

EHK ELECTRIC HEAT KITS INSTALLATION INSTRUCTIONS

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WARNING

Only personnel that have been trained to install, adjust, service 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 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.

PROP 65 WARNING FOR CALIFORNIA CONSUMERS



WARNING

Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

0140M00517-A

Description

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

DBC180, DBC240 & DBC300

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.

1. Disconnect all power to the unit.
2. Remove control box door.
3. Remove filter door.

4. Remove heat access door.

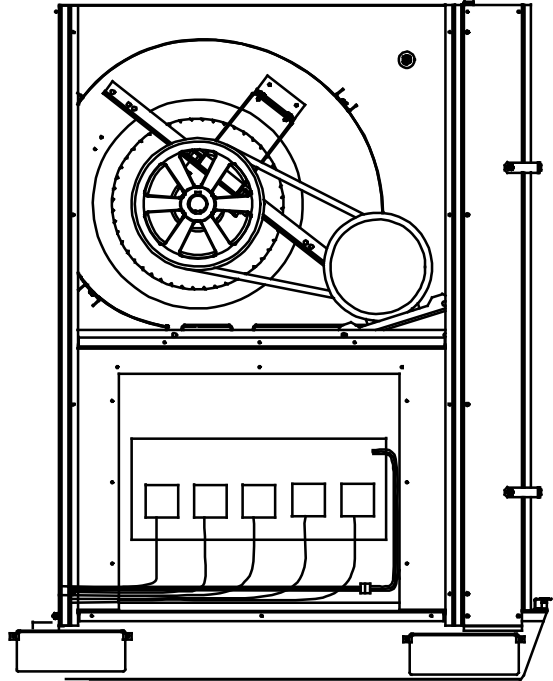


Figure 1

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.

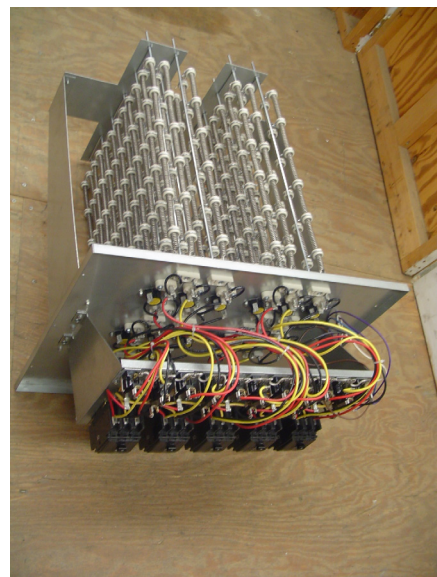


Figure 2



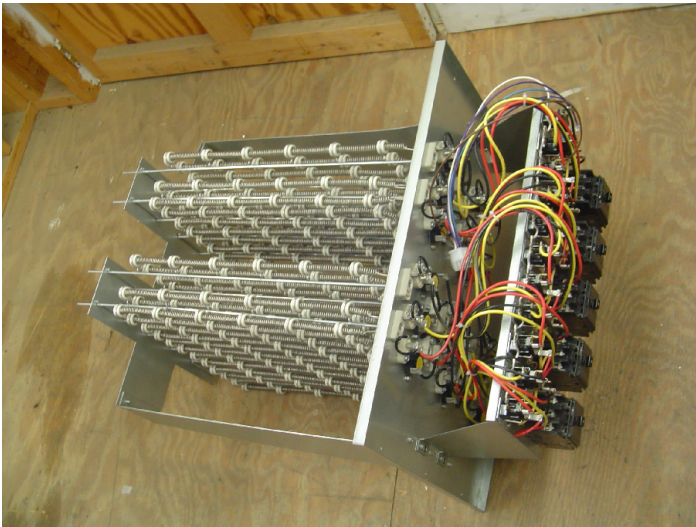
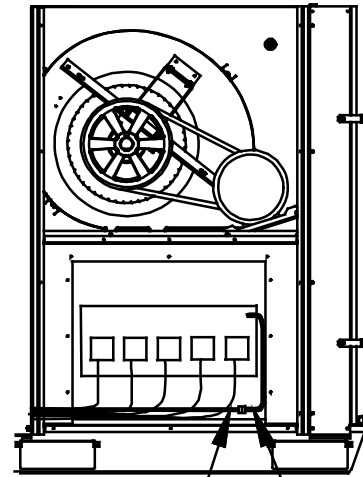
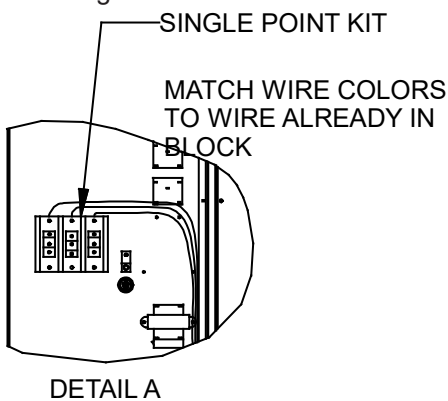


Figure 3

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



9 PIN PLUG ON UNIT **9 PIN PLUG ON HEATER**

Figure 5

12. 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.
13. Install control box door, filter and heat access door.
14. Reconnect power.
15. Test unit to ensure it is functioning properly.

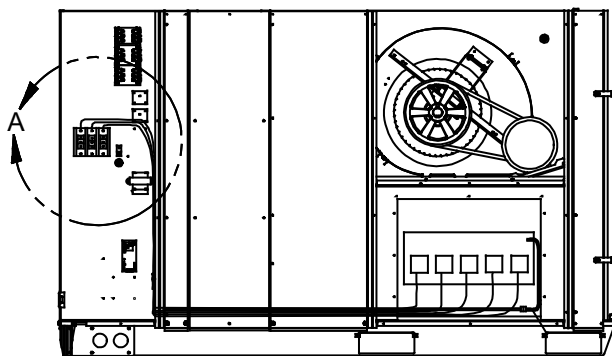


Figure 4

9. Locate the 9-pin harness in the unit and remove and discard the empty male plug if so equipped.
10. Connect the 9-pin plug from the unit to the 9-pin plug in the heater kit.
11. Remove 3 amp fuse from time delay control board, located in control box. Replace with 5 amp fuse included in heater kit.

APPENDIX A BLOWER PERFORMANCE DATA

BELT DRIVE - STANDARD

DBC180 STANDARD BELT DRIVE (includes 2 speed models at high speed)

ESP, IN H ₂ O	TURNS OPEN													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	---	---	---	---	---	---	---	---	---	---	7203	2.18	6718	1.94
0.4	---	---	---	---	---	---	7306	2.54	6777	2.14	6257	1.80	5711	1.66
0.6	---	---	7477	2.97	6899	2.51	6323	2.10	5716	1.72	5103	1.39	---	---
0.8	7112	2.96	6467	2.46	5795	2.01	5101	1.61	---	---	---	---	---	---
1.0	5983	2.38	5190	1.89	---	---	---	---	---	---	---	---	---	---
1.2	4426	1.71	---	---	---	---	---	---	---	---	---	---	---	---

DBC240 STANDARD BELT DRIVE (includes 2 speed models at high speed)

ESP, IN H ₂ O	TURNS OPEN													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	---	---	---	---	---	---	---	---	---	---	---	---	9664	4.05
0.4	---	---	---	---	---	---	---	---	9570	4.08	9197	3.82	8702	3.51
0.6	---	---	---	---	---	---	9038	3.82	8460	3.46	7949	3.14	---	---
0.8	---	---	8171	2.93	7630	3.70	7068	2.79	---	---	---	---	---	---
1.0	---	---	7901	2.85	7203	3.42	---	---	---	---	---	---	---	---
1.2	7344	4.35	---	---	---	---	---	---	---	---	---	---	---	---

DBC300 STANDARD BELT DRIVE (includes 2 speed models at high speed)

ESP, IN H ₂ O	TURNS OPEN													
	0		1		2		3		4		5		6	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2	---	---	---	---	---	---	10369	5.07	9748	4.41	9191	3.82	8683	3.28
0.4	---	---	10802	6.00	10125	5.30	9484	4.62	8905	4.01	8386	3.46	7913	2.95
0.6	10519	6.20	9821	5.47	9193	4.81	8599	4.18	8062	3.61	7582	3.10	7143	2.63
0.8	9482	5.60	8839	4.93	8261	4.32	7714	3.74	7220	3.21	6777	2.74	---	---
1.0	8446	5.01	7857	4.39	7329	3.83	6829	3.30	---	---	---	---	---	---
1.2	7409	4.41	6876	3.85	---	---	---	---	---	---	---	---	---	---

Notes:

High static airflow requires installation of high static kit.

Unit factory shipped with sheave set at 2.5 turns open.

Air flow table represent dry coil with filters installed; SCFM correction factor for wet coil is 4%.

APPENDIX B
MINIMUM AIRFLOW FOR ELECTRIC HEAT

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

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CUSTOMER FEEDBACK

Daikin is very interested in all product comments.

Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



Our continuing commitment to quality products may mean a change in specifications without notice.

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