Installation Instructions

Discharge Air Sensor

Precedent™ Packaged Rooftop Units

⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

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Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
NOTICE	Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury.

All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury.

Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- **Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.**
- **When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.**
- **If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

⚠ WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- **All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.**
- **Non-Trane personnel should always follow local regulations.**

⚠ WARNING

R-454B Flammable A2L Refrigerant!

Failure to use proper equipment or components as described below could result in equipment failure, and possibly fire, which could result in death, serious injury, or equipment damage.

The equipment described in this manual uses R-454B refrigerant which is flammable (A2L). Use ONLY R-454B rated service equipment and components. For specific handling concerns with R-454B, contact your local representative.

⚠ WARNING

Cancer and Reproductive Harm!

This product can expose you to chemicals including lead and bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Overview

The FIADASTWH1A kit is designed to facilitate the connection of a supply air duct-mounted 10K ohm thermistor temperature sensor (such as the Trane BAYSTAT170A) to the Precedent™ Symbio™ 700 control board. The kit includes a wire harness with a Symbio 700 P14 plug on one end and stripped wires on the other. The stripped ends attach to the provided terminal block, which should be securely mounted to the Precedent control panel using the included sheet metal screws.

To complete the installation, use customer-supplied 18-gauge, two-conductor wire to connect the opposite side of the terminal block to the temperature sensor located in the supply air duct. During installation, take care not to compromise any production seals.

Inspection

1. Unpack all components of the kit.
2. Check carefully for shipping damage. If any damage is found, report it immediately, and file a claim against the transportation company.

Parts List

Table 1. Parts list

Part Number	Description	Qty
FIADASTWH1A	Includes wire harness with P14 plug, terminal block, and screws	1
Customer-Supplied	Supply air duct – mounted 10K OHM thermistor temperature sensor (such as Trane BAYSTAT170A)	1
	18-gauge, TEO-conductor wire	1

Installation

1. Plug the wire harness P14 connector into the Symbio 700 control board.

Note: *Some RTUs may have a harness connected to P14 that must be disconnected. The existing RTU-mounted DAT sensor will be replaced with the supply-air duct temperature sensor, and any remaining RTU-mounted DAT components can stay in place.*

2. Secure the terminal block to the control panel using the supplied sheet-metal screws.
3. Connect the stripped ends of the wire harness to the provided terminal block.
4. Use 18-gauge, two-conductor wire to connect the opposite side of the terminal block to the supply-air duct-mounted temperature sensor.

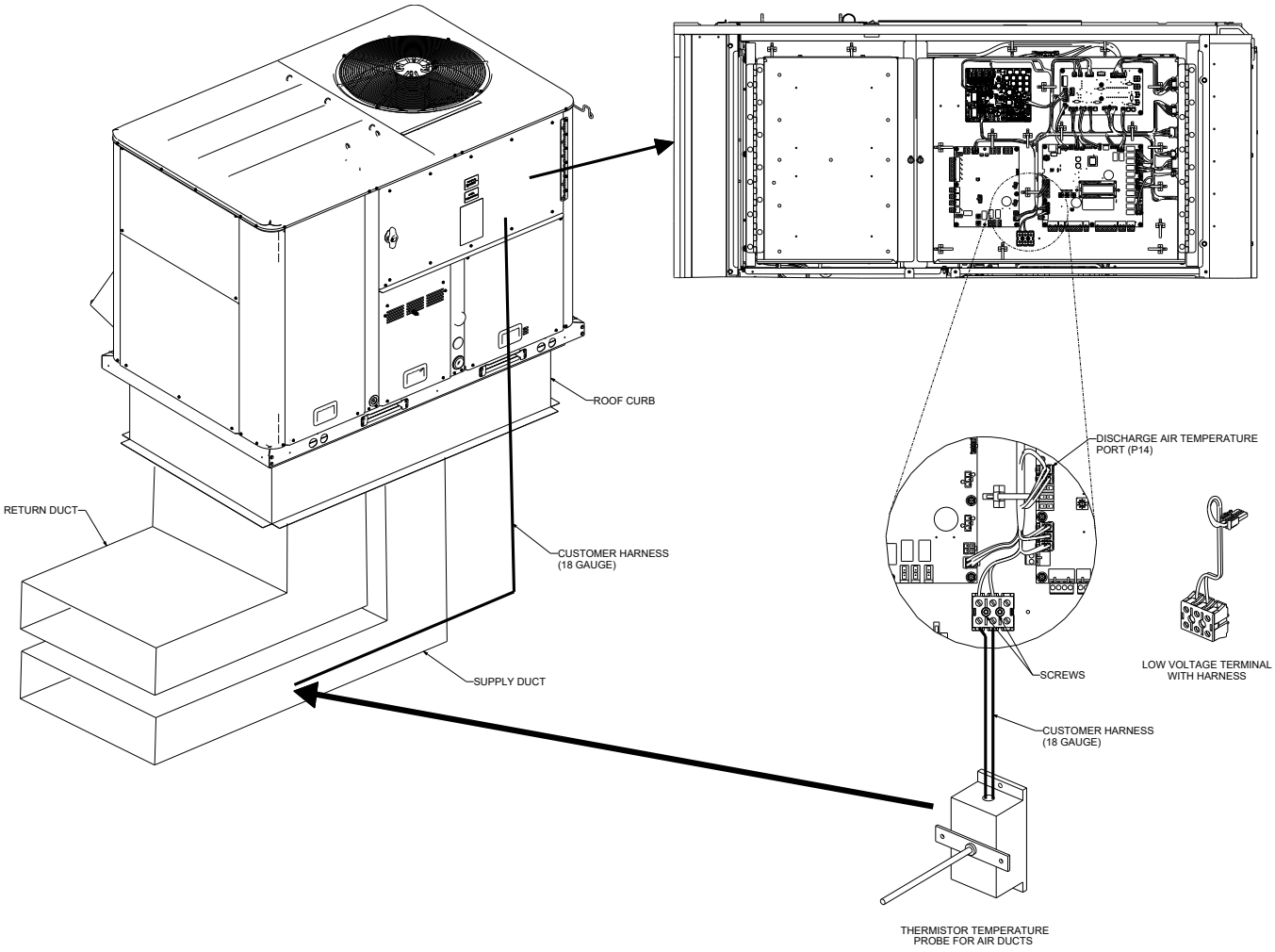
   Install the duct temperature sensor after the elbow, so it is out of line of sight to avoid detecting radiant heat. To confirm the accuracy of the sensor in detecting the supply air temperature, the sensor needs to be installed on the wider surface of the ductwork so that the probe will be closer to the center of the duct. It is recommended that the duct temperature sensor be installed as far away from the elbow as possible. The recommended installation distances are follows.

Cabinet	L
A	3.93 ft (1.2 m)
B, C, and D	5.90 ft (1.8 m)

5. Verify that all production seals remain intact during installation.
6. Verify all wiring is secure and accurate; confirm the sensor is properly installed and communicating with the Symbio 700 board.

Note: *Follow all site safety procedures and the manufacturer's guidelines during installation.*

Figure 1. Discharge air sensor installation



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