

Installation Instructions

Expansion Module Kits

Precedent™ and Voyager™ 3

with Symbio™ 700 Controls

Model Number: FIAXMOD030*
Used With: 6 to 25 Tons Precedent™ and 27.5 to 50 Tons Voyager™ 3 units with FIAXMOD032* Symbio™ controls

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.

November 2022 ACC-SVN265B-EN ©2022

1 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 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-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/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 Labeling 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.

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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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Revision History

- Added Symbio™ 700 reference.
- Updated Voyager™ 3 low voltage section.

4 Pre-Installation

General Information

The Tracer XM30 or XM32 expansion module provides additional points when needed for Symbio™ 700 applications. Each expansion module has a total of four points that can be configured using any combination of inputs/outputs. Up to two expansion modules may be used in various combinations on a unit.

Expansion Module	Combinations Permitted				
XM30	1	0	1	2	0
XM32	0	1	1	0	2

Note: For additional information on XM30 and XM32, refer to the product data sheet.

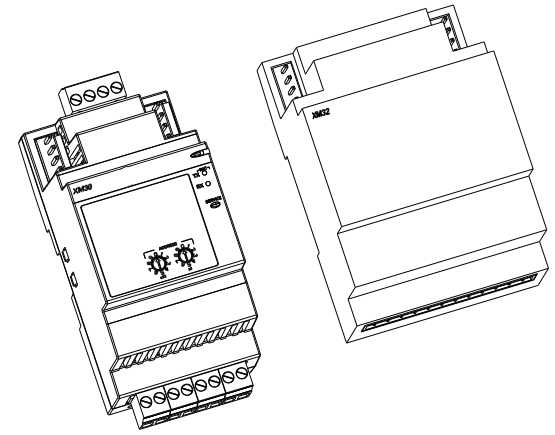
Inspection

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.
3. Visually inspect the components for shipping damage as soon as possible after delivery, before it is stored. Concealed damage must be reported within 15 days.
4. If concealed damage is discovered, stop unpacking the shipment.
5. Do not remove damaged material from the receiving location. Take photos of the damage, if possible. The owner must provide reasonable evidence that the damage did not occur after delivery.
6. Notify the carrier's terminal of damage immediately by phone and by mail. Request an immediate joint inspection of the damage by the carrier and the consignee.

Note: Do not attempt to repair any damaged parts until the parts are inspected by the carrier's representative.

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Figure 1. Expansion module kits



Parts List

Table 1. Parts list

Quantity	Description
1	Expansion module
1	Communication harness
1	Din rail
2	End stops
1	Jumper cable
2	Screws

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Notes:

- A single expansion module kit includes the din rail and required mounting hardware. When installing two expansion modules, disregard one of the din rails and mount all expansion modules on one din rail.
- Some components in the kit may not be used depending on unit configuration.

Installation

Precedent™ - digit 21 = 0	No communication options are enabled
Voyager™ - digit 26 = 0	

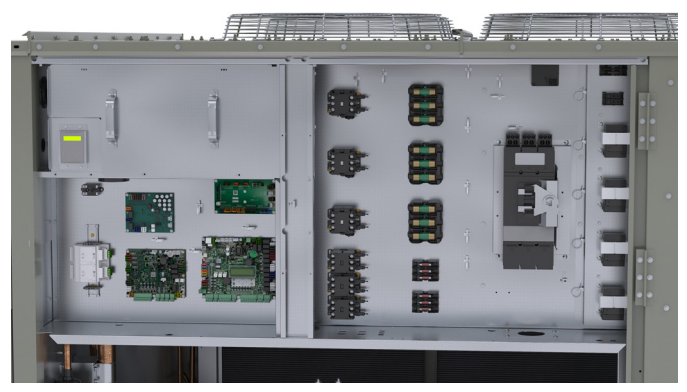
Important: If model number on Precedent™ unit digit 21=0 or on Voyager™ 3 digit 26=0, no communication options are enabled. The expansion module kit is not licensed or supported for this option. To enable an expansion module kit, the Symbio™ 700 must be replaced through service parts with a properly licensed Symbio™ 700.

Figure 2. Precedent™ - expansion module mounting location



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Figure 3. Voyager™ 3 - low voltage section



⚠ WARNING

Hazardous Voltage!
Failure to disconnect power before servicing could result in death or serious injury.

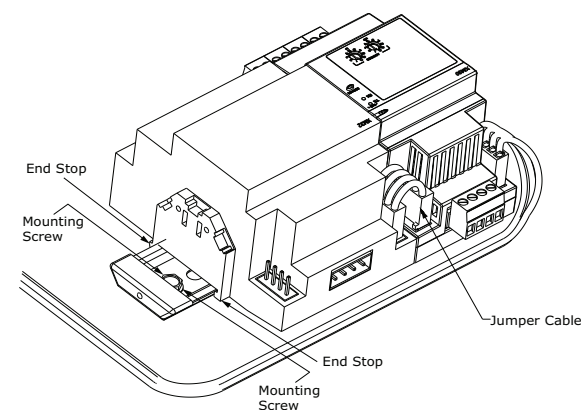
Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Verify that no power is present with a voltmeter.

1. Disconnect and lock out power from the unit.
2. Open the low voltage access door and refer to [Figure 2](#) (Precedent™) and [Figure 3](#) (Voyager™) for expansion module mounting location. The DIN rail mounts with two screws (see [Figure 4](#)).
3. Install end stops snug against module.
4. Install the harness between Symbio™ UC and expansion module. Refer to main unit schematic, Sheet 9 for connections and route harness along existing harness paths to Symbio™ 700.
5. If two expansion modules are being installed, use one of the supplied DIN rails to mount the two modules.

Important: An additional end stop must be placed between the two modules on either end to be fully secured to the DIN rail.

6. Update the Symbio™ 700 UC configuration to enable this installed feature.
7. Connect the jumper cable between the two expansion modules.

Figure 4. Jumper cables



8. Close outer panels and then reconnect all power to the unit.