

Installation Instructions

Evaporator Defrost Control

Model Number:	Used With:
BAYLOAM020*	Precedent™ 3 to 10 Ton with ReliaTel™ control and Fin and Tube Coils
BAYLOAM120*	Precedent™ 3 to 10 Ton with ReliaTel™ control and Micro-Channel Coils

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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Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. 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

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-including industry replacements for CFCs such as HCFCs and HFCs.

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.

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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 electrical codes.

WARNING

Personal Protective Equipment Required!

Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians MUST put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. ALWAYS refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians MUST put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection PRIOR to servicing the unit. Failure to follow recommendations could result in death or serious injury.

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.

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Model Number Description

All products are identified by a multiple-character model number that precisely identifies a particular type of unit. Its use will enable the owner/operator, installing contractors, and service engineers to define the operation, specific components, and other options for any specific unit. When ordering replacement parts or requesting service, be sure to refer to the specific model number and serial number printed on the unit nameplate.

General

Note: An options board, RTOM, (BAYABRD001) must be installed in the unit for this accessory to operate.

The evaporator defrost control (EDC or Frostat™) is installed in the evaporator (Indoor) coil face area. It's purpose is to cycle the compressor when the evaporator frosts under low outdoor ambient cooling conditions or low airflow applications.

Inspection

1. Unpack all components of the BAYLOAM020* or BAYLOAM120* kit.
2. Check carefully for any shipping damage. If any damage is found it must be reported immediately and a claim made against the transportation company.

Parts List

- 1 - Frostat™ Evaporator Defrost Control
- 1 - ReliaTel™ Frostat™ wiring harness
- 1 - Installation Guide
- 8 - Wire ties
- 1 - Rubber insulation (only on BAYLOAM120*)
- BAYLOAM120* kit contains two sensors (7/8-inch and 3/4-inch clip)

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Installation

⚠ WARNING

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Verify with an appropriate voltmeter that all capacitors have discharged.

For additional information regarding the safe discharge of capacitors, see PROD-SVB06A-EN.

BAYLOAM020* - Capillary Sensor

1. Remove filter access panel, evaporator blower compartment access panel, heat compartment access panel and left center post.
2. Remove drain pan.

Note: Before mounting Froststat™, uncoil about a foot of the end of the capillary tube.

3. Locate cap tube insertion point on bottom of evaporator coil between 1st and 2nd tube row from fan side and within 4-inch (101.6 mm) of the end of the coil (toward the front side of the unit) per illustration. Insert end of capillary tube into bottom of coil at this point per illustration and continue to feed cap tube into coil until 14-inch (355.6 mm) of cap tube is inserted. See Figure 1.
4. While holding the end of the cap tube in place, bend and secure the cap tube to a u-bend with a wire tie. This is to ensure the cap tube remains 14-inch (355.6 mm) within the coil.
5. Install Froststat™ on the circuit # 1 insulated vapor tube with two cable ties illustrated in Figure 2. Tie extra capillary tube to the vapor line as indicated. See Figure 2.

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Figure 1. Capillary sensor installation

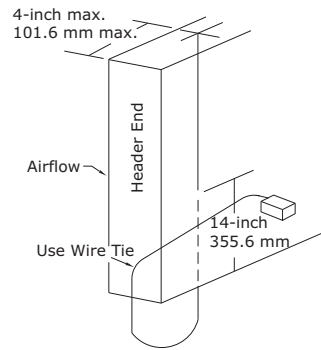
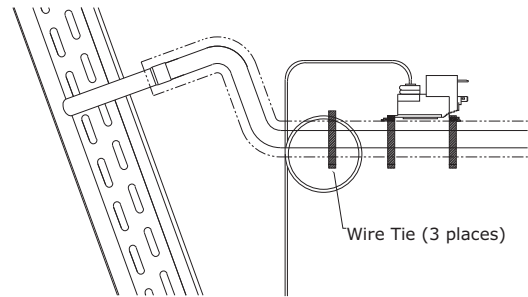


Figure 2. Capillary sensor installation

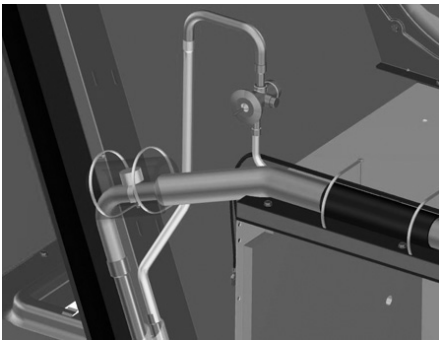


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BAYLOAM120* - Clip-On Sensor

1. Select the sensor that fits the suction line.
2. Clip the sensor to the suction tube as shown in Figure 3.
3. Cover the sensor with rubber insulation and secure using the included cable ties.

Figure 3. Clip-On sensor installation



4. Connect the ReliaTel™ Froststat™ wiring harness to terminals 1 and 2 on the Froststat™.
5. Route wire as needed to connect to the RTOM. (This may require routing through the divider panel). Dependent on unit model, the RTOM board is either located in the control panel or attached to the divider panel near the indoor fan motor. Connect the polarized plug on the other end of the wiring harness to connector J7, terminals 1 and 2 of the RTOM board.

Note: Secure all wiring away from live terminals, sharp edges and hot surfaces with wire ties (provided with the kit).

6. Replace filter access panel, evaporator blower compartment access panel, heat compartment access panel and left center post.

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