# TECHNICAL SUPPORT MANUAL Fan Coils FSM4X60

## Safety Labeling and Signal Words

# DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTE** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING**, **CAUTION**, and **NOTE** will be used on product labels and throughout this manual and other manuals that may apply to the product.

**DANGER** – Immediate hazards which **will** result in severe personal injury or death.

**WARNING** – Hazards or unsafe practices which **could** result in severe personal injury or death.

**CAUTION** – Hazards or unsafe practices which **may** result in minor personal injury or product or property damage.

**NOTE** – Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

### Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:

# **WARNING**

The signal word **CAUTION** is used throughout this manual in the following manner:

# **A** CAUTION

### Signal Words on Product Labeling

Signal words are used in combination with colors and/or pictures on product labels.

### TABLE OF CONTENTS

Model Number Identification
Wiring Diagram 3
Airflow Charts
FSM4X6000A Parts Drawing 5 - 7
FSM4X6000A Parts List 8 - 9
FSM4X6000AT Parts Drawing 10 - 12
FSM4X6000AT Parts List

### **MODELS**

FSM4X6000A

FSM4X6000AT

# WARNING

### **ELECTRICAL SHOCK HAZARD**

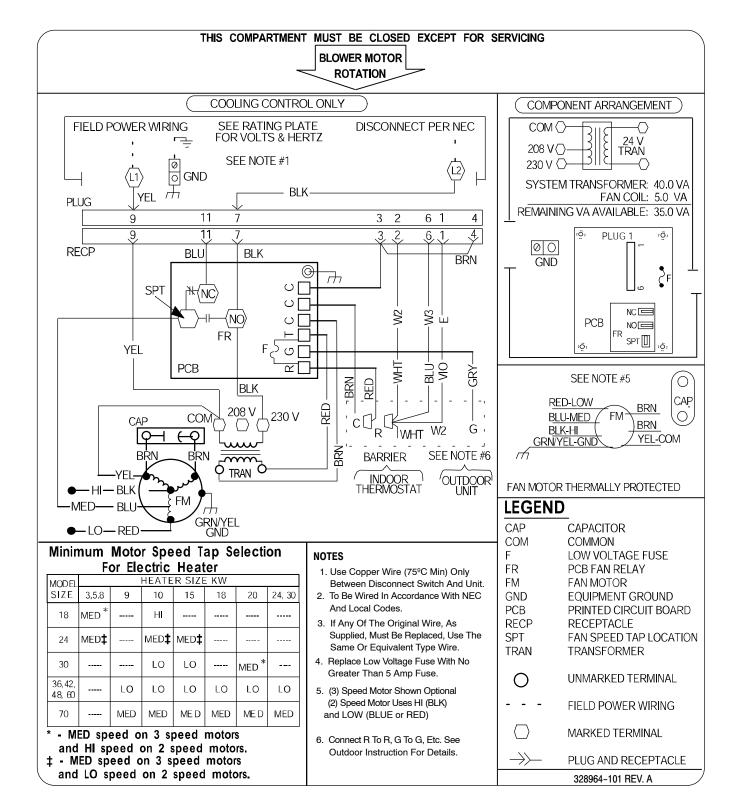
Failure to turn off electric power could result in personal injury or death.

Before installing or servicing system, turn off main power to the system. There may be more than one disconnect switch, including accessory heater(s).

FAN COIL MODE	<b>L NUM</b>	IBER ID	ENTIF	<b>ICATIO</b>	N GUID	E		
	F	S	M	4	X	6000	Α	Т
F = Fan Coil								
E = High efficiency ECM		•						
S = Standard PSC	MOTO	R TYPE						
U = Upflow			•					
M = Multiposition	INSTA	LLATIO	N TYPE					
				-				
4 = Environmentally Sound R-410A			REFRIG	ERANT				
X = TXV			MET	TERING I	DEVICE			
6000 = 60,000 BTUH = 5 tons				NOMI	<b>NAL CA</b>	PACITY		
A = Standard								
AT = Tin Coated Copper Tube Coils					SAL	ES COD	E / FEAT	URES

ACCESSORIES PART NUMBER IDENTIFICATION GUIDE								
	EB	AC	01	NCB	Α			
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 IDEN	TIFICATI	ION GUII	DE	
EHK 05	Α	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 <b>NOMINAL HEAT VALUE</b>	J			
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	VOLTAG	E (60 Hz)		
Product Identifier				
Engineering Code	·	·		



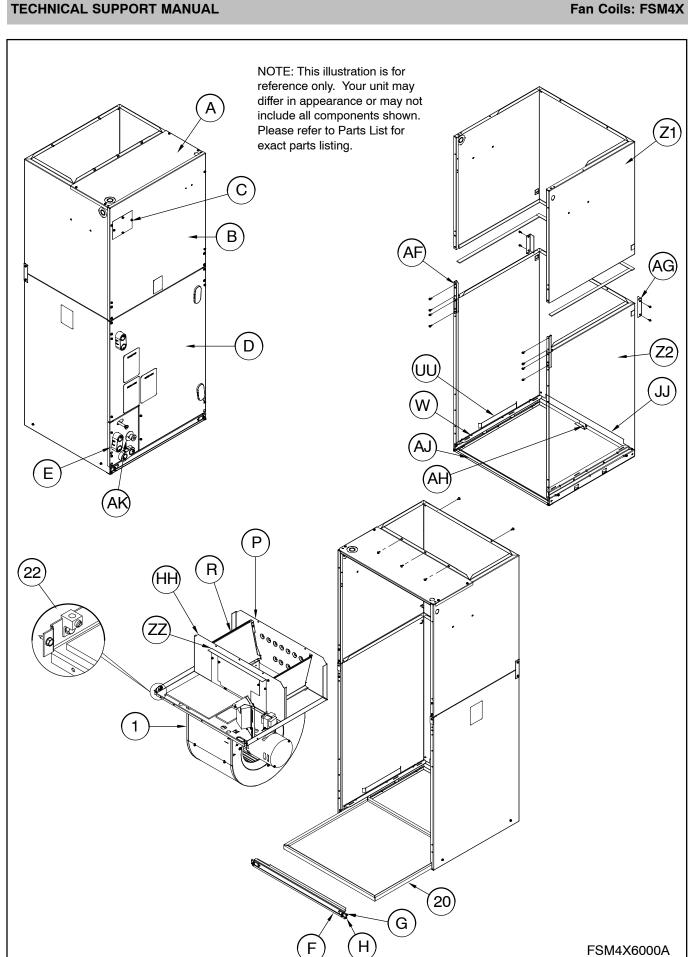
AIRFLOW PERFORMANCE – CFM at a given Speed and Static reading											
Model	Player Chood	Measured Static Pressure, inlet to outlet (inches water column)									
Model	Blower Speed	0.10	0.20	0.30	0.40	0.50	0.60				
FSM4X6000	High	2128	2050	1965	1875	1778	1674				
	Medium	1959	1898	1829	1750	1663	1566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

### NOTES:

- 1. Airflow based on dry coil at 230V with factory approved filter and electric heater (2 element heater for model sizes 1800 3600, 3 element heater for model sizes 4200 6000)
- 2. Not recommended for use above 0.60 inches water column external static pressure.
- 3. Shaded cells indicate airflow is greater than 450 CFM per ton.

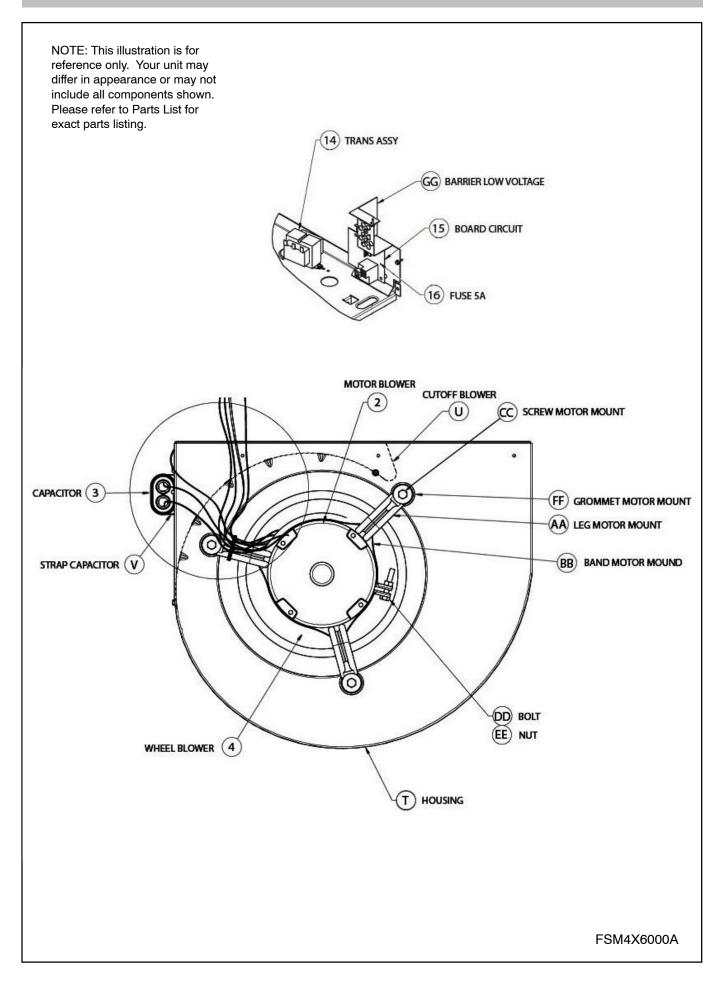
STATIC PRESSURE CORRECTION FROM DRY TO WET COIL (inches of water column)																
Airflow performance chart above was developed using fan coils with DRY coils.  When taking a static reading across a WET coil, adjust the static pressure numbers above by <b>adding</b> the values in this table (for a given CFM, wet coil will have greater static pressure drop than dry coil).																
Madal Cina								CF	М							
Model Size	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
6000	_	_	_	_	_	_	_	_	_	_	_	.027	.031	.035	.039	.043

STATIC PRESSURE DROP ACROSS FILTER (inches of water column)										
Model Size					CFM					
	400	600	800	1000	1200	1400	1600	1800	2000	
6000	_	_	_	_	_	_	.120	.152	.187	



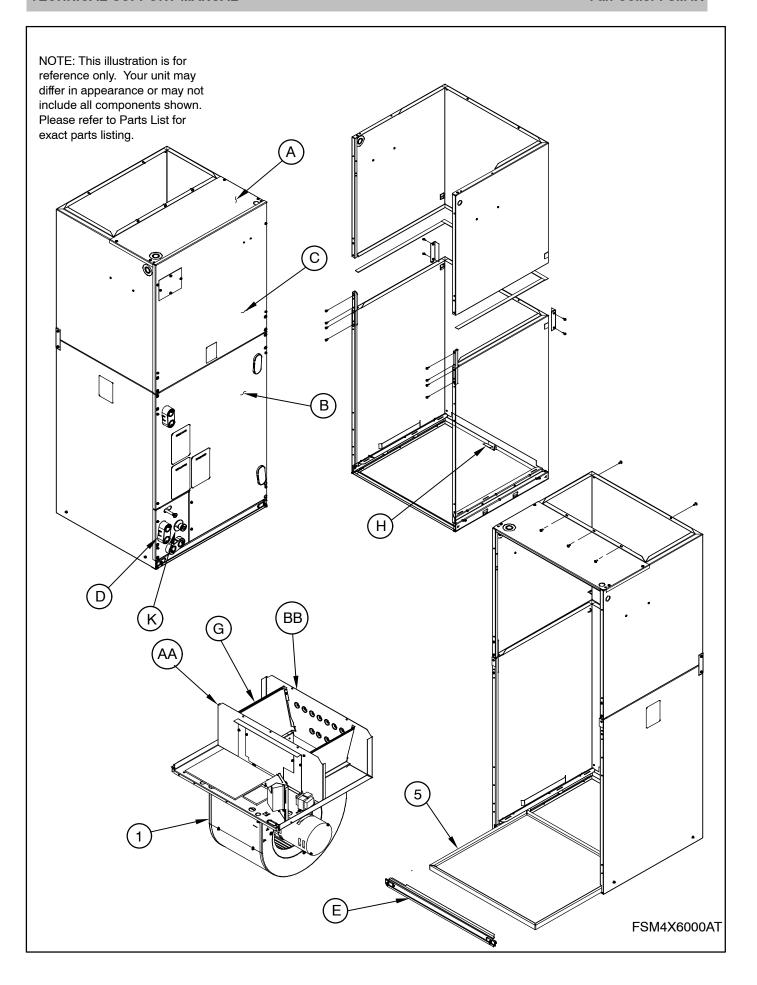
496 04 5101 00 5

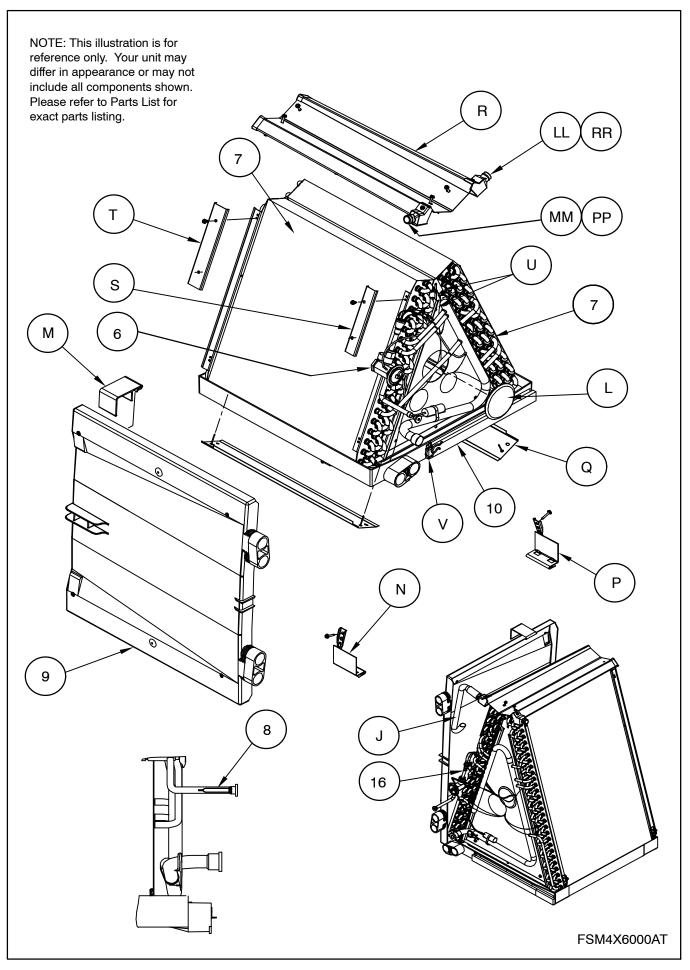
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown. Please refer to Parts List for exact parts listing. (SS 7 (19) FSM4X6000A

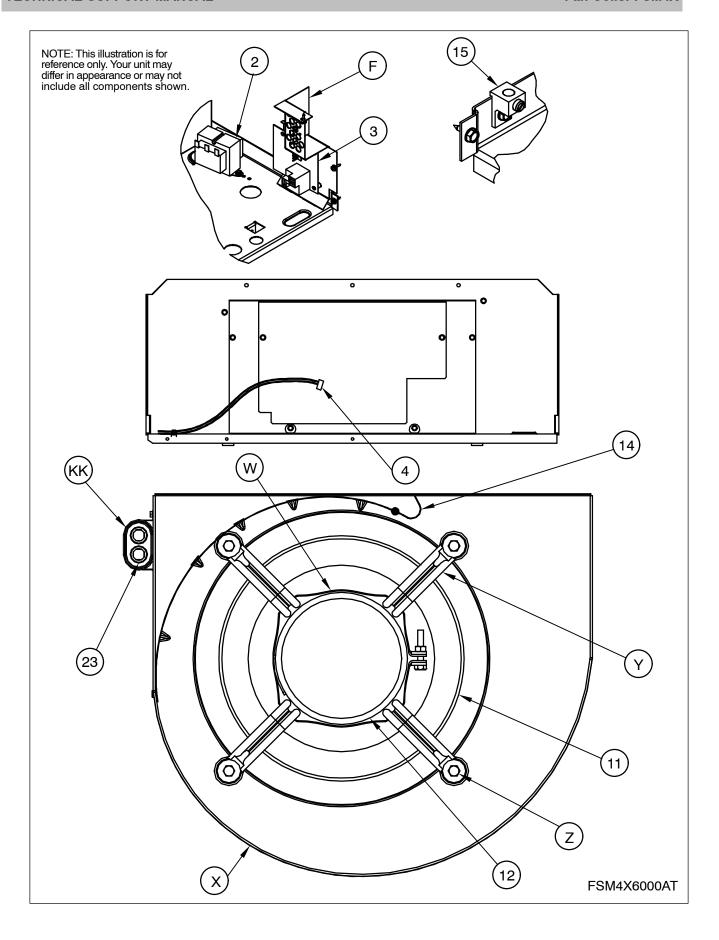


	FSM4X PARTS LIS	ST	
			FSM4X6000A
KEY	PERCEIPTION		FSN
<b>NO</b> .	DESCRIPTION BLOWER ASSEMBLY	FAST PARTS NO. 1171617	
01	MOTOR, BLOWER	1171725	1
03	CAPACITOR 15 MFD 370 VOLTS	1171723	1
04	WHEEL, BLOWER DD10-9	1171741	1
06	PAN, DRAIN VERTICAL	1171577	1
07	COIL & HEADER ASSEMBLY	1172332	1
80	DISTRIBUTOR ASSEMBLY	1171605	1
13	STRAINER	1171740	1
14	TRANSFORMER	1172028	1
15 16	BOARD, FAN CONTROL CIRCUIT FUSE, CIRCUIT BOARD	1171734 1171735	1 1
17	HARNESS ASSEMBLY	1171676	1
19	PAN DRAIN HORIZONTAL	1171675	1
20	FILTER 23-7/16 X 21-9/16	1171654	1
21	VALVE, EXPANSION	1172350	1
22	LUG, GROUND	1170677	1
A	PANEL, TOP	1172336	1
AA	LEG & GROMMET, MOTOR MOUNT	1173746	3
AB AC	TUBE, DRAIN TUBE, DRAIN	1172337 1172338	1
AD	FITTING, DRAIN	1171635	1
AE	FITTING, DRAIN	1171636	1
AF	BRACKET, FRONT	1171595	2
AG	BRACKET, REAR	1171954	2
AH	SPRING, FILTER	1172554	1
AJ	ANGLE TIE	1173745	1
AK	GROMMET, SUCTION	1171622	1
AL	PLUG, BUTTON	1173764	1
AM AN	PLATE DELTA FRONT PLATE DELTA REAR	1173759 1173762	1 1
AR	SUPPORT BRACKET	1172636	1
В	DOOR, UPPER	1172347	1
BB	BAND, MOTOR MOUNT	1171733	1
С	COVER, DISCONNECT	1171949	1
CC	SCREW, MOTOR MOUNT	1170636	3
D	DOOR, LOWER	1172342	1
DD	BOLT, MOTOR MOUNT	1171713	1
E EE	DOOR, FITTING NUT, MOTOR MOUNT	1172344 1171736	1 1
F	DOOR, FILTER	1171736	1
FF	GROMMET, MOTOR MOUNT	1171565	3
G	LATCH, FILTER DOOR	1171573	2
GG	BARRIER, LOW VOLTAGE	1171660	1
Н	NUT, FILTER DOOR	1171714	2
НН	PLATE, HEATER	1171582	1
JJ	SUPPORT, COIL REAR	1171608	1
KK	BRACKET, COIL BRACKET, COIL	1171574 1171575	2
LL MM	SHIELD, DRAIN PAN	1171575	2
NN	AIR SEAL ASSEMBLY	1171641	1
P	DECK, BLOWER	1171589	1
PP	TROUGH, CONDENSATE	1171638	1
R	BAFFLE, DIFFUSER	1171569	2
RR	TROUGH, CONDENSATE	1171637	1
S	BRACKET, HOUSING	1171592	1
SS	BAFFLE, DRIP	1171648	2
T	HOUSING & WHEEL ASSEMBLY RING, DRIP	1171600 1171649	1 1
	LINNA, DAIF	1171049	
TT U	CUTOFF, BLOWER	1171568	1

	FSM4X PARTS LIST (continued)								
KEY NO.	DESCRIPTION	FAST PARTS NO.	FSM4X6000A						
V	STRAP, CAPACITOR	1171694	1						
W	SUPPORT, SIDE COIL	1171609	2						
YY	PLATE, FILLER	1171695	1						
Z1	WRAPPER, UPPER	1171952	1						
Z2	WRAPPER, LOWER	1171953	1						
ZZ	PLATE, FILLER	1171696	1						
<b>PARTS</b>	NOT SHOWN		•						
)(	GROMMET	1171737	1						
)(	GROMMET, LIQUID	1171620	1						
1/	HARNESS ASSEMBLY LIMIT	1171600	1						







1171735

1171737

1171620

1171698

1171357

1

1

FUSE

)(

)(

**GROMMET** 

**GROMMET LIQUID** 

HARNESS ASSY UNIT

PAINT DARK GREY 160Z AEROSOL

496 04 5101 00