KSAFT0101AAA Evaporator Freeze Thermostat

Installation Instructions

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

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Use quenching cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit.. Consult local building codes and current editions of the National Electrical Code (NEC) NFPA 70. In Canada, refer to current editions of the Canadian electrical code CSA 22.1.

Recognize safety information. This is the safety-alert symbol ⚠. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the 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 **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position and install a lockout tag. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.

⚠ CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

INTRODUCTION

These instructions cover the installation of the Evaporator Freeze Thermostat Part No. KSAFT0101AAA on residential split-system air conditioners and heat pumps.

DESCRIPTION AND USAGE

This device is designed to prevent damage to the compressor by shutting down the outdoor section in the event of indoor coil freeze- up.

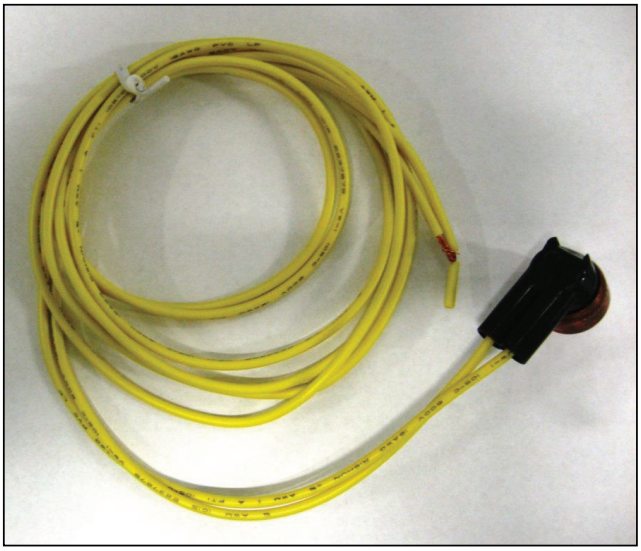

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Fig. 1- Evaporator Freeze Thermostat

Kit contents:

- Temperature switch 1
- Pipe strap with hardware 1
- Installation Instruction 1

Field supplied materials:

- Insulation to wrap switch
- Wire nuts
- Wire ties

INSTALLATION

PROCEDURE 1 — MOUNT THERMOSTAT

Make sure all power to unit is turned off

⚠ CAUTION

UNIT DAMAGE HAZARD

Failure to follow this caution may result in unit damage.

Exercise extreme caution when drilling holes. Do not puncture coil and/or tubing.

1. Install Evaporator Freeze Thermostat on vapor tube near indoor coil using strap provided in kit (see Fig. 2). Make sure switch is secure by tightening with provided hardware.
2. Insulate thermostat with field supplied pipe insulation or equivalent.
3. Route thermostat wires to indoor unit low voltage compartment.
4. Wire Evaporator Freeze Thermostat in series with Y (single-stage) or Y1 (two-stage) low-voltage wire from indoor thermostat at indoor unit, to outdoor unit. (See Fig. 3 through 6.)
5. Dress thermostat wires as required.

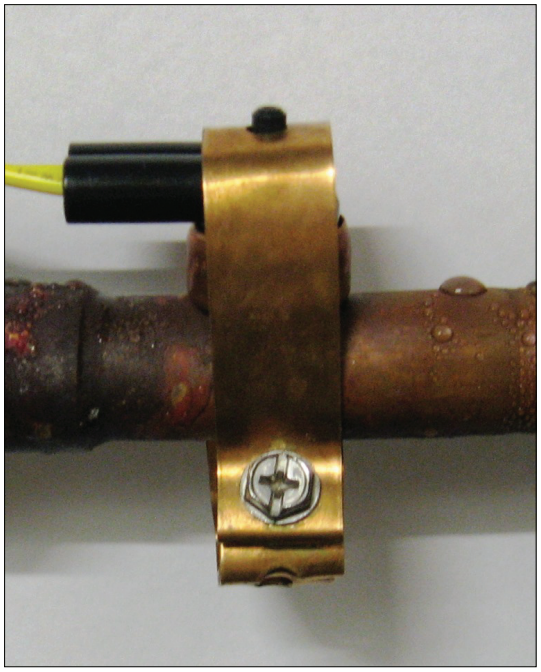

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Fig. 2- Mounting Thermostat on Vapor Tube

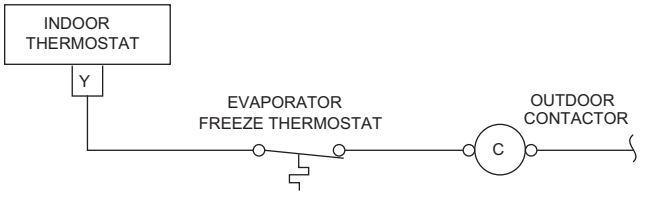

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Fig. 3- Evaporator Freeze Thermostat Wiring Single Stage

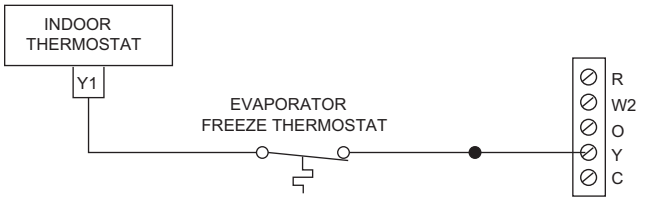

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Fig. 4- Evaporator Freeze Thermostat Wiring 2-Stage Non-Communicating HP

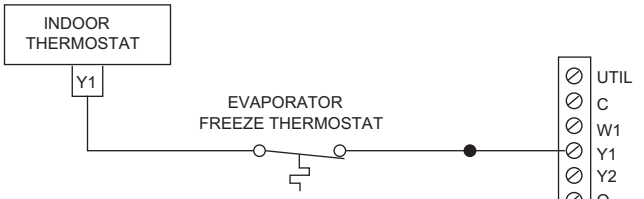

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Fig. 5- Evaporator Freeze Thermostat Wiring 2-Stage Communicating AC and HP

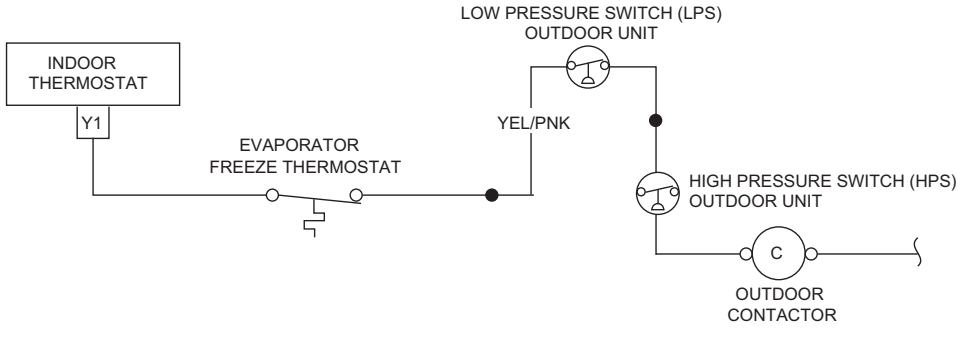

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Fig. 6- Evaporator Freeze Thermostat Wiring 2-Stage Non-Communicating AC

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Replaces: IIK-KSAFT-03