

**40RU 20 to 30 Nominal Tons
Packaged Air–Handling Units
with Puron® (R–410A) Refrigerant
Sizes: 25–30**



Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER JUNE 1, 2015 ONLY!

NOTE: Read the entire instruction manual before starting the installation

This supplement only applies to 40RU size 25 to 30 units manufactured on or after June 1, 2015. To confirm the date of manufacture of the unit, locate the unit nameplate and check the first four digits of the Serial Number which is located directly below the unit's Model Number at the top of the nameplate. If the number listed in the first 4 digits of the Serial Number is 2315 or higher KEEP THIS DOCUMENT and use it along with the furnished Installation Instructions.

| | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|----|
| Position: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Example: | 2 | 3 | 1 | 5 | X | 1 | 2 | 3 | 4 | 5 |

| | | |
|--|------------------------|-----------------|
| Week of manufacture (fiscal calendar) | Manufacturing location | Sequence number |
| Year of manufacture ("15" = 2015) | | |

C150242

SERIAL NUMBER NOMENCLATURE

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloths for brazing operations and have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and appropriate national electrical codes (in USA, ANSI/NFPA70, National Electrical Code (NEC); in Canada, CSA C22.1) for special requirements.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in

personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

CAUTION

ELECTRICAL HAZARD

Failure to follow this caution may result in personal injury or product and property damage.

The electrical data contained in this document is only for use with 40RU size 25 to 30 units manufactured on or after June 1, 2015. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate) if the number listed is 2315 or higher keep this document.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could cause personal injury or death.

Before performing service or maintenance operations on unit, always turn off main power switch to unit and install lockout tag. Unit may have more than one power switch.

Table 1 – Electrical Data, Standard Motors with Factory-Installed Single Speed Fan Option

| UNIT | V-PH-Hz† | VOLTAGE LIMITS | FAN MOTOR | | POWER SUPPLY | |
|----------------------------------|--------------|----------------|-------------|------|----------------------|-----------------------|
| | | | Hp (kW) | FLA | Minimum Circuit Amps | MAX FUSE or HACR BRKR |
| 40RUA*25 40RUS*25 40RUQ*25 | 208/230-3-60 | 187-253 | 5.0 (3.73) | 18.0 | 23.0 | 40 |
| | 460-3-60 | 414-506 | 5.0 (3.73) | 9.1 | 12.0 | 20 |
| | 575-3-60 | 518-632 | 5.0 (3.73) | 8.0 | 10.0 | 15 |
| 40RUA*28 40RUS*28 | 208/230-3-60 | 187-253 | 7.5 (5.59) | 23.5 | 30.0 | 50 |
| | 460-3-60 | 414-506 | 7.5 (5.59) | 15.0 | 19.0 | 30 |
| | 575-3-60 | 518-632 | 7.5 (5.59) | 10.0 | 13.0 | 20 |
| 40RUA*30 40RUS*30 | 208/230-3-60 | 187-253 | 10.0 (7.46) | 32.0 | 40.0 | 70 |
| | 460-3-60 | 414-506 | 10.0 (7.46) | 16.0 | 20.0 | 35 |
| | 575-3-60 | 518-632 | 10.0 (7.46) | 13.0 | 17.0 | 25 |

See: "Legend and Notes for Tables 1 – 4" on page 3.

Table 2 – Electrical Data, Alternate Motors with Factory-Installed Single Speed Fan Option

| UNIT | V-PH-Hz† | VOLTAGE LIMITS | FAN MOTOR | | POWER SUPPLY | |
|----------------------------------|--------------|----------------|-------------|------|----------------------|-----------------------|
| | | | Hp (kW) | FLA | Minimum Circuit Amps | MAX FUSE or HACR BRKR |
| 40RUA*25 40RUS*25 40RUQ*25 | 208/230-3-60 | 187-253 | 7.5 (5.59) | 23.5 | 30.0 | 50 |
| | 460-3-60 | 414-506 | 7.5 (5.59) | 15.0 | 19.0 | 30 |
| | 575-3-60 | 518-632 | 7.5 (5.59) | 10.0 | 13.0 | 20 |
| 40RUA*28 40RUS*28 | 208/230-3-60 | 187-253 | 10.0 (7.46) | 32.0 | 40.0 | 70 |
| | 460-3-60 | 414-506 | 10.0 (7.46) | 16.0 | 20.0 | 35 |
| | 575-3-60 | 518-632 | 10.0 (7.46) | 13.0 | 17.0 | 30 |
| 40RUA*30 40RUS*30 | 208/230-3-60 | 187-253 | 10.0 (7.46) | 32.0 | 40.0 | 70 |
| | 460-3-60 | 414-506 | 10.0 (7.46) | 16.0 | 20.0 | 35 |
| | 575-3-60 | 518-632 | 10.0 (7.46) | 13.0 | 17.0 | 25 |

See: "Legend and Notes for Tables 1 – 4" on page 3.

Table 3 – Electrical Data, Standard Motors with Factory-Installed 2-Speed Fan Option

| UNIT | V-PH-Hz† | VOLTAGE LIMITS | FAN MOTOR | | POWER SUPPLY | |
|----------------------------------|--------------|----------------|-------------|------|----------------------|-----------------------|
| | | | Hp (kW) | FLA | Minimum Circuit Amps | MAX FUSE or HACR BRKR |
| 40RUA*25 40RUS*25 40RUQ*25 | 208/230-3-60 | 187-253 | 5.0 (3.73) | 18.0 | 23.0 | 40 |
| | 460-3-60 | 414-506 | 5.0 (3.73) | 9.1 | 12.0 | 20 |
| | 575-3-60 | 518-632 | 5.0 (3.73) | 8.0 | 10.0 | 15 |
| 40RUA*28 40RUS*28 | 208/230-3-60 | 187-253 | 7.5 (5.59) | 23.5 | 30.0 | 50 |
| | 460-3-60 | 414-506 | 7.5 (5.59) | 15.0 | 19.0 | 30 |
| | 575-3-60 | 518-632 | 7.5 (5.59) | 10.0 | 13.0 | 20 |
| 40RUA*30 40RUS*30 | 208/230-3-60 | 187-253 | 10.0 (7.46) | 32.0 | 40.0 | 70 |
| | 460-3-60 | 414-506 | 10.0 (7.46) | 16.0 | 20.0 | 35 |
| | 575-3-60 | 518-632 | 10.0 (7.46) | 13.0 | 17.0 | 25 |

See: "Legend and Notes for Tables 1 – 4" on page 3.

Table 4 – Electrical Data, Alternate Motors with Factory-Installed 2-Speed Fan Option

| UNIT | V-PH-Hz† | VOLTAGE LIMITS | FAN MOTOR | | POWER SUPPLY | |
|----------------------------------|--------------|----------------|-------------|------|----------------------|-----------------------|
| | | | Hp (kW) | FLA | Minimum Circuit Amps | MAX FUSE or HACR BRKR |
| 40RUA*25 40RUS*25 40RUQ*25 | 208/230-3-60 | 187-253 | 7.5 (5.59) | 23.5 | 30.0 | 50 |
| | 460-3-60 | 414-506 | 7.5 (5.59) | 15.0 | 19.0 | 30 |
| | 575-3-60 | 518-632 | 7.5 (5.59) | 10.0 | 13.0 | 20 |
| 40RUA*28 40RUS*28 | 208/230-3-60 | 187-253 | 10.0 (7.46) | 32.0 | 40.0 | 70 |
| | 460-3-60 | 414-506 | 10.0 (7.46) | 16.0 | 20.0 | 35 |
| | 575-3-60 | 518-632 | 10.0 (7.46) | 13.0 | 17.0 | 25 |
| 40RUA*30 40RUS*30 | 208/230-3-60 | 187-253 | 10.0 (7.46) | 32.0 | 40.0 | 70 |
| | 460-3-60 | 414-506 | 10.0 (7.46) | 16.0 | 20.0 | 35 |
| | 575-3-60 | 518-632 | 10.0 (7.46) | 13.0 | 17.0 | 25 |

See: "Legend and Notes for Tables 1 – 4" on page 3.

Legend and Notes for Tables 1 and 4

LEGEND:

FLA – Full Load Amps

MOCP – MAX FUSE or HACR BRKR

† Motors are designed for satisfactory operation within 10% of normal voltage shown. Voltages should not exceed the limits shown in the Voltage Limits column.

NOTES:

1. Minimum circuit amps (MCA) and fuse or HACR breaker values are calculated in accordance with The NEC, Article 440.
2. Motor FLA values are established in accordance with Underwriters' Laboratories (UL), Standard 1995.
3. **Unbalanced 3-Phase Supply Voltage**
Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the formula in the example (see column to the right) to determine the percentage of voltage imbalance.
4. **Installation with Accessory Electric Heaters**
Size the Field Power Wiring between the heater TB1 and the 40RU indoor fan motor per NEC Article 430-28 (1) or (2) (depends on length of conduit between heater enclosure and 40RU power entry location). Install wires in field-installed conduit.



Example: Supply voltage is 230-3-60

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$



AB = 393 v
BC = 403 v
AC = 396 v

$$\begin{aligned} \text{Average Voltage} &= \frac{(393 + 403 + 396)}{3} = \frac{1192}{3} \\ &= 397 \end{aligned}$$

Determine maximum deviation from average voltage.

(AB) 397 – 393 = 4 v

(BC) 403 – 397 = 6 v

(AC) 397 – 396 = 1 v

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{6}{397} \\ &= 1.5\% \end{aligned}$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

Table 5 – Electric Heater Data - Single Speed Motor

| HEATER PART NO. CAELHEAT | SIZE | V-PH-Hz | FAN MOTOR | | | ELECTRIC HEATER(S) | | | | | MCA* | MOCP* |
|--------------------------|------|----------|-----------|------|------|--------------------|----------------------|---------|-------|-------|-------|-------|
| | | | Hp | kW | FLA | Nom. Cap. (kW) | Actual Capacity (kW) | | | FLA | | |
| | | | | | | | Stage 1 | Stage 2 | Total | | | |
| 016A00 | | 208-3-60 | 2.9 | 2.16 | 7.5 | 10.0 | 7.5 | - | 7.5 | 20.8 | 35.4 | 40 |
| | | | 3.7 | 2.76 | 10.2 | 10.0 | 7.5 | - | 7.5 | 20.8 | 38.8 | 40 |
| | | | 5.0 | 3.73 | 18.0 | 10.0 | 7.5 | - | 7.5 | 20.8 | 48.6 | 60 |
| | | | 7.5 | 5.59 | 23.5 | 10.0 | 7.5 | - | 7.5 | 20.8 | 55.4 | 70 |
| | | 240-3-60 | 2.9 | 2.16 | 7.5 | 10.0 | 10.0 | - | 10.0 | 24.1 | 39.4 | 40 |
| | | | 3.7 | 2.76 | 10.2 | 10.0 | 10.0 | - | 10.0 | 24.1 | 42.8 | 50 |
| | | | 5.0 | 3.73 | 18.0 | 10.0 | 10.0 | - | 10.0 | 24.1 | 52.6 | 60 |
| | | | 7.5 | 5.59 | 23.5 | 10.0 | 10.0 | - | 10.0 | 24.1 | 59.4 | 70 |
| 017A00 | | 480-3-60 | 2.9 | 2.16 | 3.4 | 10.0 | 10.0 | - | 10.0 | 12.0 | 19.3 | 20 |
| | | | 3.7 | 2.76 | 4.8 | 10.0 | 10.0 | - | 10.0 | 12.0 | 21.0 | 25 |
| | | | 5.0 | 3.73 | 9.1 | 10.0 | 10.0 | - | 10.0 | 12.0 | 26.4 | 30 |
| | | | 7.5 | 5.59 | 15.0 | 10.0 | 10.0 | - | 10.0 | 12.0 | 33.8 | 40 |
| 018A00 | | 575-3-60 | 3.0 | 2.24 | 3.8 | 10.0 | 10.0 | - | 10.0 | 10.0 | 17.3 | 20 |
| | | | 5.0 | 3.73 | 8.0 | 10.0 | 10.0 | - | 10.0 | 10.0 | 22.6 | 25 |
| 019A00 | | 208-3-60 | 2.9 | 2.16 | 7.5 | 20.0 | 14.9 | - | 15.0 | 41.7 | 61.5 | 70 |
| | | | 3.7 | 2.76 | 10.2 | 20.0 | 14.9 | - | 15.0 | 41.7 | 64.9 | 70 |
| | | | 5.0 | 3.73 | 18.0 | 20.0 | 14.9 | - | 15.0 | 41.7 | 74.6 | 80 |
| | | | 7.5 | 5.59 | 23.5 | 20.0 | 14.9 | - | 15.0 | 41.7 | 81.5 | 90 |
| | | 240-3-60 | 2.9 | 2.16 | 7.5 | 20.0 | 19.9 | - | 20.0 | 48.1 | 69.5 | 70 |
| | | | 3.7 | 2.76 | 10.2 | 20.0 | 19.9 | - | 20.0 | 48.1 | 72.9 | 80 |
| | | | 5.0 | 3.73 | 18.0 | 20.0 | 19.9 | - | 20.0 | 48.1 | 82.6 | 90 |
| | | | 7.5 | 5.59 | 23.5 | 20.0 | 19.9 | - | 20.0 | 48.1 | 89.5 | 100 |
| 020A00 | | 480-3-60 | 2.9 | 2.16 | 3.4 | 20.0 | 20.0 | - | 20.0 | 24.1 | 34.3 | 35 |
| | | | 3.7 | 2.76 | 4.8 | 20.0 | 20.0 | - | 20.0 | 24.1 | 36.1 | 40 |
| | | | 5.0 | 3.73 | 9.1 | 20.0 | 20.0 | - | 20.0 | 24.1 | 41.4 | 50 |
| | | | 7.5 | 5.59 | 15.0 | 20.0 | 20.0 | - | 20.0 | 24.1 | 48.8 | 50 |
| 021A00 | | 575-3-60 | 3.0 | 2.24 | 3.8 | 20.0 | 20.0 | - | 20.0 | 20.1 | 29.9 | 30 |
| | | | 5.0 | 3.73 | 8.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 35.1 | 40 |
| | | | 7.5 | 5.59 | 10.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 37.6 | 40 |
| 022A00 | | 208-3-60 | 2.9 | 2.16 | 7.5 | 30.0 | 15.0 | 7.5 | 22.5 | 62.5 | 87.5 | 90 |
| | | | 3.7 | 2.76 | 10.2 | 30.0 | 15.0 | 7.5 | 22.5 | 62.5 | 90.9 | 100 |
| | | | 5.0 | 3.73 | 18.0 | 30.0 | 15.0 | 7.5 | 22.5 | 62.5 | 100.7 | 110 |
| | | | 7.5 | 5.59 | 23.5 | 30.0 | 15.0 | 7.5 | 22.5 | 62.5 | 107.5 | 110 |
| | | 240-3-60 | 2.9 | 2.16 | 7.5 | 30.0 | 20.0 | 10.0 | 30.0 | 72.2 | 99.6 | 100 |
| | | | 3.7 | 2.76 | 10.2 | 30.0 | 20.0 | 10.0 | 30.0 | 72.2 | 103.0 | 110 |
| | | | 5.0 | 3.73 | 18.0 | 30.0 | 20.0 | 10.0 | 30.0 | 72.2 | 112.7 | 125 |
| | | | 7.5 | 5.59 | 23.5 | 30.0 | 20.0 | 10.0 | 30.0 | 72.2 | 119.6 | 125 |
| 023A00 | | 480-3-60 | 2.9 | 2.16 | 3.4 | 30.0 | 20.0 | 10.0 | 30.0 | 36.1 | 49.4 | 50 |
| | | | 3.7 | 2.76 | 4.8 | 30.0 | 20.0 | 10.0 | 30.0 | 36.1 | 51.1 | 60 |
| | | | 5.0 | 3.73 | 9.1 | 30.0 | 20.0 | 10.0 | 30.0 | 36.1 | 56.5 | 60 |
| | | | 7.5 | 5.59 | 15.0 | 30.0 | 20.0 | 10.0 | 30.0 | 36.1 | 63.9 | 70 |
| 024A00 | | 575-3-60 | 3.0 | 2.24 | 3.8 | 30.0 | 20.0 | 10.0 | 30.0 | 30.1 | 42.4 | 50 |
| | | | 5.0 | 3.73 | 8.0 | 30.0 | 20.0 | 10.0 | 30.0 | 30.1 | 47.7 | 50 |
| | | | 7.5 | 5.59 | 10.0 | 30.0 | 20.0 | 10.0 | 30.0 | 30.1 | 50.2 | 60 |
| 025A00 | | 208-3-60 | 3.7 | 2.76 | 10.2 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 143.1 | 150 |
| | | | 5.0 | 3.73 | 18.0 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 152.8 | 175 |
| | | | 7.5 | 5.59 | 23.5 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 159.7 | 175 |
| | | 240-3-60 | 3.7 | 2.76 | 10.2 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 163.1 | 175 |
| | | | 5.0 | 3.73 | 18.0 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 172.9 | 175 |
| | | | 7.5 | 5.59 | 23.5 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 179.7 | 200 |
| 026A00 | | 480-3-60 | 3.7 | 2.76 | 4.8 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 81.2 | 90 |
| | | | 5.0 | 3.73 | 9.1 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 86.6 | 90 |
| | | | 7.5 | 5.59 | 15.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 93.9 | 100 |
| 027A00 | | 575-3-60 | 3.0 | 2.24 | 3.8 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 67.5 | 70 |
| | | | 5.0 | 3.73 | 8.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 72.8 | 80 |
| | | | 7.5 | 5.59 | 10.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 75.3 | 80 |

See: "Legend and Notes for Tables 5 and 6" on page 8.

Table 5 - Electric Heater Data - Single Speed Motor (cont)

| HEATER PART NO. CAELHEAT | SIZE | V-PH-Hz | FAN MOTOR | | | ELECTRIC HEATER(S) | | | | | MCA* | MOCP* |
|--------------------------------|------|----------|-----------|------|------|----------------------|----------------------|------------|-------|-------|-------|-------|
| | | | Hp | kW | FLA | Nom. Cap. (kW) | Actual Capacity (kW) | | | FLA | | |
| | | | | | | | Stage 1 | Stage 2 | Total | | | |
| 028A00 | | 208-3-60 | 7.5 | 5.59 | 23.5 | 20.0 | 14.9 | - | 15.0 | 41.7 | 81.5 | 90 |
| | | | 10.0 | 7.46 | 32.0 | 20.0 | 14.9 | - | 15.0 | 41.7 | 92.1 | 110 |
| | | 240-3-60 | 7.5 | 5.59 | 23.5 | 20.0 | 19.9 | - | 20.0 | 48.1 | 89.5 | 100 |
| | | | 10.0 | 7.46 | 32.0 | 20.0 | 19.9 | - | 20.0 | 48.1 | 100.1 | 110 |
| 029A00 | | 480-3-60 | 7.5 | 5.59 | 15.0 | 20.0 | 20.0 | - | 20.0 | 24.1 | 48.8 | 50 |
| | | | 10.0 | 7.46 | 16.0 | 20.0 | 20.0 | - | 20.0 | 24.1 | 50.1 | 60 |
| 030A00 | | 575-3-60 | 7.5 | 5.59 | 10.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 37.6 | 40 |
| | | | 10.0 | 7.46 | 13.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 41.4 | 50 |
| 031A00 | | 208-3-60 | 7.5 | 5.59 | 23.5 | 40.0 | 15.0 | 15.0 | 30.0 | 83.4 | 133.6 | 150 |
| | | | 10.0 | 7.46 | 32.0 | 40.0 | 15.0 | 15.0 | 30.0 | 83.4 | 144.2 | 150 |
| | | 240-3-60 | 7.5 | 5.59 | 23.5 | 40.0 | 20.0 | 20.0 | 40.0 | 96.2 | 149.7 | 150 |
| | | | 10.0 | 7.46 | 32.0 | 40.0 | 20.0 | 20.0 | 40.0 | 96.2 | 160.3 | 175 |
| 032A00 | | 480-3-60 | 7.5 | 5.59 | 15.0 | 40.0 | 20.0 | 20.0 | 40.0 | 48.1 | 78.9 | 80 |
| | | | 10.0 | 7.46 | 16.0 | 40.0 | 20.0 | 20.0 | 40.0 | 48.1 | 80.1 | 90 |
| 033A00 | | 575-3-60 | 7.5 | 5.59 | 10.0 | 40.0 | 20.0 | 20.0 | 40.0 | 40.2 | 62.7 | 70 |
| | | | 10.0 | 7.46 | 13.0 | 40.0 | 20.0 | 20.0 | 40.0 | 40.2 | 66.5 | 70 |
| 034A00 | | 208-3-60 | 7.5 | 5.59 | 23.5 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 159.7 | 175 |
| | | | 10.0 | 7.46 | 32.0 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 170.3 | 175 |
| | | 240-3-60 | 7.5 | 5.59 | 23.5 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 179.7 | 200 |
| | | | 10.0 | 7.46 | 32.0 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 190.4 | 200 |
| 035A00 | | 480-3-60 | 7.5 | 5.59 | 15.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 93.9 | 100 |
| | | | 10.0 | 7.46 | 16.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 95.2 | 100 |
| 036A00 | | 575-3-60 | 7.5 | 5.59 | 10.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 75.3 | 80 |
| | | | 10.0 | 7.46 | 13.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 79.0 | 80 |
| 037A00 | | 208-3-60 | 7.5 | 5.59 | 23.5 | 70.0 | 30.0 | 22.6 | 52.6 | 145.9 | 175.3 | 200 |
| | | | 10.0 | 7.46 | 32.0 | 70.0 | 30.0 | 22.6 | 52.6 | 145.9 | 185.9 | 200 |
| | | 240-3-60 | 7.5 | 5.59 | 23.5 | 70.0 | 40.0 | 30.0 | 70.0 | 168.4 | 197.8 | 225 |
| | | | 10.0 | 7.46 | 32.0 | 70.0 | 40.0 | 30.0 | 70.0 | 168.4 | 208.4 | 225 |
| 038A00 | | 480-3-60 | 7.5 | 5.59 | 15.0 | 70.0 | 40.0 | 30.0 | 70.0 | 84.2 | 102.9 | 110 |
| | | | 10.0 | 7.46 | 16.0 | 70.0 | 40.0 | 30.0 | 70.0 | 84.2 | 104.2 | 110 |
| 039A00 | | 575-3-60 | 7.5 | 5.59 | 10.0 | 70.0 | 40.0 | 30.0 | 70.0 | 70.3 | 82.8 | 90 |
| | | | 10.0 | 7.46 | 13.0 | 70.0 | 40.0 | 30.0 | 70.0 | 70.3 | 86.5 | 90 |

See: "Legend and Notes for Tables 5 and 6" on page 8.

Table 6 – Electric Heater Data - 2-Speed Motor

| HEATER PART NO. CAELHEAT | SIZE | V-PH-Hz | FAN MOTOR | | | ELECTRIC HEATER(S) | | | | | MCA* | MOCP* | |
|--------------------------|------------------------|----------|-----------|------|------|--------------------|----------------------|---------|-------|-------|-------|-------|-----|
| | | | | | | Nom. Cap. (kW) | Actual Capacity (kW) | | | FLA | | | |
| | | | Hp | kW | FLA | | Stage 1 | Stage 2 | Total | | | | |
| 016A00 | 40RUA/Q 40RUS 25 | 208-3-60 | 5.0 | 3.73 | 18.0 | 10.0 | 7.5 | - | 7.5 | 20.8 | 48.6 | 60 | |
| | | | 7.5 | 5.59 | 23.5 | 10.0 | 7.5 | - | 7.5 | 20.8 | 55.4 | 70 | |
| 240-3-60 | | 5.0 | 3.73 | 18.0 | 10.0 | 10.0 | - | 10.0 | 24.1 | 52.6 | 60 | | |
| | | 7.5 | 5.59 | 23.5 | 10.0 | 10.0 | - | 10.0 | 24.1 | 59.4 | 70 | | |
| 017A00 | | 480-3-60 | 5.0 | 3.73 | 9.1 | 10.0 | 10.0 | - | 10.0 | 12.0 | 26.4 | 30 | |
| | | | 7.5 | 5.59 | 15.0 | 10.0 | 10.0 | - | 10.0 | 12.0 | 33.8 | 40 | |
| 018A00 | | 575-3-60 | 5.0 | 3.73 | 8.0 | 10.0 | 10.0 | - | 10.0 | 10.0 | 22.6 | 25 | |
| | | | 7.5 | 5.59 | 10.0 | 10.0 | 10.0 | - | 10.0 | 10.0 | 25.1 | 30 | |
| 019A00 | | 208-3-60 | 5.0 | 3.73 | 18.0 | 20.0 | 15.0 | - | 15.0 | 41.7 | 74.6 | 80 | |
| | | | 7.5 | 5.59 | 23.5 | 20.0 | 15.0 | - | 15.0 | 41.7 | 81.5 | 90 | |
| | | | 240-3-60 | 5.0 | 3.73 | 18.0 | 20.0 | 20.0 | - | 20.0 | 48.1 | 82.6 | 90 |
| | | | | 7.5 | 5.59 | 23.5 | 20.0 | 20.0 | - | 20.0 | 48.1 | 89.5 | 100 |
| 020A00 | 480-3-60 | 5.0 | 3.73 | 9.1 | 20.0 | 19.9 | - | 20.0 | 24.1 | 41.4 | 50 | | |
| 7.5 | | 5.59 | 15.0 | 20.0 | 19.9 | - | 20.0 | 24.1 | 48.8 | 50 | | | |
| 021A00 | 575-3-60 | 5.0 | 3.73 | 8.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 35.1 | 40 | | |
| 7.5 | | 5.59 | 10.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 37.6 | 40 | | | |
| 022A00 | 208-3-60 | 5.0 | 3.73 | 18.0 | 30.0 | 15.0 | 7.5 | 22.5 | 62.5 | 100.7 | 110 | | |
| | | 7.5 | 5.59 | 23.5 | 30.0 | 15.0 | 7.5 | 22.5 | 62.5 | 107.5 | 110 | | |
| | | 240-3-60 | 5.0 | 3.73 | 18.0 | 30.0 | 20.0 | 10.0 | 30.0 | 72.2 | 112.7 | 125 | |
| | | | 7.5 | 5.59 | 23.5 | 30.0 | 20.0 | 10.0 | 30.0 | 72.2 | 119.6 | 125 | |
| 023A00 | 480-3-60 | 5.0 | 3.73 | 9.1 | 30.0 | 20.0 | 10.0 | 30.0 | 36.1 | 56.5 | 60 | | |
| | | 7.5 | 5.59 | 15.0 | 30.0 | 20.0 | 10.0 | 30.0 | 36.1 | 63.9 | 70 | | |
| 024A00 | 575-3-60 | 5.0 | 3.73 | 8.0 | 30.0 | 20.0 | 10.0 | 30.0 | 30.1 | 47.7 | 50 | | |
| | | 7.5 | 5.59 | 10.0 | 30.0 | 20.0 | 10.0 | 30.0 | 30.1 | 50.2 | 60 | | |
| 025A00 | 208-3-60 | 5.0 | 3.73 | 18.0 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 152.8 | 175 | | |
| | | 7.5 | 5.59 | 23.5 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 159.7 | 175 | | |
| | | 240-3-60 | 5.0 | 3.73 | 18.0 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 172.9 | 175 | |
| | | | 7.5 | 5.59 | 23.5 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 179.7 | 200 | |
| 026A00 | 480-3-60 | 5.0 | 3.73 | 9.1 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 86.6 | 90 | | |
| | | 7.5 | 5.59 | 15.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 93.9 | 100 | | |
| 027A00 | 575-3-60 | 5.0 | 3.73 | 8.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 72.8 | 80 | | |
| | | 7.5 | 5.59 | 10.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 75.3 | 80 | | |
| 028A00 | 40RUA/S 28 | 208-3-60 | 7.5 | 5.59 | 23.5 | 20.0 | 15.0 | - | 15.0 | 41.7 | 81.5 | 90 | |
| | | 240-3-60 | 7.5 | 5.59 | 23.5 | 20.0 | 20.0 | - | 20.0 | 48.1 | 89.5 | 100 | |
| | | 208-3-60 | 10.0 | 7.46 | 32.0 | 20.0 | 15.0 | - | 15.0 | 41.7 | 92.1 | 110 | |
| | | 240-3-60 | 10.0 | 7.46 | 32.0 | 20.0 | 20.0 | - | 20.0 | 48.1 | 100.1 | 110 | |
| | 40RUA/S 30 | 208-3-60 | 10.0 | 7.46 | 32.0 | 20.0 | 15.0 | - | 15.0 | 41.7 | 92.1 | 110 | |
| | | 240-3-60 | 10.0 | 7.46 | 32.0 | 20.0 | 20.0 | - | 20.0 | 48.1 | 100.1 | 110 | |
| 029A00 | 40RUA/S 28 | 480-3-60 | 7.5 | 5.59 | 15.0 | 20.0 | 20.0 | - | 20.0 | 24.1 | 48.8 | 50 | |
| | | 10.0 | 7.46 | 16.0 | 20.0 | 20.0 | - | 20.0 | 24.1 | 50.1 | 60 | | |
| 40RUA/S 30 | 480-3-60 | 10.0 | 7.46 | 16.0 | 20.0 | 20.0 | - | 20.0 | 24.1 | 50.1 | 60 | | |
| | | 7.5 | 5.59 | 10.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 37.6 | 40 | | |
| 030A00 | 40RUA/S 28 | 575-3-60 | 7.5 | 5.59 | 10.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 37.6 | 40 | |
| | | | 10.0 | 7.46 | 13.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 41.4 | 50 | |
| | 40RUA/S 30 | 575-3-60 | 10.0 | 7.46 | 13.0 | 20.0 | 20.0 | - | 20.0 | 20.1 | 41.4 | 50 | |
| | | | 7.5 | 5.59 | 23.5 | 40.0 | 15.0 | 15.0 | 30.0 | 83.4 | 133.6 | 150 | |
| 031A00 | 40RUA/S 28 | 208-3-60 | 10.0 | 7.46 | 32.0 | 40.0 | 15.0 | 15.0 | 30.0 | 83.4 | 144.2 | 150 | |
| | | | 7.5 | 5.59 | 23.5 | 40.0 | 15.0 | 15.0 | 30.0 | 83.4 | 133.6 | 150 | |
| | 40RUA/S 30 | 240-3-60 | 10.0 | 7.46 | 32.0 | 40.0 | 15.0 | 15.0 | 40.0 | 96.2 | 160.3 | 175 | |
| | | | 7.5 | 5.59 | 23.5 | 40.0 | 20.0 | 20.0 | 30.0 | 83.4 | 133.6 | 150 | |
| | 40RUA/S 28 | 208-3-60 | 10.0 | 7.46 | 32.0 | 40.0 | 20.0 | 20.0 | 30.0 | 83.4 | 144.2 | 150 | |
| | | | 7.5 | 5.59 | 23.5 | 40.0 | 20.0 | 20.0 | 30.0 | 83.4 | 144.2 | 150 | |
| 40RUA/S 30 | 240-3-60 | 10.0 | 7.46 | 32.0 | 40.0 | 20.0 | 20.0 | 40.0 | 96.2 | 160.3 | 175 | | |

See: "Legend and Notes for Tables 5 and 6" on page 8.

Table 6 - Electric Heater Data - 2-Speed Motor (cont)

| HEATER PART NO. CAELHEAT | SIZE | V-PH-Hz | FAN MOTOR | | | ELECTRIC HEATER(S) | | | | | MCA* | MOCP* |
|--------------------------|---------------|----------|-----------|------|------|--------------------|----------------------|---------|-------|-------|-------|-------|
| | | | | | | Nom. Cap. (kW) | Actual Capacity (kW) | | | FLA | | |
| | | | Hp | kW | FLA | | Stage 1 | Stage 2 | Total | | | |
| 032A00 | 40RUA/S 28 | 480-3-60 | 7.5 | 5.59 | 15.0 | 40.0 | 20.0 | 20.0 | 40.0 | 48.1 | 78.9 | 80 |
| | | | 10.0 | 7.46 | 16.0 | 40.0 | 20.0 | 20.0 | 40.0 | 48.1 | 80.1 | 90 |
| 033A00 | 40RUA/S 30 | 480-3-60 | 10.0 | 7.46 | 16.0 | 40.0 | 20.0 | 20.0 | 40.0 | 48.1 | 80.1 | 90 |
| | | | 10.0 | 7.46 | 16.0 | 40.0 | 20.0 | 20.0 | 40.0 | 48.1 | 80.1 | 90 |
| 033A00 | 40RUA/S28 | 575-3-60 | 7.5 | 5.59 | 10.0 | 40.0 | 20.0 | 20.0 | 40.0 | 40.2 | 62.7 | 70 |
| | | | 10.0 | 7.46 | 13.0 | 40.0 | 20.0 | 20.0 | 40.0 | 40.2 | 66.5 | 70 |
| 033A00 | 40RUA/S 30 | 575-3-60 | 10.0 | 7.46 | 13.0 | 40.0 | 20.0 | 20.0 | 40.0 | 40.2 | 66.5 | 70 |
| | | | 10.0 | 7.46 | 13.0 | 40.0 | 20.0 | 20.0 | 40.0 | 40.2 | 66.5 | 70 |
| 034A00 | 40RUA/S 28 | 208-3-60 | 7.5 | 5.59 | 23.5 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 159.7 | 175 |
| | | | 10.0 | 7.46 | 32.0 | 50.0 | 22.6 | 15.0 | 37.6 | 104.3 | 170.3 | 175 |
| | 40RUA/S 30 | 240-3-60 | 10.0 | 7.46 | 32.0 | 50.0 | 22.6 | 15.0 | 50.0 | 120.3 | 190.4 | 200 |
| | | | 7.5 | 5.59 | 23.5 | 50.0 | 30.0 | 20.0 | 37.6 | 104.3 | 159.7 | 175 |
| 034A00 | 40RUA/S 28 | 208-3-60 | 10.0 | 7.46 | 32.0 | 50.0 | 30.0 | 20.0 | 37.6 | 104.3 | 170.3 | 175 |
| | | | 10.0 | 7.46 | 32.0 | 50.0 | 30.0 | 20.0 | 37.6 | 104.3 | 170.3 | 175 |
| 034A00 | 40RUA/S 30 | 240-3-60 | 10.0 | 7.46 | 32.0 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 190.4 | 200 |
| | | | 10.0 | 7.46 | 32.0 | 50.0 | 30.0 | 20.0 | 50.0 | 120.3 | 190.4 | 200 |
| 035A00 | 40RUA/S 28 | 480-3-60 | 7.5 | 5.59 | 15.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 93.9 | 100 |
| | | | 10.0 | 7.46 | 16.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 95.2 | 100 |
| | 40RUA/S 30 | 480-3-60 | 10.0 | 7.46 | 16.0 | 50.0 | 30.0 | 20.0 | 50.0 | 60.1 | 95.2 | 100 |
| 036A00 | 40RUA/S 28 | 575-3-60 | 7.5 | 5.59 | 10.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 75.3 | 80 |
| | | | 10.0 | 7.46 | 13.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 79.0 | 80 |
| | 40RUA/S 30 | 575-3-60 | 10.0 | 7.46 | 13.0 | 50.0 | 30.0 | 20.0 | 50.0 | 50.2 | 79.0 | 80 |
| 037A00 | 40RUA/S 28 | 208-3-60 | 7.5 | 5.59 | 23.5 | 70.0 | 30.0 | 22.6 | 52.6 | 145.9 | 175.3 | 200 |
| | | | 10.0 | 7.46 | 32.0 | 70.0 | 30.0 | 22.6 | 52.6 | 145.9 | 185.9 | 200 |
| | 40RUA/S 30 | 208-3-60 | 10.0 | 7.46 | 32.0 | 70.0 | 30.0 | 22.6 | 52.6 | 145.9 | 185.9 | 200 |
| | | | 7.5 | 5.59 | 23.5 | 70.0 | 40.0 | 30.0 | 70.0 | 168.4 | 197.8 | 225 |
| | 40RUA/S 28 | 240-3-60 | 10.0 | 7.46 | 32.0 | 70.0 | 40.0 | 30.0 | 70.0 | 168.4 | 208.4 | 225 |
| 40RUA/S 30 | 240-3-60 | 10.0 | 7.46 | 32.0 | 70.0 | 40.0 | 30.0 | 70.0 | 168.4 | 208.4 | 225 | |
| 038A00 | 40RUA/S 28 | 480-3-60 | 7.5 | 5.59 | 15.0 | 70.0 | 40.0 | 30.0 | 70.0 | 84.2 | 102.9 | 110 |
| | | | 10.0 | 7.46 | 16.0 | 70.0 | 40.0 | 30.0 | 70.0 | 84.2 | 104.2 | 110 |
| | 40RUA/S 30 | 480-3-60 | 10.0 | 7.46 | 16.0 | 70.0 | 40.0 | 30.0 | 70.0 | 84.2 | 104.2 | 110 |
| 039A00 | 40RUA/S 28 | 575-3-60 | 7.5 | 5.59 | 10.0 | 70.0 | 40.0 | 30.0 | 70.0 | 70.3 | 82.8 | 90 |
| | | | 10.0 | 7.46 | 13.0 | 70.0 | 40.0 | 30.0 | 70.0 | 70.3 | 86.5 | 90 |
| | 40RUA/S 30 | 575-3-60 | 10.0 | 7.46 | 13.0 | 70.0 | 40.0 | 30.0 | 70.0 | 70.3 | 86.5 | 90 |

See: "Legend and Notes for Tables 5 and 6" on page 8.

Legend and Notes for Tables 5 and 6

LEGEND

- FLA** — Full Load Amps
- Hp** — Horsepower
- MCA** — Minimum Circuit Amps
- MOCP** — Maximum Overcurrent Protection (Amps)

* Values shown are for single-point connection of electric heat accessory and air handler.

† Single-phase motors. All other motors are 3-phase.

NOTES:

1. Electrical resistance heaters are rated at 240 v, 480 v, or 575 v. To determine heater capacity (kW) at unit nameplate multiply the 240-v, 480-v, or 575-v capacity (kW) by the factor shown in the table below for the unit voltage.

| HEATER RATING VOLTAGE | ACTUAL HEATER VOLTAGE | | | | | | | | | | |
|-----------------------|-----------------------|-------|-------|-----|-------|------|-------|-----|-------|-----|-------|
| | 200 | 208 | 230 | 240 | 400 | 440 | 460 | 480 | 550 | 575 | 600 |
| 240 | 0.694 | 0.751 | 0.918 | 1 | — | — | — | — | — | — | — |
| 480 | — | — | — | — | 0.694 | 0.84 | 0.918 | 1 | — | — | — |
| 575 | — | — | — | — | — | — | — | — | 0.915 | 1 | 1.089 |

2. The following equation converts kW of heat energy to Btuh: kW x 3,412 = Btuh.
3. Heater contactor coils are 24 v and require 8 va holding current.
4. Electric heaters are tested and ETL approved at maximum total external static pressure of 1.9 in. wg.
5. MCA and MOCP values apply to both standard and alternate factory-supplied motors.
6. Approximate shipping weight for CAELHEAT001A00-015A00 is 55 lb (25 kg) each. Approximate shipping weight for CAELHEAT016A00-027A00 is 60 lb (27 kg) each, and CAELHEAT028A00-039A00 is 75 lb (34 kg) each.

