

ELECTRIC HEAT KITS EHxD, EHxB, EHSD AND EHSB FOR 3-6 TON LIGHT COMMERCIAL ROOF TOP UNITS MODELS: DRC, DRH, DBC AND DBH INSTALLATION INSTRUCTIONS

© 2019 **DAIKIN MANUFACTURING COMPANY, L.P.**
19001 Kermier Rd., Waller, TX 77484
www.daikincomfort.com
P/N: IOD-7100A Date: December 2019

Attention Installing Personnel

As a professional installer, you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair, it is possible to place yourself in a position which is more hazardous than when the unit is in operation. Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use. Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices... follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

SAFETY CONSIDERATIONS

The following symbols and labels are used throughout this manual to indicate immediate or potential safety hazards. It is the owner's and installer's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of personal injury, property damage, and/or product damage.

 WARNING
<p>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.</p>

PROP 65 WARNING FOR CALIFORNIA CONSUMERS
 WARNING
Cancer and Reproductive Harm - www.P65Warnings.ca.gov
0140M00517-A

Description

These installation instructions supplement the electric heater kits for installation in the following models:

DRC036, DRC048, DRC060, DRC072
DRH036, DRH048, DRH060, DRH072
DBC036, DBC048, DBC060, DBC072
DBH036, DBH048, DBH060, DBH072

These instructions should be used only as a supplement to installation instructions IOD-1032 for DRC and DRH models, or IOD-1043 for DBC and DBH models. If the heater kit is installed on a unit with DDC controls, reference the DDC user manual for controller configuration instructions. The controller will not control the heater kit unless it is properly configured.

 WARNING
<p>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.</p>


INSTRUCTIONS

1. Disconnect all power to the unit, both indoor and outdoor.
2. Remove control box door.
3. Remove blower door.
4. Locate heater box. Remove screws holding the heater box cover in place (Figure 1).

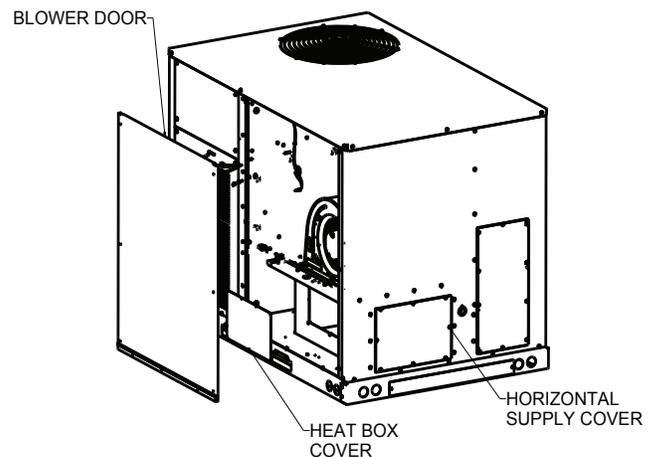


Figure 1



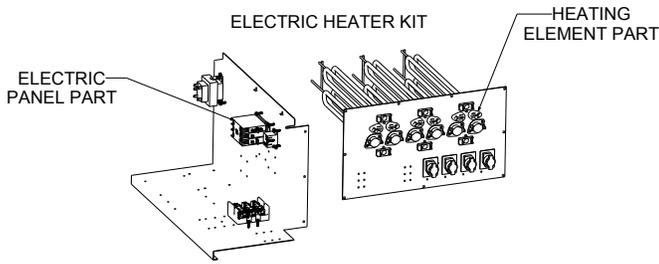


Figure 2

Wires and some components are not shown

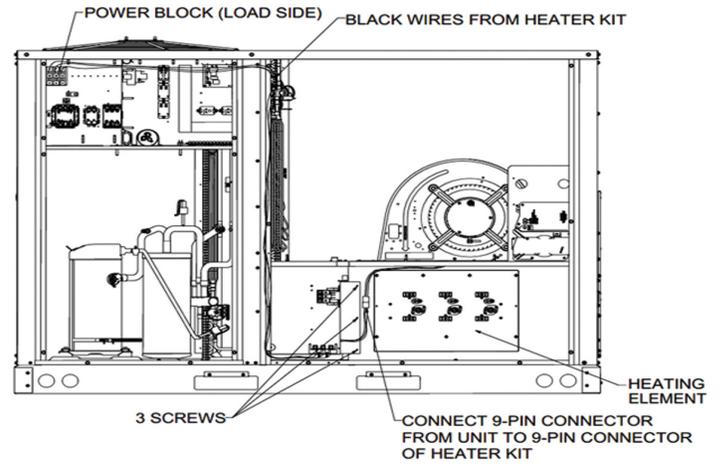


Figure 4

5. Install heating element part of the heater kit (Figure 2) in the heater box using screws from heater box cover. Ensure the elements are positioned in the retaining bracket as shown in Figure 3. It may be necessary to remove the horizontal supply cover to observe the bracket. The heater box cover can be discarded.
6. Install electric panel part of the kit to the left side of the heater box using 3 screws supplied with this IO (Figure 4).

8. Locate 9-pin plug in unit.
9. Connect the plug to the mating 9-pin plug attached to heater kit (Figure 4).
10. For EHSB and EHSB models, verify that the SCR step controlboard DIP switch settings match the wiring diagram provided with the heater kit.
11. Install blower door and horizontal supply cover if it was removed.
12. Set up a required airflow - CFM for your unit with electric heater by selecting a proper speed tap. For details see Air Flow Adjustment chapter in IOD-1032 for DRC and DRH models or in IOD-1043 for DBC and DBG models.
 - Refer to Air Flow for Electric Heat table in this document to identify minimum required CFM for your unit with specific heater model.
 - Refer to Appendix A - Blower Performance Tables for speed tap selection in IOD-1032 for DRC and DRH models or in IOD-1043 for DBC and DBH models.
13. Close control box door.
14. Reconnect power to the unit.
15. Test unit to ensure it is functioning properly.

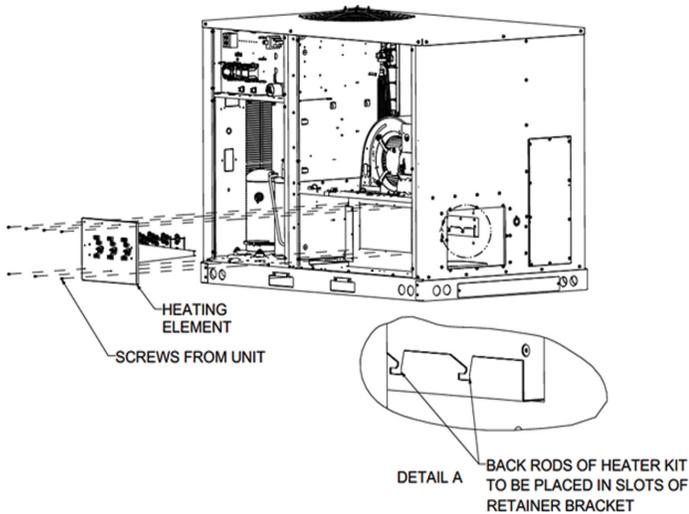


Figure 3

7. Connect power to kit.
 - Remove power cable from the box.
 - Connect wire leads to the line side of the power block on the heater kit's electrical panel. Connect one wire lead per pole.
 - Route all leads through the blower deck and into the control box as shown in Figure 4.
 - Connect wire leads to the load side of the power block in the unit's control box. Connect one wire lead per pole.

NOTE: Single phase kits will only have 2 lugs (L1 and L2).

AIR FLOW FOR ELECTRIC HEAT

UNITS	HEATER KIT MODEL NUMBER	kW	MINIMUM SCFM
DRC036, DRH036, DBC036, DBH036	EH**-*S05	5	975
	EH**-*S10	10	
	EH**-*S15	15	
DRC048, DRH048, DBC048, DBH048	EH**-*S05	5	1300
	EH**-*S10	10	
	EH**-*S15	15	
	EH**-*S18	18	
	EH**-*S20	20	
DRC060, DRH060, DBC060, DBH060	EH**-*S05	5	1625
	EH**-*S10	10	
	EH**-*S15	15	
	EH**-*S18	18	
	EH**-*S20	20	
DRC072, DRH072, DBC072, DBH072	EH**-*S05	5	1950
	EH**-*S10	10	
	EH**-*S15	15	
	EH**-*S18	18	
	EH**-*S20	20	
	EH**-*S30	30	
	EH**-*S31	30	

HEATER KIT MODEL NUMBER NOMENCLATURE

	EH	X	D	-	3	S	15
	1	2	3	-	4	5	6, 7
Electric Heater							
Heater Type							
X	Staged						
S	SCR (modulating)						
Drive System							
B	Belt Drive						
D	Direct Drive						
Voltage							
1	208-230/1/60		Single phase 60 Hz				
3	208-230/3/60		Three phase 60 Hz				
4	460/3/60		Three phase 60 Hz				
7	575/3/60		Three phase 60 Hz				
Chassis							
S	Small						
M	Medium						
L	Large						
Kilowatt							
5	5 KW HIGH AND STANDARD STATIC						
10	10 KW HIGH AND STANDARD STATIC						
15	15 KW HIGH AND STANDARD STATIC						
18	18 KW HIGH AND STANDARD STATIC						
20	20 KW HIGH AND STANDARD STATIC						
30	30 KW HIGH STATIC						
31	30 KW STANDARD STATIC						

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.



NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE

Quality Makes the Difference!

All of our systems are designed and manufactured with the same high quality standards regardless of size or efficiency. We have designed these units to significantly reduce the most frequent causes of product failure. They are simple to service and forgiving to operate. We use quality materials and components. Finally, every unit is run tested before it leaves the factory. That's why we know. . . **There's No Better Quality.**

Visit our website at www.daikincomfort.com for information on:

- Products
- Warranties
- Customer Services
- Parts
- Financing Options
- Contractor Program and Training

© 2019 **DAIKIN MANUFACTURING COMPANY, L.P.**