Installation Instructions

0 to 50% Motorized Outside Air Damper

Model Number:	Used With:
BAYDMPR051*	Precedent™ B/F cabinet with ReliaTel™ controls - T/YSC036-060E*R, T/YSC060BDK, WSC060BDK, WSC060EDR,T/YHC036-37E*R, T/YSC033-063G*R, D/W*C036-048H
BAYDMPR052*	Precedent B/F cabinet with electromechanical controls - T/YSC036-060E*E, T/YHC036E*E, T/YSC033-063G*E
BAYDMPR054*	Precedent C/D/E cabinet with ReliaTel™ controls, T/YSC072-120BDK, T/YSC(072-120)**R, WSC072-090BDK, WSC072-120, T/YHC047-067E*R, T/YHC072-102F*R, T/YHC120E*R, T/YHC048-060F*R, D/W*C060-120H
BAYDMPR055*	Precedent C/D/E cabinet with electromechanical controls - T/YHC048-060E*E, T/YHC072-102F*E, T/YHC120E*E, T/YHC(048-060)F*E, T/YSC(072-120)**E

Note: *This accessory is not for use on units with multi-speed, variable speed, VAV, or Single Zone VAV supply fan types (Digit 15=6,7,8,E,F).*

⚠ 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.

April 2020 **ACC-SVN24P-EN**

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

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.

2

⚠ 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.**

3

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.

Introduction

This instruction covers installation of BAYDMPR051*, BAYDMPR052*, BAYDMPR054*, BAYDMPR055*.

Parts List

- 1 - Motorized OA Damper Assembly
- 10 - Screws (T/Y/W*C033-063 except T/YHC048-060E and D/W*036-048H units)
- 12 - Screws (D/W*H060H, T/YHC048-060, T/W/Y072-120 units)
- 1 - Blockoff; Bottom

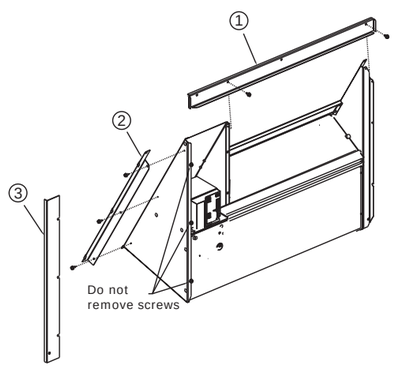
4

Installation Instruction

Uncrate the damper and locate all parts shown in Figure 1.

Each damper ships with items 1, 2 and 3 attached. Remove screws completely from items 1 and 2. Remove item 3 by loosening the 3 screws but do not remove them. See figure below.

Figure 1. Damper contents



5

⚠ WARNING

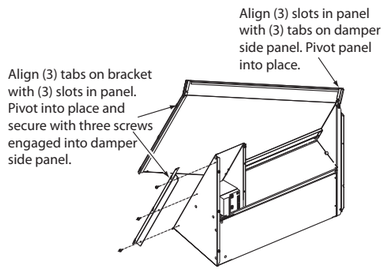
Hazardous Voltage w/Capacitors!

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

1. Remove unit end panel, retain the screws removed from the top of panel and the screws removed from bottom of panel for use later.
2. To install the damper, lift into position by fitting the upper left hand corner around the channel in the cabinet post. Then pivot the damper into the opening in the cabinet. Refer to Figure 2.
3. Once the damper is in place, lift the damper and panel assembly to align the upper two screw holes. Secure the top by inserting 2 screws, top left 1 then top right 2. Refer to Figure 2.
4. Pull out on the bottom of the damper and secure bottom left 3. Refer to Figure 3.

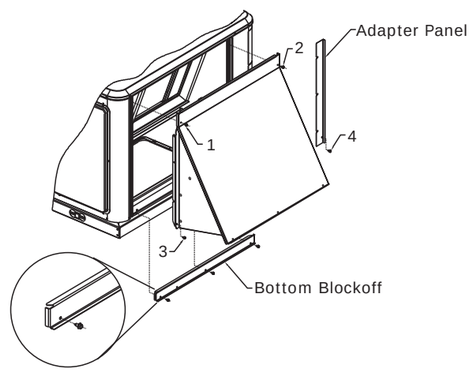
Figure 2. Damper panel



6

5. Remove the filter access panel. Position the adapter backing plate inside the filter section. The adapter backing plate will slip over the 3 screws that were loosened in Figure 1. Align the screw engagement hole in the adapter backing plate, with the screw clearance hole in panel and secure lower right side of damper with screw 4. Refer to Figure 2.
6. Install the bottom blockoff and secure with 3 screws. Refer to Figure 3.

Figure 3. Bottom blockoff



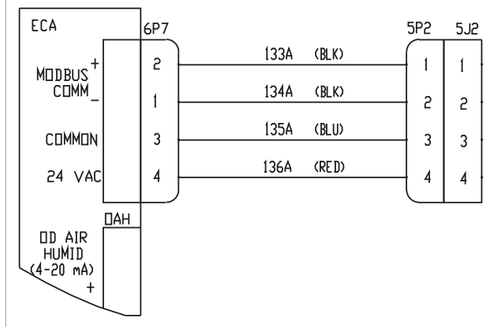
Wiring Connections

ReliaTel™ Units

Locate unit wiring harness plug P7 and plug into J7 on the actuator motor.

7

Figure 4. ReliaTel™ wiring



Electromechanical Units

Locate unit wiring harness plug PPM2A. The plug is located in the upper left section of the return air section. Remove the cap covering the plug, and connect to the economizer wiring harness.

Factory Installed Damper Set-Up

Downflow Configuration

To position damper for downflow operation, complete the following steps:

⚠ WARNING

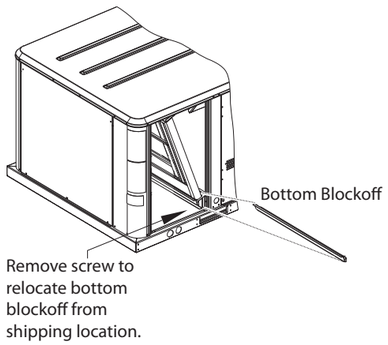
Hazardous Voltage!

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.

8

1. Remove filter access panel.
2. Remove bottom blockoff from its shipping location. See Figure 5.

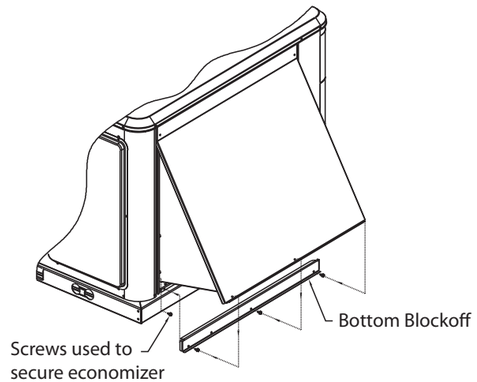
Figure 5. Remove bottom blockoff



3. Remove the bottom three screws from the damper panel.
4. Pull the damper assembly out into operating position as shown in Figure 6.
5. Secure the damper assembly with 2 screws at the bottom of the corner posts.
6. Install bottom blockoff and secure with 3 screws.

9

Figure 6. Damper assembly operating position



10

Minimum Position Setting

⚠ WARNING

Live Electrical Components!

Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury. When necessary to work with live electrical components, have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks.

To adjust the minimum position setting and check out the damper, the power must be connected.

Close the unit disconnect and place the zone sensor fan selector in the fan "ON" position and the heat/cool selector in the "OFF" position. This will place the damper in the minimum ventilation position.

To adjust the minimum position setting for the required ventilation air, turn the potentiometer (on the damper motor) clockwise to "open" (to increase the amount of ventilation) or counterclockwise to "close" (to decrease the amount of ventilation). The damper will open to this setting each time the blower circuit is energized.

When adjusting minimum position, the damper may move to the new setting in several small steps. Once the damper has remained in position for 10 - 15 seconds without movement, it can be assumed it is at the new position.

Replace the filter access panel.

The damper will close when the blower circuit is de-energized.

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ACC-SVN24P-EN 22 Apr 2020
Supersedes ACC-SVN24N-EN (Mar 2018)