



MULTI-POSITION, VARIABLE-SPEED, ECM-BASED AIR HANDLER WITH INTERNAL EEV COMMUNICATING FOR DAIKIN FIT MATCHUPS 1½ TO 5 TONS

■ Contents

Nomenclature	2
Product Specifications	3
Dimensions	4
Airflow.....	5
Heat Kit Data.....	5
Wiring Diagram	6
Accessories	7

R32

■ Product Features

- Electronic Expansion Valve (EEV) for cooling and heat pump applications.
- 7mm evaporator coil tube size
- Variable-speed ECM blower motor
- Compatible with Daikin *One+* smart thermostat and other Daikin communicating equipment
- Provides constant CFM over a wide range of static pressure conditions independent of duct system
- CFM indicator
- Thermostat provides adjustable low CFM for efficient fan-only operation
- All-aluminum evaporator coil
- Fault recall of six most recent faults
- Improved humidity and comfort control
- Factory installed R-32 sensor designed for the lifespan of the coil
- Optimized for use with R-32 refrigerant AHRI certified; ETL listed
- UL 60335 2-40 Compliant

■ Cabinet Features

- 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
- Field Installed 3kW- 25kW electric heater kit available
- 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



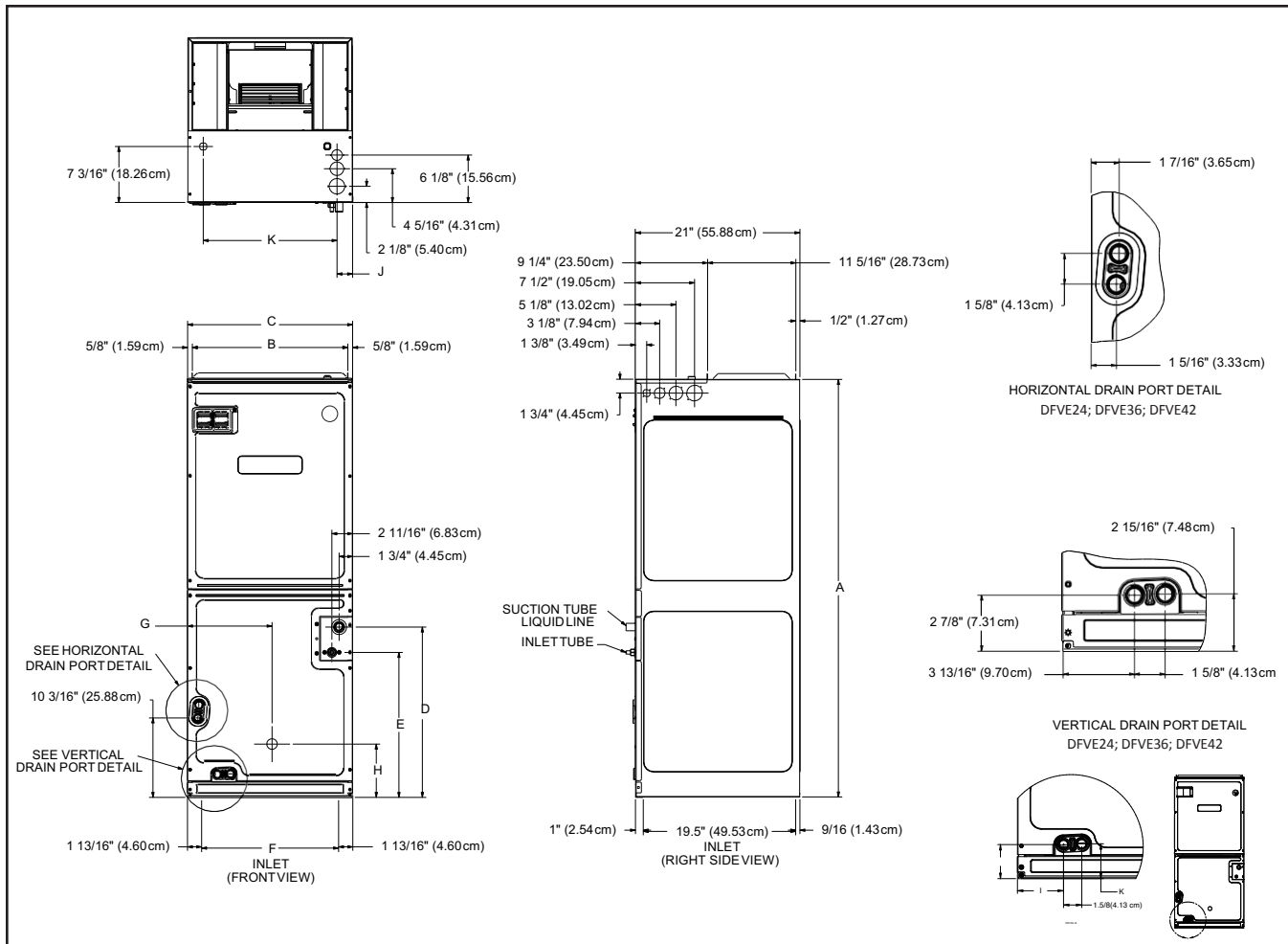
* Complete warranty details available from your local dealer or at www.daikincomfort.com. To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Additional requirements for annual maintenance are required for the Unit Replacement Limited Warranty.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

	D	F	V	E	60	D	P	1	3	00	B	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													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 - R-32
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 - 36.05" D - 24.5"

	H	K	T	S	D	2	5	D	1	
	1	2	3	4	5	6	7	8	9	
Unit Type										Electrical A - Single phase 208 V B - Single phase 240 V 1 - Single phase 208/240 V 3 - Three phase 208/240 V
HKTS - Electric heater Kit for air handlers										
Service Disconnect										Cabinet Size X - All Cabinets C - C Cabinet D - D Cabinet
D - Service disconnect N - No service disconnect										
										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										

MODEL	DFVE24 BP1300	DFVE36 CP1300	DFVE42 CP1300	DFVE48 CP1300	DFVE48 DP1300	DFVE60 DP1300
NOMINAL TONS	2.0Ton	3.0Ton	3.5Ton	4.0Ton	4.0Ton	5.0Ton
BLOWER						
Diameter	9½"	10⅝"	10⅝"	12"	12"	12"
Width	6"	10⅝"	10⅝"	10⅝"	10⅝"	10⅝"
TUBING CONNECTION						
Liquid - Refrigerant	⅜"	⅜"	⅜"	⅜"	⅜"	⅜"
Suction - Refrigerant	¾"	⅞"	⅞"	⅞"	⅞"	⅞"
Coil Drain Connection (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
ELECTRICAL DATA						
Voltage - Phase	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1	208/230-1
Min Circuit Ampacity	4.9/4.9	6.5/6.5	6.5/6.5	6.5/6.5	6.5/6.5	8.6/8.6
Max. Overcurrent Device (amps)	15/15	15/15	15/15	15/15	15/15	15/15
Minimum VAC	197	197	197	197	197	197
Maximum VAC	253	253	253	253	253	253
Blower Motor						
FLA	3.9	5.2	5.2	5.2	5.2	6.9
HP	½	¾	¾	¾	¾	1.0
SHIP WEIGHT (LBS.)	115	140	140	148	150	167

DIMENSIONS



MODEL	A	B	C	D	E	F	G	H	I	J	K
DFVE24BP1300	45	16 3/8	17 1/2	15 5/8	12	14 3/8	9	12 3/4	3 13/16	2 7/8	2 15/16
DFVE36CP1300	53 7/16	19 3/8	21	21 13/16	18 5/8	17 11/16	10 13/16	6 13/16	3 13/16	2 7/8	2 15/16
DFVE42CP1300	53 7/16	19 3/8	21	21 13/16	18 5/8	17 11/16	10 13/16	6 13/16	3 13/16	2 7/8	2 15/16
DFVE48CP1300	58	19 13/16	21	26 3/16	22 15/16	14 10/16	10 13/16	6 13/16	3 13/16	2	17 1/8
DFVE48DP1300	53 7/16	23 5/16	24 1/2	21 1/2	18 5/16	21 3/16	12 5/8	6 7/8	4	3	3 3/32
DFVE60DP1300	58	23 5/16	24 1/2	26 7/8	22 7/8	21 3/16	12 5/16	13 3/4	4	3	3 3/32

RATED INDOOR AIRFLOW RATE [SCFM]

ID UNIT	OD UNIT	STATIC PRESSURE [wc]								
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
DFVE24BP1300	DC6VSS1810A* DC6VSA181WA* DH6VSA1810A*	610	610	610	610	610	610	610	610	610
	DC6VSS2410A* DC6VSA241WA* DH6VSA2410A*	800	800	800	800	800	800	800	800	800
DFVE36CP1300	DC6VSS2410A* DC9VSA2410A* DC6VSA241WA* DH7VSA2410A*	800	800	800	800	800	800	800	800	800
	DC6VSS3010A* DC6VSA301WA* DH6VSA3010A*	1010	1010	1010	1010	1010	1010	1010	1010	1010
	DC6VSS3610A* DH6VSA3610A*	1260	1260	1260	1260	1260	1260	1260	1260	1260
DFVE42CP1300	DC6VSS3610A* DC9VSA3610A* DC6VSA361WA* DH6VSA3610A* DH7VSA3610A*	1260	1260	1260	1260	1260	1260	1260	1260	1260
	DC6VSS4210A* DH6VSA4210A*	1320	1320	1320	1320	1320	1320	1320	1320	1320
DFVE48CP1300	DC9VSA3610A* DH7VSA3610A*	1260	1260	1260	1260	1260	1260	1260	1260	1260
	DC6VSS4210A* DH6VSA4210A*	1320	1320	1320	1320	1320	1320	1320	1320	1320
	DC6VSS4810A* DH6VSA4810A*	1380	1380	1380	1380	1380	1380	1380	1380	1380
DFVE48DP1300	DC9VSA3610A* DH7VSA3610A*	1260	1260	1260	1260	1260	1260	1260	1260	1260
	DC6VSS4210A* DH6VSA4210A*	1320	1320	1320	1320	1320	1320	1320	1320	1320
	DC6VSS4810A* DH6VSA4810A*	1380	1380	1380	1380	1380	1380	1380	1380	1380
DFVE60DP1300	DC9VSA3610A* DH7VSA3610A*	1260	1260	1260	1260	1260	1260	1260	1260	1260
	DC6VSS4210A* DH6VSA4210A* DH7VSA4210A*	1320	1320	1320	1320	1320	1320	1320	1320	1320
	DC6VSS4810A* DC9VSA4810A* DH6VSA4810A* DH7VSA4810A*	1380	1380	1380	1380	1380	1380	1380	1380	1380
	DC6VSS6010A* DH6VSA6010A*	1640	1640	1640	1640	1640	1640	1640	1640	1640

*The chart is for information only. For satisfactory operation, external static pressure must not exceed 0.5 wc.

*Unit may provide different SCFM during electrical heater operation. See IO manual for the airflow rate.

MODELS	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
DFVE24BP1300AA	0.0/0.0	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	32/36.1	35/40	---	---	---	---	---
HKTS*08X1	28.9/33.3	41/46.5	45/50	---	---	---	---	---
HKTS*10X1	34.7/40.0	48.5/54.9	50/60	---	---	---	---	---
DFVE36CP1300AA	0.0/0.0	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	---	---
HKTSN15XA/B	34.7/40	49.9/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSN19CA/B	34.7/40	49.9/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/106	100/110
DFVE42CP1300AA	0.0/0.0	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	30/34.6	37.5/43.3	40/45	---	---
HKTSN15XA/B	34.7/40	49.9/56.5	50/60	17.3/20	21.6/25.0	25/25	71.5/81.5	80/90
HKTSN19CA/B	34.7/40	49.9/56.5	50/60	34.7/40	43.4/50.0	45/50	93.2/106	100/110
DFVE48CP1300AA	0.0/0.0	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	30/34.6	37.5/43.3	40/45	---	---
HKTSN15XA/B	34.7/40	49.9/56.5	50/60	17.3/20	21.6/25.0	25/25	71.5/81.5	80/90
HKTS*20X3 ^	0/0	6.5/6.5	15/15	37.5/43.3	46.9/54.1	50/60	---	---
HKTSN20DA/B	34.7/40	49.9/56.5	50/60	34.7/40	43.4/50.0	45/50	93.2/106	100/110
DFVE48DP1300AA	0.0/0.0	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	30/34.6	37.5/43.3	40/45	---	---
HKTSN15XA/B	34.7/40	49.9/56.5	50/60	17.3/20	21.6/25	25/25	71.5/81.5	80/90
HKTS*20X3 ^	0/0	6.5/6.5	15/15	37.5/43.3	46.9/54.1	50/60	---	---
HKTSN20DA/B	34.7/40	49.9/56.5	50/60	34.7/40	43.4/50.0	45/50	93.2/106	100/110
DFVE60DP1300AA	0.0/0.0	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	---	---	---	---	---
HKTSN15XA/B	34.7/40	52.0/58.6	60/60	17.3/20	21.6/25	25/25	73.6/83.6	80/90
HKTSN20DA/B	34.7/40	52.0/58.6	60/60	34.7/40	43.3/50	45/50	95.3/109	100/110
HKTSN25DA/B	34.7/40	52.0/58.6	60/60	52.0/60.0	65/75	70/80	117/134	125/150
HKTSN25D1	34.7/40	52.0/58.6	60/60	52.0/60.0	65/75	70/80	117/134	125/150

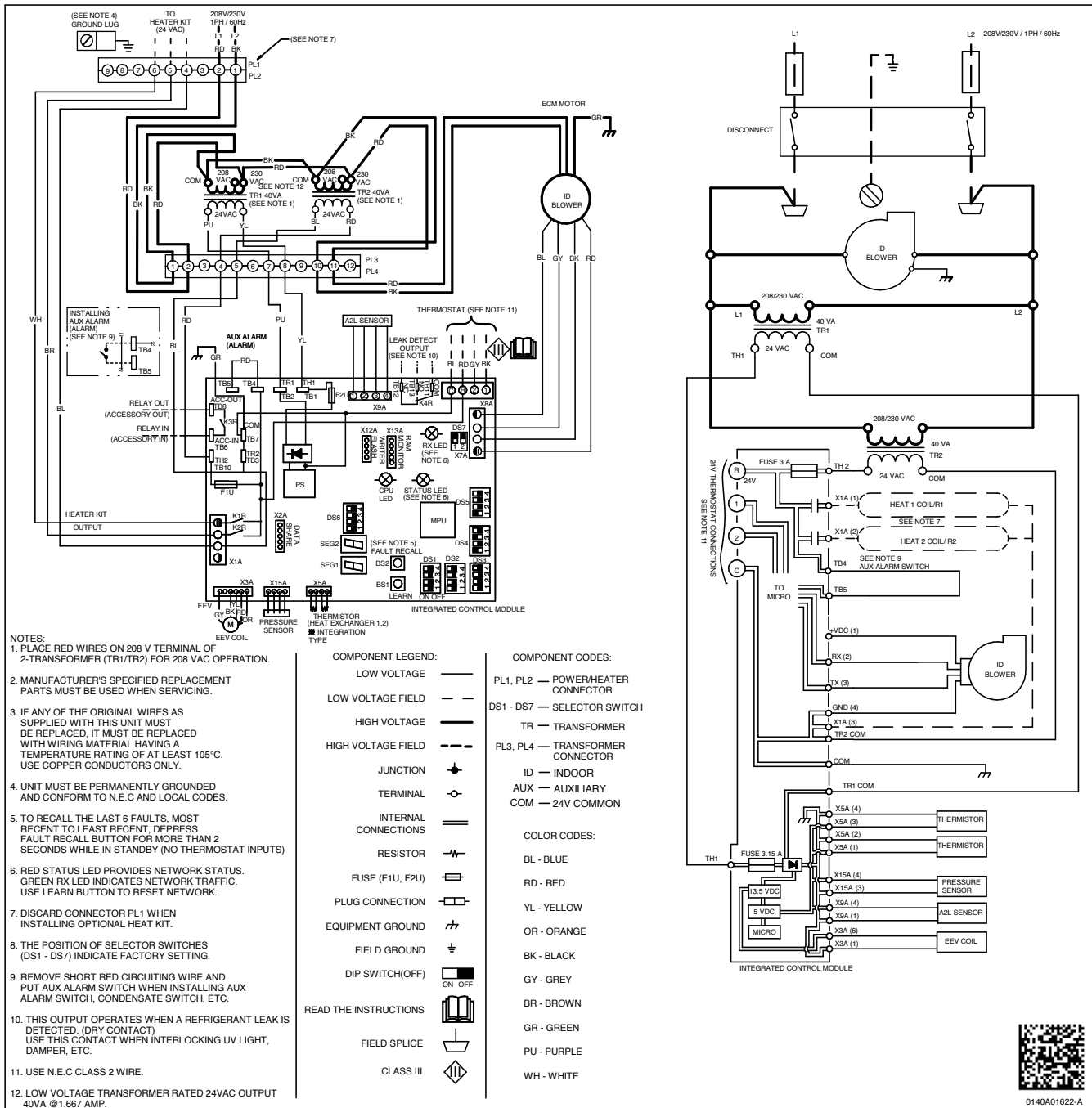
¹ Minimum Circuit Ampacity (Heater Amps + Motor Amps) X 1.25

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



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 KIT

DFKE-02
DFVE24BP1300
DFVE36CP1300
DFVE42CP1300
DFVE48CP1300
DFVE48DP1300
DFVE60DP1300

CONDENSATE MANAGEMENT KITS*

CMK0015	CMK0016	CMK0017
DFVE24BP1300	DFVE36CP1300	DFVE48DP1300
	DFVE42CP1300	DFVE60DP1300
	DFVE48CP1300	

*For Horizontal application only.

HIGH HUMIDITY KITS

HHK0001	HHK0002	HHK0003	HHK0011
DFVE24BP1300	DFVE36CP1300	DFVE48DP1300	DFVE48CP1300
	DFVE42CP1300	DFVE60DP1300	

MERV 15 AIR CLEANERS

CHASSIS	DAIKIN PREMIUM AIR CLEANER	FILTER SIZE	REPLACEMENT FILTER PART #
B	DV15-2117-AB	21"x17"	0160M00013
C	DV15-2121-AC	21"x21"	0160M00014
D	DV15-2124-AD	21"x24"	0160M00015

PERMANENT 1" 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 KITS (SPW-01)

HEATER KIT MODEL	SPWK-B	SPWK-C	SPWK-D
HKTSD15XA		DFVE36CP1300*	DFVE48DP1300** DFVE60DP1300**
HKTSD15XB		DFVE42CP1300**	
		DFVE48CP1300**	
HKTSD19CA		DFVE36CP1300*	
HKTSD19CB		DFVE42CP1300**	
HKTSD20DA			DFVE48DP1300**
HKTSD20DB			DFVE60DP1300**
HKTSD25DA			DFVE60DP1300**
HKTSD25DB			

15" SINGLE LAMP UV COIL PURIFIER

MODEL	LAMP	POWER MOD	REM CORD
UC18S15-24	UCP-16013	UCP-16015	UCP-16016
UC18S15-24B	UCP-16012	UCP-16014	UCP-16016