

# Installation Instructions

## Crankcase Heater Kit

KAACH

**NOTE:** Read the entire instruction manual before starting the installation.

This symbol → indicates a change since the last issue.

### 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. Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **would** result in minor personal injury or product and property damage.

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**⚠ WARNING:** Before beginning any installation or modification, be sure the main electrical disconnect switch is in the OFF position. TAG THE DISCONNECT SWITCH WITH A SUITABLE WARNING LABEL. Electrical shock can cause personal injury or death.

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### INTRODUCTION

This instruction covers the installation of Crankcase Heater Kits in air conditioning equipment.

### DESCRIPTION AND USAGE

The crankcase heater warms the compressor crankcase during the off cycle when ambient temperature is below 66°F. Crankcase heater is wired across the open contacts of the contactor. When contactor is de-energized, crankcase heater is on. When contacts are closed, no current flows through the heater because it is on the same line voltage side as the compressor. The heater is used to warm the oil, to reduce refrigerant migration, and ensure proper compressor lubrication.

Crankcase heater	1
Wiring Label	1
Installation Instructions	1
Temperature switch	1

### INSTALLATION

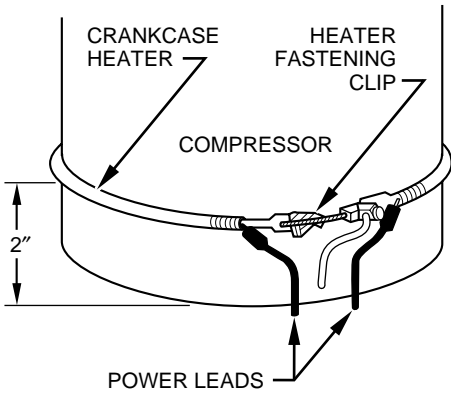
Remove unit access panel and control box access panel. Install crankcase heater on compressor as shown in Fig. 1.

Wrap heater around compressor base below oil level (heater arms may be spread to slip over piping and terminal box). Position heater below compressor terminal box approximately 2 in. above compressor mounting plate. Fasten heater firmly in place with clip provided on heater.

**Wiring**— Route one crankcase heater wire into control box and attach to quick-connect line voltage terminal 11 on contactor. Cut quick-connect off other crankcase heater wire, strip and connect to stripped temperature switch wire with a wire nut. Route other switch wire into control box and attach to quick-connect line voltage terminal 21 on contactor.

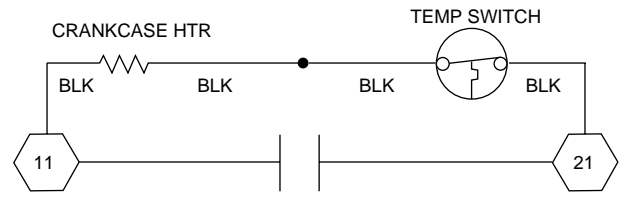
→ Temperature switch to be exposed to ambient temperature. Wire tie temperature switch to wire bundle outside control box enclosure.

Reinstall control and unit access panels and check unit operation.



**Fig. 1—Crankcase Heater Installation**

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**Fig. 2—Crankcase Heater Wiring**

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