

YORK Technical Guide: JMC Series

Variable Speed ECM Modular Multi-position Air Handlers - 208/230 V Single-Phase and Three-Phase



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6523680-YTG-A-0624

Supersedes: Nothing

Α

2024-06-18

Contents

| Description | 5 |
|--|----|
| Certification | 5 |
| Features | 5 |
| Accessories | 7 |
| Nomenclature | 9 |
| Dimensions | 10 |
| Cooling capacity | 11 |
| Modular blower and indoor coil matches | 14 |
| Physical and electrical data | 15 |
| Electrical data - cooling only | 15 |
| Electrical heat - minimum fan speed | 16 |
| Application limitations | 18 |
| Electric heat performance data | 19 |
| Electrical data for single-source power supply, 208/230-1-60 | 20 |
| Electrical data for multi-source power supply, 208/230-1-60 | 21 |
| Electrical data for single-source power supply, 208/230-3-60 | 22 |
| Electrical data for multi-source power supply, 208/230-3-60 | 23 |
| Power wiring | 24 |
| Airflow data | 25 |

Description

The modular air handler series provides the flexibility for installation in any position. This unit can be used for upflow, downflow, horizontal right, or horizontal left applications. These units may be located in a closet, utility room, attic, crawl space, or basement. These versatile models can be used for cooling, or for heat pump operation with or without electric heat.

They can be combined with cased coils to function as a cooling only unit or with a heat pump including electric heat for 208-230-1 phase applications and 208-230-3 phase applications.

Top or side power and control wiring, color-coded leads for control wiring, and electric heaters all combine to make the installation easy and minimize installation cost.

Electric heat kits are available as field installed accessories. Single-phase kits are available from 2 kW to 25 kW. 208/230 V three-phase kits are available from 10 kW to 25 kW. The JMC blower and 8HK electric heater kits can be used as stand alone electric furnaces.

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Additional rating information can be found at www.ahridirectory.org.

Due to continuous product improvement, specifications are subject to change without notice. **This document is only for distribution use - it is not to be used at point of retail sale.**

Certification





Assembled at a facility with an ISO 9001:2015-certified Quality Management System

Features

Next generation high-efficiency blower

Delivers increased airflow and reduces blower watts by 10%, using a variable speed ECM motor

Variable speed operation

Provides flexibility in application as well as upgraded system efficiency

Next generation insulation and gasket design

Reduces thermal transmission paths and reduces sweating

Electric heat kit

8HK field-installed series available for easy installation and service application

Two-stage operation

Provides flexibility in application with single and two-stage outdoor equipment

Modular blower control board

The control board can be controlled with a standard (conventional) thermostat or with a HX communicating control

Designed for easy installation and service

A casing size of 20.5 in., smooth sides, and rigid construction provide ease access to, for example, attic space and tight applications. In addition, front-facing components, a slide-out blower, laser cut knock outs, and integrated duct flanges help to shorten the install time.

Cabinet air leakage

Less than 2% at 1 in. W.C. external static pressure when tested in accordance with ASHRAE Standard 193

Long lasting quality

Structural components made of post powder painted steel or galvanized steel to prevent corrosion

Accessories

Refer to the *Price Manual* for specific model numbers.

Table 1: Accessories

| Single source power accessory (three-phase) | |
|---|---|
| S1-32436041000 | Contains a terminal block and wiring to connect |
| | service disconnects together. |

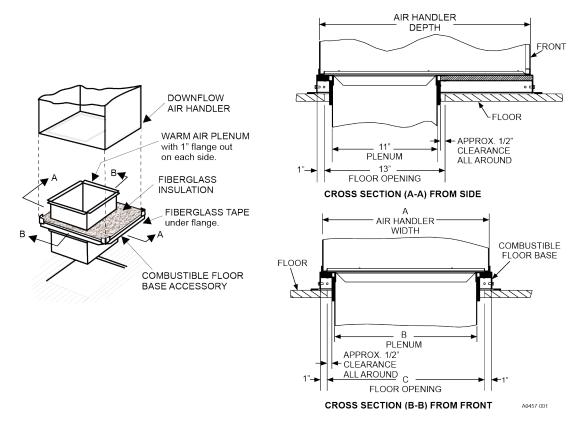
Electric heaters

8HK models shown under electrical data include sequential operation and temperature dual limit switches for safe, efficient operation. Service disconnects are provided where shown.

Combustible floor base accessory

If an electric heat accessory rated for greater than zero clearance to combustible surfaces is installed in these air handlers in the downflow operating positions on a combustible floor, one of the following combustible floor base accessory models is required: S1-1FB1917, S1-1FB1921, S1-1FB1924. See Figure 1.

Figure 1: Combustible floor base accessory



| Floor base model | Used with | Dimensions | | | | |
|------------------|----------------|------------|------|------|--|--|
| | | A | В | С | | |
| 1FB1917 | JMC12B | 17.5 | 14.0 | 16.0 | | |
| 1FB1921 | JMC16C, JMC17C | 21.0 | 17.5 | 19.5 | | |
| 1FB1924 | JMC20D | 24.5 | 21.0 | 23.0 | | |

Breaker moisture seal accessory

A clear circuit breaker moisture barrier seals the breakers from humidity and dust. The flexibility of the clear cover allows circuit breakers to be turned ON or OFF without removing the cover. The cover firmly attaches to the access panel around the circuit breakers with the use of double backed adhesive tape. To ensure that moisture or dust does not contaminate circuit breakers, an S1-02435672000, circuit breaker, cover seal may be ordered.

Thermostat

Compatible thermostat controls are available through accessory sourcing. For optimum performance, these indoor units are fully compatible with our residential $Hx^{\text{\tiny{M}}}$ Touch Screen Thermostat with proprietary hexagon interface. For more information, see the thermostat section of the Product Equipment Catalog.

Filter rack

Filtration must be installed external to the unit using an accessory filter rack kit. See the filter rack dimensions in Figure 2.

Figure 2: Filter rack dimensions

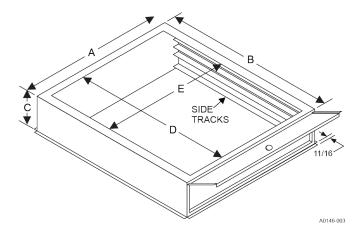


Table 2: Filter rack dimensions

| Galvanised model | A | В | С | D | E | Filter size | | |
|---------------------|-----------------------------------|-------|---|-------|-------|------------------|--|--|
| 1BR01117 | 17.5 | 21.56 | 4 | 18.63 | 14.25 | 16 x 20 x 1 or 2 | | |
| 1BR01121 | 21 | 21.56 | 4 | 18.63 | 17.75 | 20 x 20 x 1 or 2 | | |
| 1BR01124 | 24.5 | 21.56 | 4 | 18.63 | 21.25 | 20 x 24 x 1 or 2 | | |
| û Note: ⊺ | Note: The filter is not supplied. | | | | | | | |

Nomenclature

Table 3: Nomenclature for JMC air handler models

| Number | Category | Option | Description |
|--------|-------------------------------|--------|--------------------------|
| 1 | Product type | J | Air handler |
| 2 | Air handler type | М | Modular |
| 3 | Motor type | E | Constant torque |
| | | С | Constant CFM |
| | | V | Variable speed ECM |
| 4, 5 | Nominal airflow | 08 | 800 |
| | | 10 | 1000 |
| | | 12 | 1200 |
| | | 14 | 1400 |
| | | 16 | 1600 |
| | | 18 | 1800 |
| | | 20 | 2000 |
| 6 | Cabinet width | A | 14.5 in. |
| | | В | 17.5 in. |
| | | С | 21.0 in. |
| | | D | 24.5 in. |
| | | E | 19.6 in. |
| | | F | 22.0 in. |
| 7 | Voltage (voltage-phase-hertz) | 2 | 208/230-1-60 |
| | | 3 | 208/230-3-60 |
| | | 4 | 460-3-60 |
| 8 | Control strategy | С | Communicating |
| | | В | Wireless (communicating) |
| | | S | Standard (conventional) |
| | | W | Wireless (conventional) |
| 9 | Accessories | S | A2L sensor |
| | | N | None (no sensor) |
| 10 | Generation (major revision) | 1 | First generation |
| | | 2 | Second generation |
| | | 3 | Third generation |
| | | 4 | Fourth generation |
| 11 | Style letter (minor revision) | А | Style A |
| | not used for ordering | В | Style B |
| | | С | Style C |
| | | D | Style D |

Table 4: Model nomenclature example

| Number | 1 | 2 | 3 | 4, 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--------|---|---|---|------|---|---|---|---|----|----|
| Option | J | M | С | 12 | В | 2 | S | N | 1 | Α |

Example:

The JMC12B2SN1 is a conventional modular air handler using constant CFM. The nominal airflow is 1200. The voltage is 208/230-1-60. There is no sensor on this Style-A model.

Dimensions

Figure 3: Dimensions and duct connection dimensions

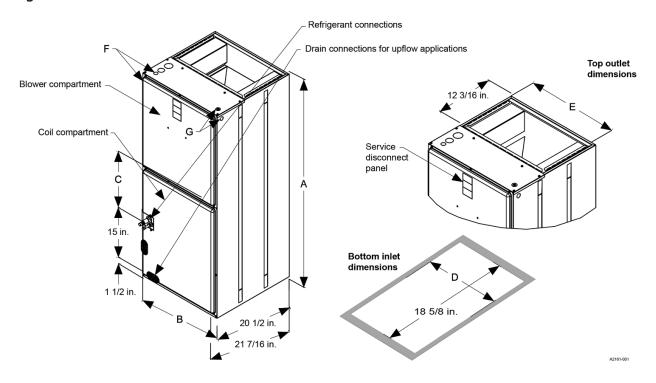


Table 5: Dimensions

| Model | Dimensions | | Wiring knockou conduit size) | Wiring knockouts (actual conduit size) | | |
|------------|--------------|-------------|---------------------------------|--|-----------------|---------------|
| | Α | В | С | D | E | F |
| | Height (in.) | Width (in.) | Opening width (in.) | | Power (in.) | Control (in.) |
| JMC12B2SN1 | 22 3/4 | 17 1/2 | 10 1/2 | 13 1/2 | 7/8 (1/2) 1 3/8 | 7/8 (1/2) |
| JMC16C2SN1 | 22 3/4 | 21 | 13 1/4 | 16 1/2 | (1) 1 23/32 (1 | |
| JMC17C2SN1 | 22 3/4 | 21 | 13 1/4 | 16 1/2 | 1/4) | |
| JMC20D2SN1 | 22 3/4 | 24 1/2 | 14 1/2 | 20 | | |

Cooling capacity

Table 6: Cooling capacity: CTF coils

| Model | Rated CFM | | MBH at evaporation temperature and corresponding R-454B | | | | |
|---------------|-----------|---------------|---|----------|----------|----------|--|
| | | bulb/wet bulb | pressure (°F/psig) | | | | |
| | | (°F) | 35/107.9 | 40/118.9 | 45/130.7 | 50/143.3 | |
| CTF18A5*A | 600 | 85/72 | 43.1 | 38.6 | 33.4 | 27.9 | |
| | | 80/67 | 35.0 | 30.3 | 25.2 | 19.6 | |
| | | 75/62 | 27.5 | 22.8 | 17.8 | 11.9 | |
| | 70/57 | 20.8 | 16.1 | 11.0 | 8.5 | | |
| CTF24A5*B 800 | 600 | 85/72 | 43.1 | 38.6 | 33.4 | 27.9 | |
| | | 80/67 | 35.0 | 30.3 | 25.2 | 19.6 | |
| | | 75/62 | 27.5 | 22.8 | 17.8 | 11.9 | |
| | | 70/57 | 20.8 | 16.1 | 11.0 | 8.5 | |
| CTF24A5*B | 800 | 85/72 | 56.0 | 50.0 | 43.3 | 35.9 | |
| C1121/10 B | | 80/67 | 45.5 | 39.5 | 32.6 | 25.2 | |
| | | 75/62 | 36.0 | 29.8 | 23.0 | 15.4 | |
| | | 70/57 | 27.3 | 21.0 | 14.8 | 11.4 | |
| CTF24B5*B | 800 | 85/72 | 56.0 | 50.0 | 43.3 | 35.9 | |
| | | 80/67 | 45.5 | 39.5 | 32.6 | 25.2 | |
| | | 75/62 | 36.0 | 29.8 | 23.0 | 15.4 | |
| | | 70/57 | 27.3 | 21.0 | 14.8 | 11.4 | |
| CTF30B5*C | 1000 | 85/72 | 66.1 | 60.1 | 52.9 | 44.6 | |
| | | 80/67 | 54.6 | 48.2 | 40.2 | 31.9 | |
| | | 75/62 | 43.9 | 36.9 | 29.1 | 19.0 | |
| | | 70/57 | 33.8 | 26.6 | 19.0 | 14.8 | |
| CTF30C5*C | 1000 | 85/72 | 66.1 | 60.1 | 52.9 | 44.6 | |
| 2113003 0 | 1000 | 80/67 | 54.6 | 48.2 | 40.2 | 31.9 | |
| | | 75/62 | 43.9 | 36.9 | 29.1 | 19.0 | |
| | | 70/57 | 33.8 | 26.6 | 19.0 | 14.8 | |
| CTF30A5*D 100 | 1000 | 85/72 | 72.4 | 65.0 | 56.6 | 47.2 | |
| CITOUAS D | 1000 | 80/67 | 59.0 | 51.4 | 42.7 | 33.2 | |
| | | 75/62 | 46.8 | 39.0 | 30.2 | 19.9 | |
| | | 70/57 | 35.6 | 27.4 | 19.2 | 14.8 | |
| CTC2CDC+D | 1200 | | | | | | |
| CTF36B5*D | 1200 | 85/72 | 86.0 | 77.6 | 68.0 | 57.1 | |
| | | 80/67 | 70.6 | 61.7 | 52.0 | 40.7 | |
| | | 75/62 | 56.4 | 47.2 | 37.2 | 24.7 | |
| | | 70/57 | 43.1 | 33.8 | 23.9 | 18.6 | |
| CTF36C5*D | 1200 | 85/72 | 86.0 | 77.6 | 68.0 | 57.1 | |
| | | 80/67 | 70.6 | 61.7 | 52.0 | 40.7 | |
| | | 75/62 | 56.4 | 47.2 | 37.2 | 24.7 | |
| | | 70/57 | 43.1 | 33.8 | 23.9 | 18.6 | |
| CTF36B5*E | 1200 | 85/72 | 85.2 | 77.0 | 67.7 | 57.2 | |
| | | 80/67 | 70.2 | 61.5 | 51.9 | 41.1 | |
| | | 75/62 | 56.3 | 47.1 | 37.3 | 25.1 | |
| | | 70/57 | 43.2 | 34.0 | 24.0 | 18.9 | |
| CTF42C5*E | 1400 | 85/72 | 93.5 | 84.6 | 74.6 | 62.9 | |
| | | 80/67 | 77.1 | 67.8 | 57.4 | 45.4 | |
| | | 75/62 | 62.0 | 52.2 | 41.5 | 27.3 | |
| | | 70/57 | 47.8 | 37.8 | 27.1 | 21.3 | |
| CTF48C5*F | 1600 | 85/72 | 95.4 | 86.1 | 75.5 | 63.0 | |
| | | 80/67 | 78.5 | 68.7 | 57.7 | 45.0 | |
| | | 75/62 | 62.9 | 44.6 | 41.5 | 27.7 | |
| | | 70/57 | 48.4 | 38.1 | 27.5 | 21.0 | |

Table 6: Cooling capacity: CTF coils

| Model | Rated CFM | Entering air dry | MBH at evap | oration tempera | ture and corresp | onding R-454B |
|----------------|-----------|------------------|--------------------|-----------------|------------------|---------------|
| | | bulb/wet bulb | pressure (°F/psig) | | | |
| | | (°F) | 35/107.9 | 40/118.9 | 45/130.7 | 50/143.3 |
| CTF48D5*F 1600 | 1600 | 85/72 | 95.4 | 86.1 | 75.5 | 63.0 |
| | | 80/67 | 78.5 | 68.7 | 57.7 | 45.0 |
| | | 75/62 | 62.9 | 44.6 | 41.5 | 27.7 |
| | | 70/57 | 48.4 | 38.1 | 27.5 | 21.0 |
| CTF60C5*G | 1600 | 85/72 | 115.6 | 104.2 | 91.0 | 76.2 |
| | | 80/67 | 94.9 | 82.8 | 67.4 | 54.3 |
| | | 75/62 | 75.6 | 63.1 | 49.4 | 33.6 |
| | | 70/57 | 57.9 | 45.1 | 32.1 | 24.8 |
| CTF60D5*G | 1800 | 85/72 | 115.6 | 104.2 | 91.0 | 76.2 |
| | | 80/67 | 94.9 | 82.8 | 67.4 | 54.3 |
| | | 75/62 | 75.6 | 63.1 | 49.4 | 33.6 |
| | | 70/57 | 57.9 | 45.1 | 32.1 | 24.8 |
| CTF60C5*H | 1800 | 85/72 | 113.0 | 102.6 | 90.1 | 75.7 |
| | | 80/67 | 93.2 | 82.1 | 68.8 | 54.3 |
| | | 75/62 | 74.7 | 62.9 | 49.4 | 33.4 |
| | | 70/57 | 57.5 | 45.1 | 32.2 | 25.1 |
| CTF60D5*H | 1800 | 85/72 | 113.0 | 102.6 | 90.1 | 75.7 |
| | | 80/67 | 93.2 | 82.1 | 68.8 | 54.3 |
| | | 75/62 | 74.7 | 62.9 | 49.4 | 33.4 |
| | | 70/57 | 57.5 | 45.1 | 32.2 | 25.1 |
| CTF60D5*J | 1800 | 85/72 | 111.3 | 100.0 | 87.1 | 72.3 |
| | | 80/67 | 91.5 | 79.6 | 66.3 | 51.3 |
| | | 75/62 | 73.1 | 60.9 | 46.9 | 32.6 |
| | | 70/57 | 56.1 | 43.0 | 32.5 | 25.0 |

Note:

- Actual capacity varies with the outdoor air conditioning unit or heat pump that is used with the system. See the Condensing Unit or the Heat Pump Technical Guide for total cooling capacity and sensible capacity.
- Airflow is calculated for each system tonnage.

Table 7: Cooling capacity: CTM coils

| Model | Rated CFM | Entering air dry | MBH at evaporation temperature and corresponding R-454B | | | | |
|-----------|-----------|------------------|---|----------|----------|----------|--|
| | | bulb/wet bulb | pressure (°F/psig) | | | | |
| | | (°F) | 35/107.9 | 40/118.9 | 45/130.7 | 50/143.3 | |
| CTM18A5*A | 600 | 85/72 | 43.1 | 38.6 | 33.4 | 27.9 | |
| | | 80/67 | 35.0 | 30.3 | 25.2 | 19.6 | |
| | | 75/62 | 27.5 | 22.8 | 17.8 | 11.9 | |
| | | 70/57 | 20.8 | 16.1 | 11.0 | 8.5 | |
| CTM24A5*B | 800 | 85/72 | 56.0 | 50.0 | 43.3 | 35.9 | |
| | | 80/67 | 45.5 | 39.5 | 32.6 | 25.2 | |
| | | 75/62 | 36.0 | 29.8 | 23.0 | 15.4 | |
| | | 70/57 | 27.3 | 21.0 | 14.8 | 11.4 | |
| CTM24B5*B | 800 | 85/72 | 56.0 | 50.0 | 43.3 | 35.9 | |
| | | 80/67 | 45.5 | 39.5 | 32.6 | 25.2 | |
| | | 75/62 | 36.0 | 29.8 | 23.0 | 15.4 | |
| | | 70/57 | 27.3 | 21.0 | 14.8 | 11.4 | |
| CTM30B5*C | 1000 | 85/72 | 66.1 | 60.1 | 52.9 | 44.6 | |
| | | 80/67 | 54.6 | 48.2 | 40.2 | 31.9 | |
| | | 75/62 | 43.9 | 36.9 | 29.1 | 19.0 | |
| | | 70/57 | 33.8 | 26.6 | 19.0 | 14.8 | |

Table 7: Cooling capacity: CTM coils

| Model | Rated CFM | Entering air dry bulb/wet bulb | / MBH at evaporation temperature and corresponding R-454B pressure (°F/psig) | | | | |
|-----------|-----------|-----------------------------------|--|----------|----------|----------|--|
| | | (°F) | 35/107.9 | 40/118.9 | 45/130.7 | 50/143.3 | |
| CTM30C5*C | 1000 | 85/72 | 66.1 | 60.1 | 52.9 | 44.6 | |
| | | 80/67 | 54.6 | 48.2 | 40.2 | 31.9 | |
| | | 75/62 | 43.9 | 36.9 | 29.1 | 19.0 | |
| | | 70/57 | 33.8 | 26.6 | 19.0 | 14.8 | |
| CTM36B5*D | 1200 | 85/72 | 86.0 | 77.6 | 68.0 | 57.1 | |
| | | 80/67 | 70.6 | 61.7 | 52.0 | 40.7 | |
| | | 75/62 | 56.4 | 47.2 | 37.2 | 24.7 | |
| | | 70/57 | 43.1 | 33.8 | 23.9 | 18.6 | |
| CTM36C5*D | 1200 | 85/72 | 86.0 | 77.6 | 68.0 | 57.1 | |
| | | 80/67 | 70.6 | 61.7 | 52.0 | 40.7 | |
| | | 75/62 | 56.4 | 47.2 | 37.2 | 24.7 | |
| | | 70/57 | 43.1 | 33.8 | 23.9 | 18.6 | |
| CTM42C5*E | 1400 | 85/72 | 93.5 | 84.6 | 74.6 | 62.9 | |
| | | 80/67 | 77.1 | 67.8 | 57.4 | 45.4 | |
| | | 75/62 | 62.0 | 52.2 | 41.5 | 27.3 | |
| | | 70/57 | 47.8 | 37.8 | 27.1 | 21.3 | |
| CTM48C5*F | 1600 | 85/72 | 95.4 | 86.1 | 75.5 | 63.0 | |
| | | 80/67 | 78.5 | 68.7 | 57.7 | 45.0 | |
| | | 75/62 | 62.9 | 44.6 | 41.5 | 27.7 | |
| | | 70/57 | 48.4 | 38.1 | 27.5 | 21.0 | |
| CTM48D5*F | 1600 | 85/72 | 95.4 | 86.1 | 75.5 | 63.0 | |
| | | 80/67 | 78.5 | 68.7 | 57.7 | 45.0 | |
| | | 75/62 | 62.9 | 44.6 | 41.5 | 27.7 | |
| | | 70/57 | 48.4 | 38.1 | 27.5 | 21.0 | |
| CTM60C5*G | 1800 | 85/72 | 115.6 | 104.2 | 91.0 | 76.2 | |
| | | 80/67 | 94.9 | 82.8 | 67.4 | 54.3 | |
| | | 75/62 | 75.6 | 63.1 | 49.4 | 33.6 | |
| | | 70/57 | 57.9 | 45.1 | 32.1 | 24.8 | |
| CTM60D5*G | 1800 | 85/72 | 115.6 | 104.2 | 91.0 | 76.2 | |
| | | 80/67 | 94.9 | 82.8 | 67.4 | 54.3 | |
| | | 75/62 | 75.6 | 63.1 | 49.4 | 33.6 | |
| | | 70/57 | 57.9 | 45.1 | 32.1 | 24.8 | |
| CTM60C5*H | 1800 | 85/72 | 113.0 | 102.6 | 90.1 | 75.7 | |
| | | 80/67 | 93.2 | 82.1 | 68.8 | 54.3 | |
| | | 75/62 | 74.7 | 62.9 | 49.4 | 33.4 | |
| | | 70/57 | 57.5 | 45.1 | 32.2 | 25.1 | |
| CTM60D5*H | 1800 | 85/72 | 113.0 | 102.6 | 90.1 | 75.7 | |
| | | 80/67 | 93.2 | 82.1 | 68.8 | 54.3 | |
| | | 75/62 | 74.7 | 62.9 | 49.4 | 33.4 | |
| | | 70/57 | 57.5 | 45.1 | 32.2 | 25.1 | |
| CTM60D5*J | 1800 | 85/72 | 111.3 | 100.0 | 87.1 | 72.3 | |
| | | 80/67 | 91.5 | 79.6 | 66.3 | 51.3 | |
| | | 75/62 | 73.1 | 60.9 | 46.9 | 32.6 | |
| | | 70/57 | 56.1 | 43.0 | 32.5 | 25.0 | |

(i) Note:

- Actual capacity varies with the outdoor air conditioning unit or heat pump that is used with the system. See the Condensing Unit or the Heat Pump Technical Guide for total cooling capacity and sensible capacity.
- Airflow is calculated for each system tonnage.

Modular blower and indoor coil matches

Table 8: Modular blower and indoor coil matches

| Modular blower model | Indoor coil product family | | | | | |
|----------------------|----------------------------|-----------|--|--|--|--|
| | CTF | СТМ | | | | |
| JMC12B | CTF18B5*A | CTM24B5*B | | | | |
| | CTF24B5*B | CTM30B5*C | | | | |
| | CTF30B5*C | CTM36B5*D | | | | |
| | CTF36B5*D | | | | | |
| | CTF36B5*E | | | | | |
| JMC16C | CTF30B5*C | CTM30C5*C | | | | |
| | CTF36B5*D | CTM30C5*D | | | | |
| | CTF42B5*E | CTM42C5*E | | | | |
| | CTF48C5*F | CTM48C5*F | | | | |
| JMC17C | CTF60C5*G | CTM60C5*G | | | | |
| JMC20D | CTF48D5*F | CTM48D5*F | | | | |
| | CTF60D5*G | CTM60D5*G | | | | |
| | CTF60D5*H | CTM60D5*H | | | | |
| | CTF60D5*J | CTM60D5*J | | | | |

Physical and electrical data

Table 9: Physical and electrical data - cooling only

| Model | | JMC12B | JMC16C | JMC17C | JMC20D | | |
|--------------------|-------------------------|-------------------------|-------------|-------------------|-------------|--|--|
| Blower - diameter | x width | 11 x 8 | 11 x 10 | 11 x 10 | 11 x 11 | | |
| Motor | HP | 1/2 HP | 3/4 HP | 1 HP | 1 HP | | |
| | Nominal RPM | 1050 | 1050 | 1050 | 1050 | | |
| Voltage | | 208/230 | 208/230 | 208/230 | 208/230 | | |
| Full Load Amps at | 230 V | 3.8 | 5.4 | 7.0 | 7.0 | | |
| Filter | Туре | Disposable or cleanable | | | | | |
| | Size | 16 x 20 x 1 | 20 x 20 x 1 | 20 x 20 x 1 | 23 x 20 x 1 | | |
| | Bottom rack kit | 1BR01117 | 1BR01121 | 1BR01121 | 1BR01124 | | |
| Shipping / operati | ng weight (lb) | 57 / 56 | 63 / 62 | 62 66 / 65 70 / 6 | | | |
| ① Note: The fi | Iter is field supplied. | • | | | | | |

Electrical data - cooling only

Table 10: Electrical data - cooling only

| Model | Motor full load amps | Minimum circuit ampacity | MOP |
|---------------|----------------------|--------------------------|-----|
| JMC12B | 3.8 | 4.8 | 15 |
| JMC16C | 5.4 | 6.8 | 15 |
| JMC17C/JMC20D | 7 | 8.8 | 15 |

Note: MOP stands for maximum overcurrent protection device. It must be a HACR type circuit breaker or a time delay fuse. Refer to the latest edition of the National Electric Code, or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

Electrical heat - minimum fan speed

Table 11: Electrical heat - minimum fan CFM DIP switch settings for single-phase heat kits

| Electric heat kit | Nominal | DIP switch | P switch settings by air handler model and coil matches | | | | | | | | | |
|-------------------|----------------|------------|---|---------|-----------|---------|---------|---------|---------|--|--|--|
| model | kW at 240 V | JMC12B | | JMC16C | | JMC17C | | JMC20D | | | | |
| Indoor coil | | CTF | СТМ | CTF | СТМ | CTF | СТМ | CTF | СТМ | | | |
| product match | | | | | | | | | | | | |
| 8HK(0,1)6500206 | 2.4 kW | 00-0001 | 00-0001 | 00-0001 | 00-0001 | 00-0001 | 00-0001 | 00-0001 | 00-0001 | | | |
| 8HK(0,1)6500506 | 4.8 kW | 00-0010 | 01-0010 | 00-0010 | 00-0010 | 00-0010 | 00-0010 | 00-0010 | 00-0010 | | | |
| 8HK(0,1)6500806 | 7.7 kW | 00-0011 | 01-0011 | 00-0011 | 00-0011 | 00-0011 | 00-0011 | 00-0011 | 00-0011 | | | |
| 8HK(0,1)6501006 | 9.6 kW | 00-0100 | 00-0101 | 00-0100 | 00-0100 | 00-0100 | 00-0100 | 00-0100 | 00-0100 | | | |
| 8HK(1,2)6501506 | 14.4 kW | 00-0101 | 01-0101 | 00-0101 | 00-0101 | 01-0101 | 01-0101 | 00-0101 | 01-0101 | | | |
| 8HK(1,2)6502006 | 19.2 kW | 00-0110 | 00-0110 | 01-0110 | 01-0110** | 00-0110 | 00-0110 | 00-0110 | 00-0110 | | | |
| 8HK(1,2)6502506 | 24 kW | _ | _ | _ | _ | _ | _ | 00-0111 | 00-0111 | | | |

Note:

- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.
- For electric heat kit model numbers in this table that include (1,2) 1 indicates with service disconnect and no breaker jumper bar or 2 indicates with service disconnect and breaker jumper bar.
- ** This Heat kit kW is not approved for a horizontal right with heat pump application.
- The DIP switch settings in the table are represented as two digits followed by a set of four digits. The first two digits represent the settings for airflow configuration DIP switches 1 and 2 for heat located in the SW4 switch bank in quadrant C: 00 = nominal, 01 = 20% CFM increase. The last four digits represent the settings for aux heat configuration DIP switches 3, 4, 5, and 6 for electric heat kit selection located in the SW3 switch bank in quadrant B

To increase any airflow by approximately 20%, adjust airflow configuration DIP switches 1 and 2 for heat from 00 to 01, if not already assigned as required for minimum CFM to satisfy the kW as given in the table. For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.

Table 12: Electrical heat - minimum fan CFM DIP switch settings for three-phase heat kits

| Electric heat | Nominal | Air handle | Air handler model | | | | | | | | | |
|---------------|-----------|------------|-------------------|---------|---------|---------|---------|---------|---------|--|--|--|
| kit model | kW at 240 | JMC12B | | JMC16C | JMC16C | | JMC17C | | JMC20D | | | |
| | V | | | | | | | | | | | |
| Indoor coil | | CTF | СТМ | CTF | СТМ | CTF | СТМ | CTF | СТМ | | | |
| product match | | | | | | | | | | | | |
| 8HK06501025 | 9.6kW | 00-1000 | 00-1000 | 00-1000 | 00-1000 | 00-1000 | 00-1000 | 00-1000 | 00-1000 | | | |
| 8HK06501525 | 14.4kW | 00-1001 | 01-1001 | 00-1001 | 01-1001 | 01-1001 | 01-1001 | 00-1001 | 00-1001 | | | |
| 8HK16502025 | 19.2kW | 00-1010 | 00-1010 | 01-1010 | 01-1010 | 00-1010 | 00-1010 | 00-1010 | 00-1010 | | | |
| 8HK16502525 | 24kW | _ | _ | _ | _ | _ | _ | 00-1011 | 00-1011 | | | |

i) Note:

- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.
- For electric heat kit model numbers in this table that include (1,2) 1 indicates with service disconnect and no breaker jumper bar or 2 indicates with service disconnect and breaker jumper bar.
- The DIP switch settings in the table are represented as two digits followed by a set of four digits. The first two digits represent the settings for airflow configuration DIP switches 1 and 2 for heat located in the SW4 switch bank in quadrant C: 00 = nominal, 01 = 20% CFM increase. The last four digits represent the settings for aux heat configuration DIP switches 3, 4, 5, and 6 for electric heat kit selection located in the SW3 switch bank in quadrant B.

To increase any airflow by approximately 20%, adjust airflow configuration DIP switches 1 and 2 for heat from 00 to 01, if not already assigned as required for minimum CFM to satisfy the kW as given in the table. For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.

Table 13: AUX heat configuration - stage 1 KW DIP switch settings

| W1 = W1 | 00, 01 |
|----------------|--------|
| W1 = W2 | 10 |
| W1 = W1 and W2 | 11 |

Table 14: Default blower speeds for FER compliance - electrical heat only

| Model | High sales | Nominal kW | Thermostat input | | Default blower speed | | | |
|--------|-----------------|------------|------------------|---------|----------------------|----------------|--|--|
| | volume heat kit | at 240 V | w1/[w1+w2] | Heat | Maximum air flow | Continuous fan | | |
| JMC12B | 8HK(0,1)6500806 | 7.7 | w1 | 01-0011 | 111 (High) | 01 | | |
| JMC16C | 8HK(1,2)6501506 | 14.4 | w1+w2 | 01-0100 | 111 (High) | 01 | | |
| JMC17C | 8HK(1,2)6501506 | 14.4 | w1+w2 | 01-0110 | 111 (High) | 01 | | |
| JMC20D | 8HK(1,2)6501506 | 14.4 | w1+w2 | 00-0101 | 111 (High) | 01 | | |

i) Note:

- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.
- For electric heat kit model numbers in this table that include (1,2) 1 indicates with service disconnect and no breaker jumper bar or 2 indicates with service disconnect and breaker jumper bar.
- For JMC16C, JMC17C and JMC20D models with 15kW such as the 8HK*65015** heat kit, connect the AHU W1 and W2 thermostat inputs together for FER compliance.

Application limitations

Adhere to the following:

- These units must be installed in accordance with all national and local safety codes.
- Airflow must be within the minimum and maximum limits approved for electric heat, indoor coils, and outdoor units.

Table 15: Voltage limits

| Α | r handler voltage | Normal operating voltage range | | | | | |
|----|---|--------------------------------|--|--|--|--|--|
| 20 | 08/230-1-60 | 187-253 | | | | | |
| ű | Note: Normal operating voltage range is rated in accordance with ARI standard 110, utilization range A. | | | | | | |

Table 16: Application factors - rated CFM versus actual CFM

| Percentage of rated airflow (CFM) | 80 | 90 | 100 | 110 | 120 |
|-----------------------------------|------|------|-----|------|------|
| Capacity factor | 0.96 | 0.98 | 1 | 1.02 | 1.03 |

Table 17: kW and MBH conversions for total power input requirement

| Distribution power (V) | Nominal voltage (V) | Conversion factor | | |
|------------------------|---------------------|-------------------|--|--|
| 208 | 240 | 0.75 | | |
| 220 | 240 | 0.84 | | |
| 230 | 240 | 0.92 | | |

(i) **Note:** For a power distribution voltage that is different than the provided nominal voltage, multiply the kW and MBH data from the table by the conversion factor in Table 18.

Electric heat performance data

Table 18: Electric heat performance data: 208/230-1-60 and 208/230-3-60

| Electric h | neat kit model | Nominal | Total he | at | | | kW stag | kW staging | | | |
|------------|-----------------|---------|----------|-------|-------|-------|---------|------------|-------|-------|--|
| | | kW at | kW | kW | | MBH | | W1 only | | W2 | |
| | | 240 V | 208 V | 230 V | 208 V | 230 V | 208 V | 230 V | 208 V | 230 V | |
| Single | 8HK(0,1)6500206 | 2.4 | 1.8 | 2.2 | 6.2 | 7.5 | 1.8 | 2.2 | 1.8 | 2.2 | |
| phase | 8HK(0,1)6500506 | 4.8 | 3.6 | 4.4 | 12.3 | 15 | 3.6 | 4.4 | 3.6 | 4.4 | |
| | 8HK(0,1)6500806 | 7.7 | 5.8 | 7.1 | 19.7 | 24.1 | 5.8 | 7.1 | 5.8 | 7.1 | |
| | 8HK(0,1)6501006 | 9.6 | 7.2 | 8.8 | 24.6 | 30.1 | 7.2 | 8.8 | 7.2 | 8.8 | |
| | 8HK(1,2)6501506 | 14.4 | 10.8 | 13.2 | 36.9 | 45.1 | 3.6 | 4.4 | 10.8 | 13.2 | |
| | 8HK(1,2)6502006 | 19.2 | 14.4 | 17.6 | 49.2 | 60.2 | 7.2 | 8.8 | 14.4 | 17.6 | |
| | 8HK(1,2)6502506 | 24 | 18 | 22 | 61.5 | 75.2 | 7.2 | 8.8 | 18 | 22 | |
| Three | 8HK06501025 | 9.6 | 7.2 | 8.8 | 24.6 | 30.1 | 7.2 | 8.8 | 7.2 | 8.8 | |
| phase | 8HK06501525 | 14.4 | 10.8 | 13.2 | 36.9 | 45.1 | 10.8 | 13.2 | 10.8 | 13.2 | |
| | 8HK16502025 | 19.2 | 14.4 | 17.6 | 49.2 | 60.2 | 7.2 | 8.8 | 14.4 | 17.6 | |
| | 8HK16502525 | 24 | 18 | 22 | 61.5 | 75.2 | 9 | 11 | 18 | 22 | |

① Note:

- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.
- For electric heat kit model numbers in this table that include (1,2) 1 indicates with service disconnect and no breaker jumper bar or 2 indicates with service disconnect and breaker jumper bar.
- For different power distributions, see Table 17.

Electrical data for single-source power supply, 208/230-1-60

Table 19: Electrical data for single-source power supply: 208/230-1-60

| Modular blower | Electric heat kit | Heater amps | Field wiring | | | | | | | |
|----------------|-------------------|--------------|----------------|------------------|---------|-------|--|--|--|--|
| model | model | (A) at 240 V | Minimum (A) | circuit ampacity | MOP (A) | | | | | |
| | | | 208 V | 230 V | 208 V | 230 V | | | | |
| JMC12B | 8HK(0,1)6500206 | 10 | 15.6 | 16.7 | 20 | 20 | | | | |
| | 8HK(0,1)6500506 | 20 | 26.4 | 28.7 | 30 | 30 | | | | |
| | 8HK(0,1)6500806 | 32 | 39.6 | 43.3 | 40 | 45 | | | | |
| | 8HK(0,1)6501006 | 40 | 48.0 | 52.6 | 50 | 60 | | | | |
| | 8HK(1,2)6501506 | 60 | 69.7 | 76.5 | 70 | 80 | | | | |
| | 8HK(1,2)6502006 | 80 | 91.3 | 100.4 | 100 | 110 | | | | |
| JMC16C | 8HK(0,1)6500206 | 10 | 17.6 | 18.7 | 20 | 20 | | | | |
| | 8HK(0,1)6500506 | 20 | 28.4 | 30.7 | 30 | 35 | | | | |
| | 8HK(0,1)6500806 | 32 | 41.6 | 45.3 | 45 | 50 | | | | |
| | 8HK(0,1)6501006 | 40 | 50.0 | 54.6 | 50 | 60 | | | | |
| | 8HK(1,2)6501506 | 60 | 71.7 | 78.5 | 80 | 80 | | | | |
| | 8HK(1,2)6502006 | 80 | 93.3 | 102.4 | 100 | 110 | | | | |
| JMC17C | 8HK(0,1)6500206 | 10 | 19.6 | 20.7 | 20 | 25 | | | | |
| | 8HK(0,1)6500506 | 20 | 30.4 | 32.7 | 35 | 35 | | | | |
| | 8HK(0,1)6500806 | 32 | 43.6 | 47.3 | 45 | 50 | | | | |
| | 8HK(0,1)6501006 | 40 | 52.0 | 56.6 | 60 | 60 | | | | |
| | 8HK(1,2)6501506 | 60 | 73.7 | 80.5 | 80 | 90 | | | | |
| | 8HK(1,2)6502006 | 80 | 95.3 | 104.4 | 100 | 110 | | | | |
| JMC20D | 8HK(0,1)6500206 | 10 | 19.6 | 20.7 | 20 | 25 | | | | |
| | 8HK(0,1)6500506 | 20 | 30.4 | 32.7 | 35 | 35 | | | | |
| | 8HK(0,1)6500806 | 32 | 43.6 | 47.3 | 45 | 50 | | | | |
| | 8HK(0,1)6501006 | 40 | 52.0 | 56.6 | 60 | 60 | | | | |
| | 8HK(1,2)6501506 | 60 | 73.7 | 80.5 | 80 | 90 | | | | |
| | 8HK(1,2)6502006 | 80 | 95.3 | 104.4 | 100 | 110 | | | | |
| | 8HK(1,2)6502506 | 100 | 116.9 | 128.3 | 125 | 150 | | | | |

Note:

- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.
- For electric heat kit model numbers in this table that include (1,2) 1 indicates with service disconnect and no breaker jumper bar or 2 indicates with service disconnect and breaker jumper bar.
- MOP = Maximum overcurrent protection device; must be HACR type circuit breaker or time delay fuse. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

Electrical data for multi-source power supply, 208/230-1-60

Table 20: Electrical data for multi-source power supply, 208/230-1-60

| Air | Electric heat | Heater | Minim | um circı | uit amp | acity (| acity (A) | | | A) | | | | |
|---------|---------------|--------|---------|----------|---------|---------|-----------|-------|-------|--------|-------|-------|--------|-------|
| handler | | amps | 208 V | 208 V | | | 230 V | | 208 V | | | 230 V | | |
| model | | | Circuit | rcuit | | | | | | | | | | |
| | | 240 V | First | Second | Third | First | Second | Third | First | Second | Third | First | Second | Third |
| 12B | 8HK16501506 | 60 | 26.2 | 43.5 | _ | 28.4 | 48.1 | _ | 30 | 45 | _ | 30 | 50 | _ |
| | 8HK16502006 | 80 | 48.0 | 43.3 | _ | 52.6 | 47.8 | _ | 50 | 45 | _ | 60 | 50 | _ |
| 16C | 8HK16501506 | 60 | 28.2 | 43.5 | _ | 30.4 | 48.1 | _ | 30 | 45 | _ | 35 | 50 | _ |
| | 8HK16502006 | 80 | 50.0 | 43.3 | _ | 54.6 | 47.8 | _ | 50 | 45 | _ | 60 | 50 | _ |
| 17C | 8HK16501506 | 60 | 30.2 | 43.5 | _ | 32.4 | 48.1 | _ | 35 | 45 | _ | 35 | 50 | _ |
| | 8HK16502006 | 80 | 52.0 | 43.3 | _ | 56.6 | 47.8 | _ | 60 | 45 | _ | 60 | 50 | _ |
| 20D | 8HK16501506 | 60 | 30.2 | 43.5 | _ | 32.4 | 48.1 | _ | 35 | 45 | _ | 35 | 50 | _ |
| | 8HK16502006 | 80 | 52.0 | 43.3 | _ | 56.6 | 47.8 | _ | 60 | 45 | _ | 60 | 50 | _ |
| | 8HK16502506 | 100 | 52.0 | 43.3 | 21.6 | 56.6 | 47.8 | 23.9 | 60 | 45 | 25 | 60 | 50 | 25 |

① Note:

- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect.
- For electric heat kit model numbers in this table that include (1,2) 1 indicates with service disconnect and no breaker jumper bar or 2 indicates with service disconnect and breaker jumper bar.
- MOP = Maximum overcurrent protection device; must be HACR type circuit breaker or time delay fuse. Refer
 to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to
 determine correct wire sizing.

Electrical data for single-source power supply, 208/230-3-60

Table 21: Electrical data for single-source power supply, 208/230-3-60

| Air handler | Electric heat kit model | Heater amps (A) at 240 V | Field wiring | | | | | |
|-------------|----------------------------|-----------------------------|--------------|---------------------|---------|-------|--|--|
| model | | | Minimum c | ircuit ampacity (A) | MOP (A) | | | |
| | | | 208 V | 230 V | 208 V | 230 V | | |
| 12B | 8HK06501025 | 23.1 | 29.7 | 32.4 | 30 | 35 | | |
| | 8HK06501525 | 34.6 | 42.2 | 46.2 | 45 | 50 | | |
| | 8HK06502025 | 46.2 | 54.7 | 60.0 | 60 | 60 | | |
| 16C | 8HK06501025 | 23.1 | 31.7 | 34.4 | 35 | 35 | | |
| | 8HK06501525 | 34.6 | 44.2 | 48.2 | 45 | 50 | | |
| | 8HK0502025 | 46.2 | 56.7 | 62.0 | 60 | 70 | | |
| 17C | 8HK06501025 | 23.1 | 33.7 | 36.4 | 35 | 40 | | |
| | 8HK06501525 | 34.6 | 46.2 | 50.2 | 50 | 60 | | |
| | 8HK06502025 | 46.2 | 58.7 | 64.0 | 60 | 70 | | |
| 20D | 8HK06501025 | 23.1 | 33.7 | 36.4 | 35 | 40 | | |
| | 8HK06501525 | 34.6 | 46.2 | 50.2 | 50 | 60 | | |
| | 8HK06502025 | 46.2 | 58.7 | 64.0 | 60 | 70 | | |
| | 8HK06502525 | 57.7 | 71.2 | 77.8 | 80 | 80 | | |

Note:

- MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.
- For electric heat kit model numbers in this table that include (0,1), 0 indicates no service disconnect or 1 indicates with service disconnect. The 20 kW and 25 kW heater models (8HK16502025 and 8HK16502525) come with circuit breakers standard. Single source power MCA and MOP requirements are given here only for reference if used with field installed single point power modification.

Electrical data for multi-source power supply, 208/230-3-60

Table 22: Electrical data for multi-source power supply, 208/230-3-60

| Air | Electric heat | Heater | Minimum circuit ampacity (A) | | | | MOP (A) | | | |
|---------|---------------|--------------------------------|------------------------------|--------|-------|--------|---------|--------|-------|--------|
| handler | kit model | kit model amps (A) 208 V 230 V | | | 208 V | | 230 V | | | |
| model | | at 240 V | 240 V Circuit | | | | | | | |
| | | | First | Second | First | Second | First | Second | First | Second |
| 12B | 8HK16502025 | 46.2 | 29.7 | 25.0 | 32.4 | 27.6 | 30 | 25 | 35 | 30 |
| 16C | 8HK16502025 | 46.2 | 31.7 | 25.0 | 34.4 | 27.6 | 35 | 25 | 35 | 30 |
| 17C | 8HK16502025 | 46.2 | 33.7 | 25.0 | 36.4 | 27.6 | 35 | 25 | 40 | 30 |
| 20D | 8HK16502025 | 46.2 | 33.7 | 25.0 | 36.4 | 27.6 | 35 | 25 | 40 | 30 |
| | 8HK16502525 | 57.7 | 40.0 | 31.2 | 43.3 | 34.5 | 40 | 35 | 45 | 35 |

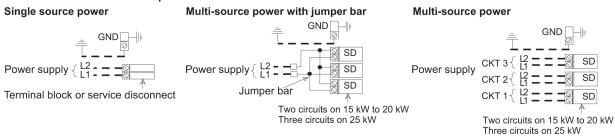
i) Note:

- The 20 kW and 25 kW heater models (8HK16502025 and 8HK16502525) come with circuit breakers standard.
- MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

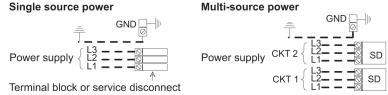
Power wiring

Figure 4: Power wiring - line connections

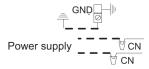
1 Phase Electric Heat Power Options:



3 Phase Electric Heat Power Options:



No Electric Heat:



Component Codes:

GND - Ground lug SD - Service disconnect CKT - Circuit CN - Wire connector/nut - — Field power wiring (208/230 V)

A1699-001

Airflow data

Table 23: Airflow (CFM) - High/low speed cooling and heat pump - electric heat kit

| Aux heat | JMC12B | | JMC16C | JMC16C | | JMC17C | | JMC20D | |
|--|--------|-----|--------|--------|------|--------|------|--------|--|
| configuration DIP switch settings for electric heat kit selection | High | Low | High | Low | High | Low | High | Low | |
| 0001 | 625 | 625 | 825 | 825 | 825 | 825 | 825 | 825 | |
| 0010 | 650 | 650 | 825 | 825 | 825 | 825 | 825 | 825 | |
| 0011 | 750 | 750 | 1100 | 1100 | 1100 | 1100 | 1150 | 1150 | |
| 0100 | 750 | 750 | 1100 | 1100 | 1100 | 1100 | 1500 | 1500 | |
| 0101 | 975 | 650 | 1100 | 825 | 1100 | 825 | 1700 | 825 | |
| 0110 | 975 | 750 | 1300 | 1100 | 1300 | 1100 | 1700 | 1500 | |

Table 24: High/low speed cooling and heat pump CFM

| Airflow | JMC12B | | JMC16C | | JMC17C | | JMC20D | |
|----------------------------------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| configuration DIP switch setting | High cool | Low cool |
| 000 | 800 | 550 | 1100 | 700 | 1150 | 725 | 1500 | 925 |
| 001 | 900 | 600 | 1200 | 750 | 1250 | 775 | 1475 | 1050 |
| 010 | 975 | 650 | 1300 | 800 | 1350 | 850 | 1750 | 1125 |
| 011 | 1075 | 700 | 1400 | 850 | 1450 | 900 | 1875 | 1225 |
| 100 | 1150 | 775 | 1500 | 925 | 1575 | 975 | 2000 | 1350 |
| 101 | 1250 | 825 | 1625 | 975 | 1675 | 1025 | 2000 | 1400 |
| 110 | 1325 | 900 | 1725 | 1050 | 1775 | 1100 | 2000 | 1475 |
| 111 | 1400 | 950 | 1825 | 1100 | 1875 | 1150 | 2000 | 1575 |

(i) Note:

- Air handler units have been tested to UL 60335-2-40 / CSA 22.2 No. 236 standards up to 0.60 in. W.C. external static pressure.
- Dry coil conditions only, tested without filters.
- For optimal performance, external static pressures of 0.2 in. to 0.5 in. are recommended. Heating applications tested at 0.50 in. W.C. esp. Above 0.5 in. CFM is reduced by 2% per 0.1 in. increase in static.
- Low speed cooling is used only with two-stage outdoor units.
- Dehumidification speed is 85% of the selected High speed COOL.
- When operating in both heat pump and electric heat modes, the airflow (CFM) will be whichever speed is greater.
- At some settings, LOW COOL and/or LOW HEAT airflow may be lower than what is required to operate an airflow switch on certain models of electronic air cleaners. Consult the instructions for the electronic air cleaner for further details.
- The airflow (CFM) indicator flashes once for every 100 CFM, for example, 12 flashes is 1200 CFM. Flashes are approximately +/- 10% of actual CFM.

