

FX4D
Comfort™ Series Fan Coil
Sizes 019 thru 061



Product Data

AIR HANDLER TECHNOLOGY AT ITS FINEST

The FX4D fan coils combine the proven technology of Carrier fan coil units with Puron®, the environmentally sound refrigerant. These fan coils are loaded with popular features. Factory-installed, refrigerant-specific thermostatic expansion valves (TXV) are standard with these fan coil designs. The designs feature contoured condensate pans with rugged, drain connections, ensuring that little water is left in the unit at the end of the cooling duty cycle. The lack of standing condensate and corrosion free pans improves IAQ and product life, features homeowners appreciate.

Standard features include grooved tubing and louvered aluminum fins. The large face areas of the refrigerant coils provide superior efficiency for high SEER and HSPF performance. Coil circuiting has also been updated to make the most of all Carrier heat pumps and air conditioners. Units also come with solid state fan controls, 1" (25mm) thick foil-faced insulation with R-value of 4.2, multi-speed motors, and fully wettable coils. Units can accommodate factory- and/or field-installed heaters from 3 to 30 kW.

Assembled at the factory compliant with low leak requirements of less than 2% cabinet leakage rate at 0.5 inches W.C. and 1.4% cabinet leakage rate at 0.5 inches W.C. when tested in accordance with ASHRAE 193 standard.

The FX4D fan coil is the Puron® refrigeration design loaded with popular features. It comes in a pre-painted (taupe metallic) galvanized steel casing and is shipped with a cleanable, permanent framed filter, and a factory-supplied power plug. These fan coils utilize the latest in electronic commutation motor (ECM) technology through the use of high efficiency, multi-tap ECM motors.



STANDARD FEATURES

- Multi-tap ECM (electronic commutating motor) motors - all sizes
- Integrated motor controls have replaced integrated circuit board
- Large, grooved tube, louvered fin coils
- Efficient, quiet, time-tested blower housings and diffusers
- Sturdy, drainable condensate pans
- Cabinet construction features innovations designed to prevent cabinet sweating
- Tested for condensate disposal in much tougher conditions than Air Conditioning and Refrigeration Institute requirements
- Super-thick R-4.2 insulation with vapor barrier
- Pre-painted galvanized steel cabinet (taupe metallic)
- Installation-flexible, multipoise units
- Horizontal hanging provisions on cabinet
- No tools required to service filter
- Factory-supplied, cleanable and reusable filter
- Newly improved filter rack area filter door insulation added for improved air seal
- Factory-installed heater packages available (5- through 15-kW)
- 3- through 30-kW accessory heaters - field installed
- Factory-supplied power plug
- Easy plug-in provisions for heater installation
- Entry options for high and low voltage wiring hook-up
- Simple, 5-amp blade fuse (and a spare) to protect 40 VA transformer
- Leak-preventing sweat connections
- Modular cabinets available on 031 through 061 sizes.
- Designed for manufactured housing applications.
- Puron[®], environmentally sound refrigerant
- Factory-installed Puron[®] refrigerant thermostatic expansion valves (TXV)
- Factory-installed heater packages available

1	2	3	4	5	6	7	8	9	10	11	12
F	X	4	D	N	B	0	1	9	L	0	0

Product Type Fan Coil, Multipoise with Puron	Heating Size 000 = No Heat 005 = 5kW 008 = 8 kW 010 = 10kW 015 = 15kW
Electrical N - 208/230v, 1 ph, 60 Hz	
Cabinet Style B - Modular F - Single Piece	Coil Type 0 = Copper T = Tin-plate L = Aluminum
Capacity 019 = 18,000 025 = 24,000 031 = 30,000 037 = 36,000 043 = 42,000 049 = 48,000 061 = 60,000	



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



ISO 9001



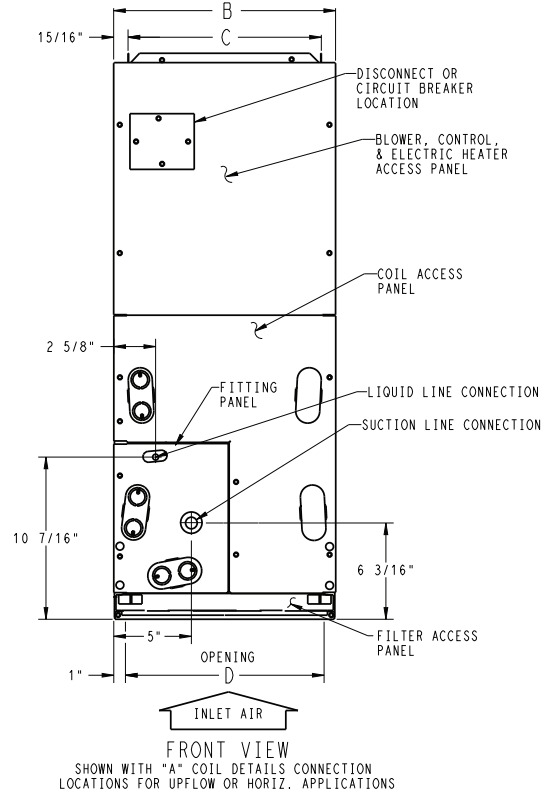
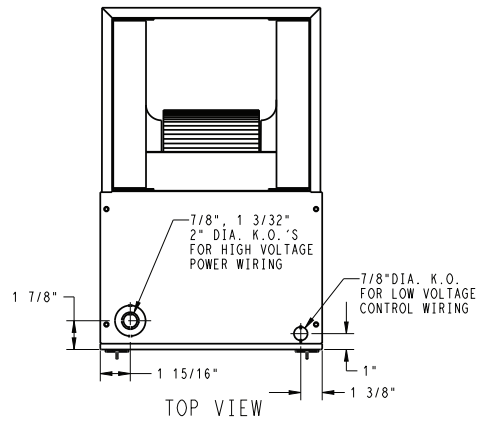
DIMENSIONS

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A	B	C	D	E	F	G	H	J	COIL CONFIGURATION		SHIPPING WT (LBS)
															SLOPE	"A"	
FX4DNF019L	B,C,D	X	*			49 5/8"	17 5/8"	15 3/4"	15 5/8"	15 3/8"	23 1/8"	23 5/8"	—	17"	X	—	128
FX4DNF025L	C,D,E,F	X	*			49 5/8"	17 5/8"	15 3/4"	15 5/8"	15 3/8"	23 1/8"	23 5/8"	—	17"	X	—	128
FX4DNF031L	C,D,E,F	X	*			53 7/16"	21 1/8"	19 1/4"	19 1/8"	19 3/16"	26 15/16"	27 1/2"	—	19"	X	—	152
FX4DNF037L	E,F,G,H,I,J,K	X	*			49 5/8"	21 1/8"	19 1/4"	19 1/8"	15 11/16"	23 7/16"	23 1/8"	—	—	—	X	163
FX4DNF043L	E,F,G,H,I,J,K	X	*			49 5/8"	21 1/8"	19 1/4"	19 1/8"	15 11/16"	23 7/16"	23 1/8"	—	—	—	X	163
FX4DNF049L	C,D,E,F,G,H,I	X	*			53 7/16"	24 11/16"	22 3/4"	22 11/16"	19 1/2"	27 1/4"	26 15/16"	—	—	—	X	190
FX4DNF061L	C,D,E,F,G,H,I	X	*			59 3/16"	24 11/16"	22 3/4"	22 11/16"	25 1/4"	32 15/16"	32 5/8"	—	—	—	X	207

X=YES
O=NO
*=YES, DUE TO AVAILABLE FIELD
INSTALLED HEATERS.

- NOTE:
- SERIES DESIGNATION IS THE 14TH POSITION OF UNIT PRODUCT NUMBER
 - ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

NOTE: ALLOW 21" FROM FRONT FOR SERVICE



UNIT CONNECTION SIZES

SUCTION: 019 & 025 - 5/8" I.D. SWEAT
031 & 037 - 3/4" I.D. SWEAT
043 THRU 061 - 7/8" I.D. SWEAT
LIQUID: 3/8" I.D. SWEAT
CONDENSATE: 3/4" FPT

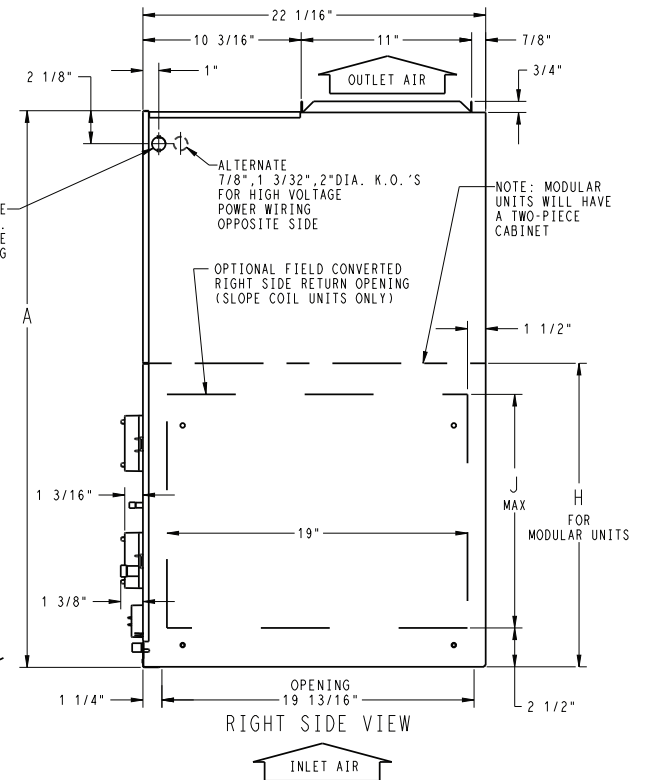
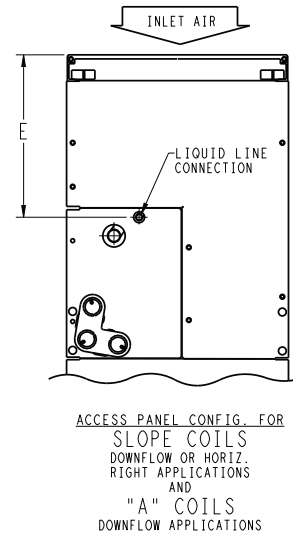
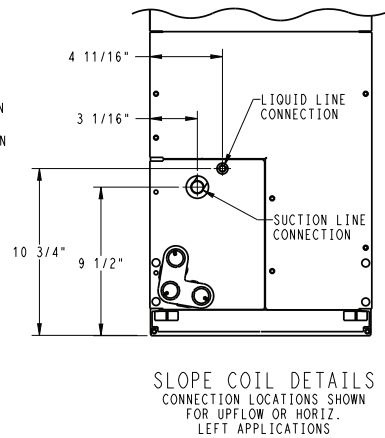


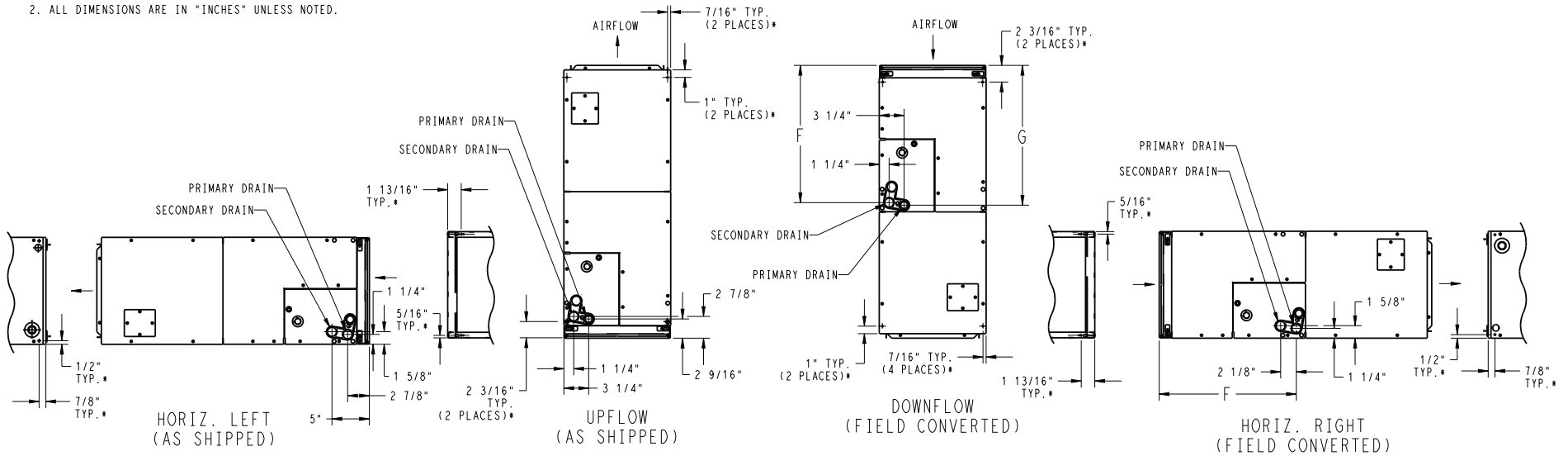
Fig. 1 – FX4DNF - English

DIMENSIONS (cont.)

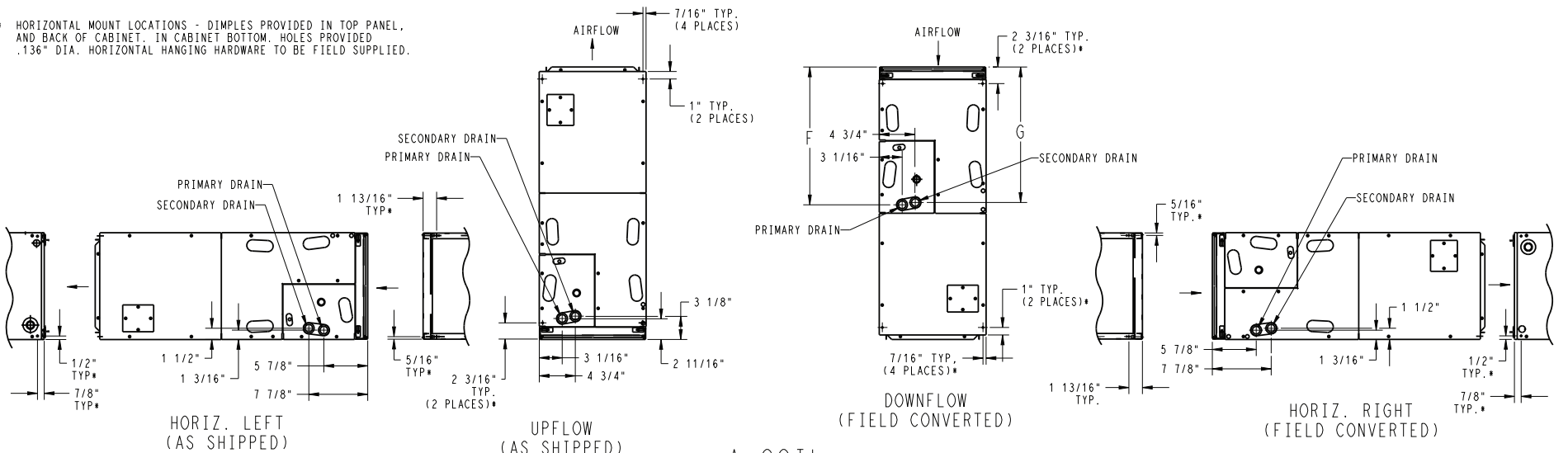
SLOPE COIL

NOTES:

1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.
2. ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.



* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL, AND BACK OF CABINET. IN CABINET BOTTOM. HOLES PROVIDED .136" DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.



A-COIL

Fig. 2 – FX4DNF - English

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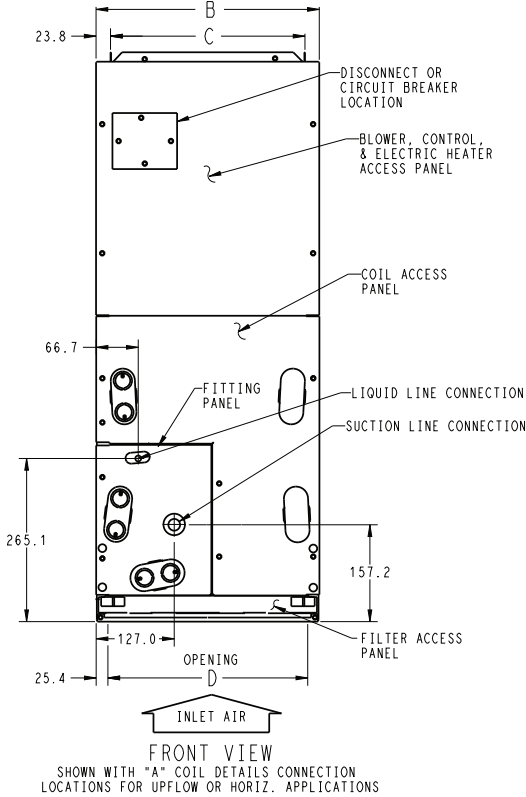
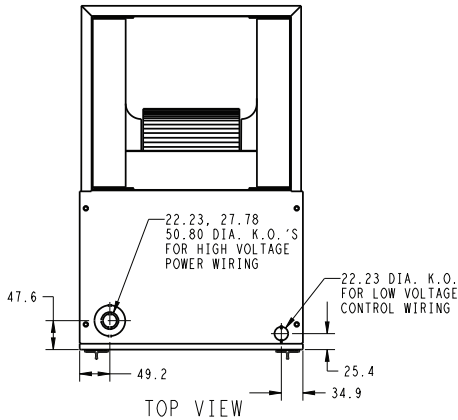
DIMENSIONS (cont.)

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A	B	C	D	E	F	G	H	J	COIL CONFIGURATION		SHIPPING WT (Kgs)
															SLOPE	"A"	
FX4DNF019L	B,C,D	X	*			1260.5	447.7	400.0	396.9	390.5	587.4	600.1	—	431.8	X	—	58.1
FX4DNF025L	C,D,E,F	X	*			1260.5	447.7	400.0	396.9	390.5	587.4	600.1	—	431.8	X	—	58.1
FX4DNF031L	C,D,E,F	X	*			1357.3	536.6	489.0	485.8	487.4	684.2	698.5	—	482.6	X	—	69.0
FX4DNF037L	E,F,G,H,I,J,K	X	*			1260.5	536.6	489.0	485.8	398.5	595.3	587.4	—	—	—	X	74.0
FX4DNF043L	E,F,G,H,I,J,K	X	*			1260.5	536.6	489.0	485.8	398.5	595.3	587.4	—	—	—	X	74.0
FX4DNF049L	C,D,E,F,G,H,I	X	*			1357.3	627.1	577.8	576.3	495.3	692.2	684.2	—	—	—	X	86.3
FX4DNF061L	C,D,E,F,G,H,I	X	*			1503.4	627.1	577.8	576.3	641.4	836.6	828.7	—	—	—	X	94.0

X=YES
O=NO
*=YES, DUE TO AVAILABLE FIELD
INSTALLED HEATERS.

- NOTE:
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 - ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.

NOTE: ALLOW 533.4 FROM FRONT FOR SERVICE



UNIT CONNECTION SIZES

SUCTION: 019 & 025 - 15.88 I.D. SWEAT
031 & 037 - 19.05 I.D. SWEAT
043 THRU 061 - 22.23 I.D. SWEAT

LIQUID: 9.53 I.D. SWEAT

CONDENSATE: 19.0 FPT

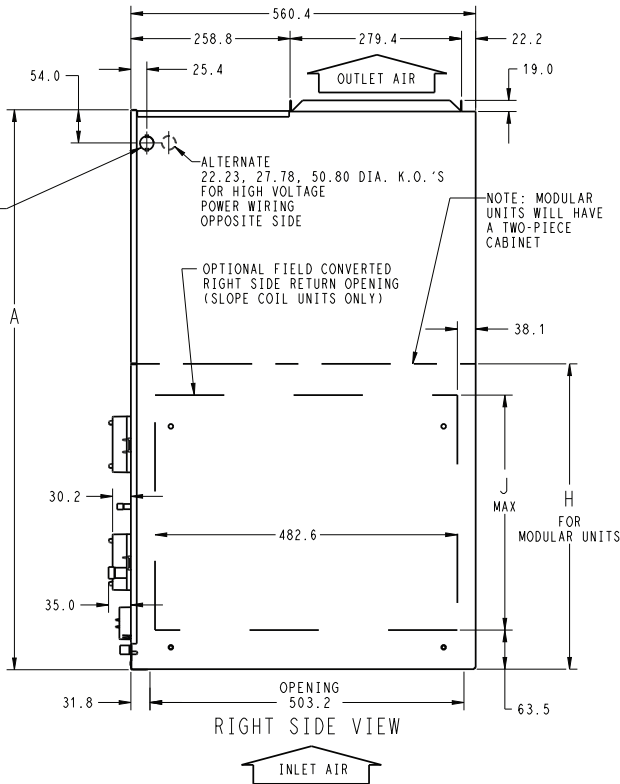
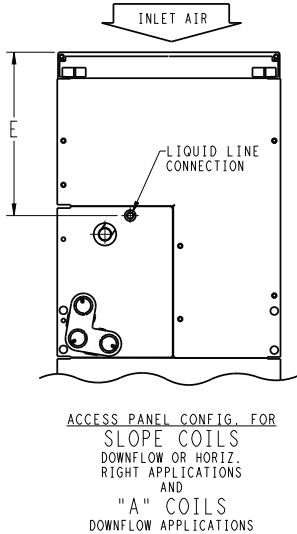
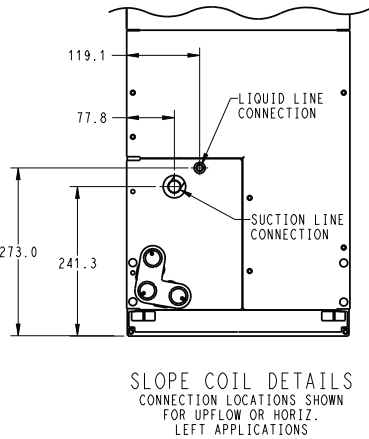


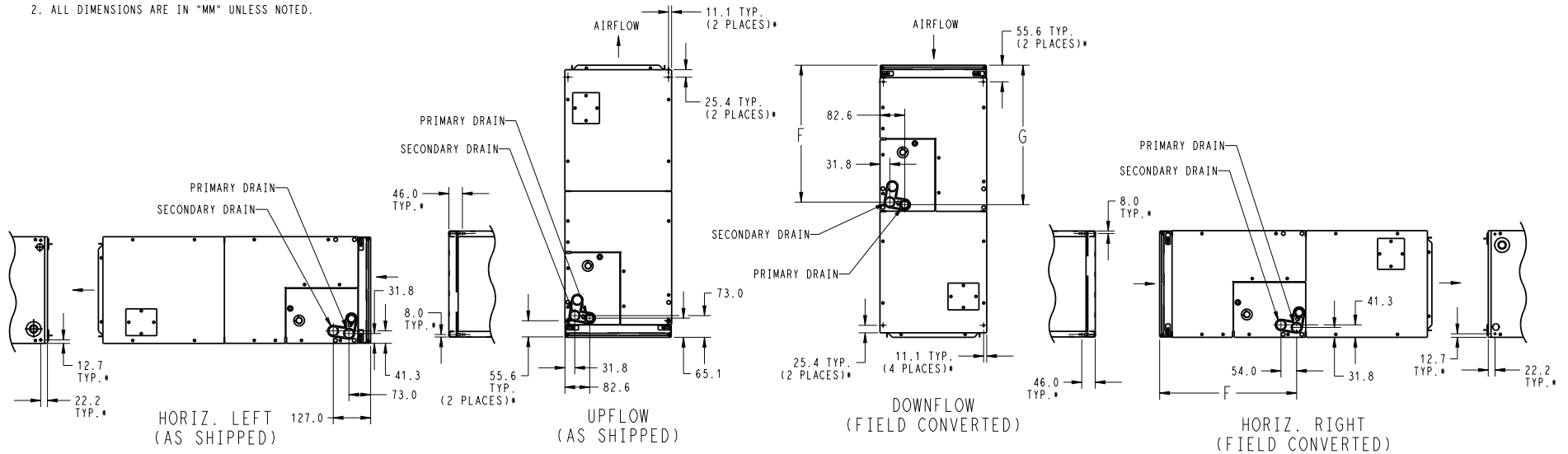
Fig. 3 – FX4DNF - Metric

DIMENSIONS (cont.)

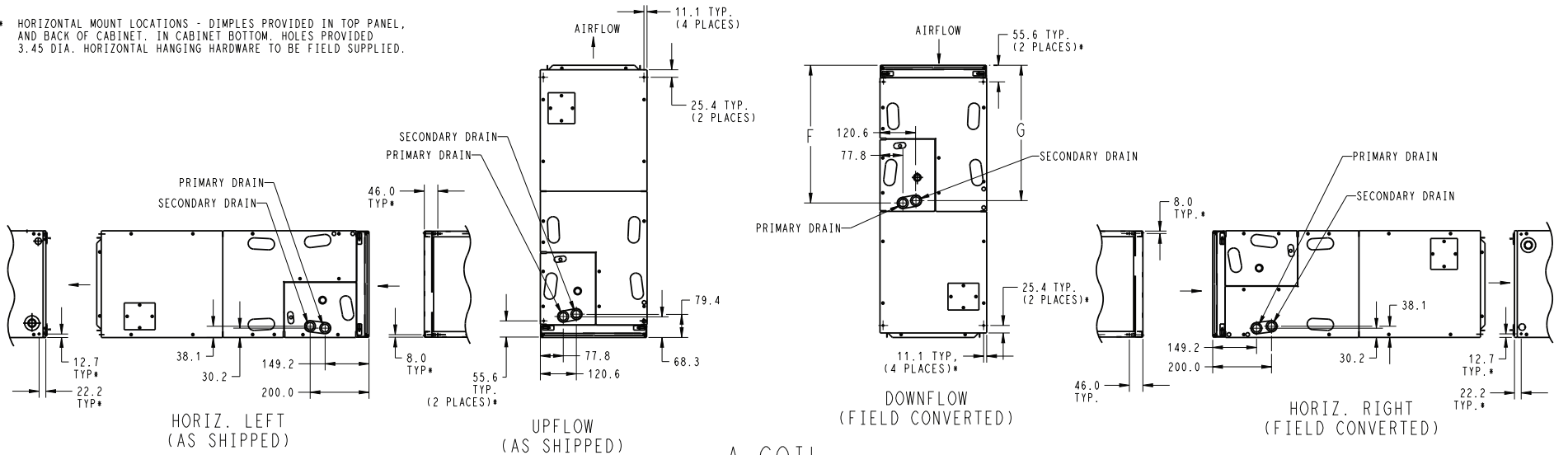
SLOPE COIL

NOTES:

1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.
2. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.



* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL, AND BACK OF CABINET. IN CABINET BOTTOM, HOLES PROVIDED 3.45 DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.



A-COIL

Fig. 4 – FX4DNF - Metric

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DIMENSIONS (cont.)

UNIT	SERIES	ELECTRICAL CHARACTERISTICS			A	B	C	D	E	F	G	H	J	COIL CONFIGURATION		SHIPPING WT (LBS)
														SLOPE	"A"	
FX4DNB031L	C,D,E,F	X	*		53 7/16"	21 1/8"	19 1/4"	19 1/8"	19 3/16"	26 15/16"	27 1/2"	28 5/16"	19"	X	—	152
FX4DNB037L	E,F,G,H,I,J,K	X	*		53 7/16"	21 1/8"	19 1/4"	19 1/8"	19 1/2"	27 1/4"	26 15/16"	28 5/16"	—	—	X	180
FX4DNB043L	E,F,G,H,I,J,K	X	*		53 7/16"	21 1/8"	19 1/4"	19 1/8"	19 1/2"	27 1/4"	26 15/16"	28 5/16"	—	—	X	180
FX4DNB049L	E,F,G,H,I,J,K	X	*		53 7/16"	24 11/16"	22 3/4"	22 11/16"	19 1/2"	27 1/4"	26 15/16"	28 5/16"	—	—	X	191
FX4DNB061L	C,D,E,F,G,H,I	X	*		59 3/16"	24 11/16"	22 3/4"	22 11/16"	25 1/4"	32 15/16"	32 5/8"	34 1/16"	—	—	X	207

X=YES
O=NO
*-YES, DUE TO AVAILABLE FIELD
INSTALLED HEATERS.

- NOTE:
- SERIES DESIGNATION IS THE 14TH POSITION OF UNIT PRODUCT NUMBER
 - ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

UNIT CONNECTION SIZES

SUCTION: 031 & 037 - 3/4" I.D. SWEAT
043 THRU 061 - 7/8" I.D. SWEAT
LIQUID: 3/8" I.D. SWEAT
CONDENSATE: 3/4" FPT

NOTE: ALLOW 21" FROM FRONT FOR SERVICE

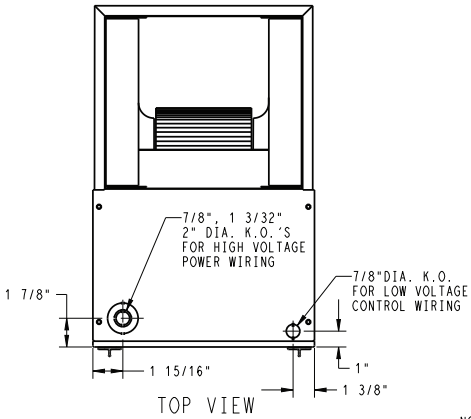
ALTERNATE 7/8"DIA. K.O. FOR LOW VOLTAGE CONTROL WIRING

ALTERNATE 7/8", 1 3/32", 2"DIA. K.O.'S FOR HIGH VOLTAGE POWER WIRING OPPOSITE SIDE

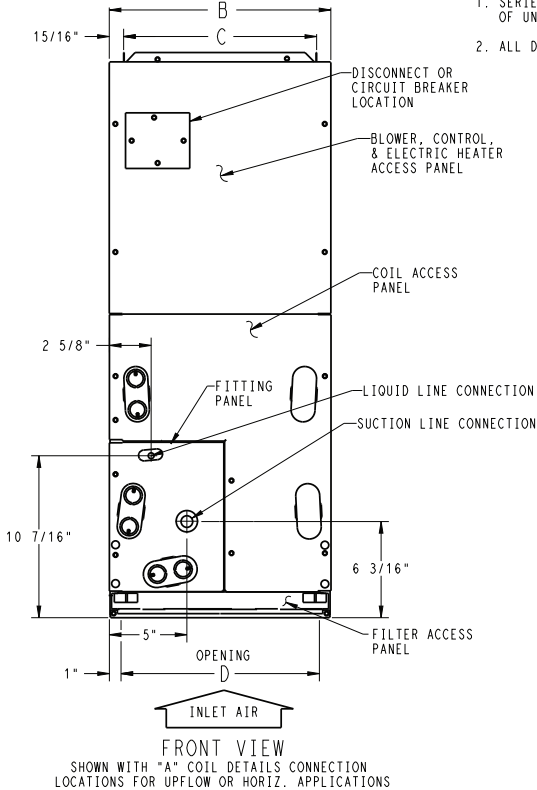
NOTE: MODULAR UNITS WILL HAVE A TWO-PIECE CABINET

ACCESS PANEL CONFIG. FOR SLOPE COILS DOWNFLOW OR HORIZ. RIGHT APPLICATIONS AND "A" COILS DOWNFLOW APPLICATIONS

RIGHT SIDE VIEW

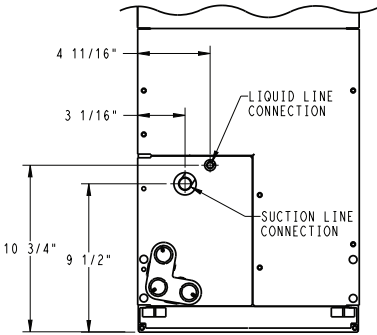


TOP VIEW



FRONT VIEW

SHOWN WITH "A" COIL DETAILS CONNECTION LOCATIONS FOR UPFLOW OR HORIZ. APPLICATIONS



SLOPE COIL DETAILS CONNECTION LOCATIONS SHOWN FOR UPFLOW OR HORIZ. LEFT APPLICATIONS

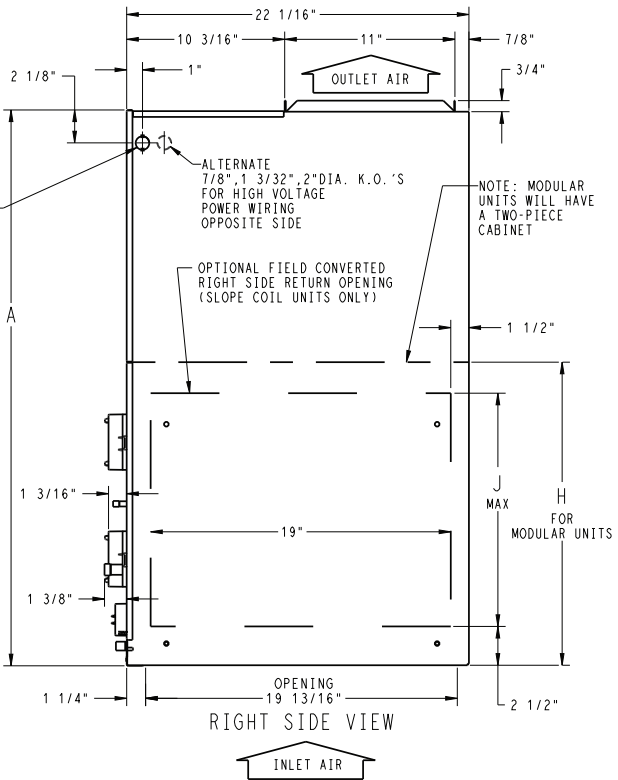
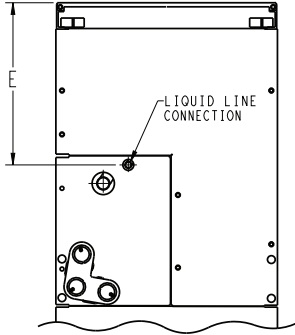


Fig. 5 – FX4DNB - English

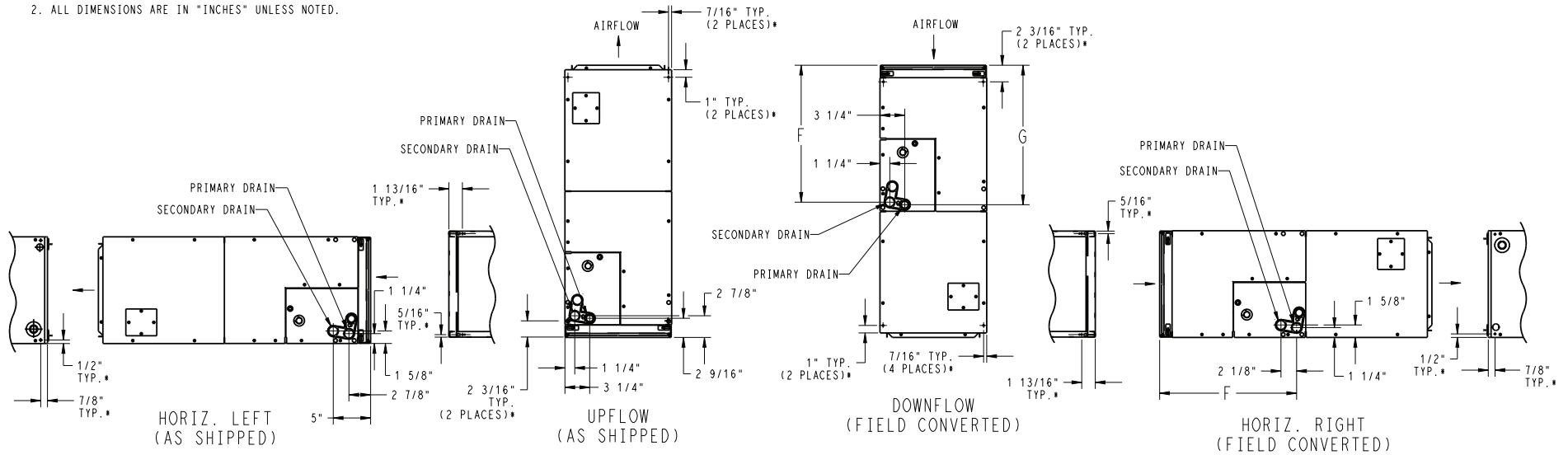
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DIMENSIONS (cont.)

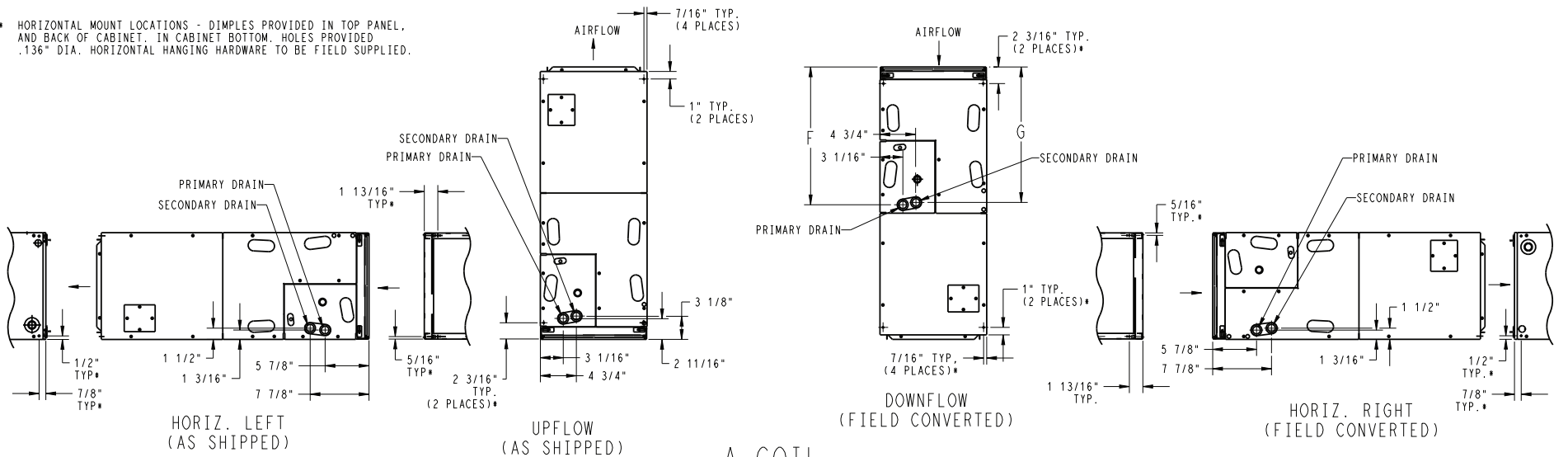
SLOPE COIL

NOTES:

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2. ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.



* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL, AND BACK OF CABINET. IN CABINET BOTTOM. HOLES PROVIDED .136" DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.

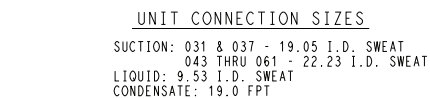
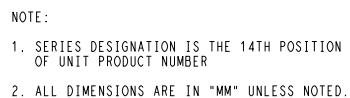


A-COIL

Fig. 6 – FX4DNB - English

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Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.



UNIT	SERIES	ELECTRICAL CHARACTERISTICS			A	B	C	D	E	F	G	H	J	COIL CONFIGURATION		SHIPPING WT (Kgs)
														SLOPE	"A"	
FX4DNB031L	C,D,E,F	X	*		1357.3	536.6	489.0	485.8	487.4	684.2	698.5	719.2	482.6	X	-	69.0
FX4DNB037L	E,F,G,H,I,J,K	X	*		1357.3	536.6	489.0	485.8	495.3	692.2	684.2	719.2	-	-	X	81.7
FX4DNB043L	E,F,G,H,I,J,K	X	*		1357.3	536.6	489.0	485.8	495.3	692.2	684.2	719.2	-	-	X	81.7
FX4DNB049L	E,F,G,H,I,J,K	X	*		1357.3	627.1	577.8	576.3	495.3	692.2	684.2	719.2	-	-	X	86.7
FX4DNB061L	C,D,E,F,G,H,I	X	*		1503.4	627.1	577.8	576.3	641.4	836.6	828.7	865.2	-	-	X	94.0

X=YES
O=NO
*=YES, DUE TO AVAILABLE FIELD
INSTALLED HEATERS.



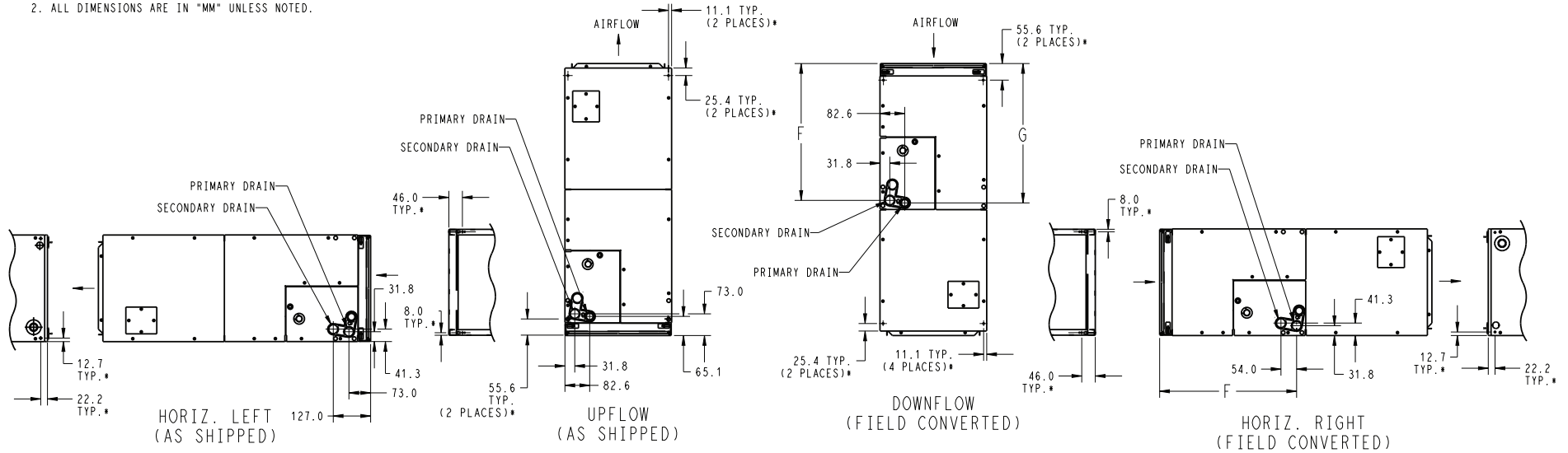
Fig. 7 – FX4DNB - Metric

DIMENSIONS (cont.)

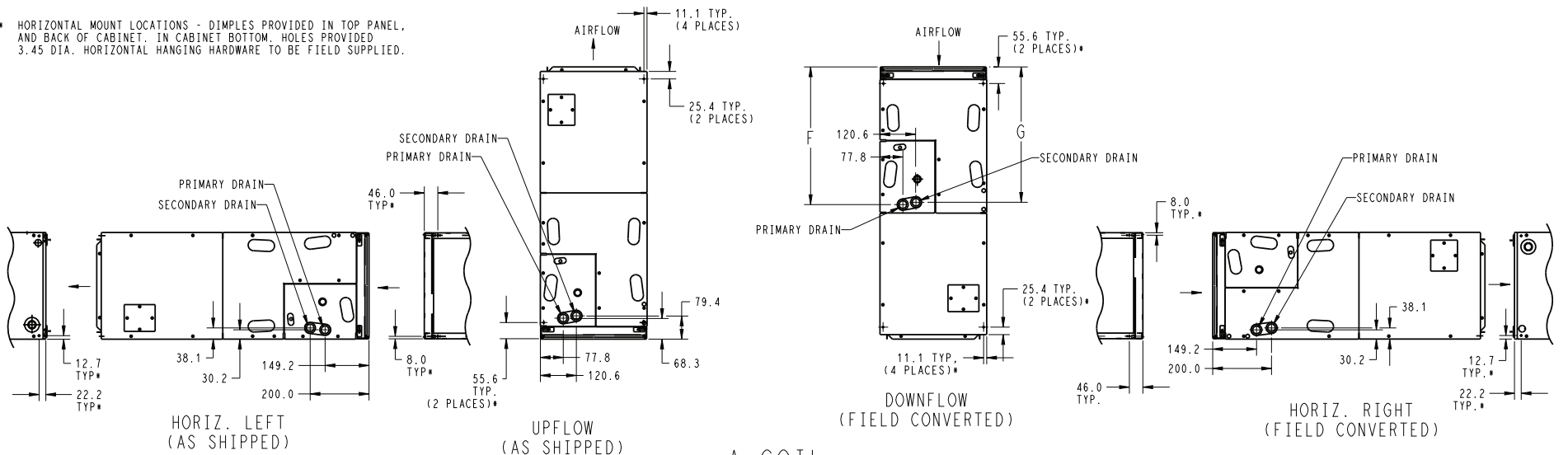
SLOPE COIL

NOTES:

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2. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.



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A-COIL

Fig. 8 – FX4DNB - Metric

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DIMENSIONS (cont.)PHYSICAL DATA

ODS CATALOG ORDERING NO.	FACTORY INSTALLED HEAT (kW)	NOMINAL COOLING CAPACITY (Btuh)	DIMENSIONS			SHIPPING WEIGHT
			Height	Width	Depth	
FX4DNF019(0,T,L)00	—	18,000	49 5/8-in	17 5/8-in	22-1/16-in	122 lb
FX4DNF019(0,L)05	5		1261 mm	447 mm	560 mm	55 kg
FX4DNF025(0,T,L)00	—	24,000	49 5/8-in	17 5/8-in	22-1/16-in	122 lb
FX4DNF025(0,L)05	5		1261 mm	447 mm	560 mm	55 kg
FX4DNF031(0,T,L)00	—	30,000	53 7/16-in	21 1/8-in	22-1/16-in	146 lb
FX4DNF031(0,L)08	8		1357 mm	536 mm	560 mm	66 kg
FX4DNF037(0,T,L)00	—	36,000	49 5/8-in	21 1/8-in	22-1/16-in	157 lb
FX4DNF037(0,L)10	10		1261 mm	536 mm	560 mm	71 kg
FX4DNF043(0,T,L)00	—	42,000	49 5/8-in	21 1/8-in	22-1/16-in	157 lb
FX4DNF043(0,L)10	10		1260 mm	536 mm	560 mm	71 kg
FX4DNF049(0,T,L)00	—	48,000	53 7/16-in	24 11/16-in	22-1/16-in	185 lb
FX4DNF049(0,L)10	10		1357 mm	627 mm	560 mm	84 kg
FX4DNF061(0,T,L)00	—	60,000	59 3/16-in 1503 mm	24 11/16-in 627 mm	22-1/16-in 560 mm	201 lb
FX4DNF061(0,L)10	10					91 kg
FX4DNF061(0,L)15	15					
FX4DNB031(T,L)00	—	30,000	53 7/16-in 1357 mm	21 1/8-in 536mm	22-1/16-in 560 mm	146 lb 66 kg
FX4DNB037(T,L)00	—	36,000	53 7/16-in 1357 mm	21 1/8-in 536 mm	22-1/16-in 560 mm	175 lb 79 kg
FX4DNB043(T,L)00	—	42,000	53 7/16-in 1357 mm	21 1/8-in 536 mm	22-1/16-in 560 mm	175 lb 79 kg
FX4DNB049(T,L)00	—	48,000	53 7/16-in 1357 mm	24 11/16-in 627 mm	22-1/16-in 560 mm	185 lb 84 kg
FX4DNB061(T,L)00	—	60,000	59 3/16-in 1503 mm	24 11/16-in 627 mm	22-1/16-in 560 mm	201 lb 91 kg

6th digit: B - Modular cabinet, F - Single piece cabinet
10th digit: 0 - Copper, T - Tin-Plate, L - Aluminum

SPECIFICATIONS

MODEL FX4D	019	025	031	037	043	049	061
COIL							
Puron® Refrigerant Metering Device	TXV - factory installed hard-shutoff, bi-flow type for heat pump application						
TXV	2 ton		3 ton			4 ton	
Rows/Fins Per In.	3 / 14.5						
Face Area (Sq. Ft.)	2.97		3.46	4.45		5.93	7.42
Configuration	Slope			A			
FAN							
CFM (Nominal)	600	800	1000	1200	1400	1600	2000
Motor Type (ECM)	Multi-tap ECM						
Motor Hp	1/3	1/3	1/2	1/2	1/2	3/4	3/4
FILTER							
21-1/2-in / 546 mm X	16-3/8-in / 417 mm		19-7/8-in / 505 mm			23-5/16-in / 585 mm	
CABINET CONFIGURATION OPTIONS							
	1-pc		1-pc / Modular				

PERFORMANCE DATA

Table 1 – AIRFLOW PERFORMANCE (CFM)

Model & Size	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60
FX4D 019	Tap 5	776	745	696	660	609	572
	Tap 4	683	644	589	548	494	461
	Tap 3	683	644	589	548	494	461
	Tap 2	631	563	500	443	409	361
	Tap 1	625	524	457	417	367	319
FX4D 025	Tap 5	956	920	891	851	816	780
	Tap 4	825	795	757	722	674	634
	Tap 3	825	795	757	722	674	634
	Tap 2	726	695	635	598	543	509
	Tap 1	631	563	500	443	409	361
FX4D 031	Tap 5	1189	1151	1104	1050	1003	959
	Tap 4	1041	998	944	886	837	772
	Tap 3	1041	998	944	886	837	772
	Tap 2	924	876	817	752	704	660
	Tap 1	779	693	628	571	526	476
FX4D 037	Tap 5	1363	1332	1294	1253	1207	1157
	Tap 4	1237	1206	1160	1121	1070	1013
	Tap 3	1237	1206	1160	1121	1070	1013
	Tap 2	1095	1058	1007	951	888	824
	Tap 1	1014	885	773	673	609	549
FX4D 043	Tap 5	1519	1490	1454	1419	1379	1332
	Tap 4	1437	1403	1366	1333	1294	1245
	Tap 3	1437	1403	1366	1333	1294	1245
	Tap 2	1257	1226	1191	1141	1090	1033
	Tap 1	1237	1206	1160	1121	1070	1013
FX4D 049	Tap 5	1757	1725	1693	1653	1614	1576
	Tap 4	1664	1626	1593	1552	1517	1477
	Tap 3	1664	1626	1593	1552	1517	1477
	Tap 2	1459	1420	1379	1336	1298	1259
	Tap 1	1301	1241	1195	1150	1102	1039
FX4D 061	Tap 5	2030	1995	1961	1927	1888	1842
	Tap 4	1811	1775	1740	1703	1664	1613
	Tap 3	1811	1775	1740	1703	1664	1613
	Tap 2	1665	1632	1593	1556	1507	1453
	Tap 1	1462	1418	1371	1327	1278	1228

 - Airflow above 450 cfm/ton.

NOTES:

- Airflow based upon dry coil at 230v with factory-approved filter and electric heater (2 element heater sizes 018 through 037, 3 element heater sizes 043 through 061).
- Airflow at 208 volts is approximately the same as 230 volts because the multi-tap ECM motor is a constant torque motor. The torque doesn't drop off at the speeds the motor operates.
- To avoid potential for condensate blowing out of drain pan prior to making drain trap:
Return static pressure must be less than 0.40 in wc.
Horizontal applications of 043 - 061 sizes must have supply static greater than 0.20 in wc.
- Airflow above 400 cfm/ton on 049-061 size could result in condensate blowing off coil or splashing out of drain pan.

PERFORMANCE DATA (cont.)

Table 2 – GROSS COOLING CAPACITIES (MBH) - PURON® REFRIGERANT

UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FX4D 019	525	72 / 22	36	19	0.00	33	17	0.00	28	15	0.00	24	13	0.00	19	11	0.01
		67 / 19	29	19	0.01	26	17	0.01	22	15	0.02	17	13	0.02	12	10	0.02
		62 / 17	23	19	0.02	20	17	0.02	16	15	0.02	12	12	0.07	10	10	0.24
	600	72 / 22	40	21	0.00	36	19	0.00	32	17	0.00	27	14	0.01	21	12	0.02
		67 / 19	33	21	0.02	29	19	0.02	24	17	0.02	19	14	0.02	13	12	0.03
		62 / 17	26	21	0.02	22	19	0.02	17	17	0.03	13	13	0.08	11	11	0.25
	675	72 / 22	44	23	0.00	40	21	0.00	35	18	0.00	29	16	0.02	23	13	0.02
		67 / 19	36	23	0.02	32	21	0.03	26	18	0.03	21	16	0.03	15	13	0.03
		62 / 17	29	24	0.03	24	21	0.03	19	19	0.04	15	15	0.10	12	12	0.26
FX4D 025	700	72 / 22	48	25	0.00	43	22	0.00	37	19	0.00	31	17	0.02	25	14	0.03
		67 / 19	39	25	0.03	34	22	0.03	28	20	0.03	22	17	0.03	16	14	0.04
		62 / 17	31	25	0.03	26	23	0.03	20	20	0.04	16	16	0.10	13	13	0.26
	800	72 / 22	53	27	0.00	47	24	0.00	41	21	0.01	35	18	0.03	27	15	0.04
		67 / 19	43	28	0.04	37	25	0.04	31	22	0.04	25	19	0.04	17	16	0.05
		62 / 17	34	28	0.04	29	25	0.04	23	22	0.05	18	18	0.12	15	15	0.28
	900	72 / 22	57	30	0.00	51	27	0.00	45	23	0.03	38	20	0.04	30	17	0.05
		67 / 19	47	30	0.05	41	27	0.05	34	24	0.05	27	21	0.05	19	17	0.06
		62 / 17	37	31	0.05	31	28	0.05	25	24	0.06	20	20	0.14	16	16	0.29
FX4D 031	875	72 / 22	59	30	0.00	53	27	0.00	46	24	0.01	38	20	0.02	30	17	0.03
		67 / 19	48	31	0.03	42	28	0.03	35	24	0.04	27	21	0.04	19	17	0.04
		62 / 17	38	31	0.04	32	28	0.04	25	24	0.04	20	20	0.11	16	16	0.27
	1000	72 / 22	65	33	0.00	58	30	0.00	51	26	0.02	42	23	0.04	33	19	0.04
		67 / 19	53	34	0.04	46	31	0.04	38	27	0.05	30	23	0.05	21	19	0.05
		62 / 17	42	35	0.05	35	31	0.05	28	27	0.06	22	22	0.13	18	18	0.29
	1125	72 / 22	71	36	0.00	63	33	0.00	55	29	0.03	46	25	0.05	36	20	0.05
		67 / 19	58	37	0.05	50	33	0.05	42	29	0.06	33	25	0.06	23	21	0.07
		62 / 17	46	38	0.06	38	34	0.06	30	30	0.07	24	24	0.15	20	20	0.30
FX4D 037	1050	72 / 22	67	36	0.00	60	32	0.00	52	28	0.00	44	24	0.02	35	20	0.03
		67 / 19	54	37	0.03	47	33	0.03	40	29	0.03	31	25	0.03	22	20	0.04
		62 / 17	43	37	0.03	36	33	0.03	29	29	0.04	22	22	0.10	18	18	0.26
	1200	72 / 22	74	40	0.00	66	36	0.00	58	31	0.01	48	27	0.03	38	22	0.04
		67 / 19	60	41	0.04	52	36	0.04	44	32	0.04	35	27	0.04	24	23	0.05
		62 / 17	48	41	0.04	40	37	0.04	32	32	0.05	25	25	0.12	21	21	0.28
	1350	72 / 22	81	43	0.00	72	39	0.00	63	34	0.03	53	30	0.04	41	25	0.05
		67 / 19	66	45	0.05	57	40	0.05	48	35	0.05	38	30	0.05	27	25	0.06
		62 / 17	52	46	0.05	44	41	0.05	35	36	0.06	28	28	0.14	23	23	0.29
FX4D 043	1225	72 / 22	79	41	0.00	71	37	0.00	62	33	0.02	52	28	0.03	41	23	0.04
		67 / 19	64	42	0.04	56	38	0.04	47	33	0.04	37	29	0.04	26	24	0.05
		62 / 17	51	43	0.04	43	38	0.04	34	34	0.05	27	27	0.12	22	22	0.28
	1400	72 / 22	87	46	0.00	78	41	0.00	68	36	0.03	57	31	0.04	45	26	0.05
		67 / 19	71	47	0.05	62	42	0.05	52	37	0.05	41	32	0.05	29	26	0.06
		62 / 17	56	48	0.06	47	43	0.06	38	38	0.06	30	30	0.14	25	25	0.29
	1575	72 / 22	95	50	0.00	85	45	0.00	74	39	0.04	62	34	0.05	48	28	0.06
		67 / 19	77	51	0.06	67	46	0.06	56	40	0.06	44	35	0.07	31	29	0.07
		62 / 17	61	52	0.07	51	47	0.07	41	41	0.08	33	33	0.17	27	27	0.31
FX4D 049	1400	72 / 22	90	48	0.00	81	43	0.00	71	38	0.00	59	32	0.02	47	27	0.03
		67 / 19	73	49	0.03	64	44	0.03	54	38	0.03	42	33	0.03	30	27	0.04
		62 / 17	58	49	0.03	49	44	0.03	39	39	0.04	30	30	0.10	25	25	0.26
	1600	72 / 22	100	53	0.00	89	48	0.00	78	42	0.01	65	36	0.03	51	30	0.04
		67 / 19	81	54	0.04	71	48	0.04	59	43	0.04	47	36	0.04	33	30	0.05
		62 / 17	65	55	0.04	54	49	0.04	43	43	0.05	34	34	0.12	28	28	0.28
	1800	72 / 22	109	58	0.00	97	52	0.00	85	46	0.03	71	39	0.04	56	33	0.05
		67 / 19	89	59	0.05	77	53	0.05	65	47	0.05	51	40	0.05	36	33	0.06
		62 / 17	70	60	0.05	59	54	0.05	47	48	0.06	37	37	0.14	31	31	0.29

UNIT SIZE	INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (°F / °C)														
			35 / 2			40 / 4			45 / 7			50 / 10			55 / 13		
	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
FX4D 061	1600	72 / 22	109	57	0.00	98	51	0.00	86	45	0.00	73	39	0.01	58	32	0.02
		67 / 19	89	58	0.02	78	52	0.02	66	46	0.02	52	39	0.03	37	33	0.03
		62 / 17	71	59	0.03	60	52	0.03	48	46	0.03	37	37	0.09	31	31	0.24
	1750	72 / 22	117	61	0.00	105	55	0.00	92	48	0.01	78	41	0.02	62	35	0.02
		67 / 19	95	62	0.03	84	56	0.03	70	49	0.03	56	42	0.03	40	35	0.03
		62 / 17	76	63	0.03	64	56	0.03	51	50	0.04	40	40	0.10	33	33	0.25
	2000	72 / 22	129	67	0.00	116	60	0.00	102	53	0.02	86	46	0.03	68	38	0.03
		67 / 19	105	69	0.04	92	62	0.04	78	54	0.04	62	47	0.04	44	39	0.05
		62 / 17	84	70	0.04	71	63	0.04	57	55	0.05	45	45	0.12	37	37	0.27

See Notes following table.

CFM - Cubic Ft per Minute

EWB - Entering Wet Bulb °F (°C)

LWB - Leaving Wet Bulb °F (°C)

TC - Gross Cooling Capacity 1000 Btuh

SHC - Gross Sensible Capacity 1000 Btuh

BF - Bypass Factor

MBH - 1000 Btuh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- Formulas:
Leaving db = entering db - sensible heat cap.
1.09 x CFM
Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{lwb})
 $h_{lwb} = h_{ewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$
where h_{ewb} = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

Table 3 – SHC CORRECTION FACTOR

BYPASS FACTOR	ENTERING AIR DRY-BULB TEMPERATURE (°F)					
	79	78	77	76	75	Under 75
	81	82	83	84	85	Over 85
	ENTERING AIR DRY-BULB TEMPERATURE (°C)					
	26	25	25	24	24	Under 75
	27	28	28	29	29	Over 85
	Correction Factor					
0.10	.098	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

Table 4 – MINIMUM CFM AND MOTOR SPEED SELECTION

FAN COIL SIZES FX	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
019	525	525	525	—	600*	—	—	—	—	—
025	700	700	700	—	700	775*	—	—	—	—
031	—	875	875	—	875	875	—	1060*	—	—
037	—	1050	970	970	970	920	—	1040	—	—
043	—	—	1225	1225	1225	1225	1225	1225	—	—
049	—	—	1400	1400	1400	1400	1400	1400	1400	1400
061	—	—	1750	1750	1750	1750	1750	1750	1750	1750

* Indicates medium speed (blue). All other motor speeds at low tap.

Table 5 – AIR DELIVERY PERFORMANCE CORRECTION COMPONENT PRESSURE DROP (in wc AT INDICATED AIRFLOW (DRY-TO-WET COIL))

FX Size	CFM															
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
019	0.034	0.049	0.063	--	--	--	--	--	--	--	--	--	--	--	--	--
025	0.016	0.027	0.038	0.049	0.059	--	--	--	--	--	--	--	--	--	--	--
031	—	—	—	0.049	0.059	0.070	0.080	—	—	—	—	—	—	—	—	—
037	—	—	—	—	—	0.055	0.064	0.073	0.081	—	—	—	—	—	—	—
043	—	—	—	—	—	—	—	0.049	0.056	0.063	0.070	—	—	—	—	—
049	—	—	—	—	—	—	—	—	—	0.038	0.043	0.049	0.054	0.059	—	—
061	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

PERFORMANCE DATA (cont)

Table 6 – FACTORY-INSTALLED FILTER STATIC PRESSURE DROP (in wc)

Unit Size FX4D	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
019, 025	0.012	0.022	0.048	0.072	—	—	—	—	—
031, 037, 043	—	—	0.036	0.051	0.07	0.092	0.12	—	—
049, 061	—	—	—	—	—	0.073	0.086	0.105	0.13

Table 7 – ELECTRIC HEATER STATIC PRESSURE DROP (in wc)

019 - 037			043 - 061		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+0.02	0	0	+0.04
1	3, 5	+0.01	2	8, 10	+0.02
2	8, 10	0	3	9, 15	0
3	9, 15	−0.02	4	20	−0.02
4	20	−0.04	6	18, 24, 30	−0.10

The airflow performance data was developed using fan coils with 10-kW electric heaters (2 elements) in the 019 through 037 size units and 15-kW heaters (3 elements) in the 043 through 061 size units.

For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

Table 8 – ACCESSORY ELECTRIC HEATERS

HEATER PART NO.	kW @ 240V	VOLTS/PH	STAGES (kW OPERATING)	INTERNAL CIRCUIT PROTECTION	FAN COIL SIZE USED WITH	HEATING CAP.** @ 230V
KFCEH0401N03	3	230/1	3	None	018–024	9,400
KFCEH0501N05	5	230/1	5	None	018–060	15,700
KFCEH0801N08	8	230/1	8	None	018–060	25,100
KFCEH0901N10	10	230/1	10	None	018–060	31,400
KFCEH3201F20	20	230/1	5, 20	Fuse†	030–060	62,800
KFCEH1601315	15	230/3	5, 15	None	036–060	47,100
KFCEH2001318	18	230/3	6, 12, 18	None	042–060	56,500
KFCEH3401F24	24	230/3*	8, 16, 24	Fuse	048, 060	78,300
KFCEH3501F30	30	230/3*	10, 20, 30	Fuse	048, 060	94,100
KFCEH2401C05	5	230/1	5	Circuit Breaker	018–060	15,700
KFCEH2501C08	8	230/1	8	Circuit Breaker	018–060	25,100
KFCEH2601C10	10	230/1	10	Circuit Breaker	018–060	31,400
KFCEH3301C20	20	230/1	5, 20	Circuit Breaker	030–060	62,800
KFCEH2901N09	9	230/1†	3, 9	None	036–060	28,200
KFCEH3001F15	15	230/1	5, 15	Fuse†	024–060	47,100
KFCEH3101C15	15	230/1	5, 15	Circuit Breaker	024–060	47,100

* Field convertible to 1 phase.

† Field convertible to 3 phase.

‡ Single point wiring kit required for these heaters in Canada.

** Blower Motor heat not included.

Table 9 – ESTIMATED SOUND POWER LEVEL (dBA)

UNIT SIZE FX	CONDITIONS		OCTAVE BAND CENTER FREQUENCY*						
	CFM	Ext Static Pressure	63	125	250	500	1000	2000	4000
019	600	0.25	64.7	60.7	56.7	53.7	51.7	49.7	45.7
025	800	0.25	66.0	62.0	58.0	55.0	53.0	51.0	47.0
031	1000	0.25	67.0	63.0	59.0	56.0	54.0	52.0	48.0
037	1200	0.25	67.8	63.8	59.8	56.8	54.8	52.8	48.8
043	1400	0.25	68.4	64.4	60.4	57.4	55.4	53.4	49.4
049	1600	0.25	69.0	65.0	61.0	58.0	56.0	54.0	50.0
061	2000	0.25	70.0	66.0	62.0	59.0	57.0	55.0	51.0

* Estimated sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, Chapter 52, p. 52.7.

PERFORMANCE DATA (cont)

Table 10 – ELECTRICAL DATA FOR UNITS WITH FACTORY-INSTALLED HEAT

FX4DNF MODEL NO.	MTR HP	MTR FLA	VOLTS/PH/ HZ	HEAT PACK INSTALLED MKFCEH	SINGLE CIRCUIT			DUAL CIRCUIT					
					HEATER AMPS	MCA	MOCP	Htr. AMPS	MCA	MOC P	Htr. AMPS	MCA	MOCP
								L1/L2	L1/L2	L1/L2	L3/L4	L3/L4	L3/L4
019(0,L)05	1/3	2.8	208/230/1/60	0501N05	18.1/20.0	26.1/28.5	30/30	N/A	N/A	N/A	N/A	N/A	N/A
025(0,L)05	1/3	2.8	208/230/1/60	0501N05	18.1/20.0	26.1/28.5	30/30	N/A	N/A	N/A	N/A	N/A	N/A
031(0,L)08	1/2	4.1	208/230/1/60	0801N08	28.9/32.0	41.3/45.2	45/50	N/A	N/A	N/A	N/A	N/A	N/A
037(0,L)10	1/2	4.1	208/230/1/60	0901N10	36.2/40.0	50.4/55.1	60/60	N/A	N/A	N/A	N/A	N/A	N/A
043(0,L)10	1/2	4.1	208/230/1/60	0901N10	36.2/40.0	50.4/55.1	60/60	N/A	N/A	N/A	N/A	N/A	N/A
049(0,L)10	3/4	6.0	208/230/1/60	0901N10	36.2/40.0	52.8/57.5	60/60	N/A	N/A	N/A	N/A	N/A	N/A
061(0,L)10	3/4	6.0	208/230/1/60	0901N10	36.2/40.0	52.8/57.5	60/60	N/A	N/A	N/A	N/A	N/A	N/A
061(0,T,L)015	3/4	6.0	208/230/1/60	1501F15	54.2/59.9	75.3/82.4	80/90	36.2/40.0	52.8/57.5	60/60	18.1/20.0	22.6/25.0	25/25

MCA - Minimum Circuit Amps

MOCP - Maximum Overcurrent Protection

Table 11 – ELECTRICAL DATA FOR UNITS WITHOUT ELECTRICAL HEAT

MODEL NO.	MTRHP	MTR FLA	VOLTS/PH/ HZ	SINGLE CIRCUIT		BRANCH CIRCUIT MIN WIRE SIZE* AWG
				MCA	MAXIMUM OVERCURRENT PROTECTION	
FX4DNF019(0,T,L)00	1/3	2.8	208/230/1/60	3.5	15	14
FX4DNF025(0,T,L)00	1/3	2.8	208/230/1/60	3.5	15	14
FX4DNF031(0,T,L)00	1/2	4.1	208/230/1/60	5.1	15	14
FX4DNF037(0,T,L)00	1/2	4.1	208/230/1/60	5.1	15	14
FX4DNF043(0,T,L)00	1/2	4.1	208/230/1/60	5.1	15	14
FX4DNF049(0,T,L)00	3/4	6.0	208/230/1/60	7.5	15	14
FX4DNF061(0,T,L)00	3/4	6.0	208/230/1/60	7.5	15	14
FX4DNB031(T,L)00	1/2	4.1	208/230/1/60	5.1	15	14
FX4DNB037(T,L)00	1/2	4.1	208/230/1/60	5.1	15	14
FX4DNB043(T,L)00	1/2	4.1	208/230/1/60	5.1	15	14
FX4DNB049(T,L)00	3/4	6.0	208/230/1/60	7.5	15	14
FX4DNB061(T,L)00	3/4	6.0	208/230/1/60	7.5	15	14

* Use copper wire only. Use 75°C only in this application. When using non-metallic (NM) sheathed cable, wire size required should be based on that of 60°C conductors, instead of wire sizes shown in table above per NEC Article 336-26.

NOTE: If branch circuit wire length exceeds 100 ft (30 m), consult NEC 215-2 to determine maximum wire length. Use 2% voltage drop.

FLA - Full Load Amps

PERFORMANCE DATA (cont)

Table 12 – ACCESSORY ELECTRIC HEATER ELECTRICAL DATA

HEATER PART NO.	kW		P H A S E	INTERNAL CIRCUIT PROTECTION	HEATER AMPS 208/230V			BRANCH CIRCUIT														
								Min Ampacity 208/230V*			Min Wire Size (AWG) 208/230V†			Min Gnd Wire Size 208/230V			Max Fuse/Ckt Bkr Amps 208/230V			Max Wire Length 208/230V (Ft)‡		
	Single Circuit	Dual Circuit			Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit				
		L1, L2				L3, L4	L1, L2		L3, L4	L1, L2		L3, L4	L1, L2		L3, L4	L1, L2		L3, L4	L1, L2	L3, L4	L1, L2	L3, L4
KFCEH0401N03	3	2.3	1	None	10.9/12.0	—	—	15.9/17.3	—	—	12/12	—	—	12/12	—	—	20/20	—	—	67/68	—	—
KFCEH0501N05 ¹	5	3.8	1	None	18.1/20.0	—	—	26.0/28.4	—	—	10/10	—	—	10/10	—	—	30/30	—	—	66/66	—	—
KFCEH0501N05 ²	5	3.8	1	None	18.1/20.0	—	—	31.2/33.5	—	—	8/8	—	—	10/10	—	—	35/35	—	—	85/88	—	—
KFCEH2401C05 ¹	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	26.0/28.4	—	—	10/10	—	—	10/10	—	—	30/30	—	—	66/66	—	—
KFCEH2401C05 ²	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	31.2/33.5	—	—	8/8	—	—	10/10	—	—	35/35	—	—	85/88	—	—
KFCEH0801N08	8	6.0	1	None	28.9/32.0	—	—	44.7/48.5	—	—	8/8	—	—	10/10	—	—	45/50	—	—	59/60	—	—
KFCEH2501C08	8	6.0	1	Ckt Bkr	28.9/32.0	—	—	44.7/48.5	—	—	8/8	—	—	10/10	—	—	45/50	—	—	59/60	—	—
KFCEH2901N09	9	6.8	1	None	32.8/36.0	—	—	49.5/53.5	—	—	8/6	—	—	10/10	—	—	50/60	—	—	54/87	—	—
KFCEH2901N09**	9	6.8	3	None	18.8/20.8	—	—	32.0/34.5	—	—	8/8	—	—	10/10	—	—	35/35	—	—	83/85	—	—
KFCEH0901N10	10	7.5	1	None	36.2/40.0	—	—	53.8/58.5	—	—	6/6	—	—	10/10	—	—	60/60	—	—	78/80	—	—
KFCEH2601C10	10	7.5	1	Ckt Bkr	36.2/40.0	—	—	53.8/58.5	—	—	6/6	—	—	10/10	—	—	60/60	—	—	78/80	—	—
KFCEH3001F15	15	11.3	1	Fuse	54.2/59.9	36.2/40.0	18.1/20.0	76.3/83.4	53.8/58.5	22.7/25.0	4/4	6/6	10/10	8/8	10/10	10/10	80/90	60/60	25/25	88/89	78/80	75/76
KFCEH3101C15	15	11.3	1	Ckt Bkr	—	36.2/40.0	18.1/20.0	—	53.8/58.5	22.7/25.0	—	6/6	10/10	—	10/10	10/10	—	60/60	25/25	—	78/80	75/76
KFCEH1601315	15	11.3	3	None	31.3/34.6	—	—	47.7/51.8	—	—	8/6	—	—	10/10	—	—	50/60	—	—	56/90	—	—
KFCEH2001318	18	13.5	3	None	37.6/41.5	—	—	55.5/60.4	—	—	6/6	—	—	10/8	—	—	60/70	—	—	76/77	—	—
KFCEH3201F20	20	15.0	1	Fuse	72.3/79.9	36.2/40.0	36.2/40.0	98.9/108.4	53.8/58.5	45.3/50.0	3/2	6/6	8/8	8/6	10/10	10/10	100/110	60/60	50/50	85/109	78/80	59/59
KFCEH3301C20	20	15.0	1	Ckt Bkr	—	36.2/40.0	36.2/40.0	—	53.8/58.5	45.3/50.0	—	6/6	8/8	—	10/10	10/10	—	60/60	50/50	—	78/80	59/59
KFCEH3401F24††	24	18.0	3	Fuse	50.1/55.4	—	—	71.2/77.8	—	—	4/4	—	—	8/8	—	—	80/80	—	—	94/95	—	—
	24	18.0	1	Fuse	86.7/95.5	—	—	116.9/127.9	—	—	1/1	—	—	6/6	—	—	125/150	—	—	115/116	—	—
KFCEH3501F30††	30	22.5	3	Fuse	62.6/69.2	—	—	86.8/95.0	—	—	3/3	—	—	8/8	—	—	90/100	—	—	97/98	—	—
	30	22.5	1	Fuse	109.0/120.0	—	—	144.8/158.5	—	—	0/00	—	—	6/6	—	—	150/175	—	—	117/150	—	—

Table 13 – FIELD MULTIPOINT WIRING OF 24-AND 30-kW SINGLE PHASE

HEATER PART NO.	kW		P H A S E	HEATER AMPS 208/230V			MIN AMPACITY 208/230V*			MIN WIRE SIZE (AWG) 208/230V†			MIN GND WIRE SIZE 208/230V	MAX FUSE/CKT BKR AMPS 208/230V			MAX WIRE LENGTH 208/230V (FT)‡		
	240V	208V		L1, L2	L3, L4	L5, L6	L1, L2	L3, L4	L5, L6	L1, L2	L3, L4	L5, L6		L1, L2	L3, L4	L5, L6	L1, L2	L3, L4	L5, L6
KFCEH3401F24††	24	18.0	1	28.9/32.0	28.9/32.0	28.9/32.0	44.7/48.5	36.2/40.0	36.2/40.0	8/8	8/8	8/8	10/10	45/50	40/40	40/40	59/60	73/73	73/73
KFCEH3501F30††	30	22.5	1	36.2/40.0	36.2/40.0	36.2/40.0	53.8/58.5	45.3/50.0	45.3/50.0	6/6	8/8	8/8	10/10	60/60	50/50	50/50	78/80	59/59	59/59

* Includes blower motor amps of largest fan coil used with heater.
† Copper wire must be used. If other than uncoated (non-plated), 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the National Electric Code (ANSI/NFPA 70).
‡ Length shown is as measured 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.
** Field convertible to 3 phase.
†† Field convertible to 1 phase, single or multiple supply circuit.

- NOTES:
- For fan coil sizes 018-037.
 - For fan coil sizes 042-061.
 - Single circuit application of F15 and F20 heaters requires single-point wiring kit accessory.

HEATER ELECTRICAL DATA

Table 14 – FACTORY-INSTALLED HEATER OPTIONS*

MODEL	019	025	031	037	043	049	061
FX4DNF	5	5	8	10	10	10	10, 15

* For field-installed heater/fan coil combinations, see Accessory Electric Heaters.

Table 15 – ELECTRIC HEATER INTERNAL PROTECTION

HEATER kW	PHASE	FUSE QTY/SIZE	CKT BKR* QTY/SIZE
5	1	—	1/60
8	1	—	1/60
9	1/3	—	—
10	1	—	1/60
15	1	2/30–2/60	2/60
15	3	—	—
18	3	—	—
20	1	4/60	2/60
24	1/3	6/60	—
30	1/3	6/60	—

* All circuit breakers are 2 pole.

When using units with 20-, 24-, and 30-kW electric heaters, maintain a 1-in. (25 mm) clearance from combustible materials to discharge plenum and ductwork and maintain a distance of 36 in. (914mm) from the unit. Use an accessory downflow base to maintain proper clearance on downflow installations. Use flexible connectors between ductwork and unit to prevent transmission of vibration. When electric heater is installed, use heat resistant material for flexible connector between ductwork and unit at discharge connection. Ductwork passing through unconditioned space must be insulated and covered with vapor barrier.

ACCESSORIES

ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
1.	Disconnect Kit	KFADK0201DSC
2.	Downflow Base Kit	KFACB0201CFB
		KFACB0301CFB
		KFACB0401CFB
3.	Downflow Conversion Kit †	KFADC0201SLP
		KFADC0401ACL
4.	Downflow/Horizontal Conversion Gasket Kit	KFAHD0101SLP
5.	Horizontal Water Management Kit (25 pack) ‡	KFAHC0125AAA
6.	Single-Point Wiring Kit	KFASP0101SPK
7.	Filter Kit (12 Pack)	KFAFK0112SML
		KFAFK0212MED
		KFAFK0312LRG
		KFAFK0412XXL
8.	Fan Coil Filter Cabinet (Fan Coil Filter Media)	FNCCABCC0014 (FILXXFNC0014)
		FNCCABCC0017 (FILXXFNC0017)
		FNCCABCC0021 (FILXXFNC0021)
		FNCCABCC0024 (FILXXFNC0024)
9.	PVC Condensate Trap Kit (50 pack)	KFAET0150ETK
10.	Air Cleaner 240-volt Conversion Kit	KEAVC0201240
11.	Standard Filter Rack Kit	KFAFR0101FRM
		KFAFR0201FRM
		KFAFR0301FRM
		KFAFR0401FRM
12.	Door Gasket Kit**	344994-751

* Factory authorized and listed, field-installed.

** This kit is for replacement of factory installed gaskets if they are damaged or removed from the fan coil.

† KFAHD0101SLP must also be purchased for downflow applications.

‡ KFAHD0101SLP must also be purchased for downflow or horizontal applications.

Accessory Kits Description Suggested and Required Use

1. Disconnect Kit

The kit is used to disconnect electrical power to the fan coil so service or maintenance may be performed safely.

SUGGESTED USE: Units for 3- through 10-kW electric resistance heaters and cooling controls.

2. Downflow Base Kit

This kit is designed to provide a 1-in. minimum clearance between unit discharge plenum, ductwork, and combustible materials. It also provides a gap-free seal with the floor.

REQUIRED USE: This kit must be used whenever fan coils are used in downflow applications.

3. Downflow Conversion Kit

Fan coils are shipped from the factory for upflow or horizontal-left applications. Downflow conversion kits provide proper condensate water drainage and support for the coil when used in downflow applications. Separate kits are available for slope coils and A-coils.

REQUIRED USE: This kit must be used whenever fan coils are used in downflow applications.

4. Downflow/Horizontal Conversion Gasket Kit

This kit provides the proper gasketing of units when applied in either a downflow or horizontal application.

REQUIRED USE: Fan coils in either downflow or horizontal applications.

5. Horizontal Applications - Water Management Kit

This kit provides proper installation of fan coils under conditions of high static pressure and high relative humidity.

SUGGESTED USE: All fan coils.

6. Single Point Wiring Kit

The single point wiring kit acts as a jumper between L1 and L3 lugs, and between the L2 and L4 lugs. This allows the installer to run two heavy-gauge, high-voltage wires into the fan coil rather than 4 light-gauge, high-voltage wires.

SUGGESTED USE: Fan coils with 15- and 20-kW fused heaters only.

7. Filter Kit (12 pack)

The kit consists of 12 fan coil framed filters. These filters collect large dust particles from the return air entering the fan coil and prevents them from collecting on the coil. This process helps to keep the coil clean, which increases heat transfer and, in turn, the efficiency of the system.

SUGGESTED USE: To replace filters in fan coils.

REQUIRED USE: All units unless a filter grille is used.

8. Fan Coil Filter Cabinet

This cabinet is mounted to the fan coil on the return air end and designed to slip over the outer fan coil casing. The cabinets are insulated using the same insulation as production fan coils. They are designed for the removal of particulates from indoor air using FILXXFNC00 (14, 17, 21, 24) media filter cartridges. These fan coil media filter cartridge kits are designed for the removal of particles from indoor air. The cartridge is installed in the return air duct next to the air handler or further upstream.

SUGGESTED USE: All fan coils.

9. PVC Condensate Drain Trap Kit

This kit consists of 50 PVC condensate traps. Each trap is pre-formed and ready for field installation. This deep trap helps the system make and hold proper condensate flow even during blower initiation.

SUGGESTED USE: All fan coils.

10. Air Cleaner 240-volt Conversion Kit

The AIRA electronic air cleaner comes ready for 115-v operation.

REQUIRED USE: This kit is required when running 240-volt circuit to air cleaner.

11. Standard Filter Rack Kit

This kit mounts in fan coil filter rack area and modifies the existing filter rack to support standard 1-in. filter sizes.

SUGGESTED USE: Fan coils using standard filter sizes.

12. Door Gasket Kit

This kit consists of specific adhesive-backed foam strips which are applied to the unit door frame, limiting air leakage.

Additional Kit

There is an additional kit not listed on the "Accessories" table (previous page) available for use in California:

Low Air Leakage Kit

This kit is available through MicroMetl and when installed as per the instructions provided in the kit, is designed to meet the stringent 1.4% air leakage @0.5" water requirement as set by California Title 24 code. To order this kit, call MicroMetl Customer Service Department at 800.884.4662.