

Luxaire Technical Guide: JME Series

Standard ECM Modular Multi-Position Air Handlers -
208/230 V Single-Phase



York International Corporation, 5005 York
Drive, Norman, OK 73069

6523672-LTG-A-0624

Supersedes: Nothing

2024-06-05

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Description

This unique modular system has the flexibility to handle any application. The versatile JME blower can be used for upflow, downflow, or horizontal left or right applications. It 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 and 208-230-3 phase applications. The JME blower and 8HK electric heater kits can be used as stand-alone electric furnaces.

Visit us on the web at www.simplygettingthejobdone.com and www.luxaire.com. Additional rating information can be found at www.ahridirectory.org.

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Certification



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

Features

Next generation high-efficiency blower

Delivers increased airflow and reduced blower watts by 10%, using a standard ECM motor.

Two-stage operation

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

Next generation insulation and gasket design

Reduces thermal transmission paths and reduces sweating.

Nine speed standard ECM blower motor

Provides increased system compatibility.

Electric heat kit

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

Designed for easy installation and service

A casing size of 20.5 in., smooth sides, and rigid construction provide ease of attic access and tight applications. Front facing components, slide out blower, laser cut knock outs and integrated duct flanges shorten 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 postpowder 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

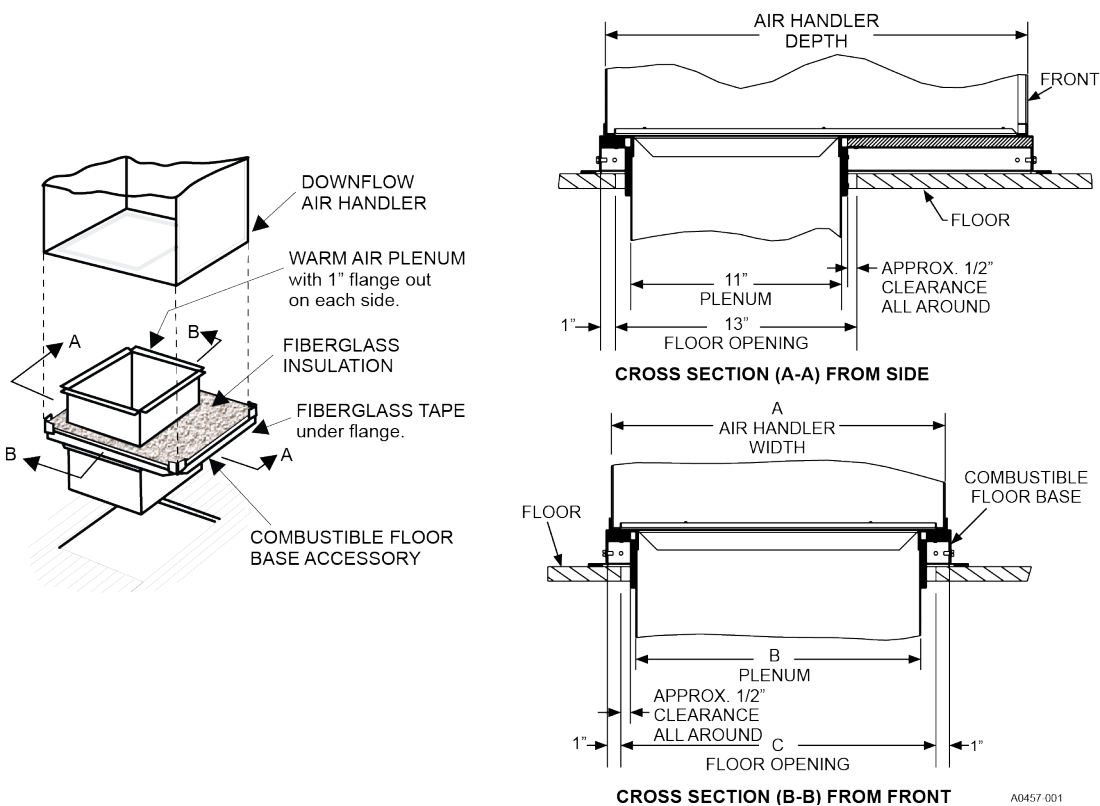
Electric heaters

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



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 can be ordered.

Thermostat

Compatible thermostat controls are available through accessory sourcing. For optimum performance, these indoor units are fully compatible with our YORK residential Hx™ Touch Screen Thermostat with proprietary hexagon interface. For more information, refer to the Thermostats & Controllers section at www.simplygettingthejobdone.com.

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

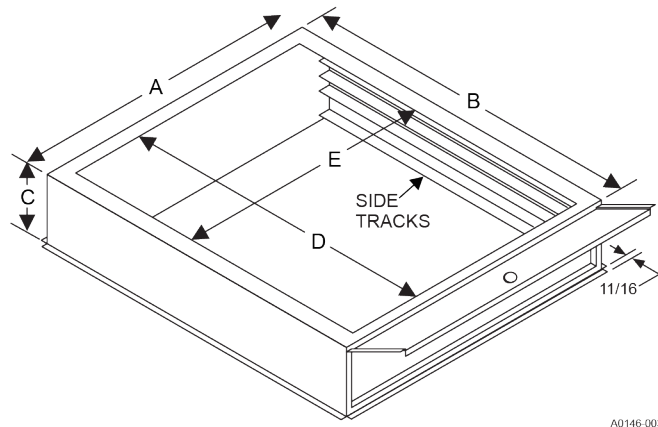


Table 2: Filter rack dimensions

Galvanised model	A	B	C	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
① Note: The filter is not supplied.						

Nomenclature

Table 3: Nomenclature for JME modular air handlers

Number	Category	Option	Description
1	Product type	J	Air handler
2	Air handler type	M	Modular
3	Motor Type	E	Constant Torque
		C	Constant CFM
4,5	Nominal Airflow	08	800
		10	1000
		12	1200
		14	1400
		16	1600
		18	1800
		20	2000
6	Cabinet width	B	17.5 in.
		C	21.0 in.
		D	24.5 in.
7	Voltage (voltage-phase-hertz)	2	208/230-1-60
8	Control Strategy	C	Communicating
		B	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) not used for ordering	A	Style A
		B	Style B
		C	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	E	8	B	2	S	N	1	A

Example:

The JME08B2SN1 model is a conventional, modular air handler that uses constant torque and a nominal airflow of 800. The cabinet width is 17.5 in. It uses 208/230-1-60 voltage. There is no sensor on this first generation, Style-A air handler.

Dimensions

Figure 3: Dimensions and duct connection dimensions

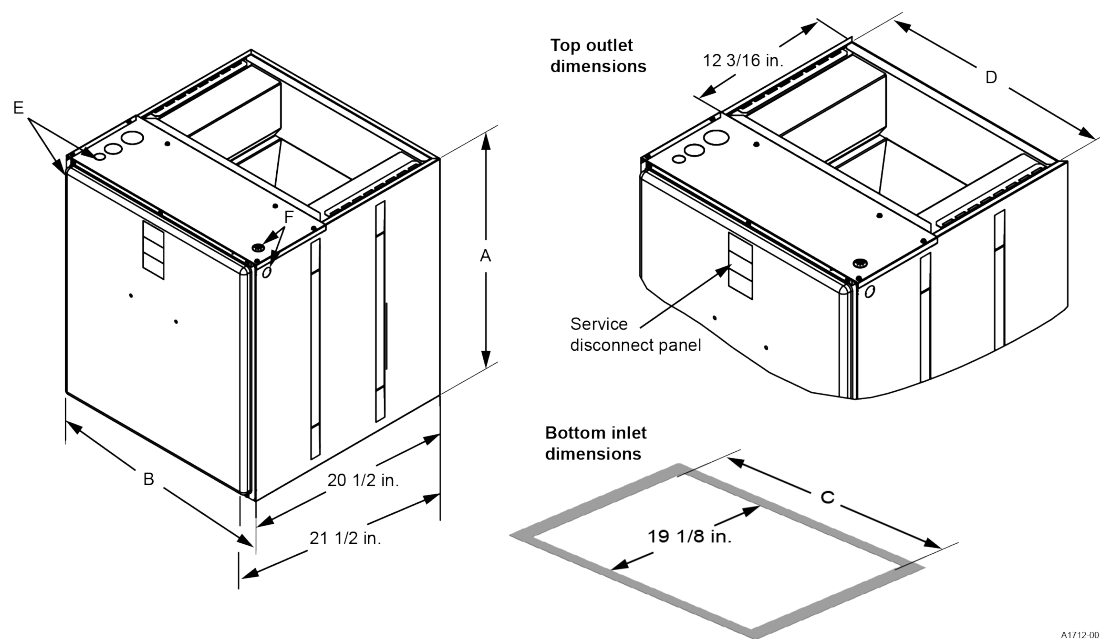


Table 5: Dimensions

Models	Dimensions				Wiring knockouts (actual conduit size)	
	A	B	C	D	E	F
	Height (in.)	Width (in.)	Opening widths (in.)		Power (in.)	Control (in.)
JME08B2SN1	22 3/4	17 1/2	16 1/2	16 1/2	7/8 (1/2)	7/8 (1/2)
JME12B2SN1	22 3/4	17 1/2	16 1/2	16 1/2	1 3/8 (1)	
JME12C2SN1	22 3/4	21	20	20	1 23/32 (1 1/4)	
JME16C2SN1	22 3/4	21	20	20		
JME18D2SN1	22 3/4	24 1/2	23 1/2	23 1/2		

Cooling capacity

Table 6: Cooling capacity: CTF models

Model	Rated CFM	Entering air dry bulb/ wet bulb (°F)	MBH at evaporation temperature and corresponding R-454B pressure (°F/psig)			
			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
CTF18B5*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	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
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
		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	1000	85/72	72.4	65.0	56.6	47.2
		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
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
CTF48D5*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
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

Table 6: Cooling capacity: CTF models

Model	Rated CFM	Entering air dry bulb/ wet bulb (°F)	MBH at evaporation temperature and corresponding R-454B pressure (°F/psig)			
			35/107.9	40/118.9	45/130.7	50/143.3
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: See the Condensing Unit Technical Guide or the Heat Pump Technical Guide for total cooling capacity and sensible capacity.

Table 7: Cooling capacity: CTM models

Model	Rated CFM	Entering air dry bulb/ wet bulb (°F)	MBH at evaporation temperature and corresponding R-454B pressure (°F/psig)			
			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
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

Table 7: Cooling capacity: CTM models

Model	Rated CFM	Entering air dry bulb/ wet bulb (°F)	MBH at evaporation temperature and corresponding R-454B pressure (°F/psig)			
			35/107.9	40/118.9	45/130.7	50/143.3
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
 Note: See the Condensing Unit Technical Guide or the Heat Pump Technical Guide for total cooling capacity and sensible capacity.						

Modular blower and indoor coil matches

Table 8: Modular blower and indoor coil matches

Modular blower module	Indoor coil product family	
	CTF	CTM
JME08B	CTF18B5*A CTF24B5*B	CTM24B5*B
JME12B	CTF30B5*C CTF36B5*D CTF36B5*E	CTM30B5*C CTM36B5*D
JME12C	CTF30C5*C CTF36C5*D	CTM30C5*C CTM30C5*D
JME16C	CTF42C5*E CTF48C5*F CTF60C5*G	CTM42C5*E CTM48C5*F CTM60C5*G
JME18D	CTF48D5*F CTF60D5*G CTF60D5*H CTF60D5*J	CTM48D5*F CTM60D5*G CTM60D5*H CTM60D5*J

Physical and electrical data

Table 9: Physical and electrical data — cooling only

Model		JME08B	JME12B	JME12C	JME16C	JME18D
Blower - diameter x width		11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
Motor	HP	1/3 HP	1/2 HP	1/2 HP	3/4 HP	3/4 HP
	Nominal RPM	1050				
Voltage		208/230				
Full load amps at 230V		3.1	4.8	4.8	6.8	6.8
Filter	Type	Disposable or cleanable				
	Size	16 x 20 x 1	16 x 20 x 1	20 x 20 x 1	20 x 20 x 1	23 x 20 x 1
	Bottom rack kit	1BR01117	1BR01117	1BR01121	1BR01121	1BR01124
Shipping / Operating weight (lb)		55 / 54	57 / 56	61 / 60	63 / 62	67 / 66
① Note: The filter is field supplied.						

Electrical data - cooling only

Table 10: Electrical data — cooling only

Model	Motor full load amps	Minimum circuit ampacity	MOP
JME08B	3.1	3.9	15
JME12B/JME12C	4.8	6.0	15
JME16C/JME18D	6.8	8.5	15
① 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 with heat pump: minimum fan speed (CTF coil)

Heater kit model	Nominal kW at 240 V	Air handler model				
		JME08B	JME12B	JME12C	JME16C	JME18D
8HK(0,1)6500206	2.4	7	9	9	6	7
8HK(0,1)6500506	4.8	7	9	9	6	7
8HK(0,1)6500806	7.7	7	9	9	6	7
8HK(0,1)6501006 8HK06501025	9.6	7*	9	9	6	7
8HK(1,2)6501506 8HK06501525	14.4	—	9	9	6	7
8HK(1,2)6502006 8HK16502025	19.2	—	9	9*	8	7
8HK(1,2)6502506 8HK16502525	24	—	—	—	—	7
Note: (0,1) 0 = no service disconnect. 1 = with service disconnect. (1,2) 1 stands for with service disconnect, no breaker jumper bar. 2 stands for with service disconnect and breaker jumper bar. * For downflow, 2006 max ESP is 0.4 in., three phase 8HK is not approved for application. 2025 cannot be used with heat pump applications.						

Table 12: Electrical heat with heat pump: minimum fan speed (CTM coil)

Heater kit model	Nominal kW at 240 V	Air handler model				
		JME08B	JME12B	JME12C	JME16C	JME18D
8HK(0,1)6500206	2.4	9	9	9	8	7
8HK(0,1)6500506	4.8	9	9	9	8	7
8HK(0,1)6500806	7.7	9	9	9	8	7
8HK(0,1)6501006 8HK06501025	9.6	9*	9	9	8	7
8HK(1,2)6501506 8HK06501525	14.4	—	9	9	8	7
8HK(1,2)6502006 8HK16502025	19.2	—	9	9	8	7
8HK(1,2)6502506 8HK16502525	24	—	—	—	—	7
Note: (0,1) 0 = no service disconnect. 1 = with service disconnect. (1,2) 1 = with service disconnect, no breaker jumper bar. 2 = with service disconnect and breaker jumper bar. * For one phase 8HK not approved for horizontal right with heat pump application.						

Table 13: Default blower speeds for FER compliance - electrical heat only

Model number	High sales volume heat kit	Nominal kW at 240 V	Default blower motor speed tap number			
			w1/ [w1+w2]	Heat	Max. air flow	Continuous fan
JME08B	8HK(0,1)6500806	7.7	w1	9	9	7
JME12B	8HK(0,1)6501006	9.6	w1	8	9	7
JME12C	8HK(0,1)6500806	7.7	w1	7	9	7
JME16C	8HK(1,2)6501506	14.4	w1+w2	8	9	7
JME18D	8HK(1,2)6501506	14.4	w1+w2	7	9	7

Note:

- (0,1) 0 = no service disconnect. 1 = with service disconnect.
- (1,2) 1 = with service disconnect, no breaker jumper bar. 2 = with service disconnect and breaker jumper bar.
- For JME16C and JME18D models with 15kW (8HK*65015**) heat kit, tie the AHU W1 and W2 thermostat inputs together for FER compliance.

Application limitations

Adhere to the following:

- These units must be wired and 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.

See [Table 14](#) for voltage limits:

Table 14: Voltage limits

Air handler voltage	Normal operating voltage range
208/230-1-60	187-253

Note: Normal operating voltage range is rated in accordance with ARI standard 110, utilization range A.

Table 15: 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 16: 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

- 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 17](#).

Electric heat performance data

Table 17: Electric heat performance data: 208/230-1-60 and 208/230-3-60

Heater model		Nominal kW at 240 V	Total heat				kW staging			
			kW		MBH		W1 only		W1 and W2	
			208 V	230 V	208 V	230 V	208 V	230 V	208 V	230 V
Single phase	8HK(0,1)6500206	2.4	1.8	2.2	6.2	7.5	1.8	2.2	1.8	2.2
	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 phase	8HK06501025	9.6	7.2	8.8	24.6	30.1	7.2	8.8	7.2	8.8
	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: (0,1) 0 = no service disconnect. 1 = with service disconnect. (1,2) 1 = with service disconnect, no breaker jumper bar. 2 = with service disconnect and breaker jumper bar. - For different power distributions, see Table 16.										

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

Table 18: Electrical data for single source power supply: 208/230-1-60

Air handler model	Heater model	Heater amps (A) at 240 V	Field wiring			
			Minimum circuit ampacity (A)		MOP(A)	
			208 V	230 V	208 V	230 V
JME08B	8HK(0,1)6500206	10	14.7	15.8	15	20
	8HK(0,1)6500506	20	25.5	27.8	30	30
	8HK(0,1)6500806	32	38.7	42.5	40	45
	8HK(0,1)6501006	40	47.1	51.7	50	60
JME12B	8HK(0,1)6500206	10	16.8	18.0	20	20
	8HK(0,1)6500506	20	27.6	29.9	30	30
	8HK(0,1)6500806	32	40.9	44.6	45	45
	8HK(0,1)6501006	40	49.3	53.8	50	60
	8HK(1,2)6501506	60	70.9	77.7	80	80
	8HK(1,2)6502006	80	92.5	101.7	100	110
JME12C	8HK(0,1)6500206	10	16.8	18.0	20	20
	8HK(0,1)6500506	20	27.6	29.9	30	30
	8HK(0,1)6500806	32	40.9	44.6	45	45
	8HK(0,1)6501006	40	49.3	53.8	50	60
	8HK(1,2)6501506	60	70.9	77.7	80	80
	8HK(1,2)6502006	80	92.5	101.7	100	110
JME16C	8HK(0,1)6500206	10	19.3	20.5	20	25
	8HK(0,1)6500506	20	30.1	32.4	35	35
	8HK(0,1)6500806	32	43.4	47.1	45	50
	8HK(0,1)6501006	40	51.8	56.3	60	60
	8HK(1,2)6501506	60	73.4	80.2	80	90
	8HK(1,2)6502006	80	95.0	104.2	100	110
JME18D	8HK(0,1)6500206	10	19.3	20.5	20	25
	8HK(0,1)6500506	20	30.1	32.4	35	35
	8HK(0,1)6500806	32	43.4	47.1	45	50
	8HK(0,1)6501006	40	51.8	56.3	60	60
	8HK(1,2)6501506	60	73.4	80.2	80	90
	8HK(1,2)6502006	80	95.0	104.2	100	110
	8HK(1,2)6502506	100	116.7	128.1	125	150
① Note: • (0,1) 0 = no service disconnect. 1 = with service disconnect. • (1,2) 1 = with service disconnect, no breaker jumper bar. 2 = 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 19: Electrical data for multi-source power supply: 208/230-1-60

Air handler model	Heater model	Heater amps (A) at 240 V	Minimum circuit ampacity (A)						MOP(A)					
			208 V			230 V			208 V			230 V		
			Circuit						Circuit					
			First	Second	Third	First	Second	Third	First	Second	Third	First	Second	Third
JME12B	8HK165015 06	60	27.4	43.5	—	29.7	48.1	—	30	45	—	30	50	—
	8HK165020 06	80	49.3	43.3	—	53.8	47.8	—	50	45	—	60	50	—
JME12C	8HK165015 06	60	27.4	43.5	—	29.7	48.1	—	30	45	—	30	50	—
	8HK165020 06	80	49.3	43.3	—	53.8	47.8	—	50	45	—	60	50	—
JME16C	8HK165015 06	60	29.9	43.5	—	32.2	48.1	—	30	45	—	35	50	—
	8HK165020 06	80	51.8	43.3	—	56.3	47.8	—	60	45	—	60	50	—
JME18D	8HK165015 06	60	29.9	43.5	—	32.2	48.1	—	30	45	—	35	50	—
	8HK165020 06	80	51.8	43.3	—	56.3	47.8	—	60	45	—	60	50	—
	8HK165025 06	100	51.8	43.3	21.6	56.3	47.8	23.9	60	45	25	60	50	25
Note: (0,1) 0 = no service disconnect. 1 = with service disconnect. (1,2) 1 = with service disconnect, no breaker jumper bar. 2 = 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 20: Electrical data for single source power supply: 208/230-3-60

Air handler models	Heater models	Heater amps (A) at 240 V	Field wiring			
			Minimum circuit ampacity (A)		MOP (A)	
			208 V	230 V	208 V	230 V
JME08B	8HK06501025	23.1	28.9	31.5	30	35
JME12B	8HK06501025	23.1	31.0	33.6	35	35
	8HK06501525	34.6	43.5	47.4	45	50
	8HK16502025	46.2	56.0	61.2	60	70
JME12C	8HK06501025	23.1	31.0	33.6	35	35
	8HK06501525	34.6	43.5	47.4	45	50
JME16C	8HK06501025	23.1	33.5	36.1	35	40
	8HK06501525	34.6	46.0	49.9	50	50
	8HK16502025	46.2	58.5	63.7	60	70
JME18D	8HK06501025	23.1	33.5	36.1	35	40
	8HK06501525	34.6	46.0	49.9	50	50
	8HK16502025	46.2	58.5	63.7	60	70
	8HK16502525	57.7	71.0	77.5	80	80

① **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.
- 0 = no service disconnect. 1 = 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 21: Electrical data for multi-source power supply: 208/230-3-60

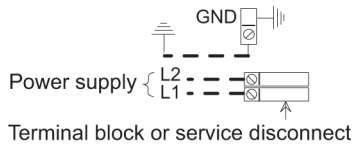
Air handlers models	Heater models	Heater amps (A) at 240 V	Minimum circuit ampacity (A)				MOP(A)			
			208 V		230 V		208 V		230 V	
			Circuit				Circuit			
			First	Second	First	Second	First	Second	First	Second
JME12B	8HK16502025	46.2	31.0	25.0	33.6	27.6	35	25	35	30
JME16C	8HK16502025	46.2	33.5	25.0	36.1	27.6	35	25	40	30
JME18D	8HK16502025	46.2	33.5	25.0	36.1	27.6	35	25	40	30
	8HK16502525	57.7	39.7	31.2	43.0	34.5	40	35	45	35
Note: The 20kW and 25kW 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

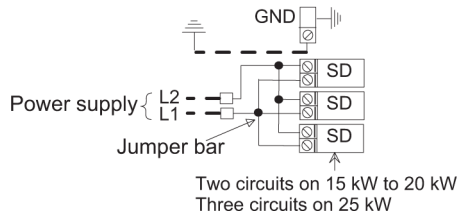
Figure 4: Power wiring - line connections

1 Phase Electric Heat Power Options:

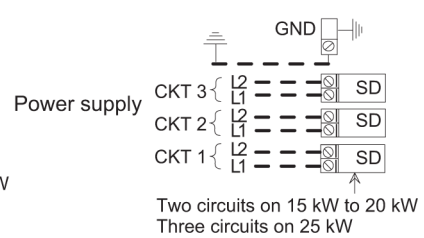
Single source power



Multi-source power with jumper bar

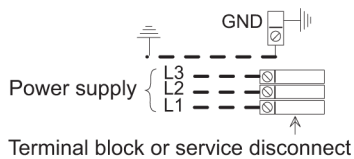


Multi-source power

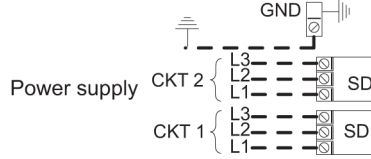


3 Phase Electric Heat Power Options:

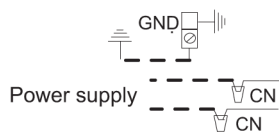
Single source power



Multi-source power



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 22: Airflow data (CFM per Watts)

Model	Blower motor speed tap number	External static pressure (in. W.C.)										
		Unit	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
JME08B	9	CFM	1050	1025	975	925	875	850	800	750	725	675
		W	117	124	132	139	147	155	162	170	177	185
	8	CFM	1000	950	900	850	800	750	700	650	625	575
		W	97	104	112	119	127	134	141	149	156	164
	7	CFM	900	850	800	750	700	650	600	550	500	450
		W	78	85	92	98	105	112	119	125	132	139
	6	CFM	750	700	625	575	525	450	400	350	300	225
		W	53	58	64	69	75	80	85	91	96	102
	5	CFM	825	775	700	650	600	550	500	450	400	350
		W	64	70	76	82	88	94	100	106	112	118
	4	CFM	625	550	475	425	350	275	—	—	—	—
		W	35	40	45	51	56	61	—	—	—	—
	3	CFM	750	675	625	575	500	450	375	325	275	200
		W	56	62	67	73	79	84	90	96	101	107
	2	CFM	700	650	575	525	475	400	350	275	225	150
		W	48	54	59	64	70	75	80	86	91	96
	1	CFM	500	400	325	250	175	100	—	—	—	—
		W	26	30	35	39	44	48	—	—	—	—
JME12B	9	CFM	1575	1550	1550	1525	1500	1475	1450	1425	1425	1400
		W	413	418	425	432	440	450	460	472	484	498
	8	CFM	1400	1375	1350	1325	1300	1275	1250	1225	1200	1175
		W	276	285	293	302	311	319	328	336	345	353
	7	CFM	1175	1125	1100	1050	1025	975	950	900	875	825
		W	155	163	170	178	186	193	201	209	216	224
	6	CFM	1100	1050	1000	975	925	875	850	800	775	725
		W	128	136	143	151	158	166	174	181	189	196
	5	CFM	1000	950	900	850	800	775	725	675	625	575
		W	100	107	115	122	129	137	144	152	159	166
	4	CFM	775	725	675	625	550	500	450	375	325	275
		W	59	65	71	77	83	89	95	101	108	114
	3	CFM	725	675	625	550	500	425	375	325	250	200
		W	52	58	63	69	75	81	86	92	98	104
	2	CFM	475	400	300	225	150	—	—	—	—	—
		W	24	29	33	38	42	—	—	—	—	—
	1	CFM	400	300	225	—	—	—	—	—	—	—
		W	19	23	28	—	—	—	—	—	—	—
JME12C	9	CFM	1650	1625	1575	1550	1500	1475	1425	1400	1350	1325
		W	286	298	310	322	334	346	358	370	382	395
	8	CFM	1500	1450	1400	1350	1325	1275	1225	1200	1150	1100
		W	208	219	231	242	253	264	276	287	298	309
	7	CFM	1300	1250	1200	1150	1075	1025	975	925	875	825
		W	142	152	162	172	182	192	203	213	223	233
	6	CFM	1200	1150	1100	1050	1000	925	875	825	775	725
		W	124	133	142	152	161	170	180	189	198	208
	5	CFM	1000	925	850	800	725	675	600	550	475	425
		W	77	85	92	100	107	115	123	130	138	145
	4	CFM	850	775	700	600	525	450	375	300	225	—
		W	54	60	67	73	79	86	92	98	105	—
	3	CFM	825	750	675	600	525	450	—	—	—	—
		W	54	61	67	74	81	87	—	—	—	—
	2	CFM	675	575	475	400	300	200	—	—	—	—
		W	36	41	46	52	57	62	—	—	—	—
	1	CFM	500	375	275	—	—	—	—	—	—	—
		W	22	27	31	—	—	—	—	—	—	—

Table 22: Airflow data (CFM per Watts)

Model	Blower motor speed tap number	External static pressure (in. W.C.)										
		Unit	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
JME16C	9	CFM	1975	1950	1900	1875	1850	1825	1775	1750	1725	1700
		W	458	471	483	496	509	521	534	546	559	571
	8	CFM	1825	1775	1750	1725	1675	1650	1600	1575	1550	1500
		W	360	372	384	397	409	421	433	446	458	470
	7	CFM	1550	1500	1450	1400	1375	1325	1275	1250	1200	1150
		W	221	232	243	254	265	276	287	298	309	320
	6	CFM	1475	1425	1375	1325	1300	1250	1200	1150	1100	1050
		W	202	213	224	235	246	256	267	278	289	299
	5	CFM	1275	1225	1175	1100	1050	1000	950	900	825	775
		W	139	149	158	168	178	188	197	207	217	227
	4	CFM	950	875	800	750	675	600	550	475	400	350
		W	73	80	87	95	102	110	117	125	132	139
	3	CFM	725	650	550	475	400	325	225	—	—	—
		W	41	47	53	59	65	71	77	—	—	—
	2	CFM	650	550	450	350	275	175	—	—	—	—
		W	34	39	45	50	55	60	—	—	—	—
	1	CFM	475	375	250	150	—	—	—	—	—	—
		W	23	28	33	38	—	—	—	—	—	—
JME18D	9	CFM	2375	2325	2275	2250	2200	2175	2125	2100	2050	2000
		W	594	611	627	644	661	677	694	711	727	744
	8	CFM	2200	2175	2125	2075	2025	1975	1950	1900	1850	1800
		W	474	489	504	519	534	549	564	579	594	609
	7	CFM	1975	1925	1875	1825	1775	1725	1675	1625	1575	1525
		W	340	354	368	382	396	410	424	438	452	466
	6	CFM	1650	1575	1525	1450	1400	1325	1275	1200	1150	1075
		W	204	212	222	234	246	260	275	291	308	327
	5	CFM	1500	1450	1375	1300	1250	1175	1100	1050	975	900
		W	161	173	186	199	212	225	237	250	263	276
	4	CFM	1350	1300	1225	1150	1075	1000	925	850	800	725
		W	127	138	149	160	171	182	193	204	215	226
	3	CFM	900	825	725	625	525	450	350	250	—	—
		W	56	63	71	79	86	94	101	109	—	—
	2	CFM	700	600	475	375	250	125	—	—	—	—
		W	35	43	50	57	62	65	—	—	—	—
	1	CFM	650	525	400	275	150	—	—	—	—	—
		W	32	38	44	50	56	—	—	—	—	—
① Note: • No electric heat installed. • Air handler units have been tested to UL 60335-2-40 standards up to 0.6 in. wc. 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. external static pressure. • Airflow data shown is from testing performed at 230 V. JHE units use a standard ECM constant torque motor, and there is minimal variation of airflow at other distribution voltage values. The above data can be used for airflow at other distribution voltages.												