



Technical Guide

Premium Variable Speed ECM Single Piece Multi-position Air Handlers

For use with variable capacity split-system cooling
and heat pumps

Models: JHVV Series



Due to continuous product improvement, specifications are subject to change without notice.

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Additional rating information can be found at
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WARRANTY SUMMARY

Standard 5-year limited parts warranty.

Extended 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or closing for new home construction.

Description

This fan coil line offers the ultimate in application flexibility. This unit may be used for upflow, downflow, horizontal right, or horizontal left applications.

JHVV air handlers models contain a factory-installed electronic expansion device (EEV) and are specifically used only with matching variable capacity outdoor sections.

Features

MaxAlloy™ coil - long-life aluminum coils built to deliver lasting performance, efficiency, and reliability

Electronic Expansion Valve (EEV) - factory-installed and sized to match with specific high-efficiency variable capacity outdoor units

Next generation even-flow distributor - designed for balanced refrigerant flow and even coil circuit performance

Next generation high-efficiency blower - delivers increased airflow and reduced 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

Tool-less filter access - sliding latch design provides quick and easy access

Designed for easy installation and service - 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 post-powder painted aluminum or galvanized steel to prevent corrosion

Thermoset drain pan - positive slope for drainage to reduce cause for potential mold or contaminants

List of sections

Description	1
Features	1
Nomenclature	2
Dimensions and duct connections	3
Technical data	4
Power wiring	9
Accessories	9
Limitations	10
Typical applications	11
Control wiring	11
Airflow data	12

Nomenclature

Brand	J	J = JCI air handler
Type	H	H = one piece
Motor type	V	V = variable speed ECM E = standard ECM P = PSC
Stage	V	S = single stage capable T = two stage capable V = variable stage capable
Cabinet width	B	A = 14.5 in. D = 24.5 in. B = 17.5 in. E = 19.6 in. C = 21 in. F = 22 in.
Nominal unit capacity	24	18 = 1.5 ton 42 = 3.5 ton 24 = 2 ton 48 = 4 ton 30 = 2.5 ton 60 = 5 ton 36 = 3 ton
Slab size	D	A = 2R-14-18 F = 3R-24-14 B = 2R-16-18 G = 3R-28-12 C = 2R-20-18 H = 3R-32-12 D = 3R-20-14 J = 4R-28-12 E = 3R-22-14 Z = HD match only
Metering device	XX	BA-BW = factory TXV E1-E9 = factory EEV XX = no valve Y0 = HD match only
Control strategy	S	C = communicating B = wireless (communicating) S = standard (conventional) W = wireless (conventional)
Voltage (voltage-phase-hertz)	2	2 = 208/230-1-60 4 = 460-3-60 3 = 208/230-3-60
Accessories	N	S = A2L sensor N = none (no sensor)
Generation (major revision)	1	1 = first generation 2 = second generation
Style letter (minor revision) not used for ordering	A	A = style A B = style B

Dimensions and duct connections

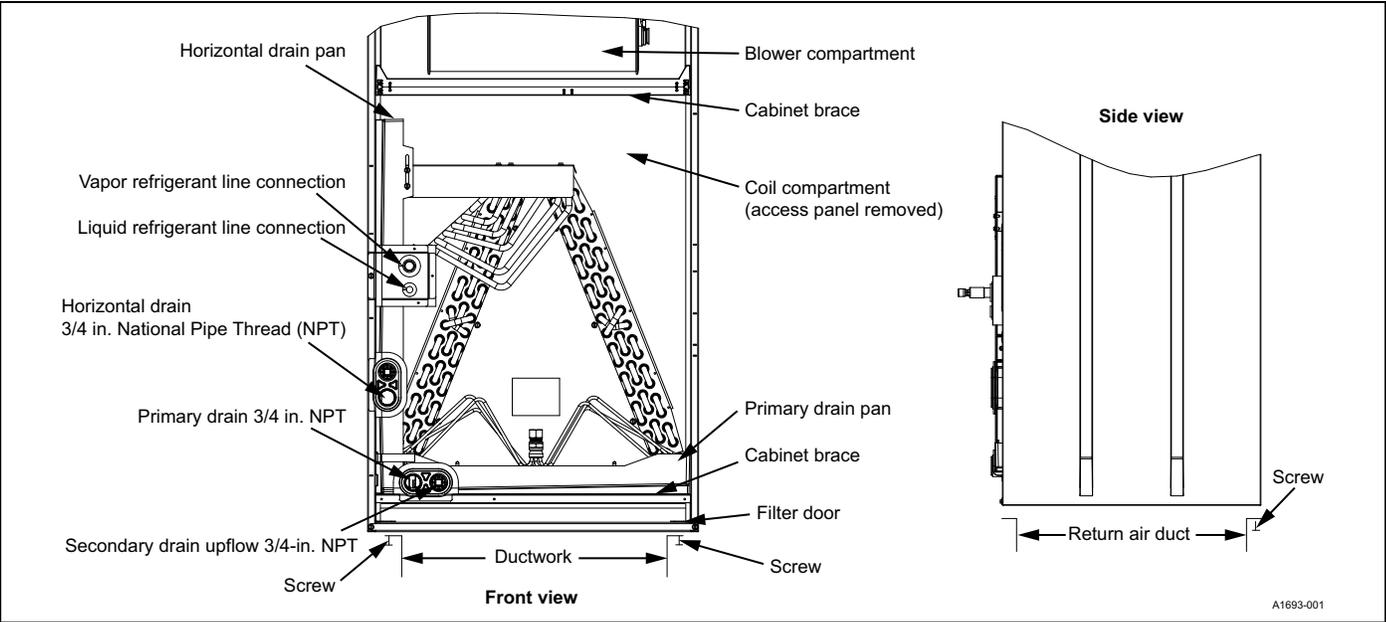


Figure 1: Return air duct attachment and component location

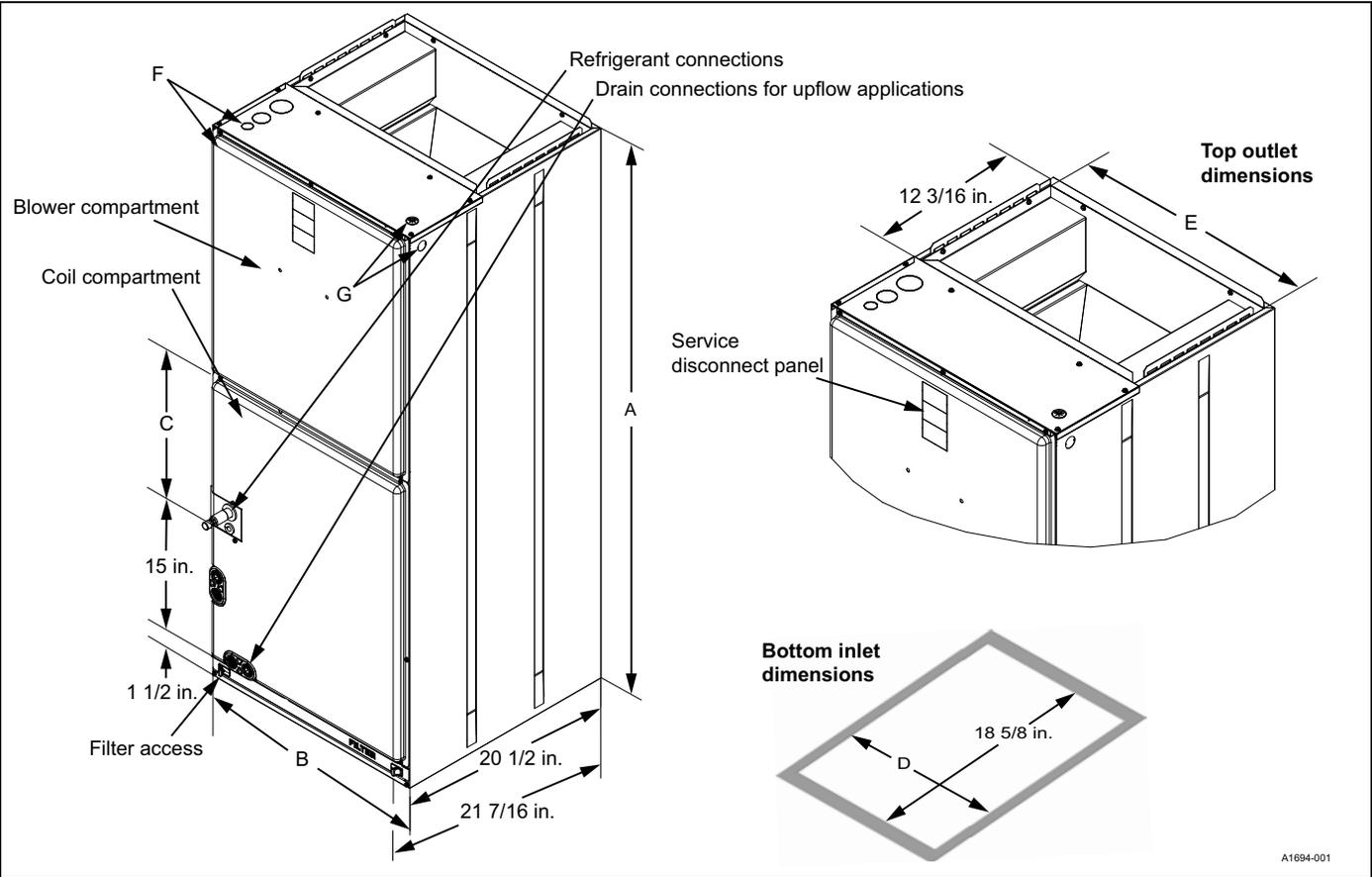


Figure 2: Return air duct attachment and component location

Table 1: Dimensions¹

Models	Dimensions					Wiring knockouts ²		Refrigerant connections line size	
	A	B	C	D	E	F	G	Liquid (in.)	Vapor (in.)
	Height (in.)	Width (in.)	Opening widths (in.)			Power (in.)	Control (in.)		
JHVVB24D	49 5/8	17 1/2	10	16 1/2	16 1/2	7/8 (1/2) 1 3/8 (1) 1 23/32 (1 1/4)	7/8 (1/2)	3/8	3/4
JHVVB36D	49 5/8	17 1/2	10	16 1/2	16 1/2				
JHVVC36D	51	21	11 1/2	20	20				
JHVVC48H	63	21	23 1/2	20	20			7/8	7/8
JHVVD48H	63	24 1/2	23 1/2	23 1/2	23 1/2				
JHVVC60H	63	21	23 1/2	20	20				
JHVVD60H	63	24 1/2	23 1/2	23 1/2	23 1/2				

1. All dimensions are in inches

2. Actual size (conduit size)

Technical data

Table 2: Coil technical data

Models	Application	Refrigeration connection type	Face area (ft ²)	Rows	Fins per inch	Coil size (in.)	Tube geometry (in.)	Tube diameter (in.)	Fin type
B24D	Cooling/heat pump	Sweat	4.7	3	14	(2) 20 x 17	1 x 0.675	3/8	Lanced
B36D			4.7	3	14	(2) 20 x 17			
C36D			4.7	3	14	(2) 20 x 17			
C48H			7.6	3	12	(2) 32 x 17			
D48H			7.6	3	12	(2) 32 x 17			
C60H			7.6	3	12	(2) 32 x 17			
D60H			7.6	3	12	(2) 32 x 17			

Table 3: Cooling capacity¹

Models	Rated CFM ²	Entering Air Dry/Wet Bulb (°F)	MBH at evaporation temperature and corresponding R-410A pressure (°F/psig)			
			35/107.9	40/118.9	45/130.7	50/143.3
B24D	800	85/72	72.6	64.6	55.8	46.3
		80/67	59.2	51.2	42.4	33.4
		75/62	47.0	38.9	30.6	21.4
		70/57	35.9	28.1	19.8	15.1
B36D	1200	85/72	80.2	72.1	62.8	52.0
		80/67	65.5	57.2	47.4	36.5
		75/62	52.0	43.5	33.4	22.2
		70/57	39.9	30.9	22.1	16.8
C36D	1200	85/72	80.2	72.1	62.8	52.0
		80/67	65.5	57.2	47.4	36.5
		75/62	52.0	43.5	33.4	22.2
		70/57	39.9	30.9	22.1	16.8
C48H	1600	85/72	101.0	96.8	89.7	76.0
		80/67	94.8	84.7	70.3	54.7
		75/62	78.2	64.7	50.4	34.6
		70/57	59.8	46.6	33.2	25.9
D48H	1600	85/72	101.0	96.8	89.7	76.0
		80/67	94.8	84.7	70.3	54.7
		75/62	78.2	64.7	50.4	34.6
		70/57	59.8	46.6	33.2	25.9
C60H	1800	85/72	102.3	98.5	93.2	81.5
		80/67	97.7	90.0	75.7	58.7
		75/62	84.4	70.0	54.2	37.4
		70/57	64.8	50.2	36.0	28.1
D60H	1800	85/72	102.3	98.5	93.2	81.5
		80/67	97.7	90.0	75.7	58.7
		75/62	84.4	70.0	54.2	37.4
		70/57	64.8	50.2	36.0	28.1

1. Actual capacity varies with the outdoor AC or HP that is used with the system.

2. Airflow is calculated for each system tonnage.

Table 4: Physical and electrical data - cooling only

Models		B24D	B36D	C36D	C48H	D48H	C60H	D60H
Blower - diameter x width (in.)		11 x 8	11 x 8	11 x 10	11 x 10	11 x 11	11 x 10	11 x 11
Motor	HP	1/3 HP	1/2 HP	1/2 HP	1 HP	3/4 HP	1 HP	3/4 HP
	Nominal RPM	1050	1050	1050	1050	1050	1050	1050
Voltage (V)		208/230	208/230	208/230	208/230	208/230	208/230	208/230
Full load amps at 230 V (A)		2.6	3.8	3.8	7.0	5.4	7.0	5.4
Filter ¹	Type	Disposable or cleanable						
	Size (in.)	16 x 20 x1	16 x 20 x1	20 x 20 x 1	20 x 20 x 1	23 x 20 x 1	20 x 20 x 1	23 x 20 x 1
Shipping/operating weight (lb)		110 / 102	110 / 102	126 / 116	157 / 145	162 / 150	157 / 145	162 / 150

1. Field supplied

Table 5: Electrical data - cooling only

Models	Motor FLA ¹	Minimum Circuit Ampacity (A)	MOP ²
B24D	2.6	3.3	15
B36D/C36D	3.8	4.8	15
C48H/C60H	5.4	6.8	15
D48H/D60H	7	8.8	15

1. FLA = Full Load Amps

2. 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.

Table 6: Electrical heat: minimum fan CFM for single-phase heatkits

Heater kit models ^{1,2}	Nominal kW at 240 V	Airflow configuration heat dip switch setting*	Aux heat configuration heatkit selection dip switch setting	Air handler models (CFM ³)						
				B24D	B36D	C36D	C48H	D48H	C60H	D60H
8HK(0,1)6500206	2.4	00	0001	650	625	825	825	825	825	825
8HK(0,1)6500506	4.8	00	0010	650	650	825	825	825	825	825
8HK(0,1)6500806	7.7	00	0011	800	750	1100	1100	1150	1100	1150
8HK(0,1)6501006	9.6	00	0100	—	750	1100	1100	1325	1100	1325
8HK(1,2)6501506	14.4	00	0101	—	650, 975	825, 1100	825, 1100	825, 1575	825, 1100	825, 1575
8HK(1,2)6502006	19.2	00	0110	—	—	1100, 1300	1100, 1300	1325, 1575	1100, 1300	1325, 1575
8HK(1,2)6502506	24	00	0111	—	—	—	—	1325, 1650	—	1325, 1650

1. (0,1) - 0 = no service disconnect or 1 = with service disconnect

2. (1,2) - 1 = with service disconnect, no breaker jumper bar or 2 = with service disconnect and breaker jumper bar

3. For minimum fan CFM, if there are two values present, the first value is low-stage CFM (W1) and the second value is full-stage CFM (W1+W2). If higher kW/CFM is needed for low-stage, see **Table 8**.

* To increase airflow by approximately 20%, adjust the HEAT DIP switches from 00 to 01.

Table 7: Electrical heat: minimum fan CFM for three-phase heatkits

Heater kit models ^{1,2}	Nominal kW at 240 V	Airflow configuration heat dip switch setting*	Aux heat configuration heatkit selection dip switch setting	Air handler models (CFM ³)					
				B36D	C36D	C48H	D48H	C60H	D60H
8HK06501025	9.6	00	1000	1150	1150	1150	1500	1150	1500
8HK06501525	14.4	00	1001	1150	1150	1150	1575	1150	1575
8HK16502025	19.2	00	1010	1150, 1150	1150, 1300	1150, 1300	1500, 1575	1150, 1300	1500, 1575
8HK16502525	24	00	1011	—	—	—	1575, 1650	—	1575, 1650

1. (0,1) - 0 = no service disconnect or 1 = with service disconnect

2. (1,2) - 1 = with service disconnect, no breaker jumper bar or 2 = with service disconnect and breaker jumper bar

3. For minimum fan CFM, if there are two values present, the first value is low-stage CFM (W1) and the second value is full-stage CFM (W1+W2). If higher kW/CFM is needed for low-stage, see **Table 8**.

* To increase airflow by approximately 20%, adjust the HEAT DIP switches from 00 to 01.

Table 8: Aux heat configuration - stage 1 kW DIP switch settings

W1 = W1	00, 01
W1 = W2	10
W1 = W1 + W2	11

Table 9: kW and MBH conversions - for total power input requirement

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 the following table.

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

Table 10: Application factors - rated CFM vs actual CFM

% of rated airflow (CFM)	80	90	100	110	120
Capacity factor	0.96	0.98	1.00	1.02	1.03

Table 11: Electric heat performance data: 208/230-1-60 and 208/230-3-60

Heater models ^{1,2}		Nominal kW at 240 V	Total heat ³				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. (0,1) - 0 = no service disconnect or 1 = with service disconnect

2. (1,2) - 1 = with service disconnect, no breaker jumper bar or 2 = with service disconnect and breaker jumper bar

3. For different power distributions, see **Table 9**.

Table 12: Electrical data for single-source power supply: 208/230-1-60

Air handler models	Heater models ^{1,2}	Heater amps (A) at 240 V	Field wiring			
			Minimum circuit ampacity (A)		MOP ³ (A)	
			208 V	230 V	208 V	230 V
B24D	8HK(0,1)6500206	10	14.1	15.2	15	20
	8HK(0,1)6500506	20	24.9	27.2	25	30
	8HK(0,1)6500806	32	38.1	41.8	40	45
B36D	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
C36D	8HK(1,2)6501506	60	69.7	76.5	70	80
	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)6502006	80	91.3	100.4	100	110
C48H	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

Continued on next page.

Table 12: Electrical data for single-source power supply: 208/230-1-60 (continued)

Air handler models	Heater models ^{1,2}	Heater amps (A) at 240 V	Field wiring			
			Minimum circuit ampacity (A)		MOP ³ (A)	
			208 V	230 V	208 V	230 V
D48H	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	60	60
	8HK(1,2)6501506	60	71.7	78.5	80	80
	8HK(1,2)6502006	80	93.3	102.4	100	110
	8HK(1,2)6502506	100	114.9	126.3	125	150
C60H	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	114.9	126.3	125	150
D60H	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	60	60
	8HK(1,2)6501506	60	71.7	78.5	80	80
	8HK(1,2)6502006	80	93.3	102.4	100	110
	8HK(1,2)6502506	100	114.9	126.3	125	150

1. (0,1) - 0 = no service disconnect or 1 = with service disconnect

2. (1,2) - 1 = with service disconnect, no breaker jumper bar or 2 = with service disconnect and breaker jumper bar

3. 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.

Table 13: Electrical data for multi-source power supply: 208/230-1-60

Air handlers models	Heater models ¹	Heater amps (A) at 240 V	Minimum circuit ampacity (A)						MOP ² (A)					
			208 V			230 V			208 V			230 V		
			Circuit						Circuit					
			First ³	Second	Third	First ³	Second	Third	First ³	Second	Third	First ³	Second	Third
B36D	8HK16501506	60	26.2	43.5	—	28.4	48.1	—	30	45	—	30	50	—
C36D	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	—
C48H	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	—
D48H	8HK16501506	60	28.2	43.5	—	30.4	48.1	—	30	45	—	35	50	—
	8HK16502006	80	50.0	43.3	—	54.6	47.8	—	60	45	—	60	50	—
	8HK16502506	100	50.0	43.3	21.6	54.6	47.8	23.9	60	45	25	60	50	25
C60H	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	—
D60H	8HK16501506	60	28.2	43.5	—	30.4	48.1	—	30	45	—	35	50	—
	8HK16502006	80	50.0	43.3	—	54.6	47.8	—	60	45	—	60	50	—
	8HK16502506	100	50.0	43.3	21.6	54.6	47.8	23.9	60	45	25	60	50	25

1. (0,1) - 0 = no service disconnect or 1 = with service disconnect

2. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. The first circuit includes blower motor amps. 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.

Table 14: Electrical data for single source power supply: 208/230-3-60

Air handler models	Heater models ¹	Heater amps (A) at 240 V	Field wiring			
			Minimum circuit ampacity (A)		MOP ² (A)	
			208 V	230 V	208 V	230 V
B36D	8HK06501025	23.1	29.7	32.4	30	35
	8HK06501525	34.6	42.2	46.2	45	50
C36D	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
C48H	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
D48H	8HK06501025	23.1	31.7	34.4	35	35
	8HK06501525	34.6	44.2	48.2	45	50
	8HK06502025	46.2	56.7	62.0	60	70
	8HK06502525	57.7	69.2	75.8	70	80
C60H	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
D60H	8HK06501025	23.1	31.7	34.4	35	35
	8HK06501525	34.6	44.2	48.2	45	50
	8HK06502025	46.2	56.7	62.0	60	70
	8HK06502525	57.7	69.2	75.8	70	80

1. 0 = no service disconnect or 1 = with service disconnect. The 20 kW and 25 kW heater models (8HK16502025 and 8HK16502525) come with service disconnects standard. Single source power MCA and MOP requirements are given here only for reference if used with field installed single point power modification.
2. MOP = Maximum overcurrent protection device; must be HACR type circuit breaker or time delay fuse. The first circuit includes blower motor amps. 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.

Table 15: Electrical data for multi-source power supply: 208/230-3-60

Air handlers models	Heater models ¹	Heater amps (A) at 240V	Minimum circuit ampacity (A)				MOP ² (A)			
			208V		230V		208V		230V	
			Circuit				Circuit			
			First ²	Second	First ²	Second	First ²	Second	First ²	Second
C36D	8HK16502025	46.2	29.7	25.0	32.4	27.6	30	25	35	30
C48H	8HK16502025	46.2	33.7	25.0	36.4	27.6	35	25	40	30
D48H	8HK16502025	46.2	31.7	25.0	34.4	27.6	35	25	35	30
	8HK16502525	57.7	38.0	31.2	41.3	34.5	40	35	45	35
C60H	8HK16502025	46.2	33.7	25.0	36.4	27.6	35	25	40	30
D60H	8HK16502025	46.2	31.7	25.0	34.4	27.6	35	25	35	30
	8HK16502525	57.7	38.0	31.2	41.3	34.5	40	35	45	35

1. The 20 kW and 25 kW heater models (8HK06502025 and 8HK06502525) come with circuit breakers standard.
2. MOP = Maximum overcurrent protection device; must be HACR type circuit breaker or time delay fuse. The first circuit includes blower motor amps. 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

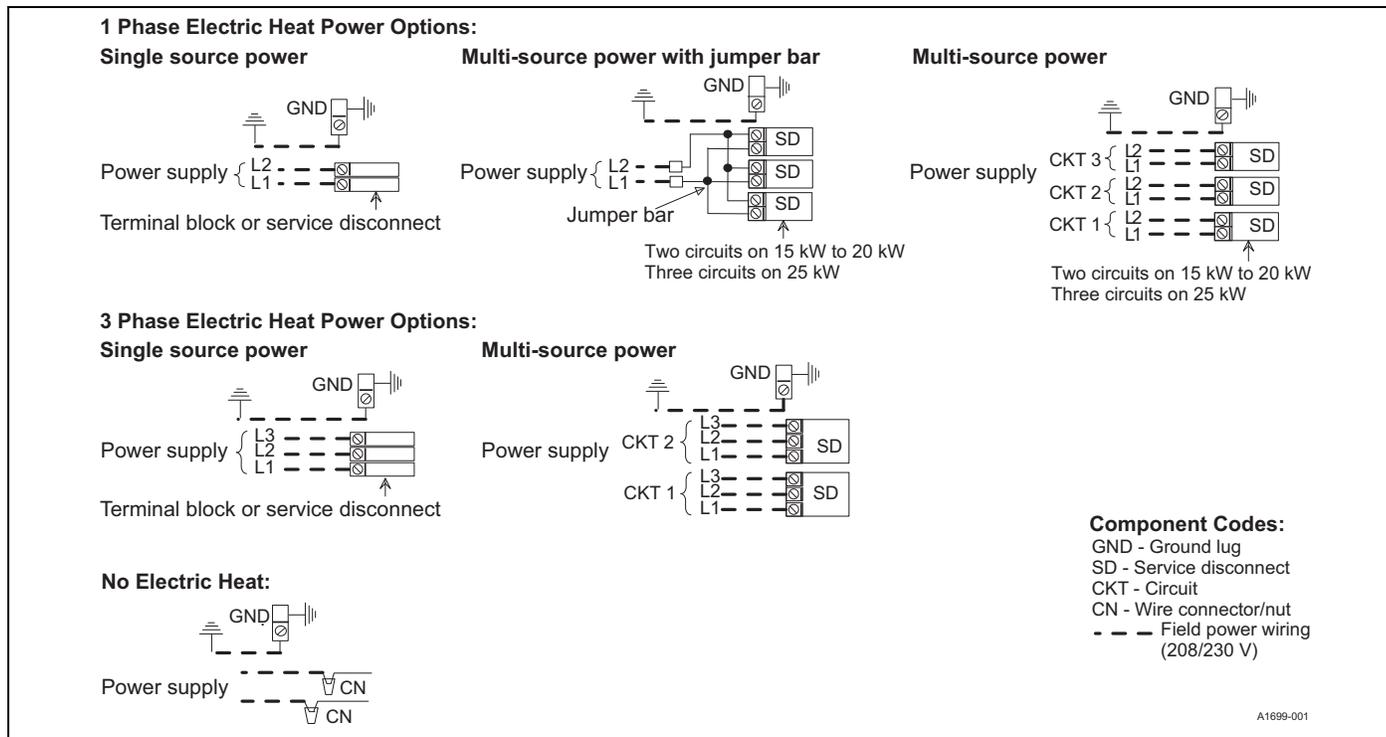


Figure 3: Power wiring - line connections

Accessories

Refer to Price Manual for specific model numbers where not shown.

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.

Single source power accessories (single-phase)	
S1-02435670000	For heat kits with two service disconnects
S1-02435671000	For heat kits with three service disconnects
Single source power accessory (three-phase)	
S1-32436041000	Contains a terminal block and wiring to connect service disconnects together.

Combustible floor base accessory - If an electric heat accessory which is 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, or S1-1FB1924.

Thermostat - Communicating air handling unit requires room thermostat S1-THXU430W.

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.

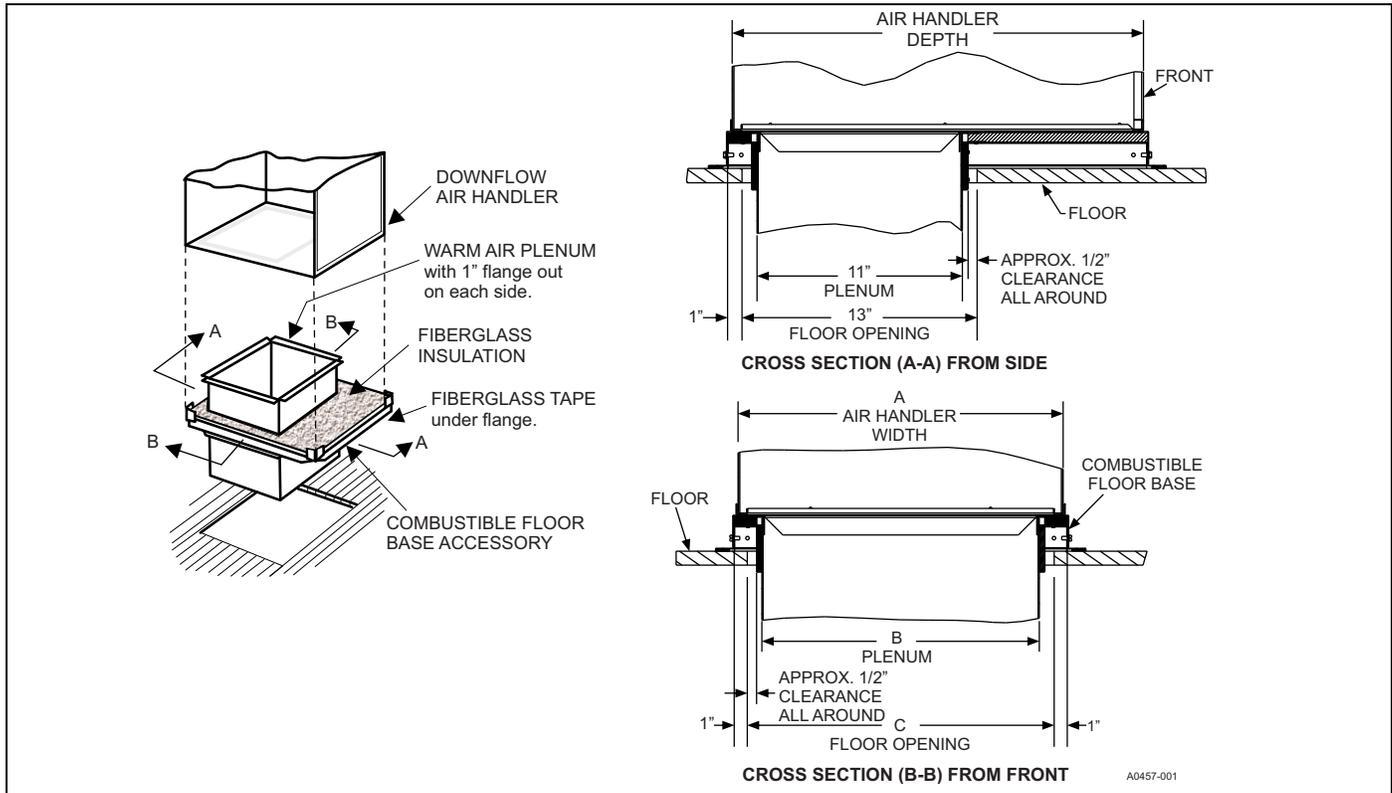


Figure 4: Combustible floor base accessory

Table 16: Combustible floor base accessory dimensions

Floor base models	Used with	Dimensions (in.)		
		A	B	C
1FB1917	B24D, B36D	17.5	14.0	16.0
1FB1921	C36D, C48H, C60H	21.0	17.5	19.5
1FB1924	D48H, D60H	24.5	21.0	23.0

Limitations

These units must be wired and installed in accordance with all national and local safety codes.

Voltage limits are as follows:

Air Handler Voltage	Voltage code	Normal Operating Voltage Range ¹
208/230-1-60	06	187-253

1. Rated in accordance with ARI Standard 110, utilization range A.

Airflow must be within the minimum and maximum limits approved for electric heat, evaporator coils and outdoor units.

Typical applications

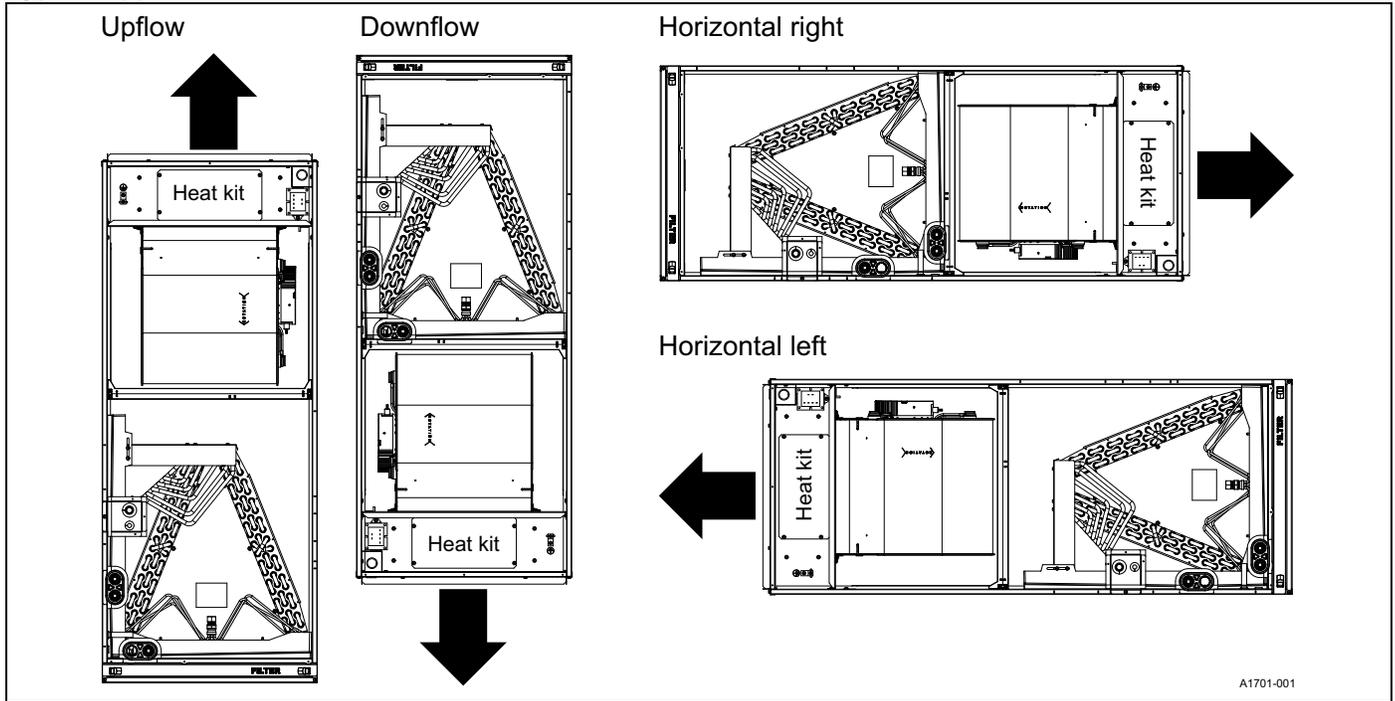


Figure 5: Typical applications

Control wiring

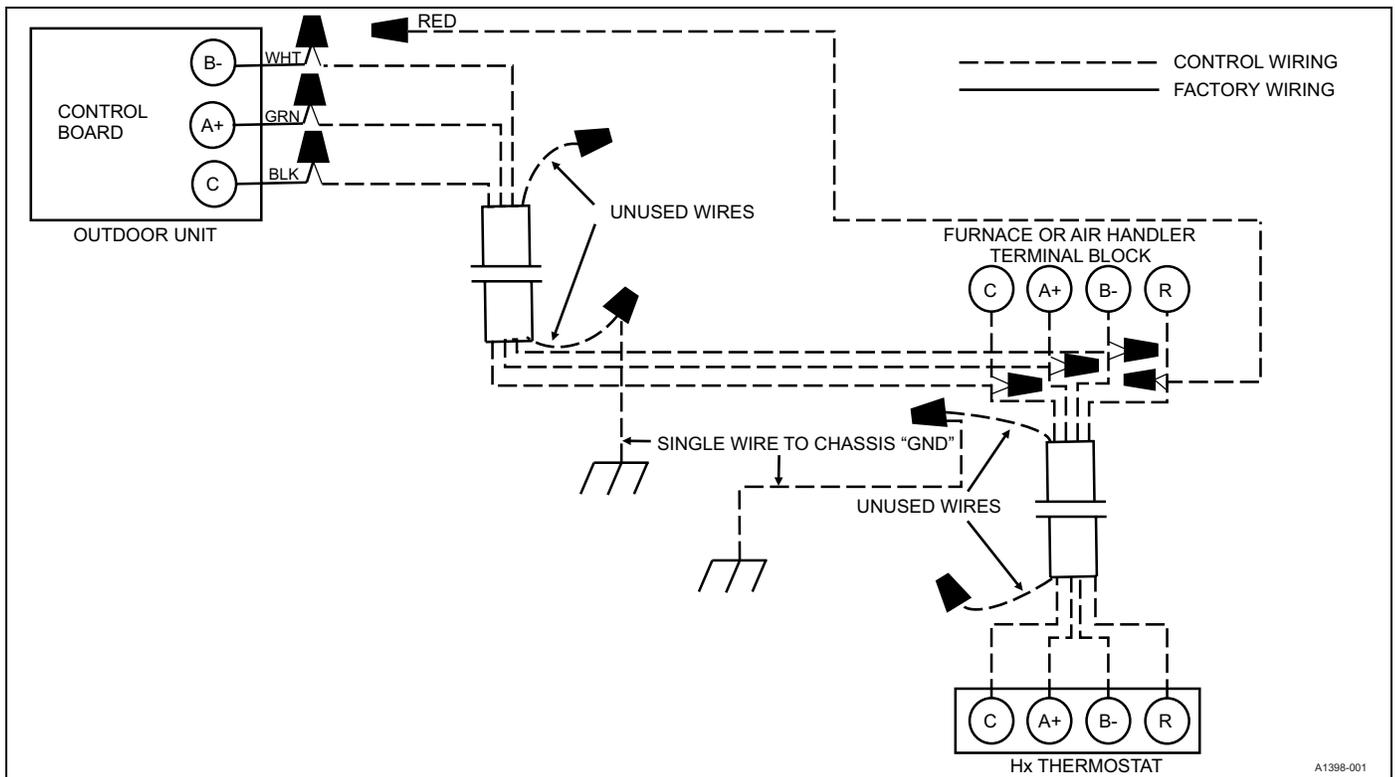


Figure 6: Typical communicating field wiring for air handler or furnace

Airflow data

Table 17: Airflow data (CFM per Watts)

DIP Switch	Unit	B24D	B36D	C36D	C48H	D48H	C60H	D60H
		High						
000	CFM	400	525	400	400	425	400	425
	W	83	93	82	78	80	78	80
001	CFM	550	675	550	725	725	725	725
	W	101	131	96	137	130	137	130
010	CFM	725	875	825	1100	1100	1100	1100
	W	145	189	143	232	204	232	204
011	CFM	900	1125	1100	1475	1475	1475	1475
	W	216	298	217	399	328	399	328
100	CFM	N/A	1350	1350	1800	1825	1800	1825
	W	N/A	461	337	647	533	647	533

Notes:

- Air handler units have been tested to UL 60335-2-40 / CSA 22.2 No. 236 standards up to 0.6 in. W.C. external static pressure.
- Dry coil conditions only, tested without filters.
- For optimal performance, external static pressures of 0.2 in. W.C to 0.5 in. W.C are recommended. Heating applications tested at 0.5 in. W.C. external static pressure. Above 0.5 in. W.C., CFM is reduced by 2% per 0.1 in. increase in static.
- Dehumidification speed is 85% of commanded cooling speed.
- The variable capacity outdoor unit commands the required airflow based on compressor speed. Indoor heating operates off the heat kit selection and the HEAT DIP switches.
- 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.
- Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (for example, 12 flashes is 1200 CFM) - blinks are approximate $\pm 10\%$ of actual CFM.