



*MULTI-POSITION, VARIABLE-SPEED,
ECM-BASED AIR HANDLER
WITH INTERNAL TXV
COMFORTBRIDGE™ COMPATIBLE
1½ TO 5 TONS*

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Product Features

- Internal factory-installed thermal expansion valves for cooling and heat pump applications
- Variable-speed ECM blower motor
- Integrated communicating ComfortBridge™ Technology
- Commissioning and diagnostics via on board Bluetooth with the CoolCloud™ phone and tablet application
- Auto configuration of the airflow and tonnage in communicating mode
- 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
- All-aluminum evaporator coil
- AHRI certified; ETL listed
- UL 60335 2-40 Compliant
- Rigid SmartFrame™ cabinet
- 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
- 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
- Field Installed 3 kW – 25 kW electric heater kits available



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

COMPANY WITH
ENVIRONMENTAL SYSTEM
CERTIFIED BY DNV GL
= ISO 14001 =



* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec. The duration of warranty coverage in Texas and Florida differs in some cases.

	A	M	V	T	3,6	C	P	1	4	00	B	A	
	1	2	3	4	5,6	7	8	9	10	11,12	13	14	
BRAND													MINOR REVISION
A - CORPORATE AIR HANDLER D - DAIKIN AIR HANDLER													MAJOR REVISION
APPLICATION													FACTORY INSTALLED ELECTRIC HEAT KW
C - CEILING MOUNTED M - MULTI-POSITIONAL W - WALL MOUNTED F - FIT COMPATIBLE MULTI-POSITIONAL H - HORIZONTAL DISCHARGE COMPATIBLE MULTI-POSITIONAL													00 -NO ELECTRIC HEAT
MOTOR													REFRIGERANT
S - MS-ECM V - VS-ECM COMMUNICATING													3 - R32 4 - R4 10A 6 R410A or R22
EXPANSION DEVICE													ELECTRICAL
E - ELECTRONIC EXPANSION VALVE F - FLOWRATOR T - THERMAL EXPANSION VALVE													1 208/230 V, 1 PHASE, 60 HZ
NOMINAL CAPACITY													CABINET
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													N - UNCASED P - PAINTED U - UNPAINTED
													CABINET WIDTH
													AC* Series AM* Series AW* Series M - 43.25" B - 17.5" S - 20.2" L - 49.25" C - 21.0" L - 24.0" D - 24.5"

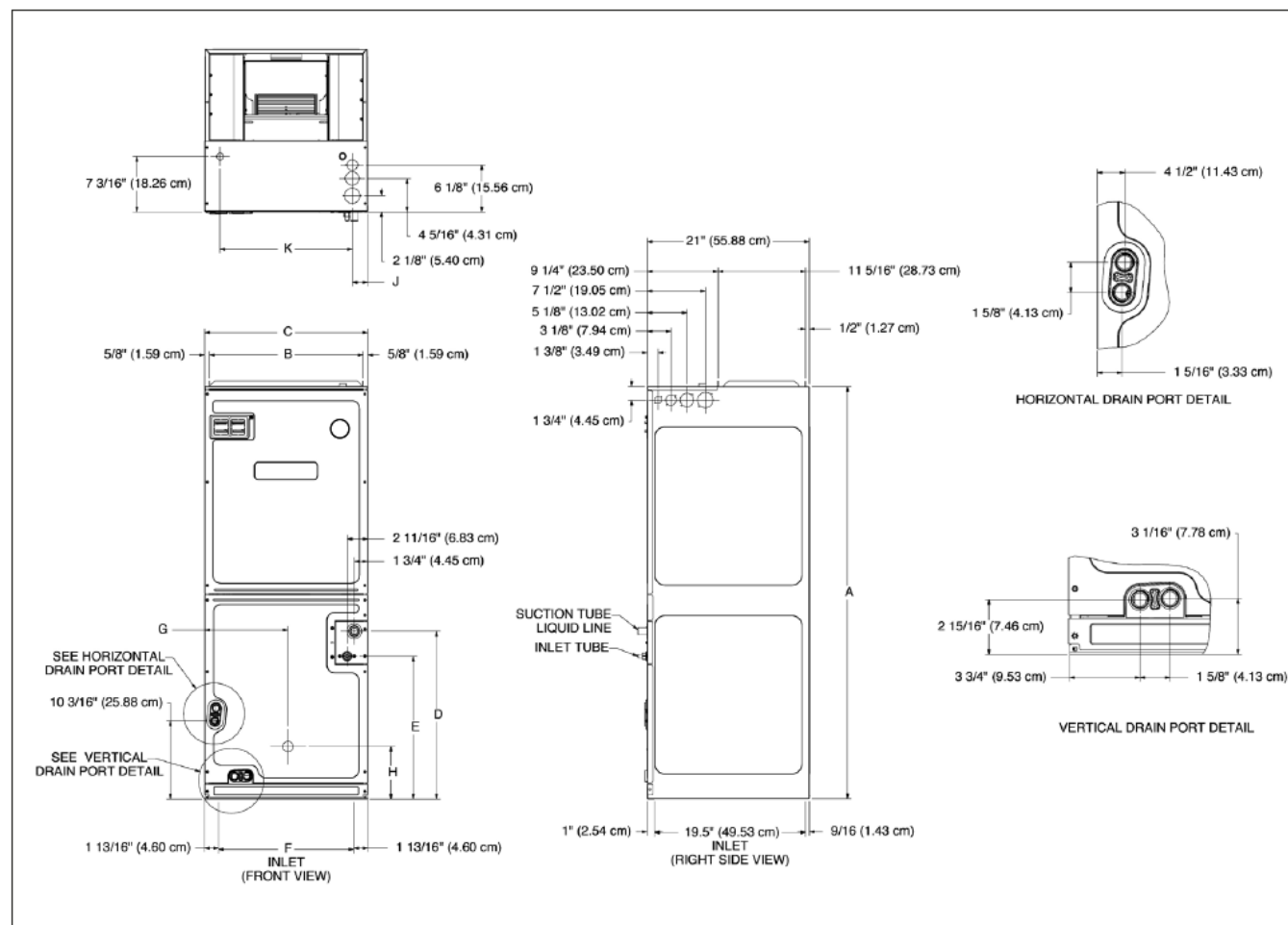
	H	K	T	S	D	2	5	D	1	
	1	2	3	4	5	6	7	8	9	
Unit Type										
HKTS - Electric heater										
Kit for air handlers										Electrical
										A - Single phase 208 V
										B - Single phase 240 V
										1 - Single phase 208/240 V
										3 - Three phase 208/240 V
Service Disconnect										Cabinet Size
D - Service disconnect										X - All Cabinets
N - No service disconnect										C - C Cabinet
										D - D Cabinet
										Heating Capacity @ 240 V
										3 3.0 kW 10 9.6 kW
										5 4.8 kW 15 14.4 kW
										6 6.0 kW 19 19.2 kW with 170°F limit
										8 8.0 kW 20 19.2 kW with 160°F limit
										25 24.0 kW

Note: 20X3 = 18.0 kW with 160°F limit

	AMVT 24BP14*	AMVT 30BP14*	AMVT 36BP14*	AMVT 36CP14*	AMVT 42CP14*	AMVT 48CP14*	AMVT 48DP14*	AMVT 60DP14*
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"
COIL CONNECTIONS								
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
Minimum 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
Minimum VAC	197	197	197	197	197	197	197	197
Maximum VAC	253	253	253	253	253	253	253	253
Blower Motor								
Full Load Amps (FLA)	3.9	3.9	5.2	5.2	5.2	5.2	6.9	6.9
Horsepower (HP)	½	½	¾	¾	¾	¾	1	1
SHIP WEIGHT (LBS.)	117	134	134	158	158	158	160	172

*Airflow rate @.3 static

Note: Assumes dry coil; SCFM correction for wet coil = 4% (208V / 240V)



Model	A"	B"	C"	D"	E"	F"	G"	H"	J"	K"
AMVT24BP1400	45	16 ⁵ / ₁₆	17 ⁹ / ₁₆	15 ¹ / ₄	12	12 ¹ / ₂	9	12 ⁹ / ₁₆	2	13 ⁵ / ₈
AMVT30BP1400	53 ⁷ / ₁₆	16 ⁵ / ₁₆	17 ⁹ / ₁₆	23 ¹¹ / ₁₆	20 ¹ / ₁₆	12 ¹ / ₂	9	12 ¹ / ₄	2	13 ⁵ / ₈
AMVT36BP1400	53 ⁷ / ₁₆	16 ⁵ / ₁₆	17 ⁹ / ₁₆	23 ¹¹ / ₁₆	20 ¹ / ₁₆	12 ¹ / ₂	9	12 ¹ / ₄	2	13 ⁵ / ₈
AMVT36CP1400	49	19 ¹³ / ₁₆	21 ¹ / ₈	21 ¹² / ₁₆	17 ³ / ₄	16 ¹ / ₁₆	9	12 ¹ / ₄	2	17 ¹ / ₈
AMVT42CP1400	53 ⁷ / ₁₆	19 ¹³ / ₁₆	21 ¹ / ₈	21 ¹² / ₁₆	18 ¹ / ₂	16 ¹ / ₁₆	9	12 ¹ / ₄	2	17 ¹ / ₈
AMVT48CP1400	58	19 ¹³ / ₁₆	21 ¹ / ₈	26 ³ / ₁₆	22 ¹⁵ / ₁₆	14 ¹⁰ / ₁₆	10 ¹³ / ₁₆	6 ¹³ / ₁₆	2	17 ¹ / ₈
AMVT48DP1400	53 ⁷ / ₁₆	23 ¹ / ₁₄	24 ⁵ / ₈	21 ¹ / ₁₆	18 ¹ / ₄	17 ¹¹ / ₁₆	12 ⁹ / ₁₆	6 ¹⁵ / ₁₆	2	20 ⁵ / ₈
AMVT60DP1400	58	23 ¹ / ₁₄	24 ⁵ / ₈	26	22 3/4	17 ¹¹ / ₁₆	12 ⁹ / ₁₆	13 ¹³ / ₁₆	2	20 ⁵ / ₈

MODEL NUMBER	Low/High	OUTDOOR TONNAGE						
		1.5	2	2.5	3	3.5	4	5
AMVT24BP1400	Low	402	536	-	-	-	-	-
	High	600	800	-	-	-	-	-
AMVT30BP1400	Low	402	536	670	-	-	-	-
	High	600	800	1,000	-	-	-	-
AMVT36BP1400	Low	-	-	670	804	-	-	-
	High	-	-	1,000	1,200	-	-	-
AMVT36CP1400	Low	-	536	670	804	-	-	-
	High	-	800	1,000	1,200	-	-	-
AMVT42CP1400	Low	-	-	-	804	938	-	-
	High	-	-	-	1,200	1,400	-	-
AMVT48CP1400	Low	-	-	-	-	938	1,072	-
	High	-	-	-	-	1,400	1,600	-
AMVT48DP1400	Low	-	-	-	-	-	1,072	-
	High	-	-	-	-	-	1,600	-
AMVT60DP1400	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%.

Horizontal Left Factor	0.98
Horizontal Right Factor	0.95
Downflow Factor	0.96

See notes on page 7.

HEATER KIT MODEL	CIRCUIT 1 (208V/240V)			CIRCUIT 2 (208V/240V)			SINGLE-POINT KIT (208V/240V)	
	HEATER AMPS	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
AMVT24BU1400BA	0/0	4.9/4.9	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	---	---	---	---	---
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	---	---	---	---	---
HKTSD15XA/B	34.7/40.0	48.2/54.9	50/60	17.3/20.0	21.6/25.0	25/25	69.9/79.9	70/80
AMVT30BU1400BA	0/0	4.9/4.9	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	---	---	---	---	---
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	---	---	---	---	---
HKTSD15XA/B	34.7/40.0	48.2/54.9	50/60	17.3/20.0	21.6/25.0	25/25	69.9/79.9	70/80
AMVT36BU1400BA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	20.0/22.1	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.1/31.5	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	42.6/48.1	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.9/56.5	50/60	---	---	---	---	---
HKTSD15XA/B	34.7/40.0	49.9/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.9/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
AMVT36CU1400BA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKTSN03X1	10.8/12.5	20.0/22.1	20/25	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.1/31.5	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	42.6/48.1	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.9/56.5	50/60	---	---	---	---	---
HKTS*15X3 ^	0/0	6.5/6.5	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40.0	49.9/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.9/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/106	100/110
AMVT42CU1400BA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.1/31.5	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	42.6/48.1	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.9/56.5	50/60	---	---	---	---	---
HKTS*15X3 ^	0/0	6.5/6.5	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40.0	49.9/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.9/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/106	100/110
AMVT48CU1400BA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKTS*05X1	17.3/20.0	28.1/31.5	30/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	42.6/48.1	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	49.9/56.5	50/60	---	---	---	---	---
HKTS*15X3 ^	0/0	6.5/6.5	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40.0	49.9/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.9/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/106	100/110
AMVT48DU1400BA	0/0	8.6/8.6	15/15	---	---	---	---	---
HKTS*05X1	17.3/20.0	30.2/33.6	35/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	35.8/39.9	40/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	44.8/50.2	45/60	---	---	---	---	---
HKTS*10X1	34.7/40.0	52.0/58.6	60/60	---	---	---	---	---
HKTS*15X3 ^	0/0	8.6/8.6	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTSD15XA/B	34.7/40.0	52.0/58.6	60/60	17.3/20.0	21.6/25.0	25/25	73.6/83.6	80/90
HKTS*20X3 ^	0/0	8.6/8.6	15/15	37.5/43.3	46.9/54.1	50/60	---	---
HKTSD20DA/B	34.7/40.0	52.0/58.6	60/60	34.7/40.0	43.4/50.0	45/50	95.3/109	100/110

HEATER KIT MODEL	CIRCUIT 1 (208V/240V)			CIRCUIT 2 (208V/240V)			SINGLE-POINT KIT (208V/240V)	
	HEATER AMPS	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
AMVT60DU1400BA	0/0	8.6/8.6	15/15	---	---	---	---	---
HKTS*05X1	17.3/20.0	30.2/33.6	35/35	---	---	---	---	---
HKTSN06X1	21.7/25.0	35.8/39.9	40/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	44.8/50.2	45/60	---	---	---	---	---
HKTS*10X1	34.7/40.0	52.0/58.6	60/60	---	---	---	---	---
HKTS*15X3 ^	0/0	8.6/8.6	15/15	30.0/34.6	37.5/43.3	40/45	---	---
HKTS*15XA/B	34.7/40.0	52.0/58.6	60/60	17.3/20.0	21.6/25.0	25/25	73.6/83.6	80/90
HKTS*20X3 ^	0/0	8.6/8.6	15/15	37.5/43.3	46.9/54.1	50/60	---	---
HKTS*20DA/B	34.7/40.0	52.0/58.6	60/60	34.7/40.0	43.4/50.0	45/50	95.3/109	100/110
HKTS*25DA/B	52.0/60.0	73.6/83.6	80/90	34.7/40.0	43.4/50.0	45/50	117/134	125/150

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

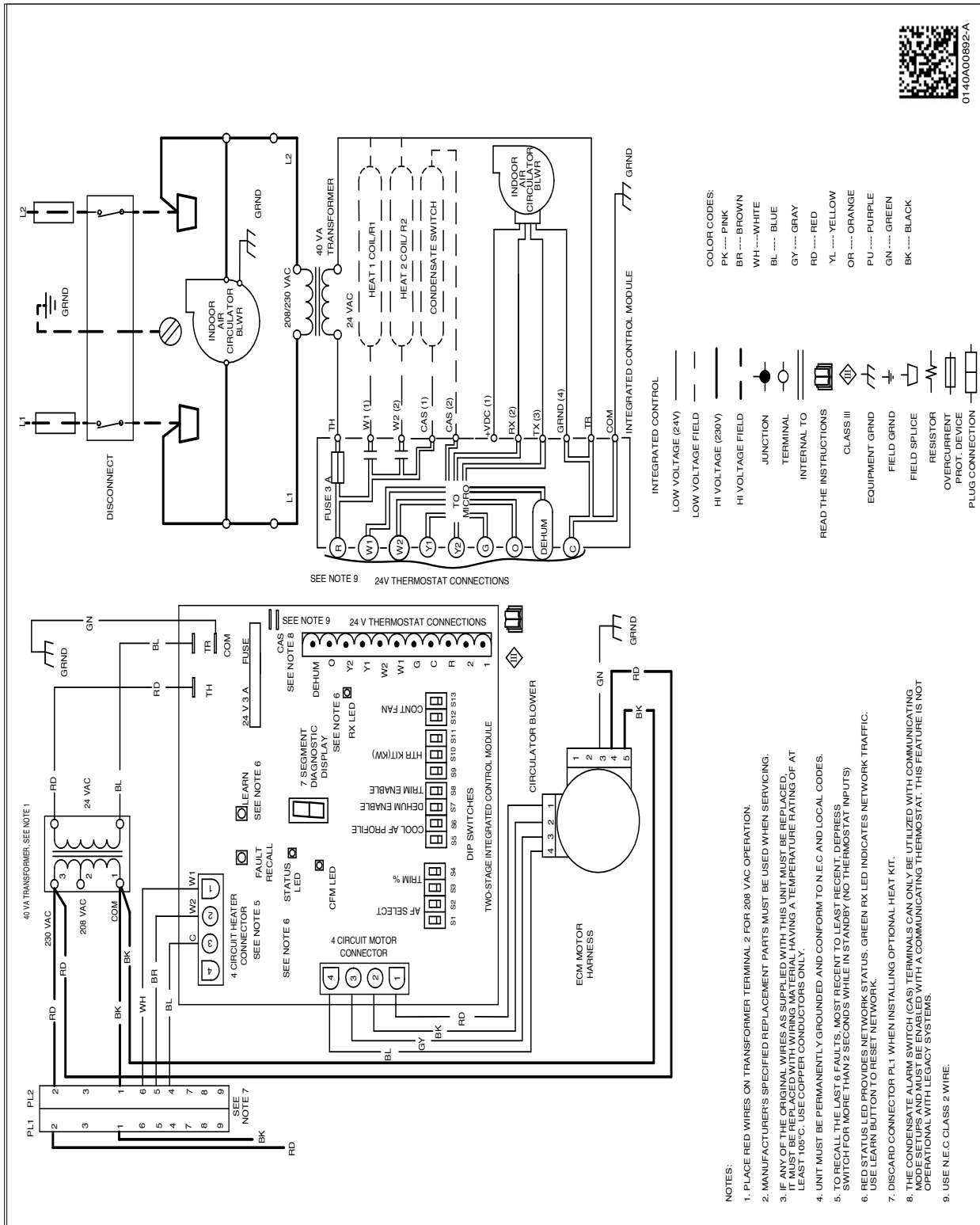
² Maximum Overcurrent Protection = 2.25 X Motor Amps + Heater Amps

^ Three-phase Heater Kits (Circuit 1: Single-phase for Air Handlers Circuit 2: Three-phase for Heater Kits)

* D - Service disconnect, N - No service disconnect

--- 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.



DOWNFLOW KITS

DFKE-02	DFKE-03
AMVT24BU1400**	AMVT48CU1400**
AMVT30BU1400**	AMVT48DU1400**
AMVT36BU1400**	AMVT60DU1400**
AMVT36CU1400**	
AMVT42CU1400**	

HIGH HUMIDITY KIT

HHK0004	HHK0005	HHK0006	HHK0007
AMVT24BU1400**	AMVT36CU1400**	AMVT48DU1400**	AMVT60DU1400**
AMVT30BU1400**	AMVT42CU1400**		
AMVT36BU1400**	AMVT48CU1400**		

CONDENSATE MANAGEMENT KIT

CMK0018	CMK0019	CMK0020
AMVT24BU1400**	AMVT30BU1400**	AMVT48CU1400**
AMVT36CU1400**	AMVT36BU1400**	AMVT48DU1400**
	AMVT42CU1400**	AMVT60DU1400**

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
HKTSD15XA	AMVT24BU1400**	AMVT36CU1400** AMVT42CU1400** AMVT48CU1400**	AMVT48DU1400** AMVT60DU1400**
HKTSD15XB	AMVT30BU1400**		
HKTSD15CA	AMVT36BU1400**		
HKTSD19CA			
HKTSD19CB			
HKTSD20DA			AMVT48DU1400** AMVT60DU1400**
HKTSD20DB			
HKTSD25DA			AMVT60DU1400**
HKTSD25DB			

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