

INSTALLATION INSTRUCTIONS

AXB045LAA - Low Ambient Kit

Used On: PAS/E090-150, PHS/E090-120, PGS/E090-150

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

INTRODUCTION

The low ambient kit is a cycle control device activated by a pressure sensor mounted on the Schrader port of the liquid line (see Fig. 1). It is designed to cycle the outdoor-fan motors to maintain the saturated condensing temperature within normal operating limits of approximately 110 F (high) and 60 F (low). The compressor maintains working head pressure at low ambient temperatures down to -20 F.

WARNING

Electrical shock hazard.

Installation or repairs made by unqualified persons can result in hazards to you and others. Installation must conform with local building codes or, in the absence of local codes, with National Electrical Code ANSI/NFPA 70-1996 or current edition.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

Shut OFF electric power at unit disconnect and/or service panel before beginning the following procedures.

Failure to carefully read and follow all instructions in this manual can result in malfunction, property damage, personal injury, and/or death.

BEFORE STARTING INSTALLATION, DISCONNECT ALL POWER TO THE UNIT.

INSTALLATION:

1. Disconnect power to unit.
2. Disconnect outdoor-fan motor (OFM) wires at the contactor (3).
3. Securely connect pressure switch flare nut (on pressure switch assembly) to either male flare fitting on adapter tee provided in kit (see Fig. 2). **Be sure to use a flare gasket** (provided in the kit).
4. Locate service fitting on tube. Remove cap from service fitting and place on remaining male flare fitting on adapter tee.
5. Securely connect female flare nut on adapter tee to service fitting. Be sure to use a flare gasket (provided in the kit).

6. Check all refrigerant connections for leaks, repair if necessary.
7. Connect OFM wire to one lead of pressure switch using a crimp connector or wire nut (see Fig. 3).
8. Connect other lead of pressure switch to T1 (3) at the unit contactor, securing excess wire.
9. If installing on a Heat Pump, you must add a relay 24-volt coil (normally closed) and wire per Fig. 4.
10. Reconnect power to unit.

Figure 1 - Low Ambient Switch

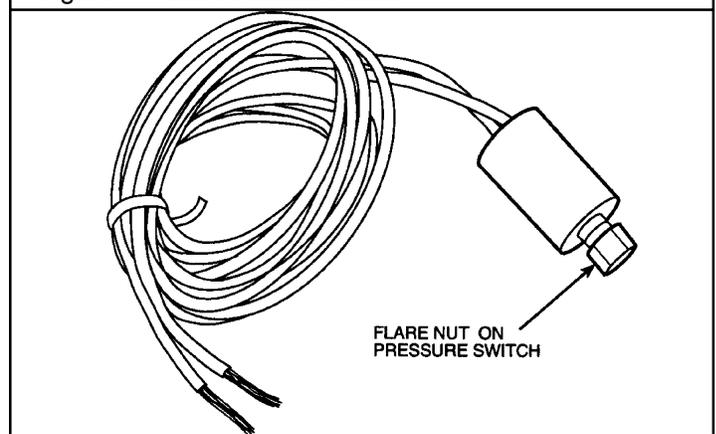


Figure 2 - High & Low Pressure Switch Refrigerant Connections

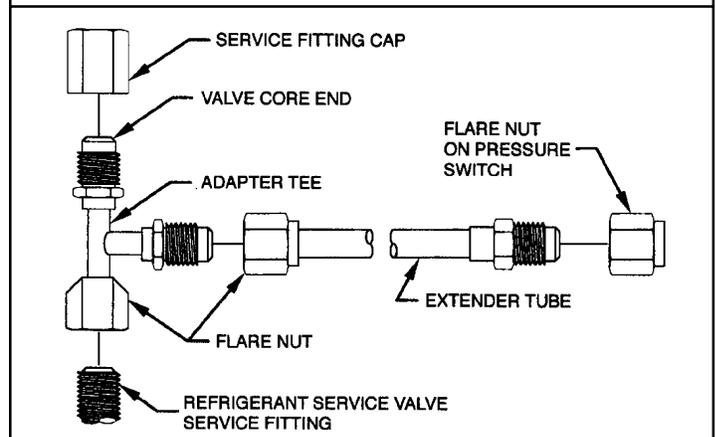


Figure 3 - Wiring Schematic, Gas Heat/Electric Cooling and Electric Cooling Units

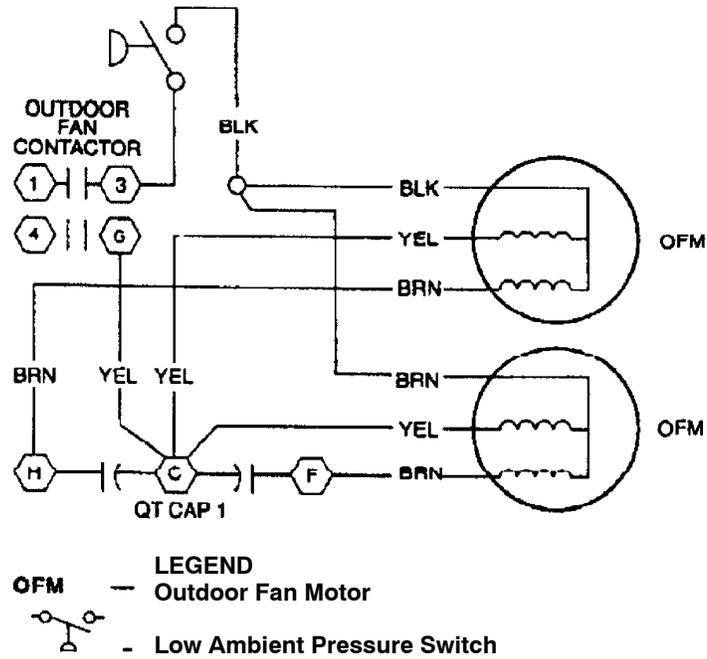


Figure 4 - Wiring Schematic, Heat Pump Units

