

EHK AND EHX ELECTRIC HEAT KITS INSTALLATION INSTRUCTIONS

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WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT.

IMPROPER INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

DO NOT BYPASS SAFETY DEVICES

Description

The following installation instructions supplement is for the EHK heater kits for installation in the following models:

DB* 180-300 & DF* 180-300

These instructions should be used only as a supplement to the installation instructions provided with the above units.



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.



CAUTION

TO AVOID POSSIBLE PERSONAL INJURY, USE EXTREME CAUTION IF USING POWER TOOLS TO REMOVE THE SMALL BREAKER MOUNTING BRACKETS. THE BRACKETS MAY QUICKLY ROTATE AND CAUSE INJURY.

4. Remove heat access door.

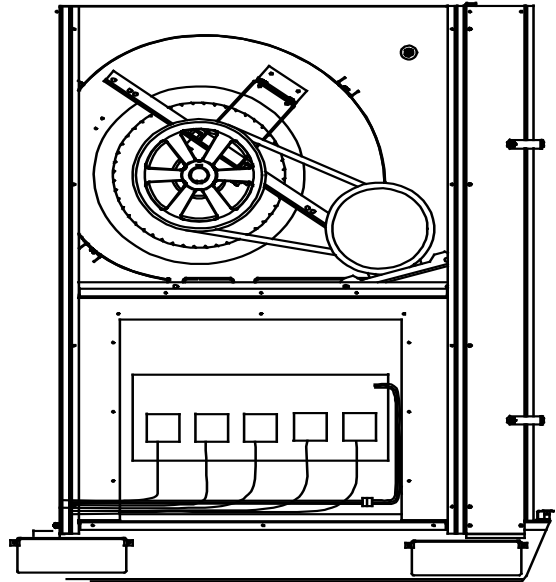


Figure 1

IMAGE SHOWN COULD BE DIFFERENT FROM THE ACTUAL UNIT.

5. Remove EHK Heater Kit from box. Orient the heater element bracket as shown in Figure 2.
6. Install heater kit in opening using screws and align with mounting plate holes. Ensure that the other side of the heater kit is resting on the support channel.

1. Disconnect all power to the unit and lockout/tagout.
2. Remove control box door.
3. Remove filter door.



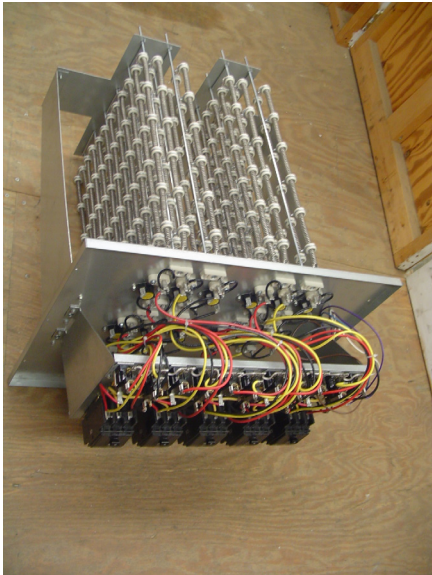
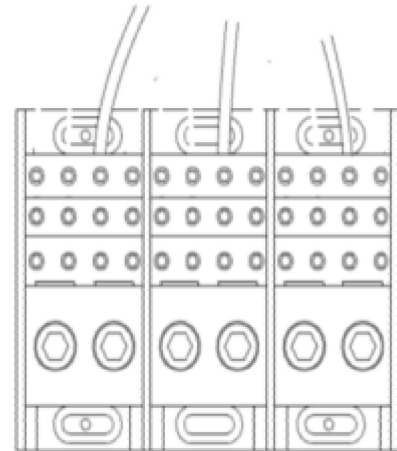


Figure 2
(DB MODEL KITS)

ALL WIRES SUPPLIED WITH THE
ELECTRIC HEATER KITS ARE
BLACK. TERMINATIONS AT THE
POWER DISTRIBUTION BLOCK ARE
NOT POLARITY SENSITIVE.
(SOME HEATER KITS USE
PARALLEL FEED)

WIRE BK WIRE BK WIRE BK



DETAIL A

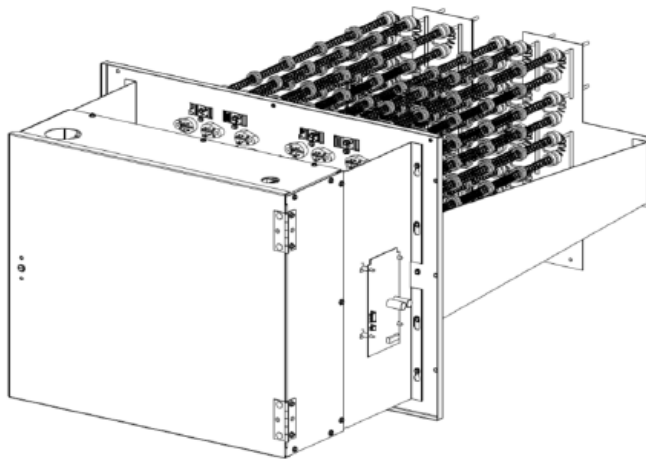


Figure 3
(DF MODEL KITS)

7a. Route the EHK yellow, black and red wires through the hole in the blower deck and into the control box. Connect EHK wires to the single point wire kit as shown in Figure 4a (DB Model Kits).

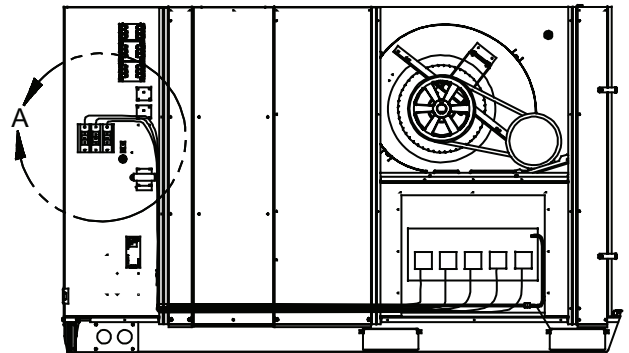


Figure 4a

7b. Route the EHK Black wires through the hole in the blower deck and into the control box. Connect EHK wires to the single point wire kit as shown in Figure 4.b

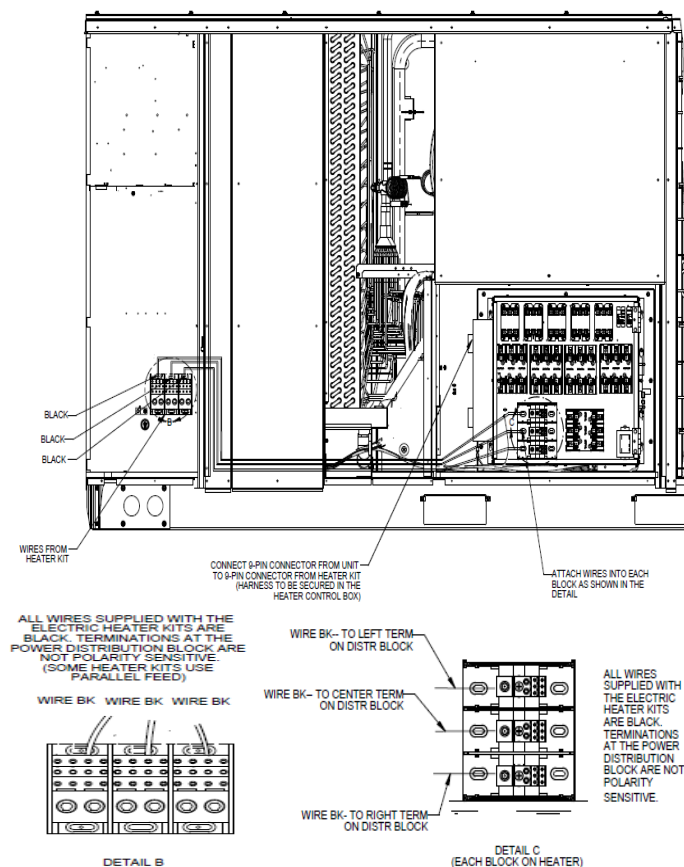


Figure 4b

8. Locate the 9-pin harness in the unit and remove and discard the empty male plug if so equipped.
9. Connect the 9-pin plug from the unit to the 9-pin plug in the heater kit in figure 5.
10. Remove 3 amp fuse from time delay control board, located in control box. Replace with 5 amp fuse included in heater kit. (if supplied by the heat kit only in DB models)

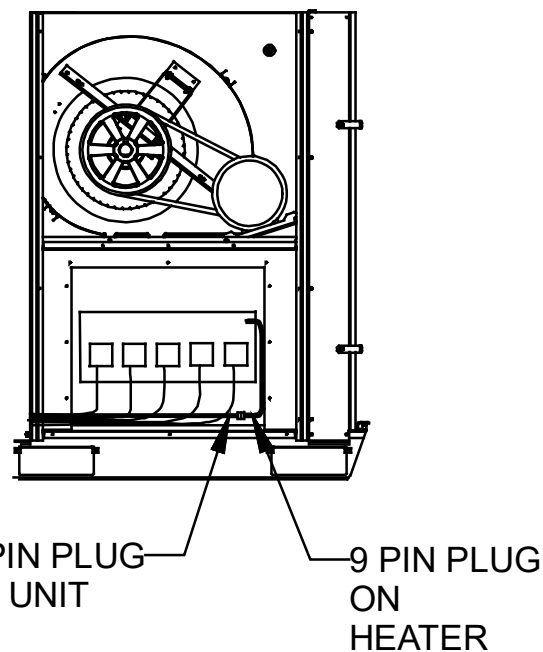


Figure 5

IMAGE SHOWN COULD BE DIFFERENT FROM THE ACTUAL UNIT.

11. Set minimum CFM for unit based on Appendix B, Minimum Airflow for Electric Heat Table. See unit literature for instructions on how to change fan CFM.
12. Install control box door, filter and heat access door.
13. Reconnect power.
14. Test unit to ensure it is functioning properly.

MINIMUM AIRFLOW FOR ELECTRIC HEAT DB Models

UNIT	HEATER KIT MODEL NUMBER	MINIMUM CFM DOWNSHOT	HEATER KIT MODEL NUMBER	MINIMUM CFM DOWNSHOT	HEATER KIT MODEL NUMBER	MINIMUM CFM DOWNSHOT
15 TON	EHK3-31	5250	EHK4-31	5250	EHK7-31	5250
	EKK3-46	5250	EKK4-46	5250	EHK7-46	5250
	EHK3-60	5250	EHK4-60	5250	EHK7-60	5250
20 TON & 25 TON	EHK3-31	7000	EHK4-31	7000	EHK7-31	7000
	EHK3-46	7000	EHK4-46	7000	EHK7-46	7000
	EHK3-60	7000	EHK4-60	7000	EHK7-60	7000
	EHK3-75	7000	EHK4-75	7000	EHK7-75	7000

MINIMUM AIRFLOW FOR ELECTRIC HEAT DF Models

UNIT	HEATER KIT MODEL	kW	MINIMUM CFM
15 ton AC STD Static	EH*-L30	30	6000
	EH*-L45	45	
	EH*-L60	60	
15 ton AC High Static	EH*-L30	30	5250
	EH*-L45	45	
	EH*-L60	60	
20 ton AC STD Static	EH*-L30	30	7000
	EH*-L45	45	
	EH*-L60	60	
	EH*-L75	75	
20 ton AC High Static	EH*-L30	30	7000
	EH*-L45	45	
	EH*-L60	60	
	EH*-L75	75	
25 ton AC STD Static	EH*-L30	30	8750
	EH*-L45	45	
	EH*-L60	60	
	EH*-L75	75	
25 ton AC High Static	EH*-L30	30	7500
	EH*-L45	45	
	EH*-L60	60	
	EH*-L75	75	

DF MODELS HEATER KIT MODEL NUMBER NOMENCLATURE

		E	H	X	-	3	L	30
		1	2	3	-	4	5	6,7
Electric								
Heater								
Heater Type								
X	Staged							
S	SCR (modulating)							
Voltage								
3	208-230/3/60							
4	460/3/60							
7	575/3/60							
Chassis								
L	Large							
Kilowatt								
30	30 KW							
45	45 KW							
60	60 KW							
75	75 KW							

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