerant Charge Oz. [g] | 656.5 [18,611] | 656.5 [18,611] | 656.5 [18,611] |
| Weights | | | |
| Net Weight lbs. [kg] | 832 [337] | 832 [337] | 832 [337] |
| Ship Weight lbs. [kg] | 852 [386] | 852 [386] | 852 [386] |

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

| Model RACY2 Series | 240CAZ | 240DAZ | 240YAZ |
|--|-----------------------|-----------------------|-----------------------|
| Cooling Performance ^A | | | |
| Gross Cooling Capacity Btu/h [kW] | 240,000 [70.3] | 240,000 [70.3] | 240,000 [70.3] |
| EER | 10.0 | 10.0 | 10.0 |
| IEER ^B | 13.2 | 13.2 | 13.2 |
| Nominal CFM/AHRI Rated CFM [L/s] | 6800/6650 [3209/3138] | 6800/6650 [3209/3138] | 6800/6650 [3209/3138] |
| AHRI Net Cooling Capacity Btu/h [kW] | 240,000 [70.3] | 240,000 [70.3] | 240,000 [70.3] |
| Net Sensible Capacity Btu/h [kW] | 165,000 [48.4] | 165,000 [48.4] | 165,000 [48.4] |
| Net Latent Capacity Btu/h [kW] | 75,000 [22.0] | 75,000 [22.0] | 75,000 [22.0] |
| Compressor | | | |
| No./Type | 2/Scroll | 2/Scroll | 2/Scroll |
| Outdoor Sound Rating (dB) ^C | 90 | 90 | 90 |
| Outdoor Coil - Fin Type | Louvered | Louvered | Louvered |
| Tube Type | Rifled | Rifled | Rifled |
| Tube Diameter | 0.375 | 0.375 | 0.375 |
| Outer Face Area sq. ft. [sq. m] | 30.3 [2.8] | 30.3 [2.8] | 30.3 [2.8] |
| Inner Face Area sq. ft. [sq. m] | 30.3 [2.8] | 30.3 [2.8] | 30.3 [2.8] |
| Rows/FPI [FPcm] | 3 / 18 [46] | 3 / 18 [46] | 3 / 18 [46] |
| Outdoor Fan - Type | Propeller | Propeller | Propeller |
| No. Blades/Diameter in. [mm] | 4/24 [609] | 4/24 [609] | 4/24 [609] |
| Drive Type/No. Speeds | ECM/1 | ECM/1 | PSC/1 |
| CFM [L/s] | 12,000 [5663] | 12,000 [5663] | 12,000 [5663] |
| No. Motors/HP | 3 at 1/2HP | 3 at 3/4HP | 3 at 1/2HP |
| Motor RPM | 1100 | 1100 | 1100 |
| Refrigerant Charge Oz. [g] | 587.5 [16,655] | 587.5 [16,655] | 587.5 [16,655] |
| Weights | | | |
| Net Weight lbs. [kg] | 926 [420] | 926 [420] | 926 [420] |
| Ship Weight lbs. [kg] | 946 [429] | 946 [429] | 946 [429] |

NOTES:

A. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.

B. EER and Integrated Efficiency Ratio (IEER) is rated at AHRI conditions in accordance with AHRI Standard 340/360.

C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

UNIT DIMENSIONS

| | | OPERATING | | | | | SHIPPING | | | | | |
|--------------|------------|-----------|------------|------|-----------|------|------------|------|------------|------|-----------|------|
| MODEL No. | H (Height) | | L (Length) | | W (Width) | | H (Height) | | L (Length) | | W (Width) | |
| | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm |
| RACY2078 | 51.00 | 1295 | 35.75 | 908 | 35.75 | 908 | 52 | 1321 | 37.56 | 954 | 37.56 | 954 |
| RACY2090 | 51.00 | 1295 | 35.75 | 908 | 35.75 | 908 | 52 | 1321 | 37.56 | 954 | 37.56 | 954 |
| RACY2119 | 51.00 | 1295 | 35.75 | 908 | 35.75 | 908 | 52 | 1321 | 37.56 | 954 | 37.56 | 954 |
| RACY2120 | 43.99 | 1117 | 74.27 | 1886 | 40.00 | 1016 | 45 | 1143 | 75.50 | 1918 | 41.00 | 1041 |
| RACY2150 | 43.99 | 1117 | 74.27 | 1886 | 40.00 | 1016 | 45 | 1143 | 75.50 | 1918 | 41.00 | 1041 |
| RACY2180 | 43.99 | 1117 | 89.89 | 2283 | 40.00 | 1016 | 45 | 1143 | 91.00 | 2311 | 41.00 | 1041 |
| RACY2240 | 43.99 | 1117 | 89.89 | 2283 | 40.00 | 1016 | 45 | 1143 | 91.00 | 2311 | 41.00 | 1041 |

ELECTRICAL AND PHYSICAL DATA

| | ELECTRICAL DATA – RACY2 SERIES | | | | | | | | | | |
|---------------------|---|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | | 078CAZ | 078DAZ | 078YAZ | 090CAZ | 090DAZ | 090YAZ | 119CAZ | 119DAZ | | |
| _ | Unit Operating Voltage Range | 187-253 | 414-506 | 541-610 | 187-253 | 414-506 | 541-610 | 187-253 | 414-506 | | |
| atio | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | 208/230 | 460 | | |
| l ğ i | Minimum Circuit Ampacity | 39/39 | 17/17 | 13 | 39/39 | 17/17 | 13 | 39/39 | 21 | | |
| Unit Information | Minimum Overcurrent Protection Device Size | 45 | 20 | 15 | 45 | 20 | 15 | 60 | 30 | | |
| - | Maximum Overcurrent Protection Device Size | 60 | 25 | 20 | 60 | 25 | 20 | 70 | 35 | | |
| | No. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| SSOF | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | 208/230 | 460 | | |
| npress Motor | Phase | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| Compressor Motor | Amps (RLA), Comp. 1 | 26.3 | 11 | 9.2 | 26.3 | 11 | 9.2 | 26.5 | 14 | | |
| | Amps (LRA), Comp. 1 | 178.5 | 95.3 | 65 | 178.5 | 95.3 | 65 | 255 | 123 | | |
| _ | No. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| <u>달</u> | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | 208/230 | 460 | | |
| er S | Phase | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| ens | HP | 1/2 | 3/4 | 1/2 | 1/2 | 3/4 | 1/2 | 1/2 | 3/4 | | |
| Condenser Motor | Amps (FLA, each) | 5.2 | 3 | 1 | 5.2 | 3 | 1 | 5.2 | 3 | | |
| ا د | Amps (LRA, each) | _ | _ | 2.2 | _ | _ | 2.2 | _ | _ | | |

| | ELECTRICAL DATA – RACY2 SERIES | | | | | | | | | | |
|---------------------|---|---------|---------|---------|---------|---------|---------|--|--|--|--|
| | | 120CAZ | 120DAZ | 120YAZ | 150CAZ | 150DAZ | 150YAZ | | | | |
| _ | Unit Operating Voltage Range | 187-253 | 414-506 | 541-610 | 187-253 | 414-506 | 541-610 | | | | |
| atio | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | | | | |
| l ii | Minimum Circuit Ampacity | 44/44 | 24 | 17 | 61/61 | 26 | 19 | | | | |
| Unit Information | Minimum Overcurrent Protection Device Size | 60 | 30 | 20 | 70 | 30 | 20 | | | | |
| ח | Maximum Overcurrent Protection Device Size | 70 | 35 | 25 | 80 | 30 | 25 | | | | |
| | No. | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Compressor Motor | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | | | | |
| npress Motor | Phase | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| Com | Amps (RLA), Comp. 1 | 26.5 | 14 | 11.5 | 44.8 | 18.4 | 14.4 | | | | |
| | Amps (LRA), Comp. 1 | 255 | 123 | 93.7 | 332.4 | 149.2 | 108 | | | | |
| _ | No. | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
|] de | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | | | | |
| er N | Phase | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| ens | HP | 1/2 | 3/4 | 1/2 | 1/2 | 3/4 | 1/2 | | | | |
| Condenser Motor | Amps (FLA, each) | 5.2 | 3 | 1 | 5.2 | 3 | 1 | | | | |
|) | Amps (LRA, each) | | _ | 2.2 | _ | _ | 2.2 | | | | |

ELECTRICAL AND PHYSICAL DATA (CONTINUED)

| | ELECTRICAL DATA – RACY2 SERIES | | | | | | | | | | |
|---------------------|---|---------|---------|---------|---------|---------|---------|--|--|--|--|
| | | 180CAZ | 180DAZ | 180YAZ | 240CAZ | 240DAZ | 240YAZ | | | | |
| _ | Unit Operating Voltage Range | 187-253 | 414-506 | 541-610 | 187-253 | 414-506 | 541-610 | | | | |
| atio | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | | | | |
| ı ı | Minimum Circuit Ampacity | 78/78 | 35 | 24 | 91/91 | 44 | 33 | | | | |
| Unit Information | Minimum Overcurrent Protection Device Size | 90 | 40 | 30 | 100 | 50 | 40 | | | | |
| n | Maximum Overcurrent Protection Device Size | 100 | 45 | 30 | 110 | 50 | 40 | | | | |
| | No. | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| SSOF | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | | | | |
| Compressor Motor | Phase | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| Com | Amps (RLA), Comp. 1 | 55.4 | 23 | 18 | 66.6 | 30.8 | 25.8 | | | | |
| | Amps (LRA), Comp. 1 | 357 | 206 | 156 | 510 | 280 | 215.2 | | | | |
| _ | No. | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| loto | Volts | 208/230 | 460 | 575 | 208/230 | 460 | 575 | | | | |
| er N | Phase | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Condenser Motor | HP | 1/2 | 3/4 | 1/2 | 1/2 | 3/4 | 1/2 | | | | |
| puo | Amps (FLA, each) | 5.2 | 3 | 1 | 5.2 | 3 | 1 | | | | |
| ၂ | Amps (LRA, each) | _ | _ | 2.2 | _ | _ | 2.2 | | | | |

A2L REFRIGERANT INSTALLATION SAFETY DATA

| | QMIN AT RATING PLATE CHARGE WEIGHT [0'-200' LINE SET] | | | | | | | | | | | | |
|--|---|--|---------------|----------------|----------------|----------------|--|--|--|--|--|--|--|
| RAC | CY2 | 078/090 [0'] | 078/090 [50'] | 078/090 [100'] | 078/090 [150'] | 078/090 [200'] | | | | | | | |
| Refrigerant Cha | art Weight (oz) | 338.0 | 388.0 | 438.0 | 488.0 | 538.0 | | | | | | | |
| Minimum Total Roo | m Area, TAmin (ft²) | 317.0 | 364.0 | 410.0 | 457.0 | 504.0 | | | | | | | |
| Minimum Circulation | Airflow, Qmin (cfm) | 572.0 | 614.0 | 698.0 | 783.0 | 868.0 | | | | | | | |
| INSTALLED ALTITUDE (FT ABOVE SEA LEVEL) | ALTITUDE Adjustment factor | MINIMUM TOTAL CONDITIONED ROOM AREA, TAMIN (SQ FT) | | | | | | | | | | | |
| 0 | 1.000 | 317 | 364 | 410 | 457 | 504 | | | | | | | |
| 1000 | 1.025 | 325 | 373 | 421 | 469 | 517 | | | | | | | |
| 2000 | 1.051 | 333 | 382 | 431 | 481 | 530 | | | | | | | |
| 3000 | 1.078 | 342 | 392 | 443 | 493 | 544 | | | | | | | |
| 4000 | 1.107 | 351 | 403 | 454 | 506 | 558 | | | | | | | |
| 5000 | 1.138 | 360 | 414 | 467 | 520 | 574 | | | | | | | |
| 6000 | 1.170 | 371 | 425 | 480 | 535 | 590 | | | | | | | |
| 6500 | 1.187 | 376 | 432 | 487 | 543 | 598 | | | | | | | |

| | QMIN AT RATING PLATE CHARGE WEIGHT [0'-200' LINE SET] | | | | | | | | | | | |
|--|---|--|-------------------------|------------|------------|------------|--|--|--|--|--|--|
| RAC | Y2 | 119 [0'] | 119 [50'] | 119 [100'] | 119 [150'] | 119 [200'] | | | | | | |
| Refrigerant Cha | ert Weight (oz) | 328.0 | 378.0 | 428.0 | 478.0 | 528.0 | | | | | | |
| Minimum Total Roo | m Area, TAmin (ft²) | 307.0 | 354.0 | 401.0 | 448.0 | 495.0 | | | | | | |
| Minimum Circulation | Airflow, Qmin (cfm) | 555.0 | 555.0 639.0 724.0 808.0 | | | | | | | | | |
| INSTALLED ALTITUDE (FT ABOVE SEA LEVEL) | ALTITUDE ADJUSTMENT FACTOR | MINIMUM TOTAL CONDITIONED ROOM AREA, TAMIN (SQ FT) | | | | | | | | | | |
| 0 | 1.000 | 307 | 354 | 401 | 448 | 495 | | | | | | |
| 1000 | 1.025 | 315 | 363 | 411 | 459 | 507 | | | | | | |
| 2000 | 1.051 | 323 | 372 | 422 | 471 | 520 | | | | | | |
| 3000 | 1.078 | 331 | 382 | 433 | 483 | 534 | | | | | | |
| 4000 | 1.107 | 340 | 392 | 444 | 496 | 548 | | | | | | |
| 5000 | 1.138 | 350 | 403 | 456 | 510 | 563 | | | | | | |
| 6000 | 1.170 | 360 | 414 | 469 | 524 | 579 | | | | | | |
| 6500 | 1.187 | 365 | 420 | 476 | 532 | 587 | | | | | | |

^[] Designates Metric Conversions

A2L REFRIGERANT INSTALLATION SAFETY DATA (CONTINUED)

| | QM | IN AT RATING PLATE (| CHARGE WEIGHT [0' - 2 | 200' LINE SET] | | | | | |
|--|-------------------------------|--|-----------------------|----------------|------------|------------|--|--|--|
| RAC | Y2 | 120 [0'] | 120 [50'] | 120 [100'] | 120 [150'] | 120 [200'] | | | |
| Refrigerant Cha | rt Weight (oz) | 373.5 | 411.0 | 486.0 | 561.0 | 636.0 | | | |
| Minimum Total Rooi | m Area, TAmin (ft²) | 350.0 | 397.0 | 444.0 | 491.0 | 537.0 | | | |
| Minimum Circulation | Airflow, Qmin (cfm) | 632.0 716.0 801.0 885.0 | | | | | | | |
| INSTALLED ALTITUDE (FT ABOVE SEA LEVEL) | ALTITUDE ADJUSTMENT FACTOR | MINIMUM TOTAL CONDITIONED ROOM AREA, TAMIN (SQ FT) | | | | | | | |
| 0 | 1.000 | 350 | 385 | 455 | 526 | 596 | | | |
| 1000 | 1.025 | 359 | 395 | 467 | 539 | 611 | | | |
| 2000 | 1.051 | 368 | 405 | 479 | 553 | 626 | | | |
| 3000 | 1.078 | 377 | 415 | 491 | 567 | 643 | | | |
| 4000 | 1.107 | 388 | 426 | 504 | 582 | 660 | | | |
| 5000 | 1.138 | 398 | 438 | 518 | 598 | 678 | | | |
| 6000 | 6000 1.170 | | 451 | 533 | 615 | 697 | | | |
| 6500 | 1.187 | 415 | 457 | 540 | 624 | 707 | | | |

| | QMIN AT RATING PLATE CHARGE WEIGHT [0' - 200'LINE SET] | | | | | | | | | | | |
|--|--|--|-------------------------|------------|------------|------------|--|--|--|--|--|--|
| RAC | SY2 | 150 [0'] | 150 [50'] | 150 [100'] | 150 [150'] | 150 [200'] | | | | | | |
| Refrigerant Cha | art Weight (oz) | 381.5 | 456.5 | 531.5 | 606.5 | 681.5 | | | | | | |
| Minimum Total Rooi | m Area, TAmin (ft²) | 358.0 | 404.0 | 451.0 | 498.0 | 545.0 | | | | | | |
| Minimum Circulation | Airflow, Qmin (cfm) | 645.0 | 645.0 730.0 814.0 899.0 | | | | | | | | | |
| INSTALLED ALTITUDE (FT ABOVE SEA LEVEL) | ALTITUDE Adjustment factor | MINIMUM TOTAL CONDITIONED ROOM AREA, TAMIN (SQ FT) | | | | | | | | | | |
| 0 | 1.000 | 358 | 428 | 498 | 568 | 639 | | | | | | |
| 1000 | 1.025 | 366 | 438 | 510 | 583 | 655 | | | | | | |
| 2000 | 1.051 | 376 | 450 | 523 | 597 | 671 | | | | | | |
| 3000 | 1.078 | 386 | 461 | 537 | 613 | 689 | | | | | | |
| 4000 | 1.107 | 396 | 474 | 552 | 629 | 707 | | | | | | |
| 5000 | 1.138 | 407 | 487 | 567 | 647 | 727 | | | | | | |
| 6000 | 6000 1.170 | | 501 | 583 | 665 | 747 | | | | | | |
| 6500 | 1.187 | 424 | 508 | 591 | 675 | 758 | | | | | | |

^[] Designates Metric Conversions

A2L REFRIGERANT INSTALLATION SAFETY DATA (CONTINUED)

| | QMIN AT RATING PLATE CHARGE WEIGHT [0' - 200' LINE SET] | | | | | | | | | | | | |
|--|---|--|-----------|------------|------------|------------|--|--|--|--|--|--|--|
| RAC | CY2 | 180 [25'] | 180 [50'] | 180 [100'] | 180 [150'] | 180 [200'] | | | | | | | |
| Refrigerant Cha | art Weight (oz) | 681.5 | 756.5 | 831.5 | 906.5 | 981.5 | | | | | | | |
| Minimum Total Roo | m Area, TAmin (ft²) | 639.0 | 686.0 | 732.0 | 779.0 | 829.0 | | | | | | | |
| Minimum Circulation | Airflow, Qmin (cfm) | 1153.0 | 1237.0 | 1322.0 | 1406.0 | 1491.0 | | | | | | | |
| INSTALLED ALTITUDE (FT ABOVE SEA LEVEL) | ALTITUDE Adjustment factor | MINIMUM TOTAL CONDITIONED ROOM AREA, TAMIN (SQ FT) | | | | | | | | | | | |
| 0 | 1.000 | 639 | 709 | 779 | 850 | 920 | | | | | | | |
| 1000 | 1.025 | 655 | 727 | 799 | 871 | 943 | | | | | | | |
| 2000 | 1.051 | 671 | 745 | 819 | 893 | 967 | | | | | | | |
| 3000 | 1.078 | 689 | 764 | 840 | 916 | 992 | | | | | | | |
| 4000 | 1.107 | 707 | 785 | 863 | 941 | 1018 | | | | | | | |
| 5000 | 1.138 | 727 | 807 | 887 | 967 | 1046 | | | | | | | |
| 6000 1.170 | | 747 | 829 | 912 | 994 | 1076 | | | | | | | |
| 6500 | 1.187 | 758 | 841 | 925 | 1008 | 1092 | | | | | | | |

| | QMIN AT RATING PLATE CHARGE WEIGHT [0' - 200' 7/8" LINE SET] | | | | | | | | | | | |
|--|--|--|---------------------------|------------|------------|------------|--|--|--|--|--|--|
| RAC | Y2 | 240 [0'] | 240 [50'] | 240 [100'] | 240 [150'] | 240 [200'] | | | | | | |
| Refrigerant Cha | rt Weight (oz) | 537.5 | 692.5 | 847.5 | 1002.5 | 1157.5 | | | | | | |
| Minimum Total Rooi | m Area, TAmin (ft²) | 504.0 | 551.0 | 597.0 | 644.0 | 691.0 | | | | | | |
| Minimum Circulation | Airflow, Qmin (cfm) | 909.0 | 909.0 994.0 1078.0 1163.0 | | | | | | | | | |
| INSTALLED ALTITUDE (FT ABOVE SEA LEVEL) | ALTITUDE Adjustment factor | MINIMUM TOTAL CONDITIONED ROOM AREA, TAMIN (SQ FT) | | | | | | | | | | |
| 0 | 1.000 | 504 | 649 | 794 | 940 | 1085 | | | | | | |
| 1000 | 1.025 | 516 | 665 | 814 | 963 | 1112 | | | | | | |
| 2000 | 1.051 | 529 | 682 | 835 | 987 | 1140 | | | | | | |
| 3000 | 1.078 | 543 | 700 | 856 | 1013 | 1170 | | | | | | |
| 4000 | 1.107 | 558 | 719 | 879 | 1040 | 1201 | | | | | | |
| 5000 | 1.138 | 573 | 738 | 904 | 1069 | 1234 | | | | | | |
| 6000 | 6000 1.170 | | 759 | 929 | 1099 | 1269 | | | | | | |
| 6500 | 1.187 | 598 | 770 | 943 | 1115 | 1287 | | | | | | |

^[] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACY2078 & RACY2090

| | 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] | | | |
| | | M [L/s] | 3475 [1640] | 2400 [1133] | 2525 [1192] | 3475 [1640] | 2400 [1133] | 2525 [1192] | 3475 [1640] | 2400 [1133] | 2525 [1192] | | |
| | | OR ① | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | | |
| | 75°F [23.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 110.1 [32.3] 66.3 [19.4] 6.2 | 101.8 [29.8] 54.9 [16.1] 5.9 | 102.8 [30.1] 56.2 [16.5] 6.0 | 99.3 [29.1] 77.4 [22.7] 5.9 | 91.8 [26.9] 64.0 [18.8] 5.7 | 92.7 [27.2] 65.6 [19.2] 5.7 | 93.3 [27.3] 86.3 [25.3] 6.0 | 86.2 [25.3] 71.4 [20.9] 5.8 | 87.0 [25.5] 73.1 [21.4] 5.8 | | |
| 0 | 80°F [26.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 110.6 [32.4] 67.5 [19.8] 6.7 | 102.3 [30.0] 55.8 [16.4] 6.4 | 103.2 [30.2] 57.2 [16.8] 6.4 | 99.8 [29.2] 78.6 [23.0] 6.5 | 92.2 [27.0] 65.0 [19.1] 6.2 | 93.1 [27.3] 66.6 [19.5] 6.2 | 93.7 [27.5] 87.5 [25.6] 6.5 | 86.7 [25.4] 72.4 [21.2] 6.3 | 87.5 [25.6] 74.1 [21.7] 6.3 | | |
| U T D | 85°F [29.4]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 111.0 [32.5] 68.4 [20.0] 7.2 | 102.6 [30.1] 56.6 [16.6] 6.9 | 103.6 [30.4] 57.9 [17.0] 6.9 | 100.1 [29.3] 79.5 [23.3] 7.0 | 92.6 [27.1] 65.7 [19.3] 6.7 | 93.5 [27.4] 67.3 [19.7] 6.7 | 94.1 [27.6] 88.4 [25.9] 7.0 | 87.0 [25.5] 73.1 [21.4] 6.8 | 87.8 [25.7] 74.9 [22.0] 6.8 | | |
| O R D | 90°F [32.2]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 111.2 [32.6] 69.0 [20.2] 7.7 | 102.8 [30.1] 57.1 [16.7] 7.4 | 103.8 [30.4] 58.5 [17.1] 7.4 | 100.4 [29.4] 80.1 [23.5] 7.5 | 92.8 [27.2] 66.3 [19.4] 7.2 | 93.7 [27.5] 67.9 [19.9] 7.2 | 94.3 [27.6] 89.1 [26.1] 7.5 | 87.2 [25.6] 73.7 [21.6] 7.3 | 88.1 [25.8] 75.4 [22.1] 7.3 | | |
| R Y B | 95°F [35]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 111.3 [32.6] 69.4 [20.3] 8.2 | 103.0 [30.2] 57.4 [16.8] 7.9 | 103.9 [30.5] 58.8 [17.2] 7.9 | 100.5 [29.5] 80.5 [23.6] 8.0 | 92.9 [27.2] 66.6 [19.5] 7.7 | 93.8 [27.5] 68.2 [20.0] 7.7 | 94.5 [27.7] 89.4 [26.2] 8.1 | 87.4 [25.6] 74.0 [21.7] 7.7 | 88.2 [25.8] 75.8 [22.2] 7.8 | | |
| LB | 100°F [37.8]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 111.3 [32.6] 69.6 [20.4] 8.7 | 103.0 [30.2] 57.5 [16.9] 8.4 | 103.9 [30.5] 58.9 [17.3] 8.4 | 100.5 [29.5] 80.7 [23.7] 8.5 | 92.9 [27.2] 66.7 [19.5] 8.1 | 93.8 [27.5] 68.3 [20.0] 8.2 | 94.5 [27.7] 89.6 [26.3] 8.6 | 87.4 [25.6] 74.1 [21.7] 8.2 | 88.2 [25.8] 75.9 [22.2] 8.3 | | |
| H M P E | 105°F [40.6]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 111.2 [32.6] 69.5 [20.4] 9.2 | 102.9 [30.2] 57.5 [16.9] 8.8 | 103.8 [30.4] 58.9 [17.3] 8.9 | 100.4 [29.4] 80.6 [23.6] 9.0 | 92.8 [27.2] 66.6 [19.5] 8.6 | 93.7 [27.5] 68.3 [20.0] 8.7 | 94.4 [27.7] 89.5 [26.2] 9.1 | 87.3 [25.6] 74.0 [21.7] 8.7 | 88.1 [25.8] 75.8 [22.2] 8.8 | | |
| R A T U | 110°F [43.3]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 111.0 [32.5] 69.1 [20.3] 9.7 | 102.6 [30.1] 57.2 [16.8] 9.3 | 103.6 [30.4] 58.5 [17.1] 9.4 | 100.1 [29.3] 80.2 [23.5] 9.5 | 92.6 [27.1] 66.3 [19.4] 9.1 | 93.5 [27.4] 67.9 [19.9] 9.2 | 94.1 [27.6] 89.1 [26.1] 9.6 | 87.0 [25.5] 73.7 [21.6] 9.2 | 87.9 [25.8] 75.5 [22.1] 9.2 | | |
| R E °F [°C] | 115°F [46.1]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 110.6 [32.4] 68.5 [20.1] 10.2 | 102.3 [30.0] 56.6 [16.6] 9.8 | 103.3 [30.3] 58.0 [17.0] 9.9 | 99.8 [29.2] 79.6 [23.3] 10.0 | 92.3 [27.1] 65.8 [19.3] 9.6 | 93.1 [27.3] 67.4 [19.8] 9.7 | 93.8 [27.5] 88.5 [25.9] 10.1 | 86.7 [25.4] 73.2 [21.5] 9.7 | 87.5 [25.6] 75.0 [22.0] 9.7 | | |
| ا ا | 120°F [48.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 110.2 [32.3] 67.6 [19.8] 10.7 | 101.9 [29.9] 55.9 [16.4] 10.3 | 102.8 [30.1] 57.3 [16.8] 10.4 | 99.3 [29.1] 78.7 [23.1] 10.5 | 91.8 [26.9] 65.1 [19.1] 10.1 | 92.7 [27.2] 66.7 [19.5] 10.1 | 93.3 [27.3] 87.6 [25.7] 10.6 | 86.3 [25.3] 72.5 [21.2] 10.2 | 87.1 [25.5] 74.2 [21.7] 10.2 | | |
| | 125°F [51.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 109.6 [32.1] 66.5 [19.5] 11.2 | 101.3 [29.7] 55.0 [16.1] 10.8 | 102.3 [30.0] 56.3 [16.5] 10.8 | 98.7 [28.9] 77.6 [22.7] 11.0 | 91.3 [26.8] 64.2 [18.8] 10.6 | 92.1 [27.0] 65.7 [19.3] 10.6 | 92.7 [27.2] 86.5 [25.4] 11.1 | 85.7 [25.1] 71.5 [21.0] 10.7 | 86.5 [25.4] 73.3 [21.5] 10.7 | | |

DR —Depression ratio

Total —Total capacity x 1000 Btu/h Sens —Sensible capacity x 1000 Btu/h

dbE —Entering air dry bulb wbE—Entering air wet bulb

Power —kW input

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

| | 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] | | | |
| | | M [L/s] | 4250 [2006] | 3900 [1841] | 3075 [1451] | 4250 [2006] | 3900 [1841] | 3075 [1451] | 4250 [2006] | 3900 [1841] | 3075 [1451] | | |
| | | OR ① | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | | |
| | 75°F [23.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 123.9 [36.3] 76.4 [22.4] 7.4 | 121.9 [35.7] 73.3 [21.5] 7.4 | 117.2 [34.3] 66.1 [19.4] 7.2 | 115.7 [33.9] 87.4 [25.6] 7.3 | 113.8 [33.4] 83.9 [24.6] 7.2 | 109.4 [32.1] 75.6 [22.2] 7.1 | 111.1 [32.6] 102.1 [29.9] 7.2 | 109.3 [32.0] 98.0 [28.7] 7.1 | 105.1 [30.8] 88.4 [25.9] 7.0 | | |
| | 80°F [26.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 124.8 [36.6] 77.5 [22.7] 8.0 | 122.8 [36.0] 74.4 [21.8] 8.0 | 118.0 [34.6] 67.1 [19.7] 7.8 | 116.5 [34.1] 88.5 [25.9] 7.9 | 114.7 [33.6] 85.0 [24.9] 7.9 | 110.3 [32.3] 76.6 [22.5] 7.7 | 112.0 [32.8] 103.3 [30.3] 7.8 | 110.2 [32.3] 99.1 [29.0] 7.7 | 105.9 [31.0] 89.4 [26.2] 7.6 | | |
| 0 U T D | 85°F [29.4]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 125.0 [36.6] 78.0 [22.9] 8.7 | 123.0 [36.0] 74.9 [22.0] 8.6 | 118.3 [34.7] 67.5 [19.8] 8.5 | 116.8 [34.2] 89.1 [26.1] 8.6 | 114.9 [33.7] 85.5 [25.1] 8.5 | 110.5 [32.4] 77.0 [22.6] 8.3 | 112.2 [32.9] 103.8 [30.4] 8.4 | 110.4 [32.4] 99.6 [29.2] 8.4 | 106.2 [31.1] 89.8 [26.3] 8.2 | | |
| O R D | 90°F [32.2]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 124.6 [36.5] 77.9 [22.8] 9.4 | 122.6 [35.9] 74.8 [21.9] 9.3 | 117.9 [34.6] 67.4 [19.8] 9.1 | 116.4 [34.1] 88.9 [26.1] 9.2 | 114.5 [33.6] 85.3 [25.0] 9.2 | 110.1 [32.3] 76.9 [22.5] 9.0 | 111.8 [32.8] 103.7 [30.4] 9.1 | 110.0 [32.2] 99.5 [29.2] 9.0 | 105.8 [31.0] 89.7 [26.3] 8.9 | | |
| R Y B | 95°F [35]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 123.6 [36.2] 77.1 [22.6] 10.0 | 121.6 [35.6] 74.0 [21.7] 10.0 | 116.9 [34.3] 66.7 [19.5] 9.8 | 115.4 [33.8] 88.1 [25.8] 9.9 | 113.5 [33.3] 84.6 [24.8] 9.8 | 109.1 [32.0] 76.2 [22.3] 9.6 | 110.8 [32.5] 102.9 [30.2] 9.8 | 109.0 [31.9] 98.8 [29.0] 9.7 | 104.8 [30.7] 89.0 [26.1] 9.5 | | |
| L B | 100°F [37.8]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 121.9 [35.7] 75.7 [22.2] 10.7 | 120.0 [35.2] 72.7 [21.3] 10.6 | 115.4 [33.8] 65.5 [19.2] 10.4 | 113.7 [33.3] 86.7 [25.4] 10.6 | 111.9 [32.8] 83.2 [24.4] 10.5 | 107.6 [31.5] 75.0 [22.0] 10.3 | 109.1 [32.0] 101.5 [29.7] 10.5 | 107.4 [31.5] 97.4 [28.5] 10.4 | 103.2 [30.2] 87.8 [25.7] 10.2 | | |
| E M P E | 105°F [40.6]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 119.6 [35.1] 73.6 [21.6] 11.4 | 117.7 [34.5] 70.7 [20.7] 11.3 | 113.2 [33.2] 63.7 [18.7] 11.1 | 111.4 [32.6] 84.6 [24.8] 11.3 | 109.6 [32.1] 81.2 [23.8] 11.2 | 105.4 [30.9] 73.2 [21.5] 11.0 | 106.8 [31.3] 99.4 [29.1] 11.2 | 105.1 [30.8] 95.4 [28.0] 11.1 | 101.1 [29.6] 86.0 [25.2] 10.9 | | |
| R A T U | 110°F [43.3]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 116.7 [34.2] 70.9 [20.8] 12.1 | 114.8 [33.6] 68.1 [20.0] 12.0 | 110.4 [32.4] 61.3 [18.0] 11.8 | 108.5 [31.8] 81.9 [24.0] 12.0 | 106.8 [31.3] 78.6 [23.0] 11.9 | 102.7 [30.1] 70.9 [20.8] 11.7 | 103.9 [30.5] 96.7 [28.3] 11.9 | 102.3 [30.0] 92.8 [27.2] 11.8 | 98.3 [28.8] 83.6 [24.5] 11.6 | | |
| R E °F [°C] | 115°F [46.1]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 113.2 [33.2] 67.6 [19.8] 12.8 | 111.4 [32.6] 64.8 [19.0] 12.7 | 107.1 [31.4] 58.4 [17.1] 12.5 | 105.0 [30.8] 78.6 [23.0] 12.7 | 103.3 [30.3] 75.4 [22.1] 12.6 | 99.3 [29.1] 68.0 [19.9] 12.4 | 100.4 [29.4] 93.3 [27.3] 12.6 | 98.8 [29.0] 89.6 [26.3] 12.5 | 95.0 [27.8] 80.7 [23.7] 12.3 | | |
| ا ا | 120°F [48.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 109.0 [31.9] 63.5 [18.6] 13.6 | 107.2 [31.4] 61.0 [17.9] 13.5 | 103.1 [30.2] 55.0 [16.1] 13.2 | 100.8 [29.5] 74.6 [21.9] 13.5 | 99.2 [29.1] 71.6 [21.0] 13.3 | 95.3 [27.9] 64.5 [18.9] 13.1 | 96.2 [28.2] 89.3 [26.2] 13.3 | 94.7 [27.8] 85.7 [25.1] 13.2 | 91.0 [26.7] 77.3 [22.7] 13.0 | | |
| | 125°F [51.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 104.2 [30.5] 58.9 [17.3] 14.3 | 102.5 [30.0] 56.5 [16.6] 14.2 | 98.6 [28.9] 50.9 [14.9] 13.9 | 96.0 [28.1] 69.9 [20.5] 14.2 | 94.4 [27.7] 67.1 [19.7] 14.1 | 90.8 [26.6] 60.5 [17.7] 13.8 | 91.4 [26.8] 84.7 [24.8] 14.1 | 89.9 [26.3] 81.3 [23.8] 14.0 | 86.5 [25.4] 73.2 [21.5] 13.7 | | |

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

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 x CFM x (1 - DR) x (dbE - 80)].

| | | | | | ENTERING IND | OOR AIR @ 80°F | [26.7°C] dbE ① | | | | |
|----------------------|-------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| | , | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | |
| | | M [L/s] | 4400 [2077] | 3900 [1841] | 3175 [1498] | 4400 [2077] | 3900 [1841] | 3175 [1498] | 4400 [2077] | 3900 [1841] | 3175 [1498] |
| | | OR ① | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 |
| | 75°F [23.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 130.0 [38.1] 77.7 [22.8] 7.6 | 127.0 [37.2] 73.3 [21.5] 7.5 | 122.7 [36.0] 67.0 [19.6] 7.4 | 119.3 [35.0] 84.7 [24.8] 7.7 | 116.6 [34.2] 79.9 [23.4] 7.6 | 112.7 [33.0] 73.0 [21.4] 7.5 | 112.1 [32.9] 95.2 [27.9] 7.8 | 109.6 [32.1] 89.9 [26.3] 7.7 | 105.9 [31.0] 82.1 [24.1] 7.6 |
| 0 | 80°F [26.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 131.4 [38.5] 80.3 [23.5] 8.3 | 128.4 [37.6] 75.8 [22.2] 8.2 | 124.1 [36.4] 69.2 [20.3] 8.1 | 120.7 [35.4] 87.3 [25.6] 8.4 | 118.0 [34.6] 82.4 [24.2] 8.3 | 114.0 [33.4] 75.2 [22.0] 8.1 | 113.5 [33.3] 97.9 [28.7] 8.5 | 110.9 [32.5] 92.3 [27.1] 8.4 | 107.2 [31.4] 84.3 [24.7] 8.2 |
| U T D | 85°F [29.4]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 132.0 [38.7] 82.2 [24.1] 8.9 | 129.0 [37.8] 77.6 [22.7] 8.8 | 124.6 [36.5] 70.8 [20.8] 8.7 | 121.3 [35.6] 89.2 [26.1] 9.0 | 118.6 [34.8] 84.1 [24.6] 8.9 | 114.6 [33.6] 76.8 [22.5] 8.8 | 114.1 [33.4] 99.7 [29.2] 9.1 | 111.5 [32.7] 94.1 [27.6] 9.0 | 107.8 [31.6] 85.9 [25.2] 8.9 |
| O R D | 90°F [32.2]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 131.9 [38.7] 83.3 [24.4] 9.6 | 128.9 [37.8] 78.6 [23.0] 9.5 | 124.5 [36.5] 71.8 [21.0] 9.3 | 121.2 [35.5] 90.2 [26.4] 9.7 | 118.5 [34.7] 85.1 [24.9] 9.6 | 114.4 [33.5] 77.8 [22.8] 9.4 | 114.0 [33.4] 100.8 [29.5] 9.7 | 111.4 [32.6] 95.1 [27.9] 9.6 | 107.7 [31.6] 86.9 [25.5] 9.5 |
| R Y B U | 95°F [35]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 131.0 [38.4] 83.6 [24.5] 10.2 | 128.0 [37.5] 78.8 [23.1] 10.1 | 123.7 [36.3] 72.0 [21.1] 9.9 | 120.3 [35.3] 90.5 [26.5] 10.3 | 117.6 [34.5] 85.4 [25.0] 10.2 | 113.6 [33.3] 78.0 [22.9] 10.0 | 113.1 [33.1] 101.1 [29.6] 10.4 | 110.5 [32.4] 95.4 [28.0] 10.2 | 106.8 [31.3] 87.1 [25.5] 10.1 |
| L B | 100°F [37.8]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 129.3 [37.9] 83.1 [24.4] 10.8 | 126.4 [37.0] 78.4 [23.0] 10.7 | 122.1 [35.8] 71.6 [21.0] 10.5 | 118.7 [34.8] 90.0 [26.4] 10.9 | 116.0 [34.0] 84.9 [24.9] 10.8 | 112.1 [32.9] 77.6 [22.7] 10.6 | 111.5 [32.7] 100.6 [29.5] 11.0 | 108.9 [31.9] 94.9 [27.8] 10.8 | 105.3 [30.9] 86.7 [25.4] 10.7 |
| E M P E | 105°F [40.6]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 126.9 [37.2] 81.8 [24.0] 11.4 | 124.1 [36.4] 77.2 [22.6] 11.2 | 119.9 [35.1] 70.5 [20.7] 11.1 | 116.3 [34.1] 88.7 [26.0] 11.5 | 113.6 [33.3] 83.7 [24.5] 11.3 | 109.8 [32.2] 76.5 [22.4] 11.1 | 109.1 [32.0] 99.3 [29.1] 11.5 | 106.6 [31.2] 93.7 [27.5] 11.4 | 103.0 [30.2] 85.6 [25.1] 11.2 |
| R A T U | 110°F [43.3]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 123.8 [36.3] 79.7 [23.4] 11.9 | 121.0 [35.5] 75.2 [22.0] 11.8 | 116.9 [34.3] 68.7 [20.1] 11.6 | 113.1 [33.1] 86.7 [25.4] 12.0 | 110.5 [32.4] 81.8 [24.0] 11.9 | 106.8 [31.3] 74.7 [21.9] 11.7 | 105.9 [31.0] 97.2 [28.5] 12.1 | 103.5 [30.3] 91.7 [26.9] 12.0 | 100.0 [29.3] 83.8 [24.6] 11.8 |
| R E °F [°C] | 115°F [46.1]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 119.9 [35.1] 76.9 [22.5] 12.5 | 117.1 [34.3] 72.5 [21.2] 12.3 | 113.2 [33.2] 66.2 [19.4] 12.1 | 109.2 [32.0] 83.8 [24.6] 12.5 | 106.7 [31.3] 79.1 [23.2] 12.4 | 103.1 [30.2] 72.2 [21.2] 12.2 | 102.0 [29.9] 94.4 [27.7] 12.6 | 99.7 [29.2] 89.1 [26.1] 12.5 | 96.3 [28.2] 81.3 [23.8] 12.3 |
| ا ا | 120°F [48.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 115.2 [33.8] 73.2 [21.5] 13.0 | 112.6 [33.0] 69.1 [20.3] 12.8 | 108.8 [31.9] 63.1 [18.5] 12.6 | 104.5 [30.6] 80.2 [23.5] 13.1 | 102.1 [29.9] 75.7 [22.2] 12.9 | 98.7 [28.9] 69.1 [20.3] 12.7 | 97.3 [28.5] 90.7 [26.6] 13.1 | 95.1 [27.9] 85.6 [25.1] 13.0 | 91.9 [26.9] 78.2 [22.9] 12.8 |
| | 125°F [51.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 109.8 [32.2] 68.8 [20.2] 13.5 | 107.3 [31.4] 64.9 [19.0] 13.3 | 103.6 [30.4] 59.3 [17.4] 13.1 | 99.1 [29.0] 75.8 [22.2] 13.6 | 96.8 [28.4] 71.5 [21.0] 13.4 | 93.6 [27.4] 65.3 [19.1] 13.2 | 91.9 [26.9] 86.3 [25.3] 13.6 | 89.8 [26.3] 81.5 [23.9] 13.5 | 86.8 [25.4] 74.4 [21.8] 13.3 |

DR —Depression ratio

Total —Total capacity x 1000 Btu/h Sens —Sensible capacity x 1000 Btu/h

dbE —Entering air dry bulb wbE—Entering air wet bulb

Power —kW input

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

| | 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] | | | |
| | | M [L/s] | 5375 [2537] | 4350 [2053] | 3875 [1829] | 5375 [2537] | 4350 [2053] | 3875 [1829] | 5375 [2537] | 4350 [2053] | 3875 [1829] | | |
| | [| OR ① | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | | |
| | 75°F [23.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 141.4 [41.4] 85.7 [25.1] 8.7 | 135.6 [39.7] 77.2 [22.6] 8.5 | 132.9 [39.0] 73.3 [21.5] 8.4 | 136.1 [39.9] 101.5 [29.7] 8.5 | 130.5 [38.2] 91.5 [26.8] 8.3 | 127.9 [37.5] 86.8 [25.4] 8.2 | 130.7 [38.3] 117.3 [34.4] 8.5 | 125.4 [36.8] 105.7 [3.01] 8.3 | 122.9 [36.0] 100.3 [29.4] 8.2 | | |
| | 80°F [26.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 144.7 [42.4] 88.0 [25.8] 9.7 | 138.8 [40.7] 79.3 [23.2] 9.5 | 136.0 [39.9] 75.3 [22.1] 9.4 | 139.4 [40.9] 103.8 [30.4] 9.4 | 133.7 [39.2] 93.6 [27.4] 9.3 | 13.01 [38.4] 88.8 [26.0] 9.2 | 134.1 [39.3] 119.6 [35.1] 9.5 | 128.6 [37.7] 107.8 [31.6] 9.3 | 126.0 [36.9] 102.3 [30.0] 9.2 | | |
| 0 U T D 0 | 85°F [29.4]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 148.1 [43.4] 90.4 [26.5] 10.7 | 142.0 [41.6] 81.4 [23.9] 10.5 | 139.2 [40.8] 77.3 [22.7] 10.3 | 142.8 [41.9] 106.2 [31.1] 10.4 | 136.9 [40.1] 95.6 [28.0] 10.2 | 134.2 [39.3] 90.8 [26.6] 10.1 | 137.4 [40.3] 121.9 [35.7] 10.5 | 131.8 [38.6] 109.9 [32.2] 10.3 | 129.2 [37.9] 104.3 [30.6] 10.2 | | |
| O R D | 90°F [32.2]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 151.4 [44.4] 92.7 [27.2] 11.7 | 145.2 [42.6] 83.5 [24.5] 11.4 | 142.3 [41.7] 79.2 [23.2] 11.3 | 146.1 [42.8] 108.5 [31.8] 11.4 | 140.1 [41.1] 97.7 [28.6] 11.2 | 137.3 [40.2] 92.7 [27.2] 11.1 | 140.8 [41.3] 124.3 [36.4] 11.5 | 135.0 [39.6] 111.9 [32.8] 11.2 | 132.3 [38.8] 106.2 [31.1] 11.1 | | |
| R Y B | 95°F [35]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 154.8 [45.4] 95.0 [27.8] 12.7 | 148.4 [43.5] 85.6 [25.1] 12.4 | 145.5 [42.6] 81.2 [23.8] 12.3 | 149.5 [43.8] 110.8 [32.5] 12.4 | 143.3 [42.0] 99.8 [29.2] 12.2 | 140.5 [41.2] 94.7 [27.8] 12.1 | 144.1 [42.2] 126.6 [37.1] 12.5 | 138.2 [40.5] 114.0 [33.4] 12.2 | 135.5 [39.7] 108.2 [31.7] 12.1 | | |
| L B | 100°F [37.8]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 158.1 [46.3] 97.3 [28.5] 13.7 | 151.7 [44.5] 87.7 [25.7] 13.4 | 148.6 [43.6] 83.2 [24.4] 13.2 | 152.8 [44.8] 113.1 [33.1] 13.4 | 146.5 [42.9] 101.9 [29.9] 13.2 | 143.6 [42.1] 96.7 [28.3] 13.0 | 147.5 [43.2] 128.9 [37.8] 13.5 | 141.4 [41.4] 116.1 [34.0] 13.2 | 138.6 [40.6] 110.2 [32.3] 13.1 | | |
| E M P E | 105°F [40.6]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 161.5 [47.3] 99.6 [29.2] 14.7 | 154.9 [45.4] 89.7 [26.3] 14.4 | 151.8 [44.5] 85.2 [25.0] 14.2 | 156.2 [45.8] 115.4 [33.8] 14.4 | 149.8 [43.9] 104.0 [30.5] 14.1 | 146.8 [43.0] 98.7 [28.9] 14.0 | 150.9 [44.2] 131.2 [38.5] 14.5 | 144.7 [42.4] 118.2 [34.6] 14.2 | 141.8 [41.6] 112.2 [32.9] 14.0 | | |
| R A T U | 110°F [43.3]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 164.9 [48.3] 101.9 [29.9] 15.6 | 158.1 [46.3] 91.8 [26.9] 15.3 | 154.9 [45.4] 87.1 [25.5] 15.2 | 159.5 [46.7] 117.7 [34.5] 15.4 | 153.0 [44.8] 106.1 [31.1] 15.1 | 149.9 [43.9] 100.6 [29.5] 15.0 | 154.2 [45.2] 133.5 [39.1] 15.4 | 147.9 [43.3] 120.3 [35.3] 15.1 | 144.9 [42.5] 114.1 [33.4] 15.0 | | |
| R E °F [°C] | 115°F [46.1]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 168.2 [49.3] 104.2 [30.5] 16.6 | 161.3 [47.3] 93.9 [27.5] 16.3 | 158.1 [46.3] 89.1 [25.5] 16.1 | 162.9 [47.7] 120.0 [35.2] 16.4 | 156.2 [45.8] 108.1 [31.7] 16.1 | 153.1 [44.9] 102.6 [30.1] 15.9 | 157.6 [46.2] 135.8 [39.8] 16.4 | 151.1 [44.3] 122.4 [35.9] 16.1 | 148.1 [43.4] 116.1 [34.0] 16.0 | | |
| [6] | 120°F [48.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 171.6 [50.3] 106.5 [31.2] 17.6 | 164.5 [48.2] 96.0 [28.1] 17.3 | 161.3 [47.3] 91.1 [26.7] 17.1 | 166.2 [48.7] 122.3 [35.8] 17.4 | 159.4 [46.7] 110.2 [32.3] 17.1 | 156.3 [45.8] 104.6 [30.7] 16.9 | 160.9 [47.2] 138.1 [40.5] 17.4 | 154.3 [45.2] 124.4 [36.5] 17.1 | 151.2 [44.3] 118.1 [34.6] 16.9 | | |
| | 125°F [51.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 174.9 [51.3] 108.9 [31.9] 18.6 | 167.7 [49.2] 98.1 [28.8] 18.3 | 164.4 [48.2] 93.1 [27.3] 18.1 | 169.6 [49.7] 124.7 [36.5] 18.4 | 162.6 [47.7] 112.3 [32.9] 18.0 | 159.4 [46.7] 106.6 [31.2] 17.9 | 164.3 [48.2] 140.4 [41.1] 18.4 | 157.5 [46.2] 126.5 [37.1] 18.1 | 154.4 [45.3] 120.1 [35.2] 17.9 | | |

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

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 x CFM x (1 - DR) x (dbE - 80)].

| | | | | | ENTERING IND | OOR AIR @ 80°F | [26.7°C] dbE ① | | | | |
|----------------------|-------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | |
| | | M [L/s] | 6775 [3197] | 5200 [2454] | 4900 [2313] | 6775 [3197] | 5200 [2454] | 4900 [2313] | 6775 [3197] | 5200 [2454] | 4900 [2313] |
| | | OR ① | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 |
| | 75°F [23.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 200.9 [58.9] 119.2 [34.9] 10.6 | 260.3 [76.3] 138.1 [40.5] 17.0 | 188.4 [55.2] 101.6 [29.8] 10.3 | 186.5 [54.7] 140.0 [41.0] 10.4 | 176.8 [51.8] 122.7 [36.0] 10.2 | 174.9 [51.3] 119.3 [35.0] 10.1 | 176.2 [51.6] 165.2 [48.4] 10.2 | 167.0 [48.9] 144.7 [42.4] 10.0 | 165.2 [48.4] 140.8 [41.3] 9.9 |
| | 80°F [26.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 203.8 [59.7] 122.7 [36.0] 11.6 | 261.5 [76.6] 140.8 [41.3] 18.8 | 191.2 [56.0] 104.7 [30.7] 11.2 | 189.4 [55.5] 143.5 [42.1] 11.4 | 179.5 [52.6] 125.7 [36.8] 11.1 | 177.7 [52.1] 122.4 [35.9] 11.0 | 179.1 [52.5] 168.7 [49.4] 11.2 | 169.8 [49.8] 147.8 [43.3] 10.9 | 168.0 [49.2] 143.9 [42.2] 10.9 |
| U T D O | 85°F [29.4]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 205.5 [60.2] 124.9 [36.6] 12.6 | 262.8 [77.0] 143.6 [42.1] 20.5 | 192.7 [56.5] 106.5 [31.2] 12.2 | 191.1 [56.0] 145.7 [42.7] 12.4 | 181.1 [53.1] 127.6 [37.4] 12.1 | 179.2 [52.5] 124.2 [36.4] 12.0 | 180.8 [53.0] 170.9 [50.1] 12.2 | 171.3 [50.2] 149.7 [43.9] 11.9 | 169.5 [49.7] 145.7 [42.7] 11.9 |
| O R D | 90°F [32.2]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 205.9 [60.3] 125.7 [36.8] 13.7 | 264.1 [77.4] 146.4 [42.9] 22.3 | 193.1 [56.6] 107.2 [31.4] 13.3 | 191.5 [56.1] 146.5 [42.9] 13.5 | 181.5 [53.2] 128.3 [37.6] 13.2 | 179.6 [52.6] 124.9 [36.6] 13.1 | 181.2 [53.1] 171.7 [50.3] 13.4 | 171.7 [50.3] 150.4 [44.1] 13.0 | 169.9 [49.8] 146.4 [42.9] 13.0 |
| R Y B U | 95°F [35]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 205.0 [60.1] 125.1 [36.7] 14.9 | 265.4 [77.8] 149.1 [43.7] 24.0 | 192.3 [56.4] 106.6 [31.2] 14.5 | 190.6 [55.9] 145.9 [42.8] 14.8 | 180.7 [53.0] 127.8 [37.5] 14.4 | 178.8 [52.4] 124.3 [36.4] 14.3 | 180.3 [52.8] 171.1 [50.1] 14.6 | 170.9 [50.1] 149.9 [43.9] 14.2 | 169.1 [49.6] 145.8 [42.7] 14.1 |
| L B | 100°F [37.8]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 202.9 [59.5] 123.1 [36.1] 16.2 | 266.6 [78.1] 151.9 [44.5] 25.8 | 190.3 [55.8] 105.0 [30.8] 15.7 | 188.4 [55.2] 143.9 [42.2] 16.0 | 178.6 [52.3] 126.1 [37.0] 15.6 | 176.7 [51.8] 122.7 [36.0] 15.6 | 178.1 [52.2] 169.1 [49.6] 15.9 | 168.8 [49.5] 148.1 [43.4] 15.5 | 167.1 [49.0] 144.2 [42.3] 15.4 |
| E M P E | 105°F [40.6]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 199.4 [58.4] 119.7 [35.1] 17.6 | 267.9 [78.5] 154.7 [45.3] 27.6 | 187.0 [54.8] 102.1 [29.9] 17.1 | 185.0 [54.2] 140.5 [41.2] 17.4 | 175.4 [51.4] 123.1 [36.1] 17.0 | 173.5 [50.8] 119.8 [35.1] 16.9 | 174.7 [51.2] 165.7 [48.6] 17.2 | 165.6 [48.5] 145.2 [42.6] 16.8 | 163.9 [48.0] 141.3 [41.4] 16.7 |
| R A T U | 110°F [43.3]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 194.7 [57.1] 115.0 [33.7] 19.1 | 269.2 [78.9] 157.4 [46.1] 29.3 | 182.6 [53.5] 98.1 [28.8] 18.5 | 180.3 [52.8] 135.8 [39.8] 18.9 | 170.9 [50.1] 119.0 [34.9] 18.4 | 169.1 [49.6] 115.8 [33.9] 18.3 | 170.0 [49.8] 161.0 [47.2] 18.7 | 161.1 [47.2] 141.1 [41.4] 18.2 | 159.4 [46.7] 137.3 [40.2] 18.1 |
| R E °F [°C] | 115°F [46.1]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 188.8 [55.3] 108.9 [31.9] 20.6 | 270.5 [79.3] 160.2 [47.0] 31.1 | 177.0 [51.9] 92.8 [27.2] 20.0 | 174.3 [51.1] 129.7 [38.0] 20.4 | 165.2 [48.4] 113.6 [33.3] 19.9 | 163.5 [47.9] 110.6 [32.4] 19.8 | 164.0 [48.1] 154.9 [45.4] 20.2 | 155.5 [45.6] 135.7 [39.8] 19.7 | 153.8 [45.1] 132.0 [38.7] 19.6 |
| | 120°F [48.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 181.5 [53.2] 101.4 [29.7] 22.2 | 271.7 [79.6] 163.0 [47.8] 32.8 | 170.2 [49.9] 86.5 [25.4] 21.5 | 167.1 [49.0] 122.2 [35.8] 22.0 | 158.4 [46.4] 107.0 [31.4] 21.5 | 156.7 [45.9] 104.2 [30.5] 21.4 | 156.8 [46.0] 147.4 [43.2] 21.9 | 148.6 [43.6] 129.1 [37.8] 21.3 | 147.0 [43.1] 125.7 [36.8] 21.2 |
| | 125°F [51.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 173.0 [50.7] 92.5 [27.1] 23.9 | 273.0 [80.0] 165.7 [48.6] 34.6 | 162.2 [47.5] 78.9 [23.1] 23.2 | 158.6 [46.5] 113.3 [33.2] 23.8 | 150.3 [44.1] 99.3 [29.1] 23.1 | 148.7 [43.6] 96.6 [28.3] 23.0 | 148.3 [43.5] 138.5 [40.6] 23.6 | 140.5 [41.2] 121.4 [35.6] 23.0 | 139.0 [40.7] 118.1 [34.6] 22.8 |

DR —Depression ratio

dbE —Entering air dry bulb

wbE—Entering air wet bulb

Total —Total capacity x 1000 Btu/h Sens —Sensible capacity x 1000 Btu/h

Power —kW input

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

| | | | | | ENTERING IND | OOR AIR @ 80°F | [26.7°C] dbE ① | | | | |
|----------------------|-------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | | wbE | | 71°F [21.7°C] | | | 67°F [19.4°C] | | | 63°F [17.2°C] | |
| | | M [L/s] | 6775 [3197] | 5200 [2454] | 4900 [2313] | 6775 [3197] | 5200 [2454] | 4900 [2313] | 6775 [3197] | 5200 [2454] | 4900 [2313] |
| | | DR ① | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 | 0.05 | 0.09 | 0.12 |
| | 75°F [23.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 281.3 [82.4] 166.8 [48.9] 17.7 | 260.3 [76.3] 138.1 [40.5] 17.0 | 262.3 [76.9] 140.9 [41.3] 17.1 | 261.4 [76.6] 189.9 [55.7] 16.9 | 241.8 [70.9] 157.2 [46.1] 16.2 | 243.7 [71.4] 160.4 [47.0] 16.3 | 241.4 [70.8] 213.0 [62.4] 17.4 | 223.3 [65.4] 176.4 [51.7] 16.7 | 225.1 [66.0] 179.9 [52.7] 16.8 |
| 0 | 80°F [26.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 282.7 [82.9] 170.1 [49.9] 19.5 | 261.5 [76.6] 140.8 [41.3] 18.8 | 263.6 [77.3] 143.7 [42.1] 18.8 | 262.7 [77.0] 193.2 [56.6] 18.7 | 243.1 [71.2] 160.0 [46.9] 18.0 | 245.0 [71.8] 163.2 [47.8] 18.1 | 242.8 [71.2] 216.4 [63.4] 19.2 | 224.6 [65.8] 179.1 [52.5] 18.5 | 226.3 [66.3] 182.7 [53.5] 18.6 |
| U T D | 85°F [29.4]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 284.1 [83.3] 173.5 [50.8] 21.3 | 262.8 [77.0] 143.6 [42.1] 20.5 | 264.9 [77.6] 146.5 [42.9] 20.6 | 264.1 [77.4] 196.6 [57.6] 20.5 | 244.3 [71.6] 162.8 [47.7] 19.8 | 246.3 [72.2] 166.0 [48.7] 19.8 | 244.2 [71.6] 219.7 [64.4] 21.0 | 225.9 [66.2] 181.9 [53.3] 20.2 | 227.6 [66.7] 185.6 [54.4] 20.3 |
| O R D | 90°F [32.2]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 285.5 [83.7] 176.8 [51.8] 23.2 | 264.1 [77.4] 146.4 [42.9] 22.3 | 266.2 [78.0] 149.3 [43.8] 22.4 | 265.5 [77.8] 199.9 [58.6] 22.4 | 245.6 [72.0] 165.5 [48.5] 21.5 | 247.5 [72.5] 168.8 [49.5] 21.6 | 245.5 [72.0] 223.0 [65.4] 22.9 | 227.1 [66.6] 184.7 [54.1] 22.0 | 228.9 [67.1] 188.4 [55.2] 22.1 |
| R Y B | 95°F [35]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 286.9 [84.1] 180.1 [52.8] 25.0 | 265.4 [77.8] 149.1 [43.7] 24.0 | 267.4 [78.4] 152.1 [44.6] 24.1 | 266.9 [78.2] 203.3 [59.6] 24.2 | 246.9 [72.4] 168.3 [49.3] 23.3 | 248.8 [72.9] 171.7 [50.3] 23.4 | 246.9 [72.4] 226.4 [66.4] 24.7 | 228.4 [66.9] 187.4 [54.9] 23.8 | 230.2 [67.5] 191.2 [56.0] 23.9 |
| L B | 100°F [37.8]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 288.2 [84.5] 183.5 [53.8] 26.8 | 266.6 [78.1] 151.9 [44.5] 25.8 | 268.7 [78.8] 154.9 [45.4] 25.9 | 268.3 [78.6] 206.6 [60.6] 26.0 | 248.2 [72.7] 171 [50.1] 25.0 | 250.1 [73.3] 174.5 [51.1] 25.1 | 248.3 [72.8] 229.7 [67.3] 26.5 | 229.7 [67.3] 190.2 [55.7] 25.5 | 231.5 [67.8] 194.0 [56.9] 25.6 |
| H M P E | 105°F [40.6]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 289.6 [84.9] 186.8 [54.7] 28.6 | 267.9 [78.5] 154.7 [45.3] 27.6 | 270.0 [79.1] 157.8 [46.2] 27.7 | 269.6 [79.0] 209.9 [61.5] 27.8 | 249.4 [73.1] 173.8 [50.9] 26.8 | 251.4 [73.7] 177.3 [52.0] 26.9 | 249.7 [73.2] 233.1 [68.3] 28.4 | 231.0 [67.7] 193.0 [56.6] 27.3 | 232.8 [68.2] 196.8 [57.7] 27.4 |
| R A T U | 110°F [43.3]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 291.0 [85.3] 190.1 [55.7] 30.5 | 269.2 [78.9] 157.4 [46.1] 29.3 | 271.3 [79.5] 160.6 [47.1] 29.4 | 271.0 [79.4] 213.3 [62.5] 29.7 | 250.7 [73.5] 176.6 [51.8] 28.6 | 252.7 [74.1] 180.1 [52.8] 28.7 | 251.1 [73.6] 236.4 [69.3] 30.2 | 232.3 [68.1] 195.7 [57.4] 29.0 | 234.1 [68.6] 199.6 [58.5] 29.1 |
| R E °F [°C' | 115°F [46.1]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 292.4 [85.7] 193.5 [56.7] 32.3 | 270.5 [79.3] 160.2 [47.0] 31.1 | 272.6 [79.9] 163.4 [47.9] 31.2 | 272.4 [79.8] 216.6 [63.5] 31.5 | 252.0 [73.9] 179.3 [52.5] 30.3 | 254.0 [74.4] 182.9 [53.6] 30.4 | 252.4 [74.0] 239.7 [70.3] 32.0 | 233.5 [68.4] 198.5 [58.2] 30.8 | 235.4 [69.0] 202.5 [59.3] 30.9 |
| [6 | 120°F [48.9]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 293.7 [86.1] 196.8 [57.7] 34.1 | 271.7 [79.6] 163.0 [47.8] 32.8 | 273.9 [80.3] 166.2 [48.7] 33.0 | 273.8 [80.2] 219.9 [64.4] 33.3 | 253.3 [74.2] 182.1 [53.4] 32.1 | 255.3 [74.8] 185.8 [54.5] 32.2 | 253.8 [74.4] 243.1 [71.2] 33.8 | 234.8 [68.8] 201.2 [59.0] 32.6 | 236.6 [69.3] 205.3 [60.2] 32.7 |
| | 125°F [51.7]°C | Total kBtu/h [kW] Sens kBtu/h [kW] Power | 295.1 [86.5] 200.2 [58.7] 35.9 | 273.0 [80.0] 165.7 [48.6] 34.6 | 275.2 [80.7] 169.0 [49.5] 34.7 | 275.2 [80.7] 223.3 [65.4] 35.2 | 254.6 [74.6] 184.9 [54.2] 33.8 | 256.5 [75.2] 188.6 [55.3] 34.0 | 255.2 [74.8] 246.4 [72.2] 35.7 | 236.1 [69.2] 204.0 [59.8] 34.3 | 237.9 [69.7] 208.1 [61.0] 34.4 |

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

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 x CFM x (1 - DR) x (dbE - 80)].

UNIT DIMENSIONS AND WEIGHTS 6.5, 7.5 & 10 TON (1 FAN) [22.9, 26.4 & 35.2 kW]

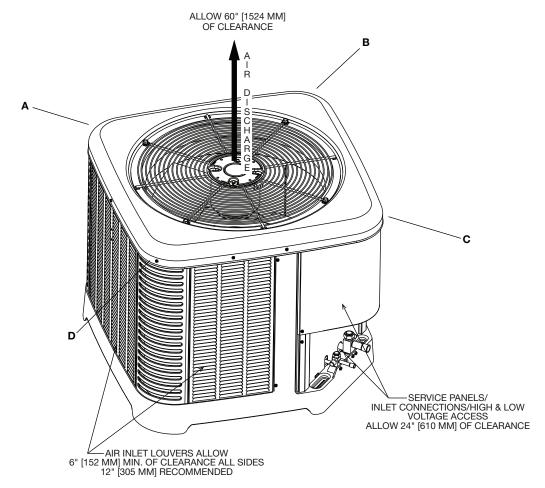
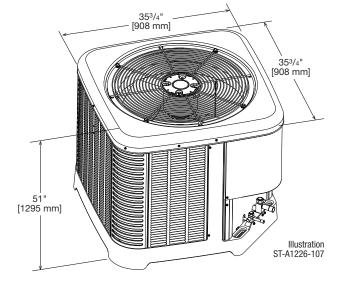


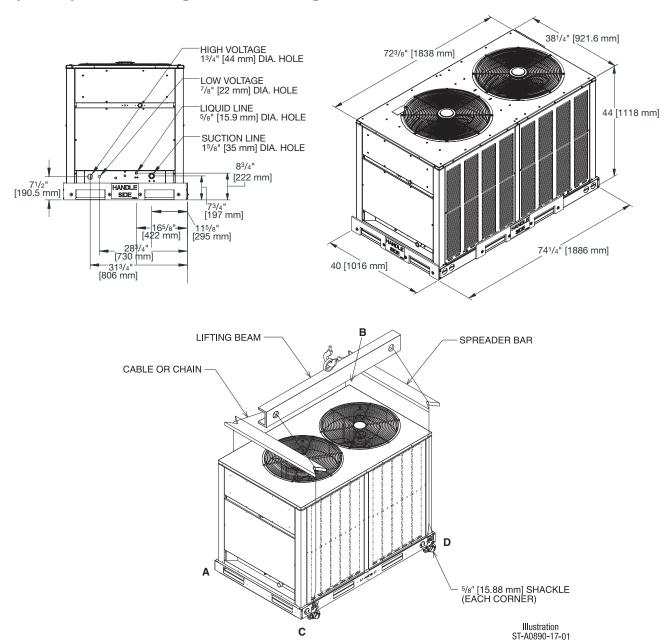
Illustration ST-A1226-106-01

6.5, 7.5 & 10 TON (1 FAN) [22.9, 26.4 & 35.2 kW]

| MODEL | TOTAL WEIGHT | CORNER WEIGHTS, LBS. [kg] | | | | | |
|----------|-----------------|------------------------------|---------|----------|---------|--|--|
| | LBS. [kg] | Α | В | С | D | | |
| RACY2078 | 383 [174] | 104 [47] | 82 [37] | 107 [49] | 89 [40] | | |
| RACY2090 | 383 [174] | 104 [47] | 82 [37] | 107 [49] | 89 [40] | | |
| RACY2119 | 411 [186] | 112 [51] | 88 [40] | 115 [52] | 96 [44] | | |



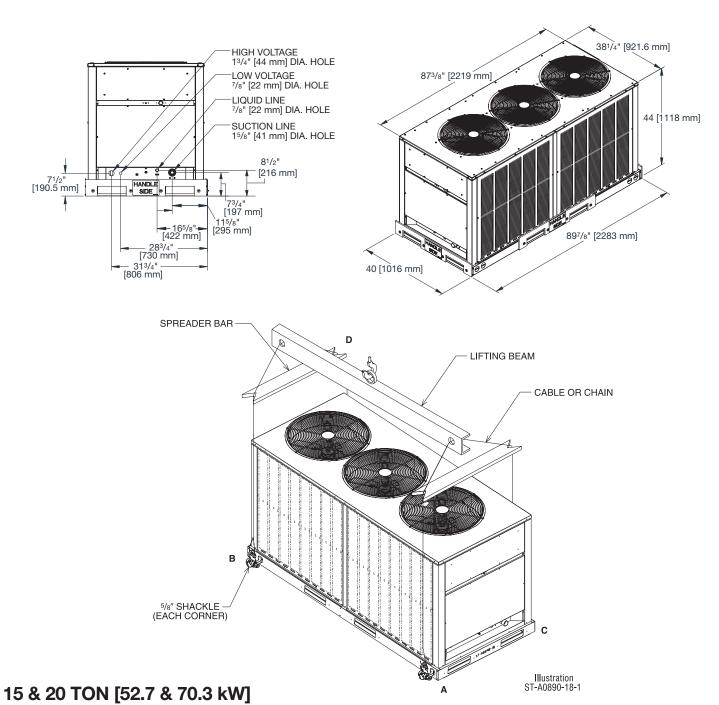
UNIT DIMENSIONS AND WEIGHTS 10 (2 FAN) & 12.5 TON [35.2 & 44.0 kW]



10 (2 FAN) & 12.5 TON [35.2 & 44.0 kW]

| MODEL | TOTAL WEIGHT | CORNER WEIGHTS, LBS. [kg] | | | | | |
|-----------|-----------------|------------------------------|----------|----------|----------|--|--|
| LBS. [kg] | | Α | В | C | D | | |
| RACY2120 | 565 [256] | 97 [44] | 181 [82] | 167 [76] | 73 [33] | | |
| RACY2150 | 647 [293] | 189 [86] | 157 [71] | 161 [73] | 139 [63] | | |

UNIT DIMENSIONS AND WEIGHTS 15 & 20 TON [52.8 & 70.3 kW]



CORNER WEIGHTS (LBS.) [kg]

| MODEL | TOTAL WEIGHT | CORNER WEIGHTS, LBS. [kg] | | | | | |
|----------|-----------------|------------------------------|----------|----------|-----------|--|--|
| | LBS. [kg] | Α | В | С | D | | |
| RACY2180 | 832 [377] | 240 [109] | 183 [83] | 167 [76] | 242 [110] | | |
| RACY2240 | 926 [420] | 308 [140] | 128 [58] | 161 [73] | 328 [149] | | |

TYPICAL REFRIGERANT PIPING RECOMMENDATIONS

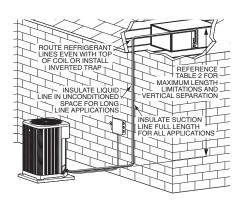
General Notes:

- 1. Vertical risers not to exceed 100 feet [30.48 m].
- 2. Locate the remote condensing unit and indoor air handler as close together as possible to minimize piping runs.
- 3. Remote condensing units are shipped with a nitrogen holding charge. Evacuate remote condensing unit before charging with refrigerant.
- 4. Runs between remote condensing unit and indoor air handler are not to exceed 200 feet [60.96 m] linear length.
- 5. The minimum velocity line (1500 FPM) [7.5 m/s] is recommended.
- 6. With the outdoor unit located below the indoor air handler, all vertical vapor lines must not exceed 1-1/8" [28.58 mm] O.D.
- 7. For suction pressure drop (PSIG) [6.9 kPa], multiply percent (%) loss by 1.8.
- 8. Size vapor lines for no more than a 5 PSIG [34.5 kPa] pressure drop (2.54% capacity loss) which corresponds to approximately 2°F [-16.7°C] loss.
- 9. All vertical vapor lines, 3 feet [.91 m] or more in length, must have a short radius oil trap at the bottom of the riser.
- 10. All vertical vapor lines, 30 feet [9.14 m] or more in length, must have short radius oil traps every 15 to 20 feet [4.57 to 6.10 m] of run.

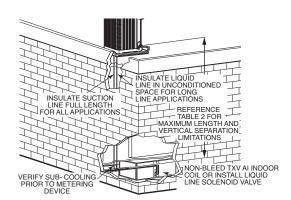
| EQUIVALENT LENGTH (FT.) [m] OF STRAIGHT TYPE "L" TUBING FOR NON-FERROUS VALVES AND FITTINGS (BRAZED) | | | | | | |
|--|----------------|------------------------|-----------------------|---------------------|--|--|
| TUBE SIZE INCHES [mm] O.D. | ANGLE VALVE | SHORT RADIUS ELL | LONG RADIUS ELL | TEE LINE FLOW | | |
| 1/2 [12.7] | 24 [7.32] | 4.7 [1.43] | 3.2 [0.98] | 1.7 [0.52] | | |
| 5/8 [15.88] | 25 [7.62] | 5.7 [1.74] | 3.9 [1.19] | 2.3 [0.70] | | |
| 3/4 [19.05] | 25 [7.62] | 6.5 [1.98] | 4.5 [1.37] | 2.9 [0.88] | | |
| 7/8 [22.23] | 28 [8.53] | 7.8 [2.38] | 5.3 [1.62] | 3.7 [1.13] | | |
| 11/8 [28.58] | 29 [8.84] | 2.7 [0.82] | 1.9 [0.58] | 5.2 [1.59] | | |
| 13/8 [34.93] | 33 [10.06] | 3.2 [0.98] | 2.2 [0.67] | 6.9 [2.10] | | |

[] Designates Metric Conversions

INDOOR UNIT ABOVE OUTDOOR UNIT



INDOOR UNIT BELOW OUTDOOR UNIT



TYPICAL REFRIGERANT PIPING RECOMMENDATIONS

| REQUIRED OUNCES. R-454B CHARGE PER FOOT [m] OF TUBING | | | | | | | | | |
|---|-----------------------|-------|--------|------------|------|-------|------|-----------------|-------------|
| TUB | TUBE SIZE LIQUID TUBE | |) TUBE | VAPOR TUBE | | TOTAL | | INTERNAL VOLUME | |
| OD (IN) | OD (MM) | OZ/FT | KG/M | OZ/FT | KG/M | OZ/FT | KG/M | ft³/ft | M³/M |
| 3/8 | 9.5 | 0.5 | 0.05 | 0.0 | 0.00 | 0.5 | 0.05 | 0.000555 | 0.000048 |
| 1/2 | 12.7 | 1.0 | 0.09 | 0.0 | 0.00 | 1.0 | 0.09 | 0.00108 | 0.0000929 |
| 5/8 | 15.9 | 1.5 | 0.14 | 0.1 | 0.00 | 1.6 | 0.15 | 0.00173 | 0.000149 |
| 3/4 | 19.1 | 2.2 | 0.21 | 0.1 | 0.01 | 2.3 | 0.21 | 0.00248 | 0.000214 |
| 7/8 | 22.2 | 3.1 | 0.29 | 0.1 | 0.01 | 3.2 | 0.30 | 0.00343 | 0.000296 |
| 1 | 25.4 | 4.0 | 0.37 | 0.1 | 0.01 | 4.2 | 0.39 | 0.0045 | 0.000389 |
| 11/8 | 28.6 | 5.2 | 0.49 | 0.2 | 0.02 | 5.4 | 0.50 | 0.00585 | 0.000503 |
| 11/4 | 31.8 | 6.5 | 0.60 | 0.2 | 0.02 | 6.7 | 0.62 | 0.00721 | 0.000623 |
| 13/8 | 34.9 | 7.3 | 0.68 | 0.2 | 0.02 | 7.6 | 0.70 | 0.008165 | 0.000758595 |
| 11/2 | 38.1 | 9.4 | 0.87 | 0.3 | 0.03 | 9.7 | 0.90 | 0.0105 | 0.00091 |
| 15/8 | 41.3 | 11.2 | 1.04 | 0.4 | 0.03 | 11.6 | 1.08 | 0.0125 | 0.00108 |
| 21/8 | 54.0 | 19.5 | 1.82 | 0.6 | 0.06 | 20.2 | 1.88 | 0.0218 | 0.00188 |

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

Guide Specifications RACY-078-240

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AC CONDENSING UNIT

HVAC Guide Specifications

Size Range: 6.5 to 20 Nominal Tons

1.01 Quality Assurance

- A. Unit shall be rated in accordance with AHRI Standard 340/360.
- B. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- C. Unit shall be constructed in accordance with UL 60335-2-40 standard and shall carry the UL label.
- D. Unit cabinet shall be capable of withstanding 500 hour salt spray exposure per ASTM B117 (scribed specimen).
- E. Air-cooled condenser coils for hermetic scroll compressor units shall be leak tested at 250 psig, and pressure tested at 450 psig.
- F. Unit shall be subjected to run test on the assembly line.
- G. Unit meets ASHRAE 90.1 2022 minimum efficiency requirements.

1.02 Manufacturer Qualifications

A. Unit shall be manufactured in a facility registered to ISO 9001:2015 manufacturing quality standard.

1.03 Installer Qualifications

A. The installer shall be trained to install and service equipment with A2L refrigerants.

1.04 Delivery, Storage, and Handling

- A. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.
- B. Unit shall be stored and handled per manufacturer's recommendations.
- C. Refer to the manufacturer's installation and operation manual for guidance on how to properly lift the unit.
- D. Unit shall only be stored or positioned in the upright position.

1.05 Unit Cabinet

- A. Unit cabinet shall be constructed of galvanized steel and coated with a pre-painted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.
 - i. Unit cabinet exterior paint shall be pre-painted steel.
- C. No base pan penetration, other than those authorized by the manufacturer, is permitted.
 - i. Heavy-Gauge Base Pan and Base Rail 120-240:
 - a. Unit shall have base rails on a minimum of 4 sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - c. Holes shall be provided in the base rail for moving the rooftop for fork truck.
 - d. Base rail shall be a minimum of 14 gauge thickness.
 - ii. Plastic Base Pan 078, 090, and 119:
 - a. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall be able to be easily removed.
 - iii. Top panel 078, 090, and 119:
 - a. Top panel is removable for service access.
 - iv. Electrical Connections:
 - a. All unit power wiring shall enter unit cabinet a single, factory-prepared, continuous raised flange opening in the base pan.
 - 1. Thru-the-base capability for 078, 090, and 119: Electrical connections are located close to the ground for a neat-looking installation.
 - v. Component access panels (standard):
 - a. Cabinet panels shall be easily opened for servicing.
 - b. Control box as well as the compressor and other refrigerant controls being accessible through access panels. Control box may be open without affecting the normal operation of the unit. Condenser fan motors are accessible by removing wire grilles.
 - c. Fasteners shall be permanently attached.

1.06 Condenser Fans

- A. Condenser fans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fan blades shall be balanced.
- C. Condenser fan discharge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenser fan and motor shaft shall be corrosion resistant.
- E. Condenser fan motors are accessible by removing wire grilles.

1.07 Refrigerant Components

- A. The refrigerant circuit shall include the following control, safety, and maintenance features:
 - i. Refrigerant filter drier.
 - ii. Service gauge connections on suction and discharge lines.
 - iii. External pressure gauge ports allows pressures to be checked on the side, without removing access panel.

1.08 Compressors

- A. Compressor shall be of the hermetic scroll type.
- B. Compressor shall be mounted on rubber grommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crankcase heater.
- E. Compressor shall be equipped with internal high pressure and high temperature protection.

1.09 Condenser Coils

- A. Standard Aluminum Fin Copper Tube Coils:
 - Condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
 - ii. Condenser coils shall be leak tested to 250 psig, pressure tested to 450 psig, and qualified to UL 60335-2-40.

1.10 Controls and Safeties

- A. Minimum control functions shall include:
 - i. Control wire terminal blocks.
 - ii. Compressor lockout on auto-reset safety until reset from thermostat.
 - iii. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
 - a. High discharge pressure cutout.
 - b. Low pressure cutout.
- B. Turn off electric power at the fuse box or service panel before making any electrical connections.
- C. The unit must be permanently grounded.
- D. Components are not compatible between different refrigerants. Do not use R-410A service equipment or components on R-454B equipment. System or part failure could occur.

1.11 Operating Characteristics

- A. Standard unit shall be capable to operate up to 125.6°F (52°C) and down to 40°F (4°C).
- B. Compressor with standard controls shall be capable of operation down to 50°F (10°C), ambient outdoor temperatures. Low ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 0°F (-17.7°C).

1.12 Electrical Requirements

- A. Nominal unit electrical characteristics:
 - i. Shall be 208/230v, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation within voltage limits of 187v to 253v.
 - ii. Shall be 460v, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation within voltage limits of 414v to 506v.
 - iii. Shall be 575v, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation within voltage limits of 514v to 610v.
- B. Unit control circuit shall contain a 24-v transformer for unit control.
- C. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

1.13 Special Features

- A. Low-Ambient Temperature Control:
 - i. A low-ambient temperature control shall be available as a factory-installed option or as a field-installed accessory. This low-ambient control shall regulate the speed of the condenser-fan motors in response to the saturated condensing temperature of the unit. The control shall maintain correct condensing pressure opens at 250 psig and closes at 450 psig. Allows unit to operate to 0°F.
- B. Condenser Coil Grille: Grille shall add decorative appearance to unit and protect condenser coil from large objects and vandalism.



GENERAL TERMS OF LIMITED PARTS WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

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

| Compressor | |
|---------------------------|----------------|
| (Commercial Applications) | Five (5) Years |
| Parts | |
| (Commercial Applications) | One (1) Year |

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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