



DMVT SERIES



MULTI-POSITION, VARIABLE-SPEED, ECM-BASED AIR HANDLER WITH INTERNAL TXV COMMUNICATING 1½ TO 5 TONS

■ Contents

Air Handler Nomenclature	2
Heater Kit Nomenclature	2
Product Specifications	3
Dimensions	4
Airflow Data	5
Heat Kit Data	7
Wiring Diagram	8
Accessories	10

■ Product Features

- Internal factory-installed thermal expansion valves for cooling and heat pump applications
- Variable-speed ECM blower motor
- Compatible with Daikin *One+* smart thermostat and other Daikin communicating equipment
- Auto configuration of the airflow and tonnage in communicating mode
- All-aluminum evaporator coil
- Provides constant CFM over a wide range of static pressure conditions independent of duct system
- CFM indicator
- Fault recall of six most recent faults
- Provides adjustable low CFM for efficient fan-only operation
- Improved humidity and comfort control
- Built-in compatibility with multi-stage heat pump and cooling applications
- AHRI certified; ETL listed
- Cabinet air leakage less than 2.0% at 1.0 inch H₂O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 0.5 inch H₂O when tested in accordance with ASHRAE standard 193
- 3 kW – 25 kW electric heater kits
- Horizontal or vertical configuration capabilities
- 21" depth for easier attic access
- DecaBDE-free thermoplastic drain pan with secondary drain connections
- Screw-less sides and back helps to reduce condensation when installed in humid locations
- Foil-faced insulation covers the internal casing to reduce cabinet condensation
- Galvanized, leather grain-embossed finish
- Glue-less cabinet insulation retention
- Tool-less filter access

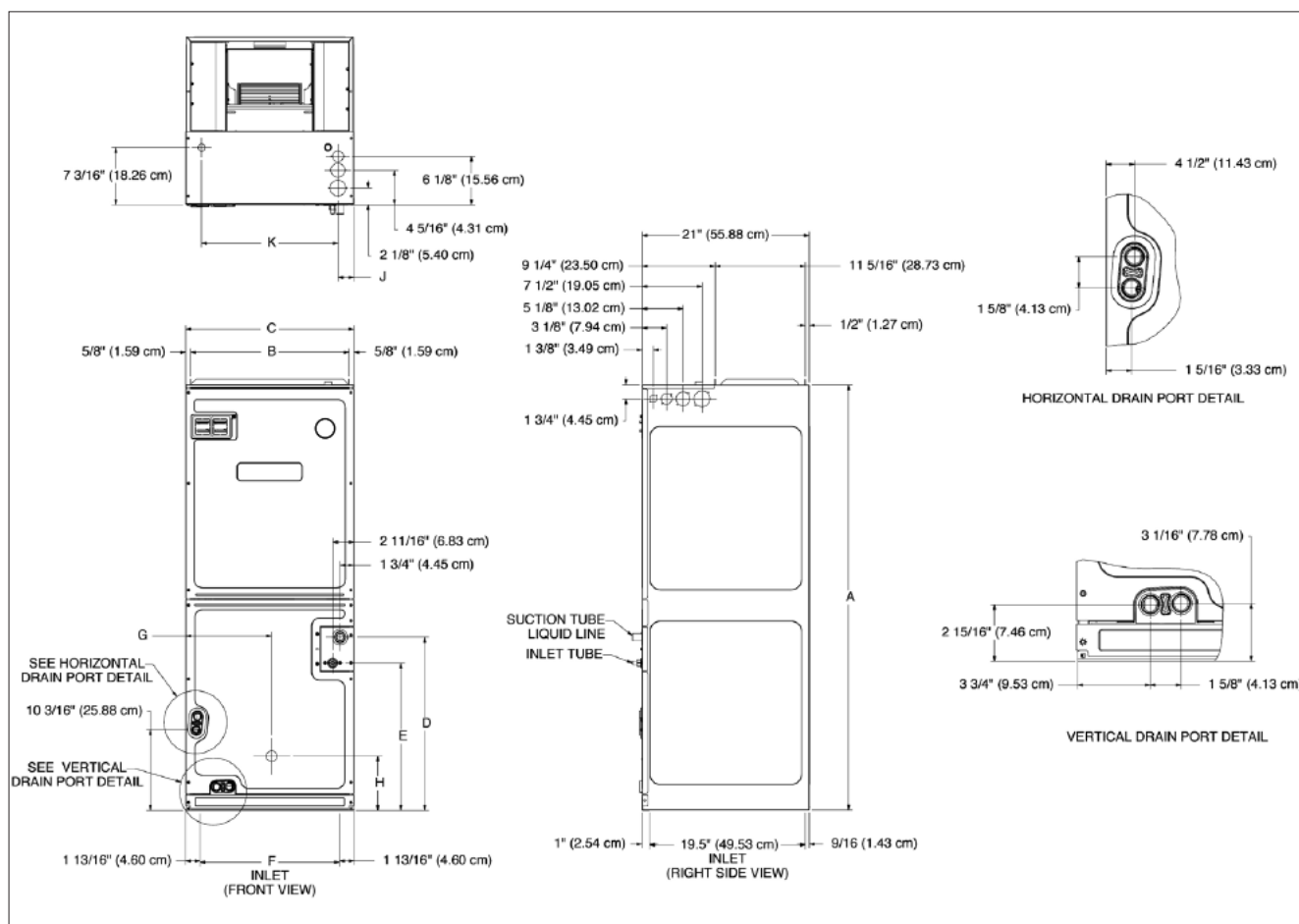


* Complete warranty details available from your local dealer or at www.daikincomfort.com. To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Additional requirements for annual maintenance are required for the Unit Replacement Limited Warranty. Online registration and some of the additional requirements are not required in California or Quebec

	D	M	V	T	36	C	P	1	4	00	A	A	
	1	2	3	4	5,6	7	8	9	10	11,12	13	14	
BRAND													MINOR REVISION
D - DAIKIN AIR HANDLER A - CORPORATE AIR HANDLER													MAJOR REVISION
APPLICATION													ELECTRIC HEAT KW
C - CEILING MOUNTED M - MULTI-POSITIONAL W - WALL MOUNTED													REFRIGERANT
MOTOR													4 R410A 6 R410A or R22
S - MS-ECM V - VS-ECM COMMUNICATING													ELECTRICAL
EXPANSION DEVICE													1 208/230 V, 1 PHASE, 60 HZ
E - ELECTRONIC EXPANSION VALVE F - THERMAL EXPANSION VALVE T - EXPANSION VALVE													CABINET
NOMINAL CAPACITY													N - UNCASED P - PAINTED U - UNPAINTED
12 - 1.0 TON 36 - 3.0 TONS 18 - 1.5 TONS 42 - 3.5 TONS 24 - 2.0 TONS 48 - 4.0 TONS 30 - 2.5 TONS 60 - 5.0 TONS													CABINET WIDTH
													AC* Series AM* Series AW* Series M - 43.25" B - 17.5" S - 20.2" L - 49.25" C - 21.0" L - 36.05" D - 24.5"

	HKS	X	03	X	A	AA	
	1	2	3	4	5	6,7	
Unit Type							Revisions
HKS Heat Kit for Air Handlers							Engineering Revisions
Circuit Breaker							Phase
X No circuit breaker C Circuit Breaker							A Single Phase 208 V E Three Phase 240 V B Single Phase 240 V F Three Phase 208/240 V C Single Phase 208/240 V G Three Phase 460 V D Three Phase 208 V H Special case 208 V *
Heating Capacity @ 240 Volts							Cabinet Size (MAX)
03 3.0 kW 15 14.4 kW 05 4.5 kW 19 19.2 kW wth 150F limit 06 6.0 kW 20 19.2 kW with 170F limit 08 8.0 kW 25 25.0 kW 10 9.6 kW							*Refer S&R Plate C C Cabinet D D Cabinet X All Cabinet Sizes

	DMVT 24BP1400	DMVT 30BP1400	DMVT 36BP1400	DMVT 36CP1400	DMVT 42CP1400	DMVT 48CP1400	DMVT 48DP1400	DMVT 60DP1400
NOMINAL RATINGS								
Cooling (Btu/h)	24,000	30,000	36,000	36,000	42,000	48,000	48,000	60,000
BLOWER								
Diameter	10"	10"	10"	10"	10"	10"	10"	11"
Width	6"	6"	6"	8"	8"	10"	10"	10"
REFRIGERANT LINE CONNECTION SIZE								
Liquid	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction	3/4"	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
Coil Drain Connect FPT	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
ELECTRICAL DATA								
Voltage	208/240	208/240	208/240	208/240	208/240	208/240	208/240	208/240
Min Circuit Ampacity	4.9/4.9	4.9/4.9	6.5/6.5	6.5/6.5	6.5/6.5	6.5/6.5	8.6/8.6	8.6/8.6
Max. Overcurrent Device (amps)	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15
Min. / Max VAC	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253
Blower Motor								
Blower Motor (FLA)	3.9	3.9	5.2	5.2	5.2	5.2	6.9	6.9
Blower Motor (HP)	1/2	1/2	3/4	3/4	3/4	3/4	1	1
SHIP WEIGHT (LBS)	117	134	134	158	158	158	160	172



MODEL	A"	B"	C"	D"	E"	F"	G"	H"	J"	K"
DMVT24BP1400	45	16 ⁵ / ₁₆	17 ⁹ / ₁₆	15%	12	12½	9	12 ⁹ / ₁₆	2	13%
DMVT30BP1400	53 ⁷ / ₁₆	16 ⁵ / ₁₆	17 ⁹ / ₁₆	23 ¹¹ / ₁₆	20 ¹ / ₁₆	12½	9	12¾	2	13%
DMVT36BP1400	53 ⁷ / ₁₆	16 ⁵ / ₁₆	17 ⁹ / ₁₆	23 ¹¹ / ₁₆	20 ¹ / ₁₆	12½	9	12¾	2	13%
DMVT36CP1400	49	19 ¹³ / ₁₆	21%	21 ¹² / ₁₆	17¾	16 ¹ / ₁₆	9	12¾	2	17%
DMVT42CP1400	53 ⁷ / ₁₆	19 ¹³ / ₁₆	21%	21 ¹² / ₁₆	18½	16 ¹ / ₁₆	9	12¾	2	17%
DMVT48CP1400	58	19 ¹³ / ₁₆	21%	26 ³ / ₁₆	22 ¹⁵ / ₁₆	14 ¹⁰ / ₁₆	10 ¹³ / ₁₆	6 ¹³ / ₁₆	2	17%
DMVT48DP1400	53 ⁷ / ₁₆	23 ¹ / ₁₄	24½%	21 ¹ / ₁₆	18¾	17 ¹¹ / ₁₆	12 ⁹ / ₁₆	6 ¹⁵ / ₁₆	2	20%
DMVT60DP1400	58	23 ¹ / ₁₄	24½%	26	22 3/4	17 ¹¹ / ₁₆	12 ⁹ / ₁₆	13 ¹³ / ₁₆	2	20%

MODEL NUMBER	Low/ High	OUTDOOR TONNAGE						
		1.5	2	2.5	3	3.5	4	5
DMVT24BP1400	Low	402	536	-	-	-	-	-
	High	600	800	-	-	-	-	-
DMVT30BP1400	Low	402	536	670	-	-	-	-
	High	600	800	1,000	-	-	-	-
DMVT36BP1400	Low	-	-	670	804	-	-	-
	High	-	-	1,000	1,200	-	-	-
DMVT36CP1400	Low	-	536	670	804	-	-	-
	High	-	800	1,000	1,200	-	-	-
DMVT42CP1400	Low	-	-	-	804	938	-	-
	High	-	-	-	1,200	1,400	-	-
DMVT48CP1400	Low	-	-	-	-	938	1,072	-
	High	-	-	-	-	1,400	1,600	-
DMVT48DP1400	Low	-	-	-	-	-	1,072	-
	High	-	-	-	-	-	1,600	-
DMVT60DP1400	Low	-	-	-	-	-	1,072	1,340
	High	-	-	-	-	-	1,600	2,000

Notes

1. Airflow data indicated is at 230V without air filter in place.
2. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate.
3. Use the CFM adjustment factors of 0.98 for horizontal left and 0.96 for horizontal right & downflow orientations
4. When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

HEAT KIT DATA

HEATER KIT MODEL	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	HEATER AMPS	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
DMVT24BU1400AA	0/0	4.9/4.9	15/15					
HKS*03XC*	10.8/12.5	18.4/21	20/25					
HKS*05XC*	17.3/20	27/29.9	30/30					
HKS*06XC*	21.7/25	32/36.1	35/40					
HKS*08XC*	28.9/33.3	41/46.5	45/50					
HKS*10XC*	34.7/40	48/54.9	50/60					
HKSC15XA 208	34.7	48.2	50	17.3	21.7	25	69.9	70
HKSC15XB 240	40	54.9	60	20	25	25	79.9	80
DMVT30BU1400AA	0/0	4.9/4.9	15/15					
HKS*03XC*	10.8/12.5	18.4/21	20/25					
HKS*05XC*	17.3/20	27/29.9	30/30					
HKS*06XC*	21.7/25	32/36.1	35/40					
HKS*08XC*	28.9/33.3	41/46.5	45/50					
HKS*10XC*	34.7/40	48/54.9	50/60					
HKSC15XA 208	34.7	48.2	50	17.3	21.7	25	69.9	70
HKSC15XB 240	40	54.9	60	20	25	25	79.9	80
DMVT36BU1400AA	0/0	6.5/6.5	15/15					
HKS*03XC*	10.8/12.5	20/22.1	20/25					
HKS*05XC*	17.3/20	28.2/32	30/35					
HKS*06XC*	21.7/25	33.6/38	35/40					
HKS*08XC*	28.9/33.3	42.6/48	45/50					
HKS*10XC*	34.7/40	49.8/57	50/60					
HKSC15XA 208	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC15XB 240	40	56.5	60	20	25	25	81.5	90
DMVT36CU1400AA	0/0	6.5/6.5	15/15					
HKS*03XC*	10.8/12.5	20/22.1	20/25					
HKS*05XC*	17.3/20	28.2/32	30/35					
HKS*06XC*	21.7/25	33.6/38	35/40					
HKS*08XC*	28.9/33.3	42.6/48	45/50					
HKS*10XC*	34.7/40	49.8/57	50/60					
HKS*15XF*	0/0	6.5/6.5	15/15	30/34.6	37.5/43	40/45		
HKSC15XA 208	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC15XB 240	40	56.5	60	20	25	25	81.5	90
HKSC19CH 208	34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC19CB 240	40	56.5	60	40	50	50	107	110
DMVT42CU1400AA	0/0	6.5/6.5	15/15					
HKS*05XC*	17.3/20	28.2/32	30/35					
HKS*06XC*	21.7/25	33.6/38	35/40					
HKS*08XC*	28.9/33.3	42.6/48	45/50					
HKS*10XC*	34.7/40	49.8/57	50/60					
HKS*15XF*	0/0	6.5/6.5	15/15	30/34.6	37.5/43	40/45		
HKSC15XA 208	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC15XB 240	40	56.5	60	20	25	25	81.5	90
HKSC19CA 208	34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC19CB 240	40	56.5	60	40	50	50	107	110
DMVT48CU1400AA	0/0	6.5/6.5	15/15					
HKS*05XC*	17.3/20	28.2/32	30/35					
HKS*06XC*	21.7/25	33.6/38	35/40					
HKS*08XC*	28.9/33.3	42.6/48	45/50					
HKS*10XC*	34.7/40	49.8/57	50/60					
HKS*15XF*	0/0	6.5/6.5	15/15	30/34.6	37.5/43	40/45		
HKSC15XA 208	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC15XB 240	40	56.5	60	20	25	25	81.5	90
HKSC19CA 208	34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC19CB 240	40	56.5	60	40	50	50	107	110

See Notes on Page 7.

HEATER KIT MODEL	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	HEATER AMPS	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
DMVT48DU1400	0/0	8.6/8.6	15/15					
HKS*05XC*	17.3/20	30.3/34	35/35					
HKS*06XC*	21.7/25	36/39.9	40/40					
HKS*08XC*	28.9/33.3	45/50.3	45/60					
HKS*10XC*	34.7/40	52/58.6	60/60					
HKS*15XF*	0/0	8.6/8.6	15/15	30/34.6	37.5/43	40/45		
HKSC15XA 208	34.7	52	60	17.3	21.7	25	73.6	80
HKSC15XB 240	40	58.6	60	20	25	25	83.6	90
HKS*20XF*	0/0	8.6/8.6	15/15	37.5/43	47/54	50/60		
HKSC20DH 208	34.7	52	60	34.7	43.4	45	95.3	100
HKSC20DB 240	40	58.6	60	40	50	50	109	110
DMVT60DU1400	0/0	8.6/8.6	15/15					
HKS*05XC*	17.3/20	30.3/34	35/35					
HKS*06XC*	21.7/25	36/39.9	40/40					
HKS*08XC*	28.9/33.3	45/50.3	45/60					
HKS*10XC*	34.7/40	52/58.6	60/60					
HKS*15XF*	0/0	8.6/8.6	15/15	30/34.6	37.5/43	40/45		
HKSC15XA 208	34.7	52	60	17.3	21.7	25	73.6	80
HKSC15XB 240	40	58.6	60	20	25	25	83.6	90
HKS*20XF*	0/0	8.6/8.6	15/15	37.5/43	47/54	50/60		
HKSC20DH 208	34.7	52	60	34.7	43.4	45	95.3	100
HKSC20DB 240	40	58.6	60	40	50	50	109	110
HKSC25DA 208	52	73.6	80	34.7	43.3	45	117	125
HKSC25DB 240	60	83.6	90	40	50	50	134	150

¹ Minimum Circuit Ampacity (Heater Amps + Motor Amps) X 1.25

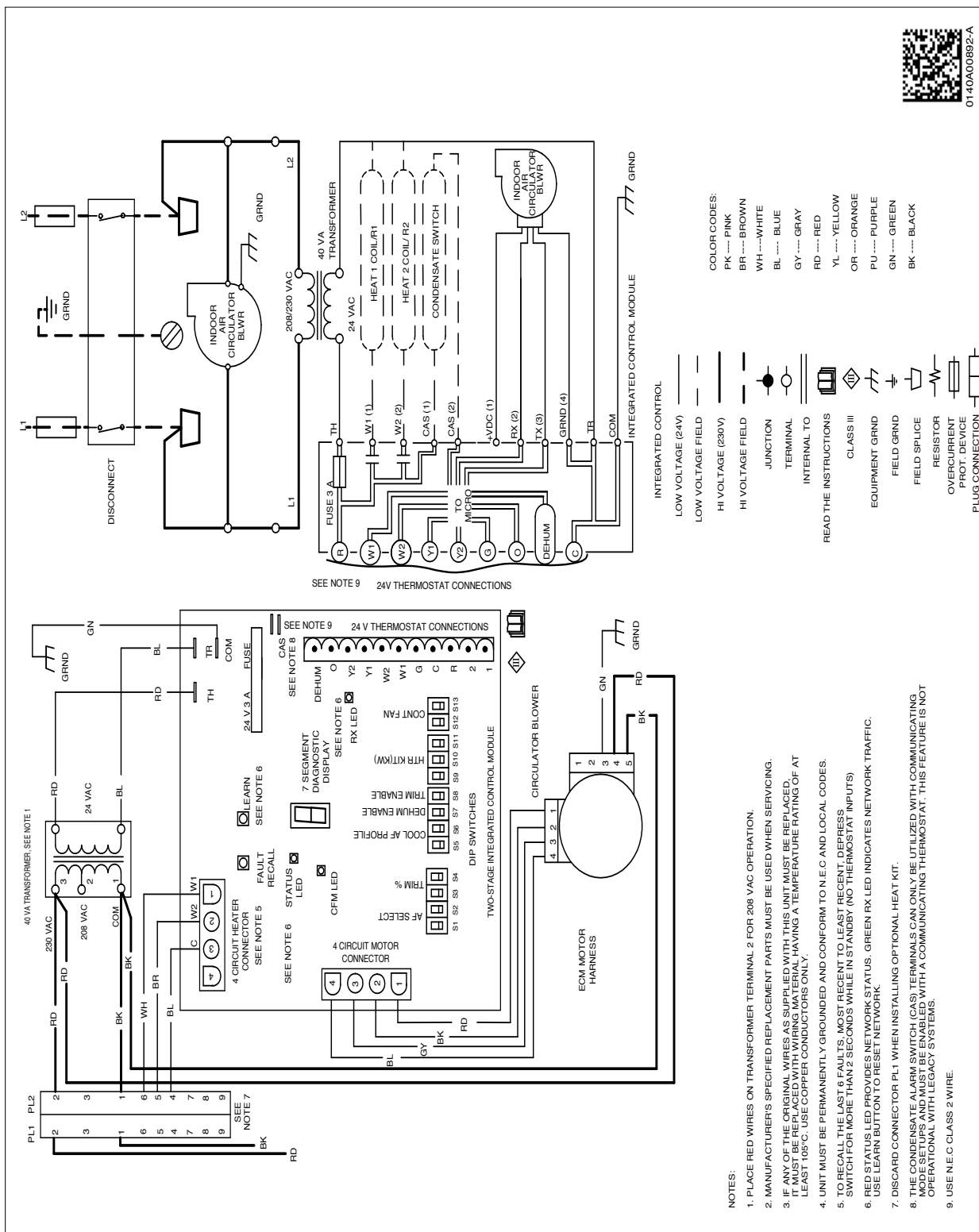
² Maximum Overcurrent Protection = 2.25 X Motor Amps + Heater Amps

³ Circuit 1: Single-phase for Air Handlers Circuit 2: Three-phase for HKR3 Heater Kits

--- indicates Not Required

Note: The 208 or 240 in the heat kit part number field is for clarification of the nominal voltage for this model.

³ Notation is correct as XB because technically the 240V heater kit application can be used here without any issues.



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

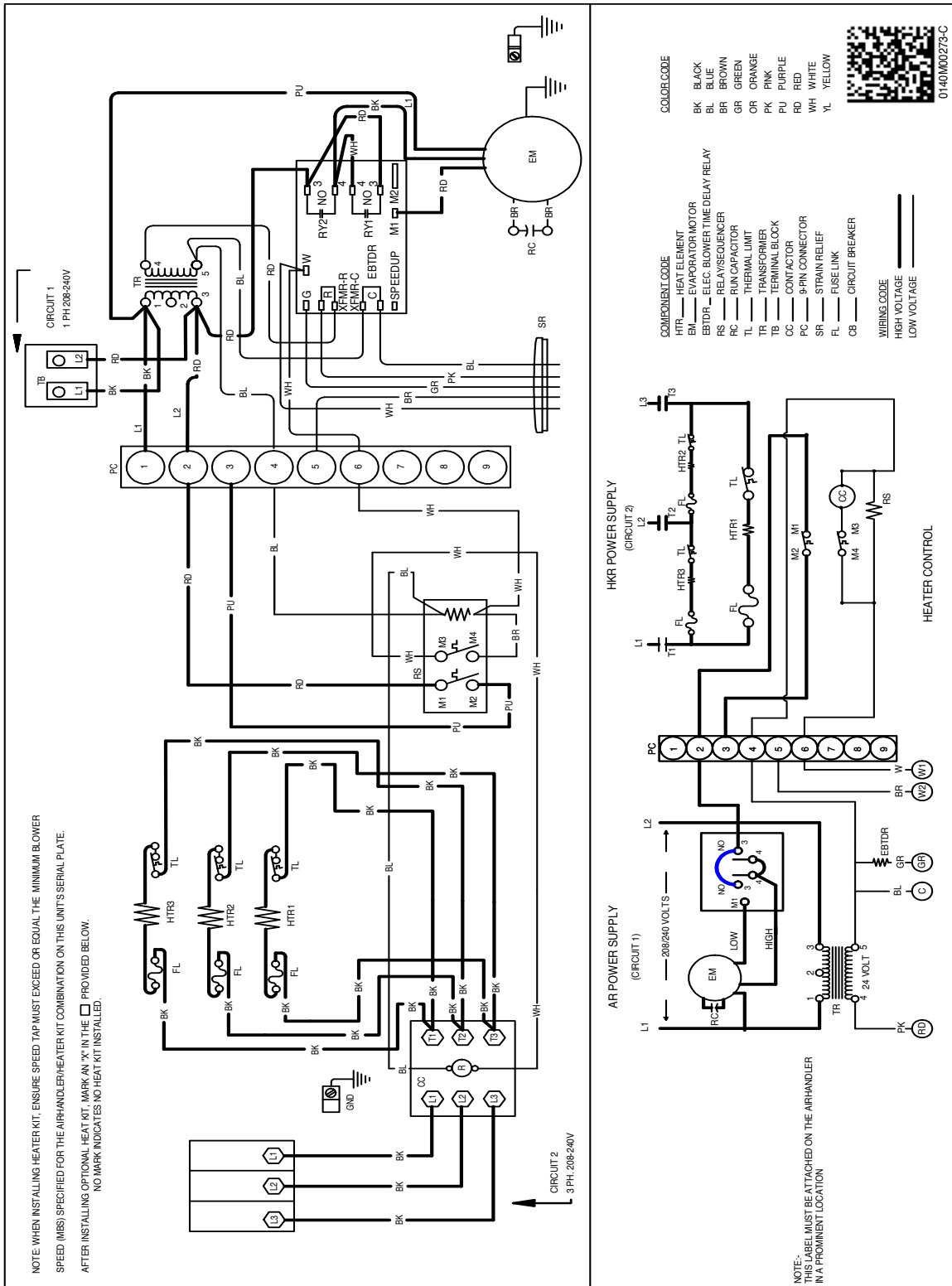


WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.



0140A00892-A



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.



DOWNFLOW KITS

DFKE-02	DFKE-03
DMVT24BU1400**	DMVT48CU1400**
DMVT30BU1400**	DMVT48DU1400**
DMVT36BU1400**	DMVT60DU1400**
DMVT36CU1400**	
DMVT42CU1400**	

HIGH HUMIDITY KIT

HHK0004	HHK0005	HHK0006	HHK0007
DMVT24BU1400**	DMVT36CU1400**	DMVT48DU1400**	DMVT60DU1400**
DMVT30BU1400**	DMVT42CU1400**		
DMVT36BU1400**	DMVT48CU1400**		

CONDENSATE MANAGEMENT KIT

CMK0018	CMK0019	CMK0020
DMVT24BU1400**	DMVT30BU1400**	DMVT48CU1400**
DMVT36CU1400**	DMVT36BU1400**	DMVT48DU1400**
	DMVT42CU1400**	DMVT60DU1400**

FILTERS

CHASSIS	PART #	SIZE
B	ALFH16201E	16.0" x 20.0"
C	ALFH1912201E	19.5" x 20.0"
D	ALFH20231E	23.0" x 20.0"

SINGLE POINT WIRING KIT (SPW-01)

HEATER KIT MODEL	SPWK-B	SPWK-C	SPWK-D
HKSC15XB-240V	DMVT24BU1400**	DMVT36CU1400** DMVT42CU1400** DMVT48CU1400**	DMVT48DU1400** DMVT60DU1400**
HKSC15XA-208V	DMVT30BU1400**		
HKSC19CA-208V	DMVT36BU1400**		
HKSC19CB-240V			
HKSC20DA-208V			DMVT48DU1400** DMVT60DU1400**
HKSC20DB-240V			
HKSC25DA-240V			DMVT60DU1400**
HKSC25DA-208V			
HKSC25DA			

[illegible]

[illegible]