

Brand	J	J = JCI air handle	r
Туре	н	H = one piece	
		V = variable spee	d ECM
Motor type	V	E = standard ECM	Л
		P = PSC	
		S = single stage of	apable
Stage	T	T = two stage cap	able
		V = variable stage	e capable
		A = 14.5 in.	D = 24.5 in.
Cabinet width	B	B = 17.5 in.	E = 19.6 in.
		C = 21 in.	F = 22 in.
		18 = 1.5 ton	42 = 3.5 ton
Nominal	24	24 = 2 ton	48 = 4 ton
unit capacity	24	30 = 2.5 ton	60 = 5 ton
		36 = 3 ton	
		A = 2R-14-18	F = 3R-24-14
		B = 2R-16-18	G = 3R-28-12
Slab size	D	C = 2R-20-18	H = 3R-32-12
		D = 3R-20-14	J = 4R-28-12
		E = 3R-22-14	Z = HD match o
		BA-BW = factory	TXV
Metering device	XX	E1-E9 = factory E	EV
and an and a state of the state	1	XX = no valve	
		Y0 = HD match o	nly
		C = communicatir	ng
Control strategy	s	B = wireless (com	municating)
		S = standard (cor	iventional)
		W = wireless (cor	iventional)
Voltage	2	2 = 208/230-1-60	4 = 460-3-60
(vonage-phase-nertz)		3 = 208/230-3-60	
Accessories	N	S = A2L sensor	
	<u> </u>	N = none (no sen	sor)
Generation	1	1 = first generatio	n
(major revision)		2 = second gener	ation
Style letter	1	A = style A	



New Platform Air Handlers utilize 8HK Heat Kits.

Heater kit models ^{1,2}	Nominal kW at 240 V
8HK(0,1)6500206	2.4
8HK(0,1)6500506	4.8
8HK(0,1)6500806	7.7
8HK(0,1)6501006 8HK06501025	9.6
8HK(1,2)6501506 8HK06501525	14.4
8HK(1,2)6502006 8HK16502025	19.2
8HK(1,2)6502506 8HK16502525	24

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.



ring

A B = style B

Style letter (minor revision) not used for orde



JHVT JMVT JVVT

- There are 2 sets of switches that must be set prior to any thermostat wires are connected.
- Apply power to Air Handler and the model configuration will be the 1st. To set.
- SW2 is a bank of 6 switches.
- Per the 2023 installation manual or ST-004-2023 find the model of air handler.
- Switches will be set on and off in a particular order enter the model configuration.
- Zero is off, One is on.
- From the diagram the switch set point(on or off) will be the white part.



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JHVT JMVT JVVT

- Each model will have a series of on and off settings.
- The white part of the switches are the actual position
- Once the switches are set push and hold the button for 6-10 seconds
- Use a stopwatch for this.
- Settings will not be saved unless the switch is pressed in this time frame.





ON

1

1 2 JHVTB24C

1

2 3 4 5 6

2 3 4 5 6

2 3 4 5 6

JHVTB36D

JHVTB18B

ON

ON

ON

JHVTD42F

ON

2 3 4 5

2 3 4 5 6

JHVTD48G

JHVTC48G

ON

1 2 3 4 5 6

1

JHVT JMVT JVVT

- Once the model is saved a verification code will flash.
- If the correct verification code doesn't flash confirm switch settings and press the button again.
- Remember 6-10 seconds using a stopwatch.
- Do not go any further until the correct code is displayed.

JHVT JMVT JVVT

• Once the model configuration is saved there will be a 03-code displayed.

JHVTB18B

JHVTB24C JHVTB36D

JHVTC36D

IHVTC42F

JHVTD42F

JHVTC48G JHVTD48G

JHVTC60H

JHVTD60H

- This is a heater pack set up error.
- It is normal due to there is no heater pack info stored in the board.
- SW3 is the switch bank for this. Switch numbers 3,4,5,6 are used to make the selections.
- Each heater pack size has a particular setting. Settings are found in the install manual or ST-004-2023.
- Zero is off, One is on.
- From the diagram the switch set point(on or off) will be the white part.



1C	JHVTD60J	2d
2C	JMVT12B	1E
3C	JMVT16C	2E
4C	JMVT17C	3E
5C	JMVT20D	4E
6C	JHVVB24D	1A
7C	JHVVB36D	2A
8C	JHVVC36D	3A
9C	JHVVC48H / C60H	4 A
1d	JHVVD48H / D60H	5A

		Airflow	Aux heat				Ai	r handle	er mode	els (CFN	л ³)			
Heater kit models ^{1,2}	Nominal kW at 240 V	configuration heat dip switch setting*	configuration heatkit selection dip switch setting	B18B	B24C	B36D	C36D	C42F	D42F	C48G	D48G	C60H	D60H	D60
8HK(0,1)6500206	2.4	00	0001	625	650	625	825	825	825	825	825	825	825	825
8HK(0,1)6500506	4.8	00	0010	650	650	650	825	825	825	825	825	825	825	825
8HK(0,1)6500806	7.7	00	0011	750	800	750	1100	1100	1150	1100	1150	1100	1150	115
8HK(0,1)6501006	9.6	00	0100	790	950	750	1100	1100	1500	1100	1500	1100	1500	150
8HK(1,2)6501506	14.4	00	0101		650, 950	650, 975	825, 1100	825, 1100	825, 1575	825, 1100	825, 1575	825, 1100	825, 1575	825 170
8HK(1,2)6502006	19.2	00	0110			750, 975	1100, 1300	1100, 1300	1325, 1575	1100, 1300	1325, 1575	1100, 1300	1325, 1575	1500 1700
8HK(1,2)6502506	24	00	0111								1325,		1325, 1650	1500

JHVT JMVT JVVT

- Once the correct heater pack setting complete press and hold the push button for 6-10 seconds.
- Use a stopwatch for this.
- A verification code will appear and confirm the correct heater is saved.
- If the heater is too big for the air handler, it will not save it.
- If appears no heater info was saved.



8HK*6500206	02
8HK*6500506	05
8HK*6500806	08
8HK*6501006	10
8HK*6501506	15
8HK*6502006	20
8HK*6502506	25
8HK*6501025	31
8HK*6501525	32
8HK*6502025	33
8HK*6502525	34

JHVT JMVT JVVT



JHVT JMVT JVVT

- Once the heater configuration is saved there will be a 04-code displayed.
- This is a heater pack staging set up error.
- SW3 is the switch bank for this. Switch numbers 1 and 2 are used to make the selections.
- Heater pack staging is what is required now. Settings are found in the install manual or ST-004-2023.
- Zero is off, One is on.
- From the diagram the switch set point(on or off) will be the white part.



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JHVT JMVT JVVT

- SW3 switch 1 and 2 are staging set up.
- Only valid on 5 possible heat kits. Listed to the right.
- Refer to the installation manual or ST-004-2023 for info.
- If not one of the listed heaters factory setting is required.
- Press the push button for 6-10 seconds to save.

HEAT	KIT STAGING (@ 240V	
	W1	W2	W1+W2
8HK*6501506	4.8	9.6	14.4
8HK*6502006	9.6	9.6	19.2
8HK*6502506	9.6	14.4	24
8HK*6502025	9.6	9.6	19.2
8HK*6502525	12	12	24





JHVT

Table 15: Aux heat configuration - stage 1 kW dip switch settings

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

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

	Hester	Naminal 1/14		Total	heat ³			kW st	aging	
	models ^{1,2}	at 240 V	k	W	M	вн	W1	only	W1 ai	nd W2
	models		208 V	230 V	208 V	230 V	208 V	230 V	208 V	230 V
	8HK(0,1)6500206	2.4	1.8	2.2	6.2	7.5	1.8	2.2	1.8	2.2
İ	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
Single	8HK(0,1)6501006	9.6	7.2	8.8	24.6	30.1	7.2	8.8	7.2	8.8
phase .	8HK(1,2)6501506	14.4	10.8	13.2	36.9	45.1	3.6	4.4	10.8	13.2
Ī	8HK(1,2)6502006	19.2	14.4	17.6	49.2	60.2	7.2	8.8	14.4	17.6
İ	8HK(1,2)6502506	24	18	22	61.5	75.2	7.2	8.8	18	22
	8HK06501025	9.6	7.2	8.8	24.6	30.1	7.2	8.8	7.2	8.8
Three	8HK06501525	14.4	10.8	13.2	36.9	45.1	10.8	13.2	10.8	13.2
phase	8HK16502025	19.2	14.4	17.6	49.2	60.2	7.2	8.8	14.4	17.6
İ	8HK16502525	24	18	22	61.5	75.2	9	11	18	22

(c, r) - o - no service disconnect of 1 - with service disconnect.
 (1,2) - 1 = with service disconnect, no breaker jumper bar or 2 = with service disconnect and breaker jumper bar.
 For different power distributions, see Table 17.

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JHVT JMVT JVVT

- Once those three switches are set, power off the unit and continue the installation.
- The remaining switches do not require the push button to be pressed.
- Set the dip switches for SW4 and SW5 to match the system being installed.
- St-004-2023 will have details for the remaining switches.
- If using in a communication system, the Hx3 stat **MUST** have 3.00 software.
- The DSN from the Wi-Fi screen is required if calling the factory to push.
- The float switch feature is only active with a Hx3 stat and communicating.



		Airflow	Aux heat				Ai	r handle	er mode	els (CFN	1 ³)			
Heater kit models ^{1,2}	Nominal kW at 240 V	configuration heat dip switch setting*	configuration heatkit selection dip switch setting	B18B	B24C	B36D	C36D	C42F	D42F	C48G	D48G	C60H	D60H	D60J
8HK(0,1)6500206	2.4	00	0001	625	650	625	825	825	825	825	825	825	825	825
8HK(0,1)6500506	4.8	00	0010	650	650	650	825	825	825	825	825	825	825	825
8HK(0,1)6500806	7.7	00	0011	750	800	750	1100	1100	1150	1100	1150	1100	1150	1150
8HK(0,1)6501006	9.6	00	0100	790	950	750	1100	1100	1500	1100	1500	1100	1500	1500
8HK(1,2)6501506	14.4	00	0101		650, 950	650, 975	825, 1100	825, 1100	825, 1575	825, 1100	825, 1575	825, 1100	825, 1575	825, 1700
8HK(1,2)6502006	19.2	00	0110			750, 975	1100, 1300	1100, 1300	1325, 1575	1100, 1300	1325, 1575	1100, 1300	1325, 1575	1500, 1700
8HK(1,2)6502506	24	00	0111								1325, 1650		1325, 1650	1500,

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 15** and the heat output section of this manual.

* To increase airflow by approximately 20%, adjust the HEAT switches 1 and 2, located in the airflow configuration SW4 switch bank, from 00 to 01.

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HUMIDISTAT Switch The HUMIDISTAT switch configures the Airflow configuration control to monitor the humidity switch input. With the switch in the OFF position, the Π control ignores the HUM input. HI COOL DELAY VHEAT/ LO COOL With the switch in the ON position, the control monitors the HUM input to control the blower speed for dehumidification during Heatkit selection cooling operation. A1731-001 Figure 27: Variable speed board dip switch locations - heat kit

The HUM input is strictly for dehumidification during cooling operation and has no control over the HUM OUT humidifier connections.





Single-stage thermostat Stage delay

For conventionally wired systems, it is possible to use a singlestage thermostat even if the air handler is equipped with a multistage accessory electric heat kit

Adjust the STAGE DELAY dip switch settings to allow a W2 heat kit output when a W1 input is present after a 10 min, 15 min, or20 min delay. See Table 4

Table 4: Stage delay switches

STAGE DELAY	Time (min)
00	disabled
01	10
10	15
11	20









	Setting Continu	uous Fan Airflow	
The CONT fan-only ca maximum a	FAN switches can be ac III. See Table 9, which sh airflow.	ljusted to increase airflow dur nows values as a percentage o	ing a of
	CONT FAN	% of maximum airflow	
	00	40	
	01	60	
	10	80	
	11	100	
	D		

Delay tap Comfort setting
Delay tap Comfort setting
Denay tap
A = 00 Normal
B = 01 Humid
C = 10 Dry
D = 11 Temperate

**





JHVT With HMH7 S1 Function

To enable S1 mode, with the power off and no field thermostat wires connected to the air handler control board, complete the following steps:

1. Set all configuration jumper settings such as heat, cool, AC/HP, continuous fan speed, and heat kit selection to the appropriate positions

2. Place a wire jumper from the R terminal on the communicating wiring connection to the S1 input as shown in Figure 24

3. Apply power to the air handler.



JHVT With HMH7 S1 Function

To enable S1 mode, with the power off and no field thermostat wires connected to the air handler control board, complete the following steps:

1. Set all configuration jumper settings such as continuous fan speed, and heat kit selection to positions

2. Place a wire jumper from the R terminal on tl wiring connection to the S1 input as shown in I

3. Apply power to the air handler.



XORK

JHVT With HMH7	
S1 Function	
4. When the control is in standby mode, push and hold the pushbutton located below the 7-segment display for more than 6 s, then release the pushbutton. The 7-segment display should display S1.	
5. Remove power from the air handler and field-installed jumper wire.	
The Unit is now in the S1 Mode.	
This Mode can be Removed if needed.	
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JHVT Control Board

Replacement Blower Motor for the JHVT

The Replacement Motor will come as an Un-Programed Motor.

The JHVT Control will Program the Motor Automatically.







Duct Flanges / Plenum Connection

Duct flanges

Duct flanges are integrated into the casing. Fold the flanges into position and use screws to anchor the flanges.





Blank Off Plate

Figure 8: Ductwork transition

Figure 7: Duct attachment

Brand	X	X = JCI Evaporator Coil	
Turne	•	A = A Coil	
туре	A	S = Slab Coil	
		F = Full Case, Up/Dn	
	1 -	H = Horizontal Cased	
Configuration		U = Uncased, Up/Dn	
		D = Horizontal Duct	
		A = 14.5"	
Cabland	D D	B = 17.5"	
Cabinet	P	C = 21.0"	
		D = 24.5"	
		18 = 1.5 Ton	42 = 3.5 Ton
	20	24 = 2 Ton	48 = 4-Ton
Nominal Capacity	30	30 = 2.5 Ton	60 = 5-Ton
		36 = 3 Ton	
		A = 2R-14-18	F = 3R-24-14
		B = 2R-16-18	G = 3R-28-12
Slab Size	D	C = 2R-20-18	H = 3R-32-12
	-	D = 3R-20-14	J = 4R-28-12
		E = 3R-22-14	
		BA-BW = TXV P/N	
Metering Device	BA	E1-E9 = EEV P/N	
		XX = no valve (flex)	
		S = A2L Sensor	
Accessories	Ν	N = None (No Sensor)	
	1	1 = 1st Gen	
Generation	1	2 = 2nd Gen	
	-	etc	
Style Letter		A = Style A B = Style B	
Style Letter		D - Style D	















Recommended Distributor Adjustment

Adjust the distributor position to allow the preformed liquid line assembly to correctly line up with the hole in the tubing access panel.

Raise the distributor body approximately 2 in. toward the top of the coil or what would be the top of the coil if the coil was in the up-flow position and adjust as necessary. See Figure 10.

Figure 10: Recommended distributor adjustment







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Next Generation Indoor Coils – XAF / XAH Repositioning the transition angle for downflow or horizontal right application with a furnace: XAF and XAH coils Figure 25: XAH horizontal right application with furnace About this task: The coil cabinet has a factory installed transition angle on the bottom front side of the cabinet. ie plate For downflow or horizontal right applications with a furnace, you must reposition this angle to the top front side of the cabinet. Furnace Transition angle *** YORK**



	There are Charts for each Model Coil and Positioning								
		Cha	art helo	w is on	e evam	nle			
		Chi		W 13 OII	e exam	ipic			
le 10: XAH airfl	ow data (CEI	M) - horizor	tal left						
		1) - 110112011			CEM				
	400	600		4000	CFIM	4.400	4600	4000	2000
Modelc	400	600	800	1000	1200	1400	1600	1800	2000
Woders				External st	atic pressu	ire (in. W.C.)			
Models									
ХАНС60Н	0.02	0.05	0.08	0.12	0.17	0.23	0.30	0.37	0.46
XAHC60H XAHD60H	0.02	0.05	0.08	0.12	0.17 0.12	0.23 0.16	0.30 0.20	0.37 0.25	0.46 0.30
XAHC60H XAHD60H XAHD60J	0.02 0.02 0.03	0.05 0.04 0.06	0.08 0.06 0.09	0.12 0.08 0.13	0.17 0.12 0.17	0.23 0.16 0.22	0.30 0.20 0.29	0.37 0.25 0.35	0.46 0.30 0.43
XAHC60H XAHD60H XAHD60J	0.02 0.02 0.03	0.05 0.04 0.06	0.08 0.06 0.09	0.12 0.08 0.13	0.17 0.12 0.17	0.23 0.16 0.22	0.30 0.20 0.29	0.37 0.25 0.35	0.46 0.30 0.43





