

FAN COILS

- 5 ton
- Available for Environmentally Sound R-410A systems
- TXV metering device factory installed
- Sweat connections
- Primary and secondary drain fittings with brass inserts
- Multiple electrical entry locations
- Time delay relay (TDR)
- Field installed heater packages from 5 kW – 30 kW available separately
- HUD approved for manufactured housing
- 208/230–1–60 supply voltage
- Units tested and certified by manufacturer to achieve a 2% or less leakage rate at 1.0 inch water column
- 1 inch thick insulation with R value of 4.2
- PSC 3–speed motor
- 5 amp automotive type fuse on control board
- Multiposition installation – upflow or horizontal left standard, horizontal right with minor modification (field convertible to downflow with available accessory kit)
- Filter (washable) factory supplied

WARRANTY*

- 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty
- * For owner occupied, residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications.



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.



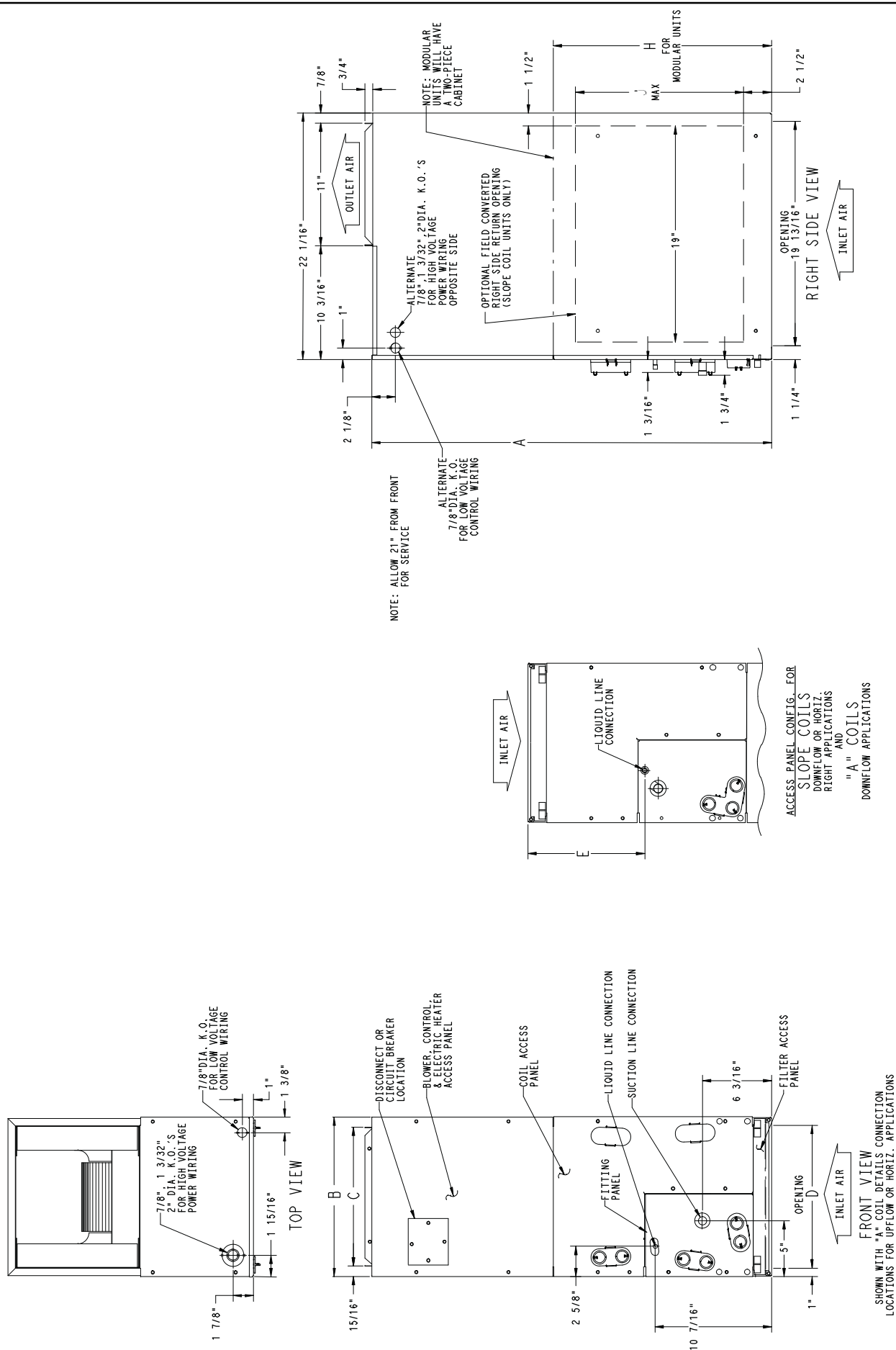
Model Number	Tons	Nom. CFM (L/s)	Dimensions H x W x D in. (mm)	Filter Size in. (mm)	Ship Wt lbs. (kg)
FSM4X6000**	5	2000 (944)	59–3/16 x 24–11/16 x 22–1/8 (1503 x 627 x 562)	23–5/16 x 21–1/2 (592 x 546)	201 (91)

- ** A = Copper Tube, Aluminum Fin Evaporator Coil
 AL = Aluminum Tube, Aluminum Fin Evaporator Coil
 AT = Tin Coated Copper Tube, Aluminum Fin Evaporator Coil

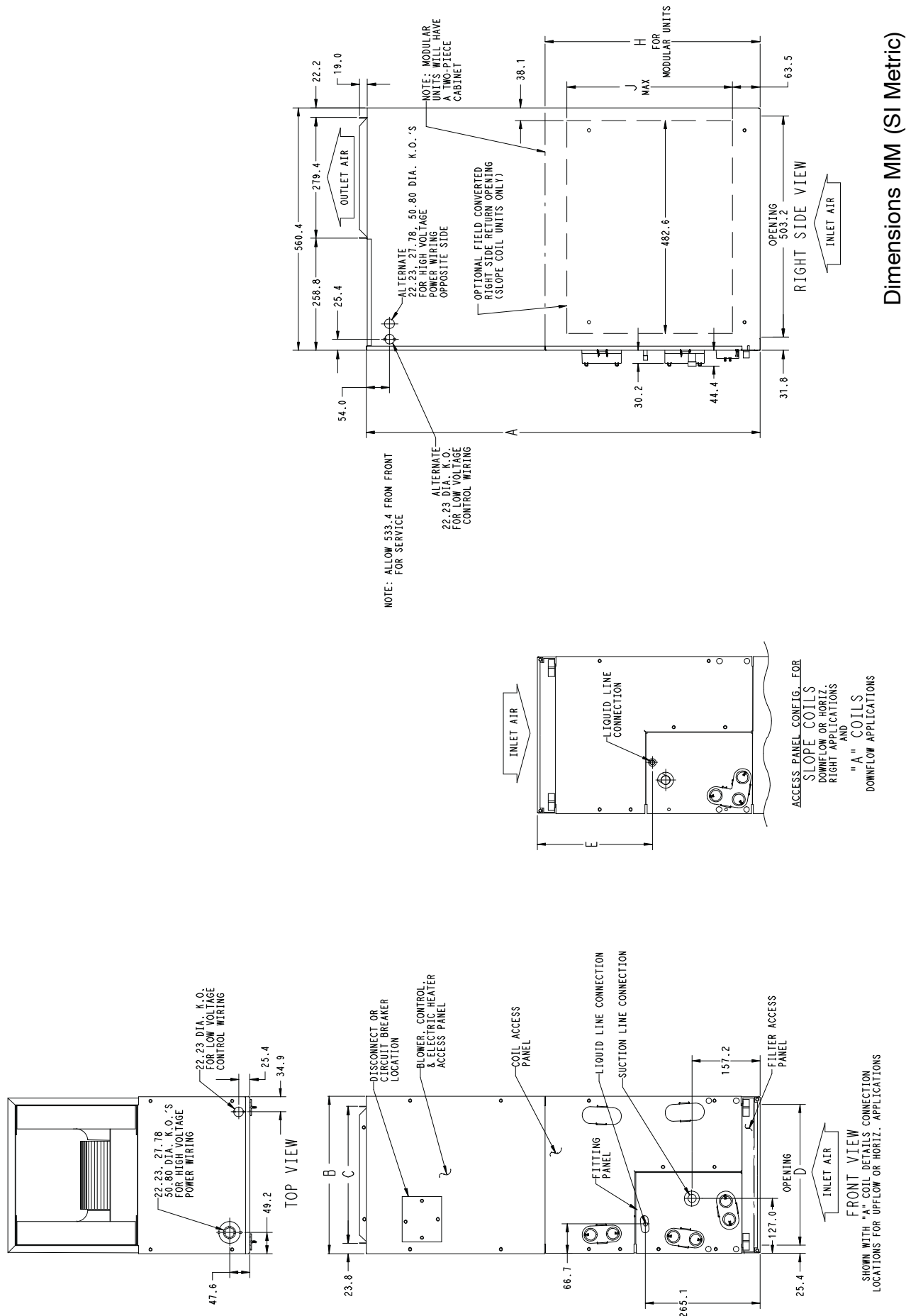
FAN COIL MODEL NUMBER IDENTIFICATION GUIDE													
DIGIT POSITION	1	2	3	4	5	6,7,8,9	10	11					
F = Fan Coil	F	S	M	4	X	6000	A	L					
E = ECM	UNIT		MOTOR TYPE	4	X	6000	A	L					
S = Standard PSC													
M = Multiposition	INSTALLATION TYPE												
4 = Environmentally Sound R-410A	REFRIGERANT												
X = TXV	METERING DEVICE												
6000 = 60,000 BTUH = 5 tons									NOMINAL CAPACITY				
A = Copper Tube, Aluminum Fin Evaporator Coil													
AL = Aluminum Tube, Aluminum Fin Evaporator Coil													
AT = Tin Coated Copper Tube, Aluminum Fin Evaporator Coil													
SALES CODE / FEATURES													

ACCESSORIES PART NUMBER IDENTIFICATION GUIDE					
	EB	AC	01	NCB	A
EB = Evaporator Blower					
AC = Accessory					
01 = Product Identifier Number					
NCB = Non-Combustible Base Kit					
DFK = Down Flow Kit					
PLG = Power Plug (no heat kit)					
SPK = Single Point Wiring Kit					
FKS = Filter Kit Small					
FKM = Filter Kit Medium					
FKL = Filter Kit Large					
FKX = Filter Kit Extra Large					
CTK = Condensate Trap Kit (PVC pipe)					
Sales Code					

ELECTRIC HEATER MODEL NUMBER IDENTIFICATION GUIDE						
	EHK	05	A	K	N	1
EHK = Electric Heater Kit						
05 = 5 kW						
07 = 7 kW						
09 = 9 kW						
10 = 10 kW						
15 = 15 kW						
18 = 18 kW						
20 = 20 kW						
25 = 25 kW						
30 = 30 kW		NOMINAL HEAT VALUE				
Sales Code						
K = 208 / 230 single-phase						
H = 208 / 230, 3-phase						
KC = 208 / 230, supplied as single phase, field convertible to 3-phase						
HC = 208 / 230 supplied as 3-phase, field convertible to single phase						
		VOLTAGE (60 Hz)				
Product Identifier						
Engineering Code						

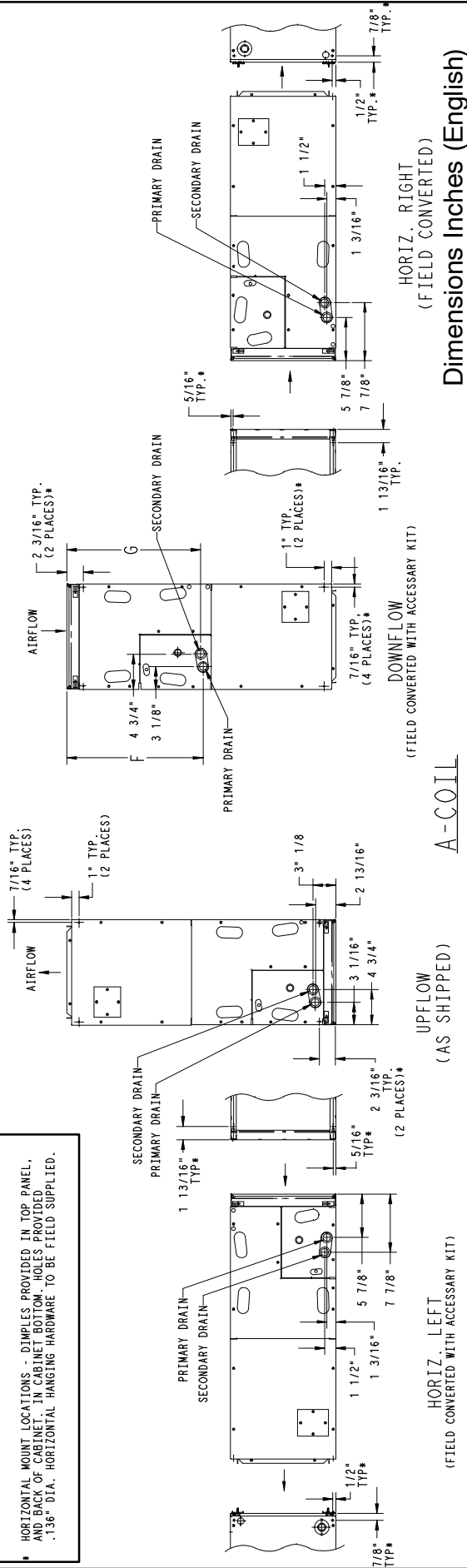


Dimensions Inches (English)



NOTES:
1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.

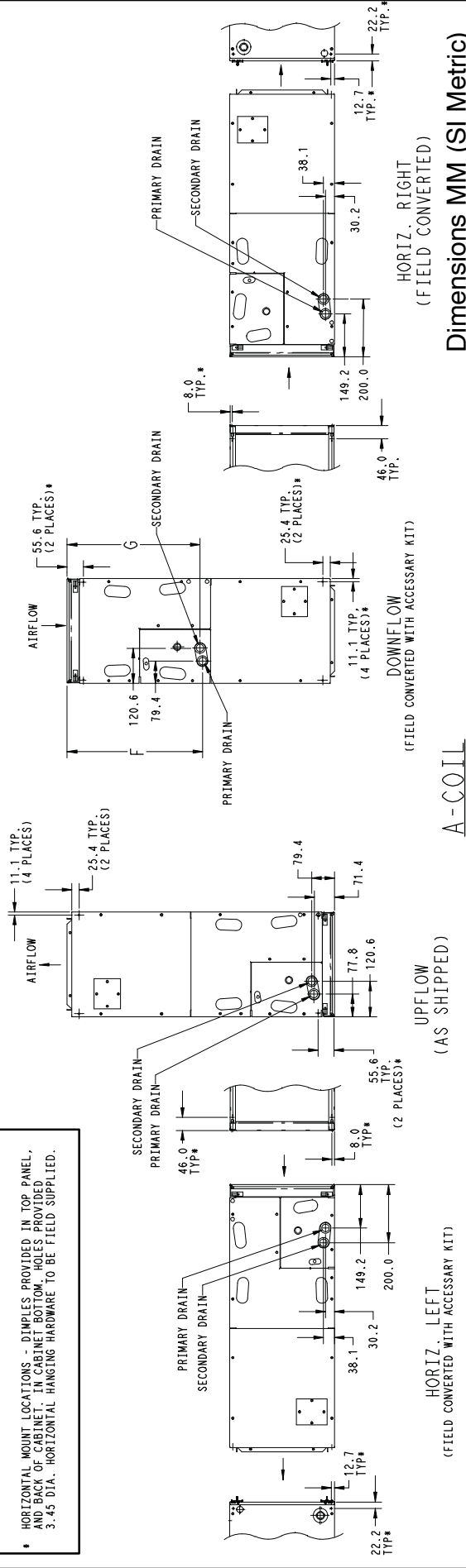
* HORIZONTAL MOUNT LOCATIONS - DIMPLES PROVIDED IN TOP PANEL, AND BACK OF CABINET. IN CABINET BOTTOM, HOLES PROVIDED .136" DIA. HORIZONTAL HANGING HARDWARE TO BE FIELD SUPPLIED.



Dimensions Inches (English)

NOTES:
1. CONDENSATE PAN DRAIN CAPS NOT SHOWN FOR CLARITY.

* 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.



Dimensions MM (SI Metric)

Model	Size (tons)	Dimensions	A	B	C	D	E	F	G	H	J	Suct	Liq	Coil Type	Ship. Weight lbs., (kg)
FSM4X6000	5	inches	59-3/16	24-11/16	22-3/4	22-11/16	25-1/4	32-15/16	32-5/8	34-1/16	—	7/8	3/8	"A"	201
	5	mm	1503	627	578	576	641	837	829	865	—	22	10	"A"	91

PHYSICAL DATA	
Model	Size
	FSM4X6000
Blower Data (nominal)	
CFM (L/s)	2000 (944)
Motor Type	PSC (Permanent Split Capacitor) 3-speed
HP	3/4
Filter Data (washable)	
in. (mm)	23-5/8x21-1/2 (600 x 546)
Coil Data – Face Area	
ft ² (m ²)	7.42 (0.69)
Refrigerant Line Connections (sweat)	
Liquid in. (mm)	3/8 (10)
Suction in. (mm)	7/8 (22)

ELECTRICAL DATA, FAN COIL ONLY WITHOUT ELECTRIC HEAT			
208/230V, single phase, 60 Hz			
Model	Motor Full Load Amps (FLA)	Minimum Circuit Ampacity (MCA)	Maximum Fuse/Ckt Bkr Amps (Max OverCurrent Protection – MOCP)
FSM4X6000	5.2	6.5	15

AIRFLOW PERFORMANCE – CFM at a given Speed and Static reading							
Model	Blower Speed	Measured Static Pressure, inlet to outlet (inches water column)					
		0.10	0.20	0.30	0.40	0.50	0.60
FSM4X6000	High	2128	2050	1965	1875	1778	1674
	Medium	1959	1898	1829	1750	1663	1566
	Low	1748	1709	1659	1598	1525	1442

NOTES:

- Airflow based upon dry coil at 230v with factory approved filter and electric heater (3 element heater size 6000).
- Airflow at 208 volts is approximately the same as 230 volts because the 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 6000 size must have supply static greater than 0.20 in. wc.
- Airflow above 400 cfm/ton on 6000 size could result in condensate blowing off coil or splashing out of drain pan.
- Not recommended for use above 0.60 inches water column external static pressure.
- Shading – Airflow outside 450 cfm/ton.

STATIC PRESSURE DROP ACROSS FILTER (inches of water column)									
Model Size	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
FSM4X6000	—	—	—	—	—	—	0.120	0.152	0.187

STATIC PRESSURE CORRECTION FROM DRY TO WET COIL (inches of water column)															
Airflow performance chart above was developed using fan coils with DRY coils. When taking a static reading across a WET coil, adjust the static pressure numbers by adding the values in this table (for a given CFM, wet coil will have greater static pressure drop than dry coil).															

	CFM															
Model Size	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
FSM4X6000	—	—	—	—	—	—	—	—	—	—	—	0.027	0.031	0.035	0.039	0.043

MINIMUM CFM WHEN USING ELECTRIC HEAT (motor speed Low except as noted)									
Model Size	Heater kW								
	5	8	9	10	15	18	20	24	30
FSM4X6000	—	1750	1750	1750	1750	1750	1750	1750	1750

* Indicates Medium speed (Blue wire) for 3-speed motor

‡ Indicates Medium speed (Blue wire) for 3-speed motor

STATIC PRESSURE CORRECTION FOR ELECTRIC HEATERS (inches of water column)						
Airflow performance chart was developed using fan coils with 10 kW electric heater (2 elements) in the 1800 – 3600 model sizes, and 15 kW electric heaters (3 elements) in the 4800 – 6000 model sizes. When using a different number of heater elements, adjust the static pressure numbers by adding or subtracting the values in this table (for a given CFM, more electric heater elements create higher static pressure drop).						
	Heater kW					
	No Heater	5	8 or 10	9 or 15	20	18, 24, or 30
	0	1	2	3	4	6
FSM4X6000	+0.04	—	+0.02	0	–0.02	–0.10

ELECTRIC HEATER ELECTRICAL DATA

ELECTRIC HEATER ELECTRICAL DATA																									
Heater Model	Heater kW		PHASE	INTERNAL CIRCUIT PROTECTION	HEATER AMPS 208/230V			Min Ampacity ☆ 208/230V				Min Wire Size (AWG) 208/230V 1				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	L1,L2	L3,L4	L1,L2
EHK05AKN	5	3.8	1	None	18.1/20.0	—	—	31.2/33.5	—	8/8	—	—	10/10	—	35/35	—	85/88	—	—	—	—	—			
EHK05AKB	5	3.8	1	Ckt Bkr	18.1/20.0	—	—	31.2/33.5	—	8/8	—	—	10/10	—	35/35	—	85/88	—	—	—	—	—			
EHK07AKN	8	6.0	1	None	28.9/32.0	—	—	44.7/48.5	—	8/8	—	—	10/10	—	45/50	—	59/60	—	—	—	—	—			
EHK07AKB	8	6.0	1	Ckt Bkr	28.9/32.0	—	—	44.7/48.5	—	8/8	—	—	10/10	—	45/50	—	59/60	—	—	—	—	—			
EHK09AKCN†	9	6.8	1	None	32.8/36.0	—	—	49.5/53.5	—	8/6	—	—	10/10	—	50/60	—	54/87	—	—	—	—	—			
	9	6.8	3	None	18.8/20.8	—	—	32.0/34.5	—	8/8	—	—	10/10	—	35/35	—	83/85	—	—	—	—	—			
EHK10AKN	10	7.5	1	None	36.2/40.0	—	—	53.8/58.5	—	6/6	—	—	10/10	—	60/60	—	78/80	—	—	—	—	—			
EHK10AKB	10	7.5	1	Ckt Bkr	36.2/40.0	—	—	53.8/58.5	—	6/6	—	—	10/10	—	60/60	—	78/80	—	—	—	—	—			
EHK15AKF	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	80/90	60/60	25/25	88/89	78/80	75/76	75/76				
EHK15AKB	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	—	60/60	25/25	—	78/80	75/76	75/76				
EHK15AHN	15	11.3	3	None	31.3/34.6	—	—	47.7/51.8	—	8/6	—	—	10/10	—	50/60	—	58/90	—	—	—	—	—			
EHK18AHN	18	13.5	3	None	37.6/41.5	—	—	55.5/60.4	—	6/6	—	—	10/8	—	60/70	—	76/77	—	—	—	—	—			
EHK20AKF	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	100/110	60/60	50/50	85/109	78/80	59/59	59/59				
EHK20AKB	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	—	—	60/60	50/50	—	78/80	59/59	59/59				
EHK25AHCF†	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	—	—	—	—	—			
EHK30AHCF†	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	—	—	—	—	—			

FIELD MULTIPOINT WIRING OR 24 AND 30 KW SINGLE PHASE

Heater Model	Heater kW		P H A S E	Heater Amps 208/230V			Minimum Circuit Ampacity 208/230V ☆			Minimum Wire Size (AWG) 208/230V†			Min Gnd Wire Size 208/230 V	Max Fuse/Ckt Bkr Amps 208/230V			Max Wire Length 208/230V (FT)††		
	230V	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
EHK25AHCF†	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	59/60	73/73	73/73	73/73
EHK30AHCF†	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	78/80	59/59	59/59	59/59

Notes:

- 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).
- Includes blower motor amps of largest Fan Coil used with heater.
- Supplied as single phase, field convertible to 3-phase.
- Supplied as 3-phase, field convertible to single phase, single or multiple supply circuits.
- Length shown is as measured one way along wire path between unit and service panel for a voltage drop not to exceed 2%.

ACCESSORIES		
Part Number	Description	Use with
EBAC01DSC	Disconnect Kit	Use with All single phase Heaters 5kW thru 10kW
EBAC04NCB	Downflow Base Kit	
EBAC02DFA	Downflow Conversion Kit A-Coil	
EBAC01SPK	Single Point Wiring Kit	Only for use with 15kW and 20kW fused heaters
Square D® part # QOU14100JBAF	Single Point Wiring Kit – Square D® Jumper Bar Assembly	Only for use with EHK15AKB and EHK20AKB breaker heaters
EBAC01FKX	Filter Kit (washable, box of 12)	Filter Factory Supplied
NASA00201FR	Standard Filter Rack (16 x 20 x 1 filter required)	30
NASA00301FR	Standard Filter Rack (20 x 20 x 1 filter required)	36, 42, 48
NASA00401FR	Standard Filter Rack [quantity 2] (12 x 20 x 1 filter required)	60
EBAC01PLG	No Heat (Plug) Kit (box of 6)	Factory Installed
EBAC01CTK	PVC Condensate Trap (box of 50)	
EBAC01GSK	Horizontal & Downflow Gasket Kit	Required for horizontal right and downflow
NAEA20301TX	TXV Kit, R-22, Copper or Tin Coils Only	6000AL
NAEB20301TX	TXV Kit, R-22, Aluminum Coils Only	6000AL

ELECTRIC HEATERS	
Part Number	Description
EHK05AKN	5 kW, single phase, no internal circuit protection
EHK05AKB	5 kW, single phase, with circuit breakers
EHK07AKN	8 kW, single phase, no internal circuit protection
EHK07AKB	8 kW, single phase, with circuit breakers
EHK09AKCN	9 kW, supplied as single phase, field convertible to 3-phase, no internal circuit protection
EHK10AKN	10 kW, single phase, no internal circuit protection
EHK10AKB	10 kW, single phase, with circuit breakers
EHK15AKF	15 kW, single phase, with fuses
EHK15AKB	15 kW, single phase, with circuit breakers
EHK15AHN	15 kW, 3-phase, no internal circuit protection
EHK18AHN	18 kW, 3-phase, no internal circuit protection
EHK20AKF	20 kW, single phase, with fuses
EHK20AKB	20 kW, single phase, with circuit breakers
EHK25AHCF	2400 kW, supplied as 3-phase, field convertible to single phase, with fuses
EHK30AHCF	30 kW, supplied as 3-phase, field convertible to single phase, with fuses