

INSTALLATION INSTRUCTIONS

Crankcase Heater Kits

NADA003CH, NADA004CH

These instructions must be read and understood completely before attempting installation.

Safety Considerations:

Installing and servicing of air conditioning equipment can be hazardous due to system pressure and electrical components. Only trained personnel should install or service air conditioning equipment.

Untrained personnel can perform basic maintenance functions such as cleaning coils or cleaning and replacing filters. All other operations should be performed by trained service personnel. When working on air conditioning equipment observe precautions in the literature and on tags and labels attached to the unit.

Follow all safety codes. Wear safety glasses and work gloves. Use a quenching cloth for brazing operations. Have a fire extinguisher available.

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:

 **CAUTION**

Signal Words on Product Labeling

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

WARNING

ELECTRICAL SHOCK HAZARD

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

Before beginning any modification or installation of this kit, be sure the main electrical disconnect is in the OFF position. Ensure power is disconnected to the fan coil unit. On some systems both the fan coil and the outdoor unit may be on the same disconnect. Tag the disconnect switch with a suitable warning label. There may be more than one disconnect, including accessory heater(s).

GENERAL

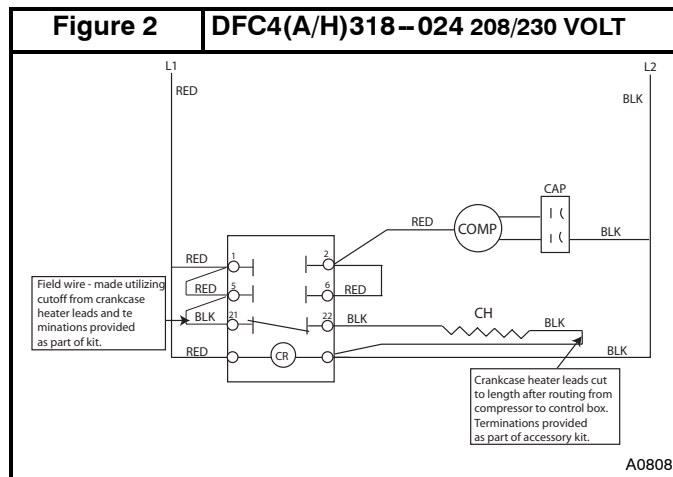
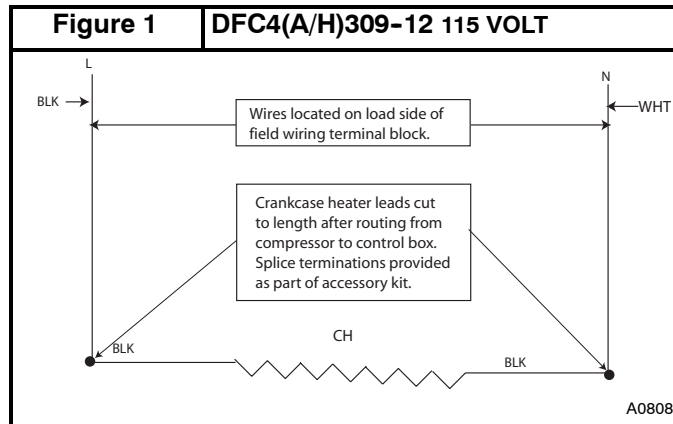
A Crankcase Heater is required for all low ambient and long line applications utilizing cooling only and heat pump models as shown in Table 1.

Table 1 – Crankcase Heater Part Numbers

Models	Part No.	Voltage
DFC4(A/H)309-12	NADA003CH	115v
DFC4(A/H)318-024	NADA004CH	208/230v

INSTALLATION

1. Remove access panels
2. Remove compressor blanket.
3. Wrap crankcase heater around compressor base and tighten screw clamp.
4. Reinstall compressor blanket.
5. Route crankcase heater wires to unit control box and cut to length (save excess wire).
6. Connect wiring in unit control box as shown in Figure 1, and 2 using terminations provided with crankcase heater kit.
7. If the installation requires field wires (called out in Figure 2), they can be made by utilizing the excess wire from Step 5 along with the terminations provided with the kit.
8. Reinstall access panels.



LEGEND:
CAP = Capacitor
CH = Crankcase Heater
CR = Compressor Relay
COMP= Compressor