

Installation Instructions

Low Leak Economizer

Split System Air Conditioners Odyssey™ with
Symbio 700 Controls
6 to 25 Tons

Model Number:	Used With:
BAYECON360*	TWE072, TWE090
BAYECON361*	TWE 120
BAYECON362*	TWE150, TWE180
BAYECON363*	TWE240, TWE300

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.

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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General Information

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

Each economizer ships partially assembled. Uncrate the economizer and check for the following parts.

Note: Confirm there are no missing parts before starting installation.

Figure 1. Economizer parts list

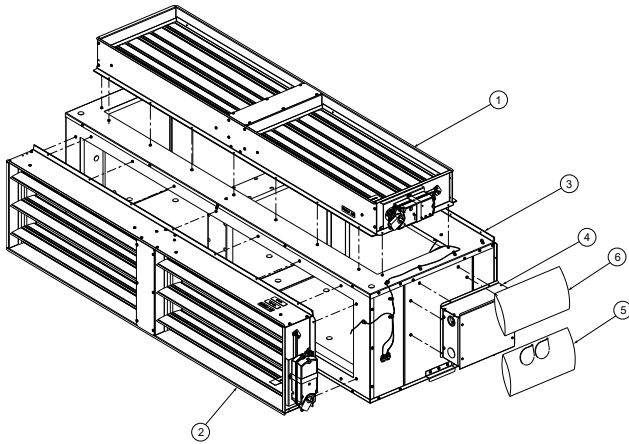


Table 1. Economizer parts

Item	Description	Qty
1	Damper, Low Leak, Fresh Air	1
2	Damper, Low Leak, Return Air	1
3	Economizer, Frame Assy	1

Table 1. Economizer parts (continued)

Item	Description	Qty
4	Economizer, Control Box	1
5	Accessories, Economizer Kit	1
6	Accessories Harness, Economizer Kit	1

Table 2. Accessories

Qty	Description
	Accessories, Economizer Kit
1	Document: ACC-SVN329*-EN
1	Insulation; Sheet; 0.125t X 5w X 3l
1	Bag; Plastic 10.00 X 15.00
1	Bushing; Snap; .69 Id
14	Tie; Wire Nylon, 11.08 Inch 40 Lb. .140" W
10	Base; Weatherable Cable Tie Mount (Ty-Rap)
6	Screw; Sheetmetal- Number 10-16 X 1/2, Slf Drl
26	Screw; Sheetmetal- Number 10-16 X 1, Slf Drl
1	Adhesive/Sealant; Silicone, 10.3 Oz Translucent
Qty	Accessories Harness, Economizer Kit
1	Harness; Controls, Actuator
2	Harness; IMC Communication Pigtail
1	Harness; IMC Communication
1	Harness; Controls Addressing Plug

Note: These accessories are placed in a plastic bag and kept inside the economizer during shipping.

Figure 2. Economizer overall dimensions

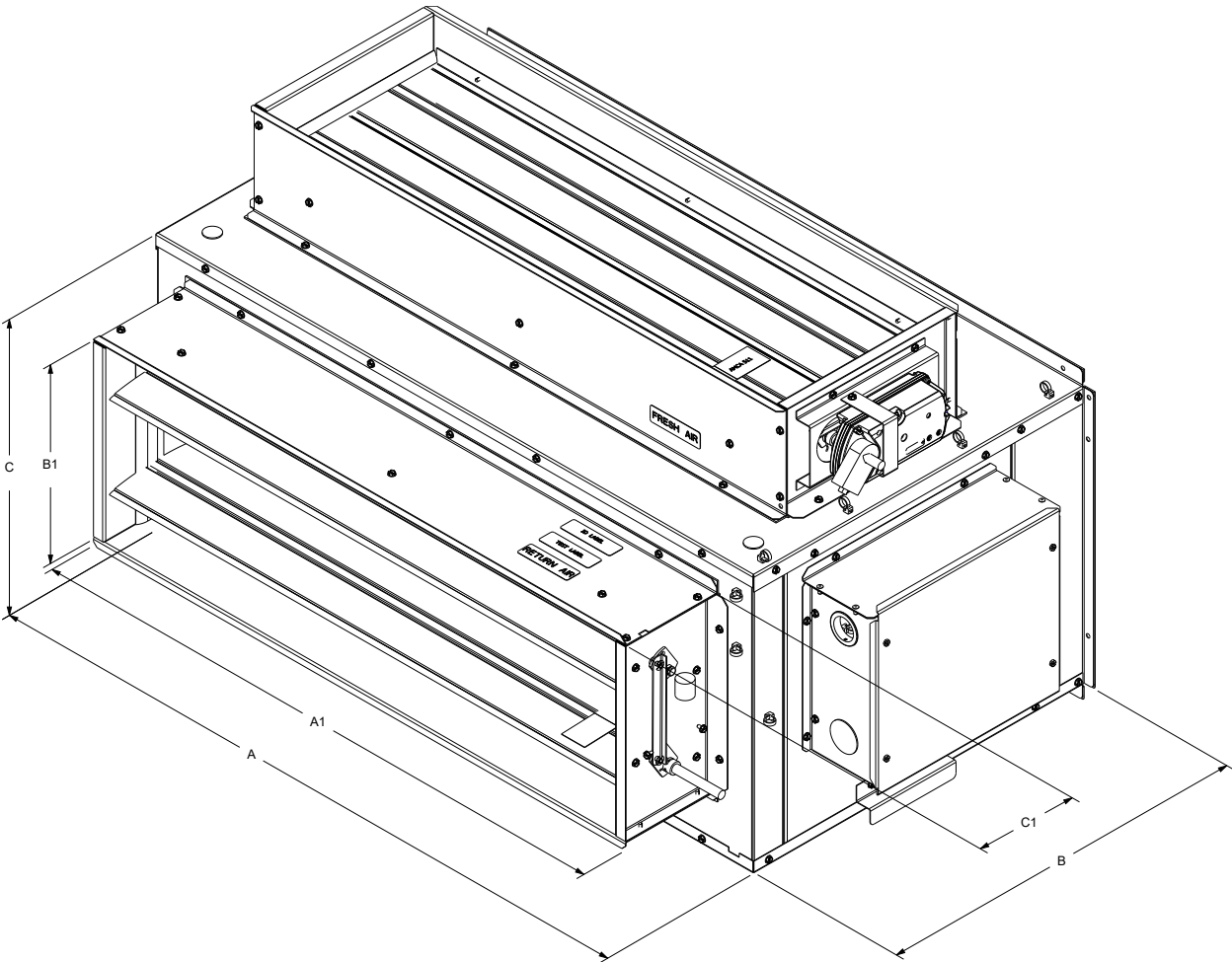


Table 3. Economizer dimensions – in. (mm)

Model No	A	B	C	A1	B1	C1
BAYECON360	41.85 (1062.9)	23.18 (588.77)	18.03 (457.96)	37.30 (947.42)	11.90 (302.26)	6.40 (162.56)
BAYECON361	57.92 1471.17)	23.18 (588.77)	17.03 (432.56)	50.80 (1290.32)	11.90 (302.26)	6.40 (162.56)
BAYECON362	74.07 (1881.38)	28.93 (734.82)	18.90 (480.06)	66.83 (1697.48)	17.53 (445.26)	6.40 (162.56)
BAYECON363	84.52 (2146.81)	28.93 (734.82)	22.45 (570.23)	77.28 (1962.91)	17.53 (445.26)	6.40 (162.56)

Field Supplied Parts

NOTICE

Corrosion Damage!
Failure to use recommended caulking/sealant could cause corrosion related failures to refrigerant components.

Field Installed Assembly and Installation

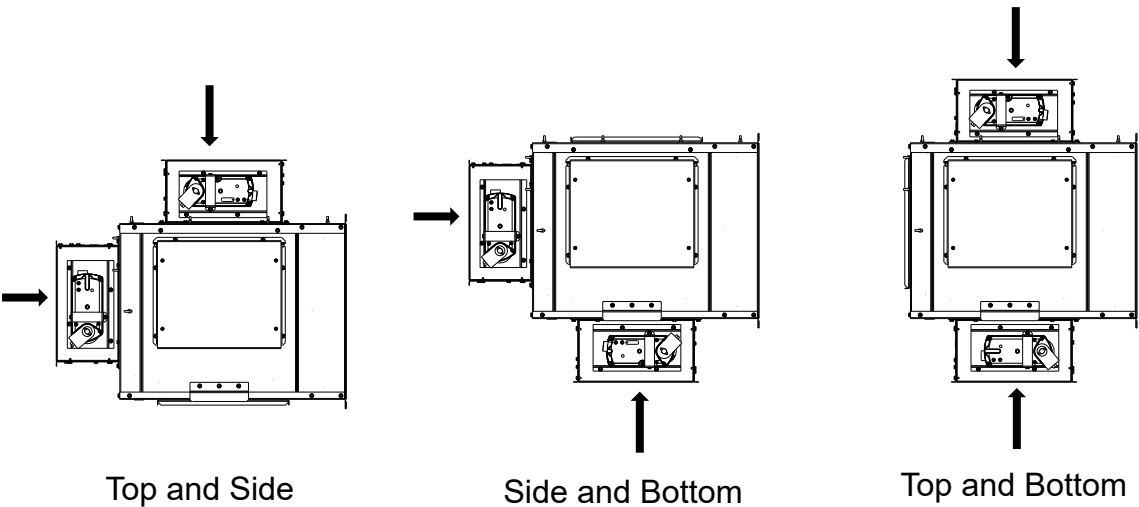
Configure Damper Position

The damper assembly is designed for flexible installation and can be attached or removed from the top, bottom, or front of the economizer based on customer requirements and available space.

This reconfigurable feature allows the damper assembly to be repositioned as needed, so it can be mounted in the most suitable location.

The control box offers placement flexibility and can be installed on either the left or right side of the economizer, depending on space constraints.

Figure 3. Economizer orientations views

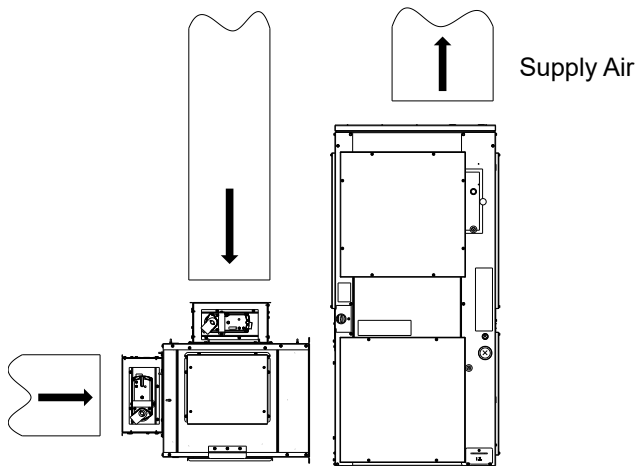


Recommended Installation Methods for Economizer Setup

Vertical Installation

The economizer is installed in a vertical orientation, with the fresh air damper located above the economizer section and the return air opening positioned on the front side of the economizer. This configuration is designed for effective outdoor and return air management, supporting proper ventilation and improved energy efficiency.

Figure 4. Vertical installation



Horizontal Installation

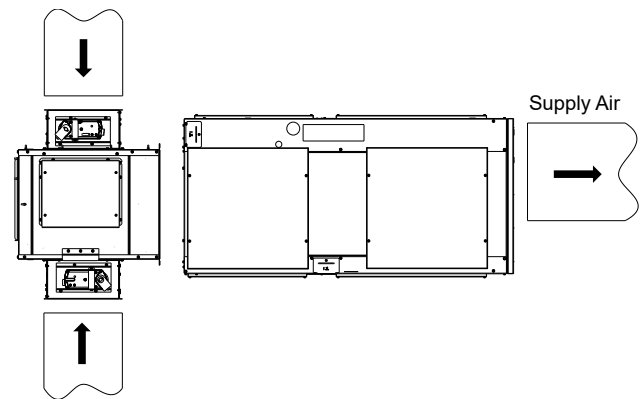
For the horizontal orientation of the economizer, the damper assembly arrangement can be selected based on the available duct provision and installation requirements. The economizer can be configured in multiple ways to suit field conditions and to confirm proper airflow management.

Note: When attaching to the ceiling, the economizer and ductwork must be fully supported by the ceiling structure and must not impose any additional load on the unit.

Top and Bottom Damper Arrangement

In this configuration, one damper assembly is attached at the top of the economizer and the other is attached at the bottom. This arrangement is suitable where duct connections are available on the top and bottom sides, allowing effective intake and return/exhaust air control.

Figure 5. Horizontal orientation with top and bottom damper arrangement



Side and Bottom/Top Damper Arrangement

In this configuration, one damper assembly is attached at the front side of the economizer and the other is attached at the bottom/top. This option is used when the duct provision requires front-side access along with a bottom/top connection, providing flexibility in installation while maintaining proper economizer operation.

Figure 6. Horizontal orientation with top and side damper arrangement

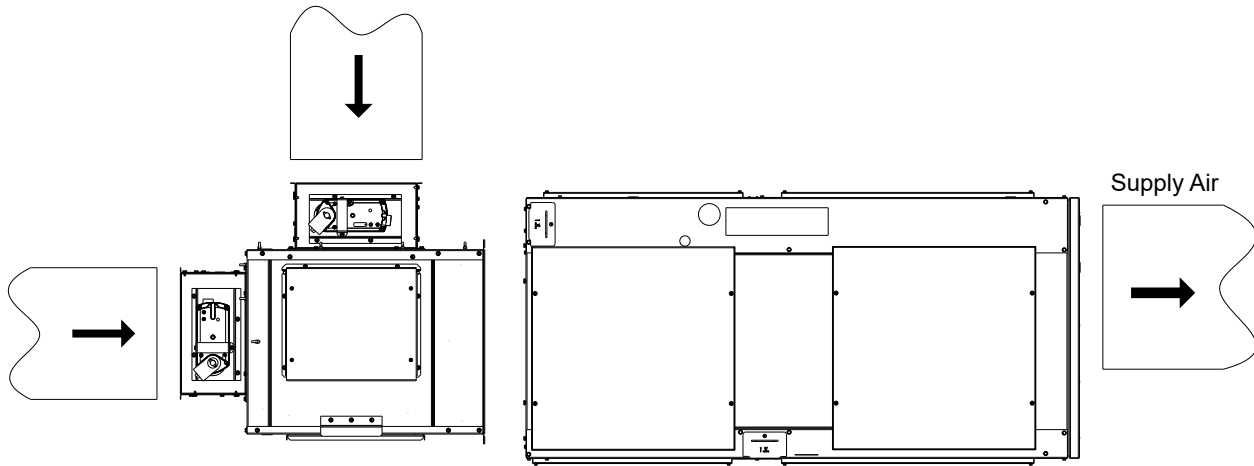
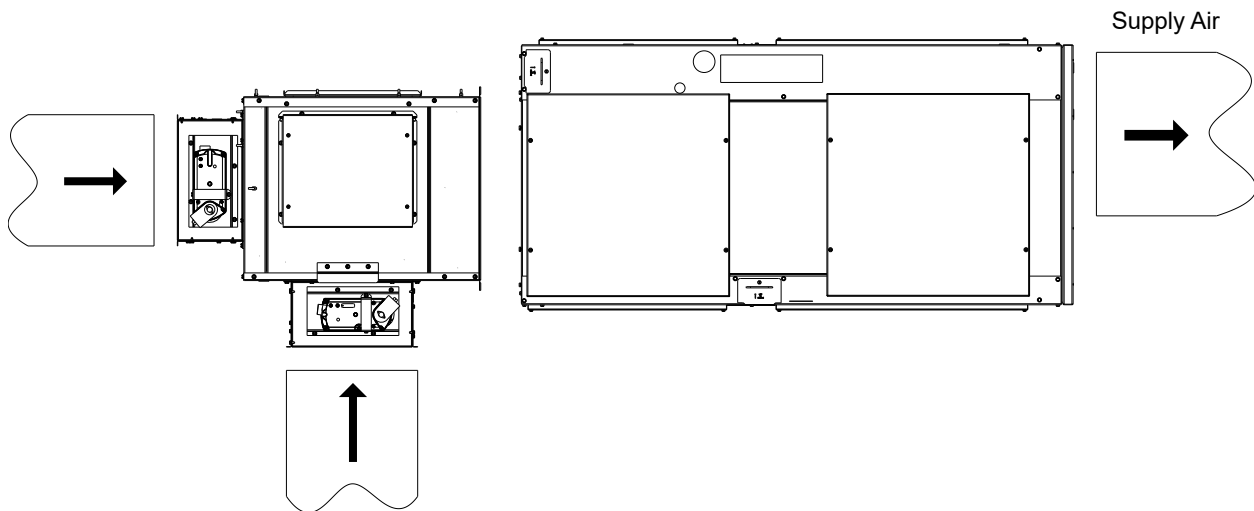


Figure 7. Horizontal orientation with side and bottom damper arrangement



Note: Confirm the damper assembly is positioned correctly, and that the fresh air damper, actuator, and wiring are installed properly, with the same done for the return air side.

Installation

Damper assembly is low leak type for this economizer and AMCA certified.

⚠ WARNING

Hazardous Service Procedures!

Failure to follow all precautions in this manual and on the tags, stickers, and labels 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 following instructions: Unless specified otherwise, disconnect all electrical power including remote disconnect and discharge all energy storing devices such as capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. When necessary to work with live electrical components, have a qualified licensed electrician or other individual who has been trained in handling live electrical components perform these tasks.

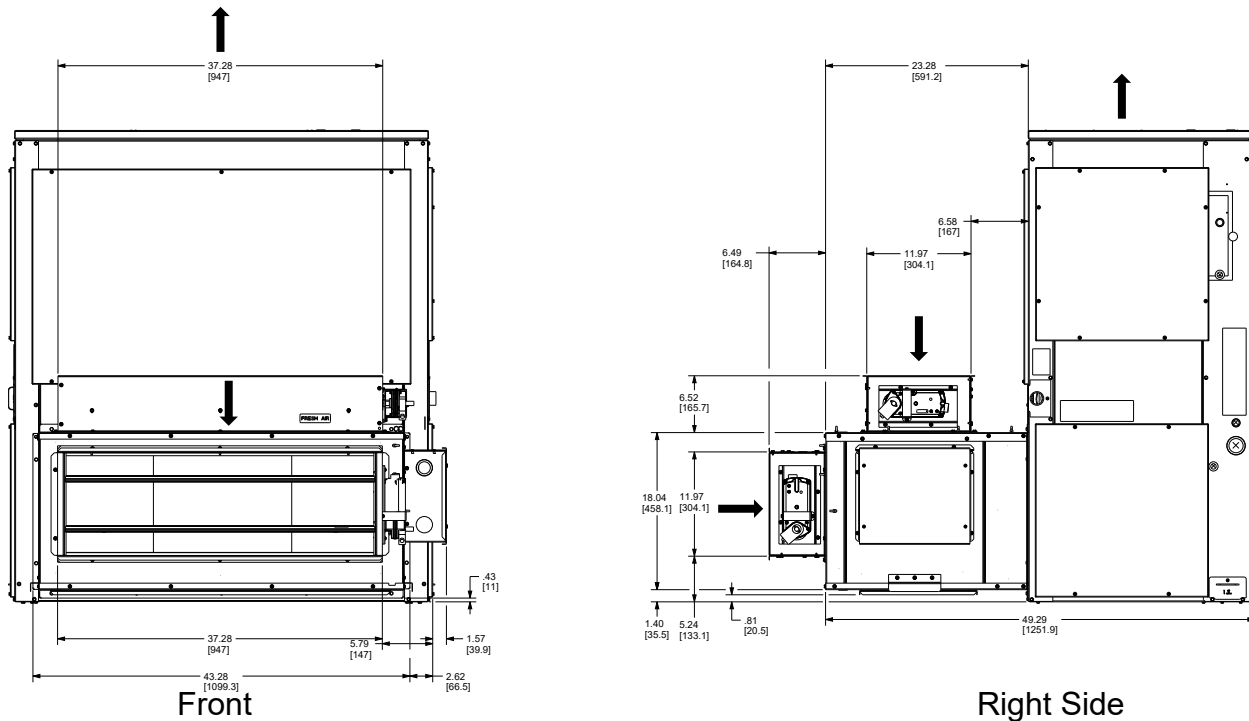
Pre-Installation

- Check Unit Clearance – Provide sufficient space for airflow clearance, wiring and servicing accessory after it is mounted on unit.
- Allow the following minimum clearance for serviceability:
 - Front and back – 24-in. (610 mm)
 - Sides – 22-in. (559 mm) for 5 to 10 ton units and 32-in. (813 mm) for 12.5 to 25 ton units

Note: See *Dimensional Data* for reference.

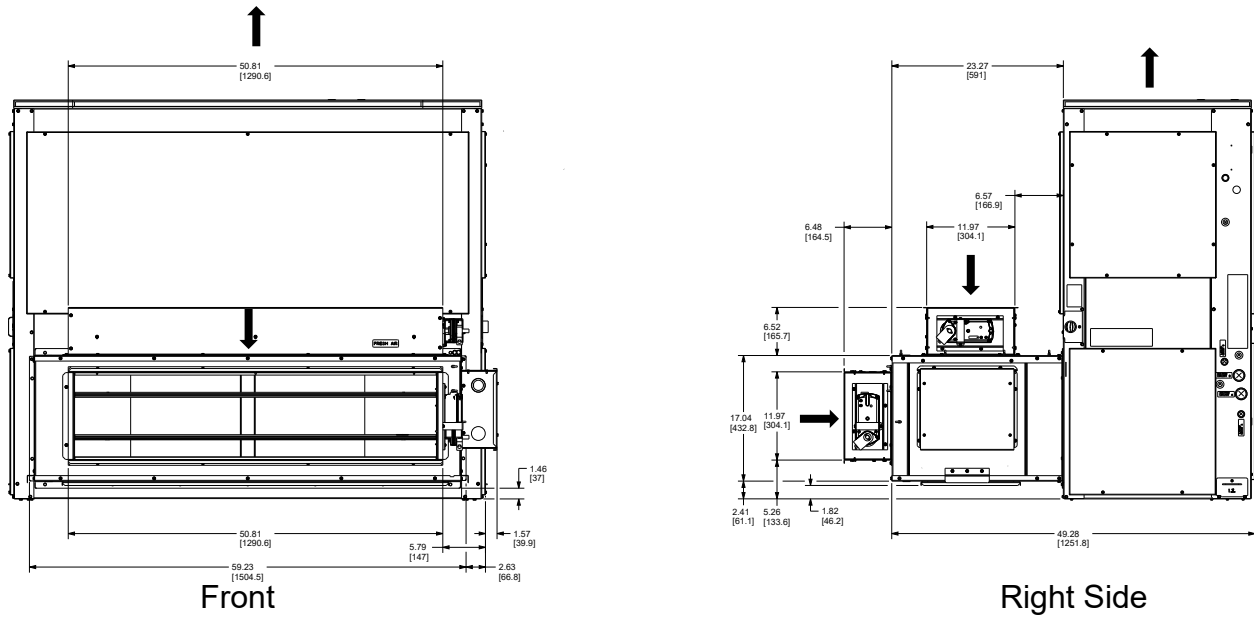
Vertical Installation

Figure 8. 6 to 7.5 ton economizer mounted on unit



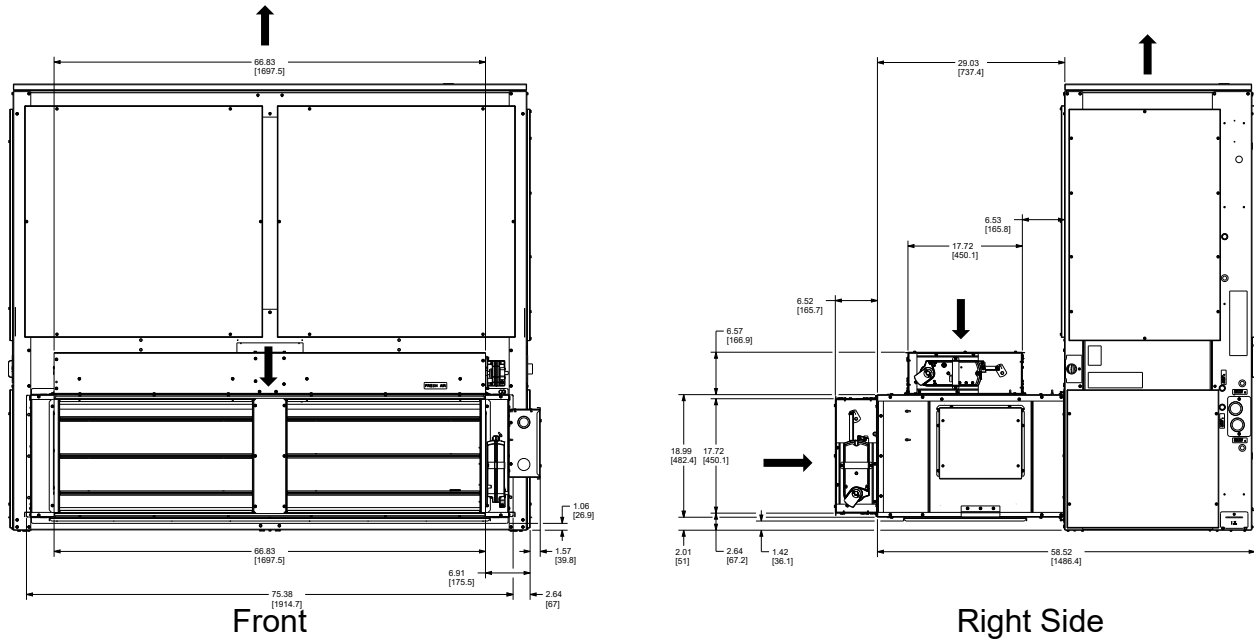
Note: Dimensions are in inches, () are in millimeters.

Figure 9. 10 ton economizer mounted on unit



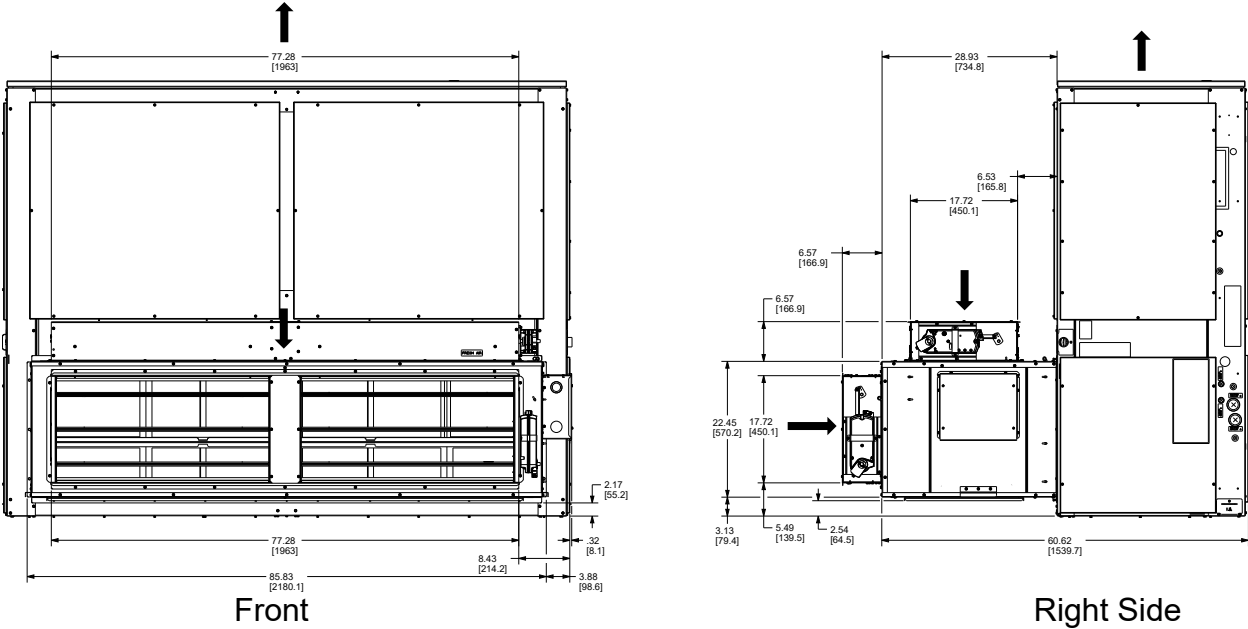
Note: Dimensions are in inches, () are in millimeters.

Figure 10. 12.5 to 15 ton economizer mounted on unit



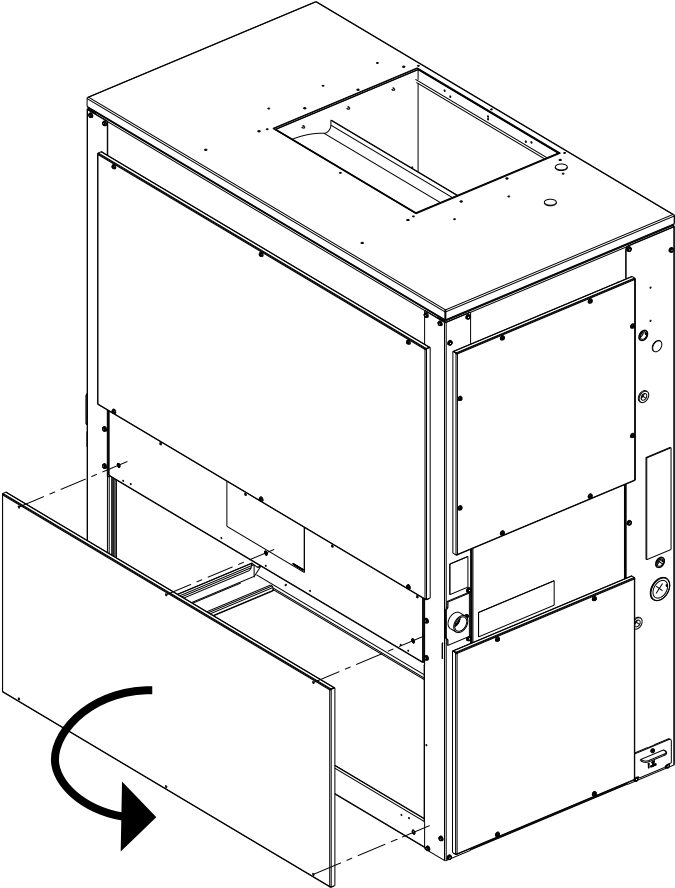
Note: Dimensions are in inches, () are in millimeters.

Figure 11. 20 to 25 ton economizer mounted on unit



Note: Dimensions are in inches, () are in millimeters.

Figure 12. Pre installation panel removal



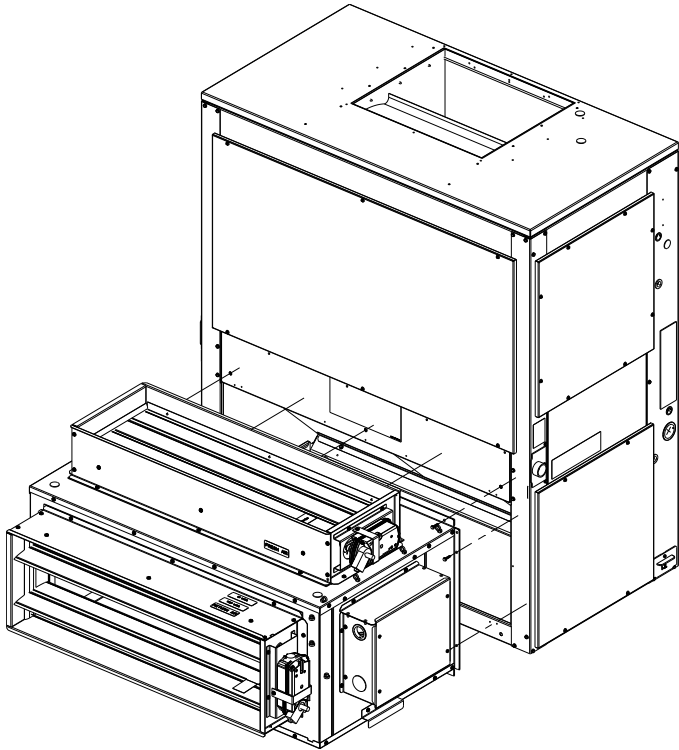
Note: When shipped, the RA Dampers are in the open position, and the OA Dampers are in the closed position. Provide support at the bottom of economizer of 3.12-in.

1. In the vertical orientation, remove side cover panel and cover bottom return opening then mount the economizer on the side return opening of the air handler. Confirm that the rear side of the economizer is properly aligned.
2. Remove the bag of fasteners and use them to secure all four flanges (three flanges in case it is supported from the bottom).

3. Once all holes are aligned, fasten the screws. Start with the horizontal flange holes and then secure the vertical flange ones.

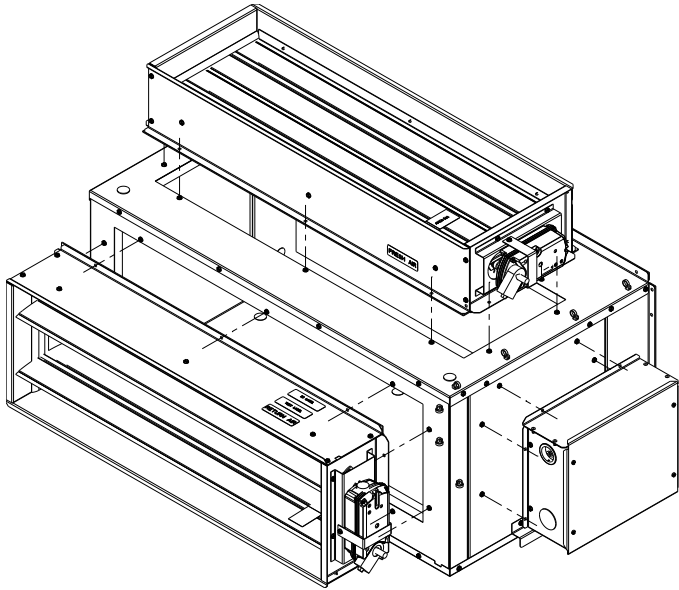
Note: Although minimum clearance is provided between the fresh air damper assembly and the flanges, if the installer has difficulty during mounting, remove the damper assembly first. Then attach the economizer frame and reinstall the damper assembly, confirming that the actuator is on the same side as the control box. Otherwise, performance issues may occur.

Figure 13. Installation of economizer



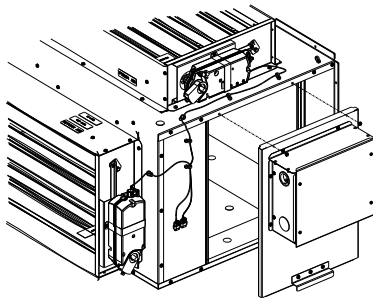
4. After securely attaching economizer, attach the control box at six locations as shown in figure below.

Figure 14. Installation of control box



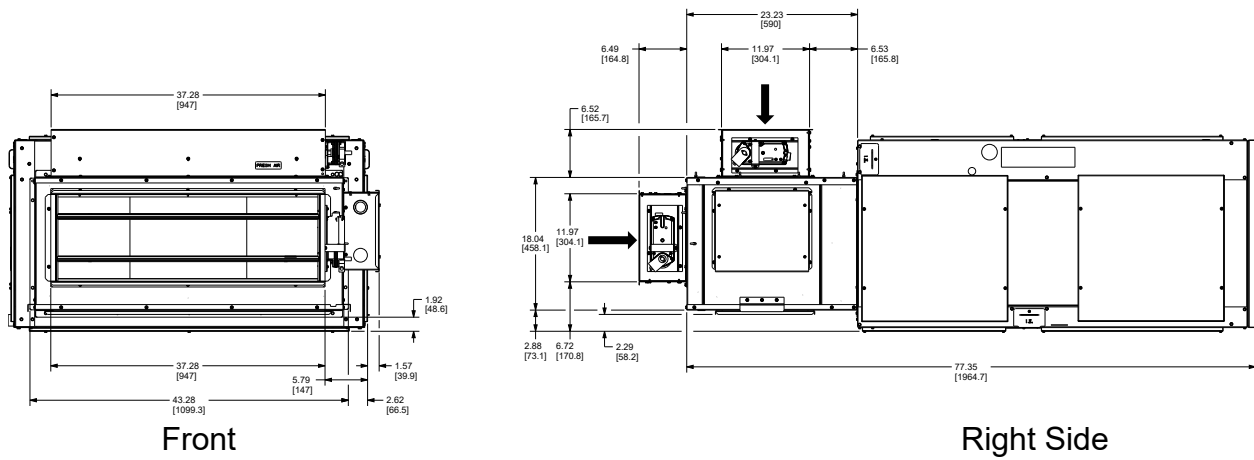
5. To relocate the control box to the opposite side due to clearance constraints:
 - a. Remove the access panel together with the control box.
 - b. Remove the access panel on the opposite side.
 - c. Install the control box and its access panel on the opposite side.
 - d. Place the other access panel on the original side to provide coverage.
 - e. Confirm the actuators are oriented towards the control box side.

Figure 15. Relocation of control box on either side



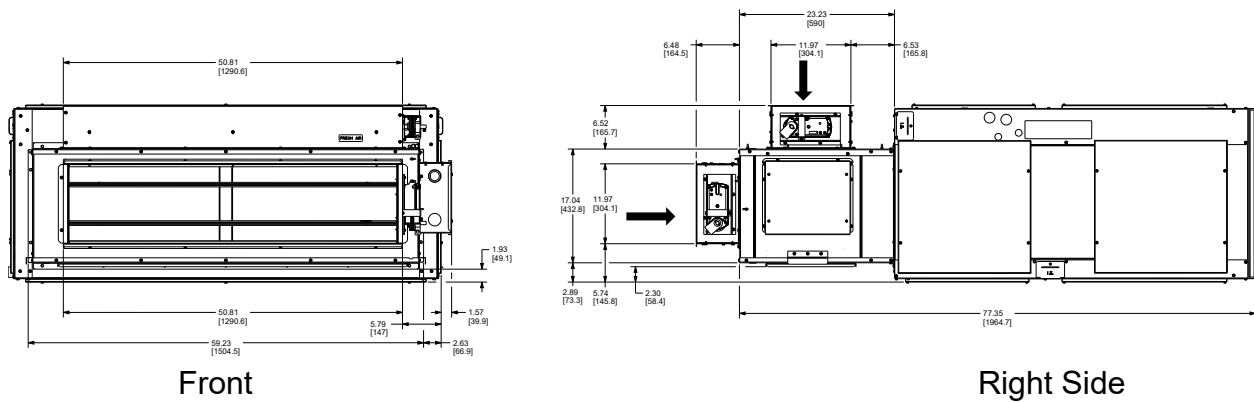
Horizontal Installation

Figure 16. 6 to 7.5 ton economizer mounted on unit



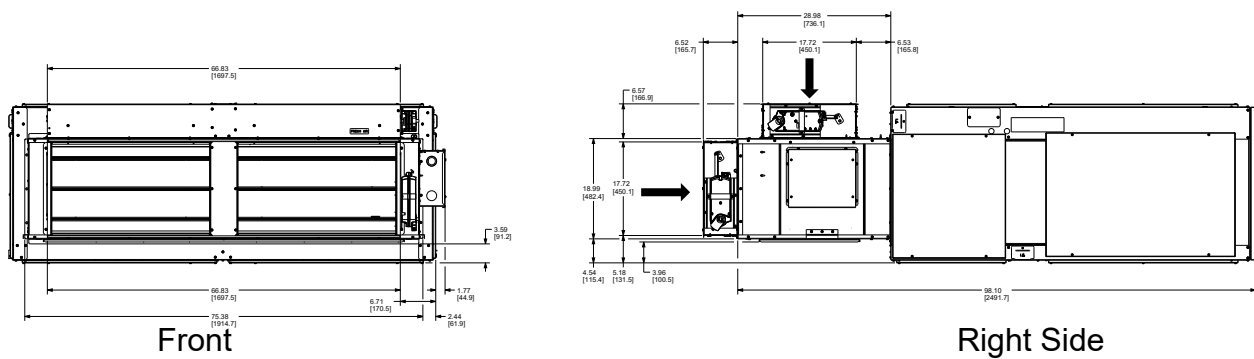
Note: Dimensions are in inches, () are in millimeters.

Figure 17. 10 ton economizer mounted on unit



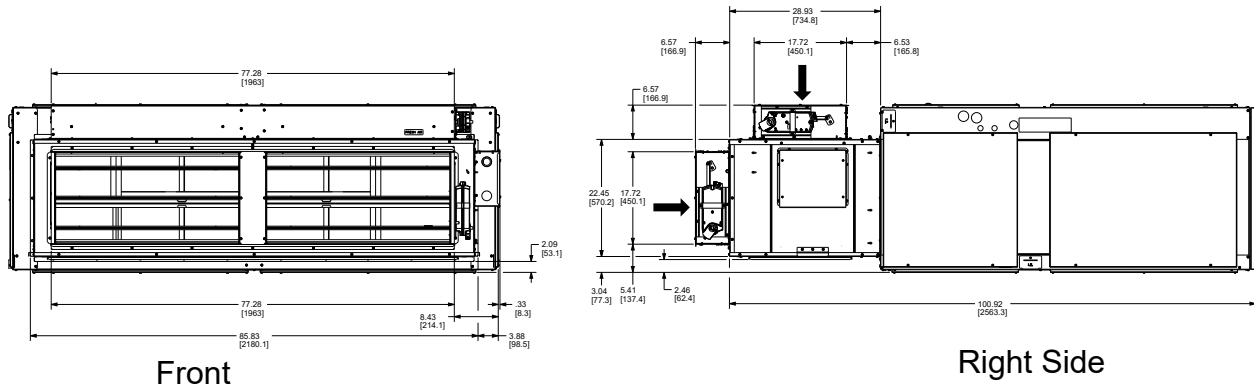
Note: Dimensions are in inches, () are in millimeters.

Figure 18. 12.5 to 15 ton economizer mounted on unit



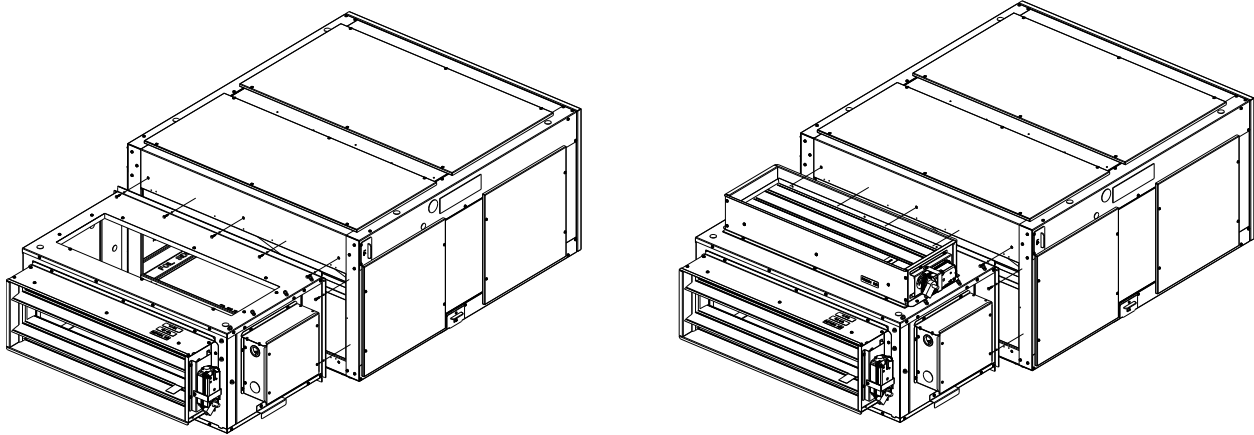
Note: Dimensions are in inches, () are in millimeters.

Figure 19. 20 to 25 ton economizer mounted on unit



Note: Dimensions are in inches, () are in millimeters.

Figure 20. Horizontal installation



1. Check the available clearance for mounting the economizer and positioning the control box.
2. Reposition return air damper, fresh air damper, and control box assembly according to customer requirements.
3. Align all screw hole locations and fasten the screws from all sides.

Note: The attachment or hanging of the economizer from the ceiling must be field provided. For ceiling mounted installations, a separate spring or rubber isolator can be ordered.

Table 4. Isolator accessories

Rubber Isolator	Used With
BAYISLT004*(blue)	TWE072, TWE090
BAYISLT005*(black)	TWE120
BAYISLT009*(red)	TWE150, TWE180
BAYISLT010*(green)	TWE240, TWE300
Steel Spring isolator	Used With
BAYISLT023*(red)	TWE072, TWE090, TWE120
BAYISLT024*(black)	TWE150, TWE180
BAYISLT025*(yellow)	TWE240, TWE300

Electrical Wiring

Vertical and Horizontal Routing

1. Route actuator pigtail with PPM87 and PPM97 connector through the bushing into the economizer control box and connect it to the PPF87 and PPF97 actuator control harness.
2. Route the actuator control harness connector J11 to the fresh air options module port P11 located in the economizer control box using the wire ties. Confirm the harness is away from all moving parts of the damper assemblies and has a secure connection.
3. Connect addressing plug to the fresh air options module J11 port. See [Figure 21, p. 17](#) for addressing plug connection.
4. See [Figure 22, p. 17](#) for actuator harness connection to the fresh air options module and see fresh air options module schematic for electrical connections.
5. Secure wires with wire ties.

Notes:

1. Confirm that the remaining unused hole in the economizer control box sheet metal, where no routing passes through, is properly closed with a bushing.
2. Once the address plug is connected to the board, the address dials do not need to be set.

Figure 21. Fresh air options module addressing plug

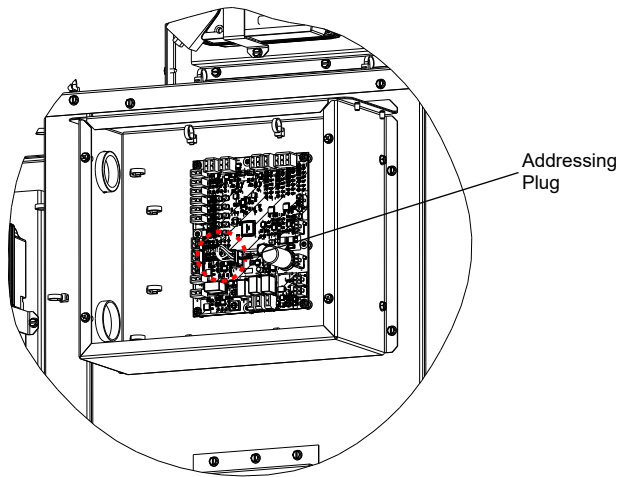


Figure 22. Actuator control harness routing – vertical/horizontal

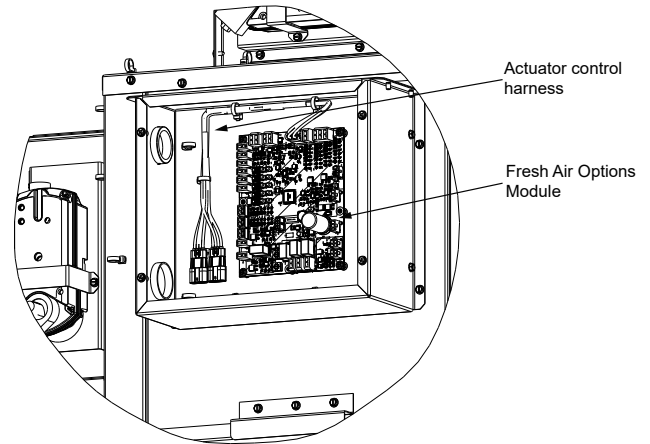


Figure 23. Actuator pigtails routing – vertical/horizontal

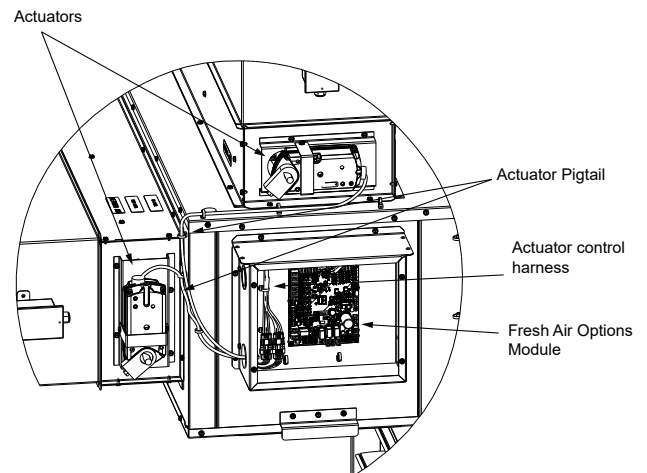
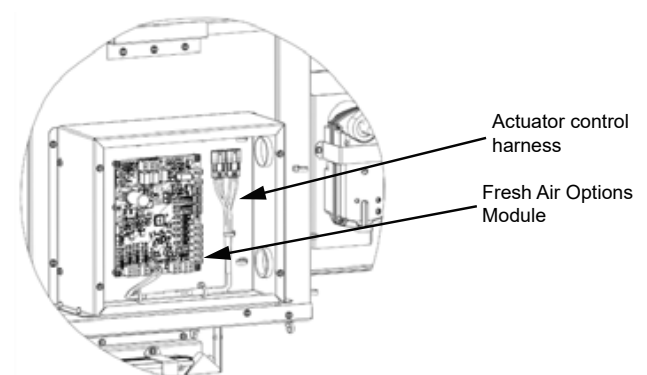


Figure 24. Actuator control harness routing – alternate path



IMC Harness Connection

Direct-Mount Economizer to Air Handler

1. Connect one end of the IMC harness to P4 on the Fresh Air Options Module located in the economizer.
2. Connect the opposite end of the IMC harness to P4 on the Indoor Options Module located in the air handler.
3. Secure the harness using wire ties as required.

Notes:

1. *While routing the IMC harness to the indoor option module in the AHU, remove the existing grommet from the control wiring hole and install a snap bushing in the same hole and wrap Armaflex insulation around the harness to ensure there is no air leakage.*
2. *Bundle and secure excess IMC harness near the economizer control box using zip ties. Confirm it is kept away from sharp edges and moving parts.*

Note: *If the remote-mount economizer is too far away and the existing IMC harness provided with the kit is not long enough, follow below instructions.*

Economizer Mounted Remotely with Duct Between Economizer and Air Handler

1. For remotely mounted economizer applications with ductwork between the economizer and air handler, use

two pigtail harnesses: one in the economizer control box and one in the air handler.

2. Connect the IMC pigtail harness to P4 on the Fresh Air Options Module in the economizer control box.
3. Connect the IMC pigtail harness to P4 on the Indoor Options Module in the air handler LV control box.
4. Connect the pigtails using Comlink cable with a PVC jacket, 18/1 PR, stranded shield, 25 PF/FT plenum rated harness through the Phoenix connectors (Comlink cable is available as Trane part numbers CAB01568, CAB01569, or BAYWRKT500*).
5. See [Figure 27, p. 20](#), [Figure 28, p. 20](#), and [Figure 29, p. 20](#) for IMC harness connection between economizer control box and AHU. See fresh air options module schematic for electrical connections.
6. Secure the IMC harness with adhesive-backed wire ties provided in the kit as required.

Notes:

- *Confirm the IMC harness from relay board P4 to Symbio™ condenser adapter board J15 is connected to the unit.*
- *Refer to the wiring table below for IMC harness connections for remote mount economizer.*

Wiring Requirements

Table 5. Recommended control wiring size and length

Wire Gauge	Maximum Wire Length (feet)
22	30
20	50
18	75
16	125
14	200

Figure 25. IMC pigtail harness vertical/horizontal and alternate – economizer control box

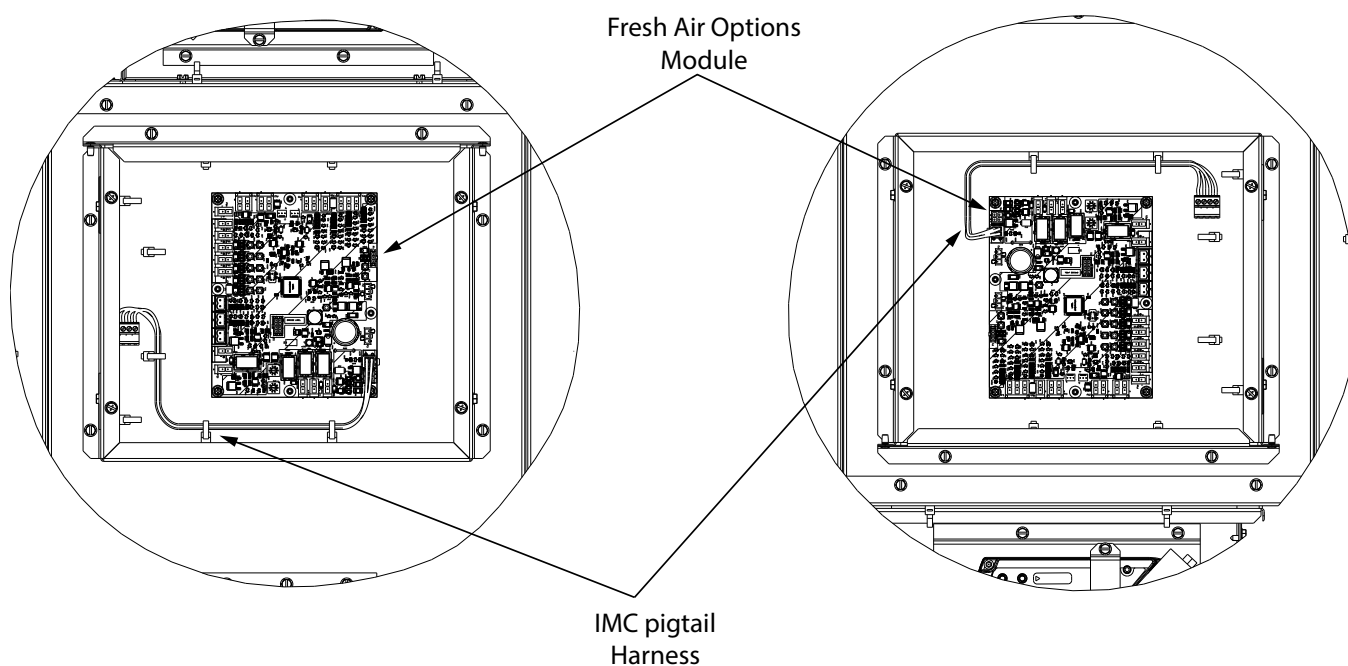


Figure 26. IMC pigtail harness vertical/horizontal and alternate — AHU control box

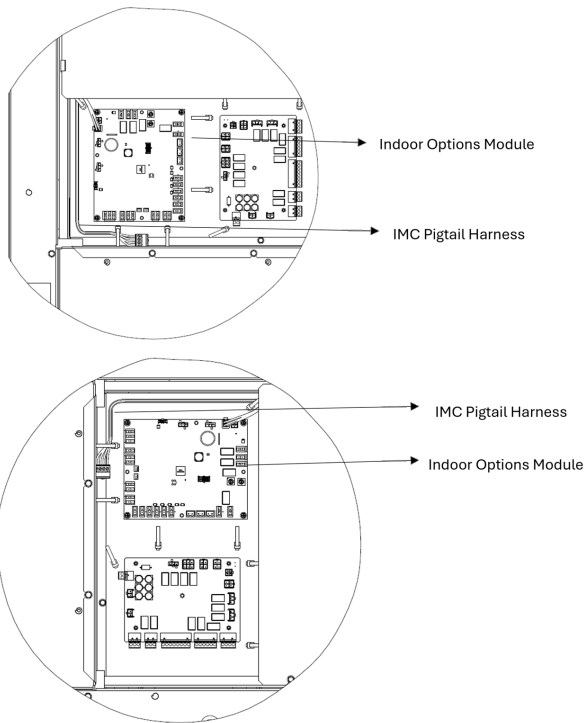


Figure 27. IMC harness routing vertical

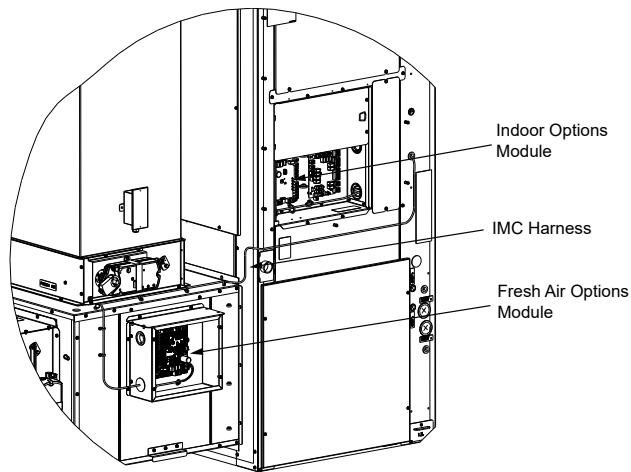


Figure 28. IMC harness routing horizontal view 1

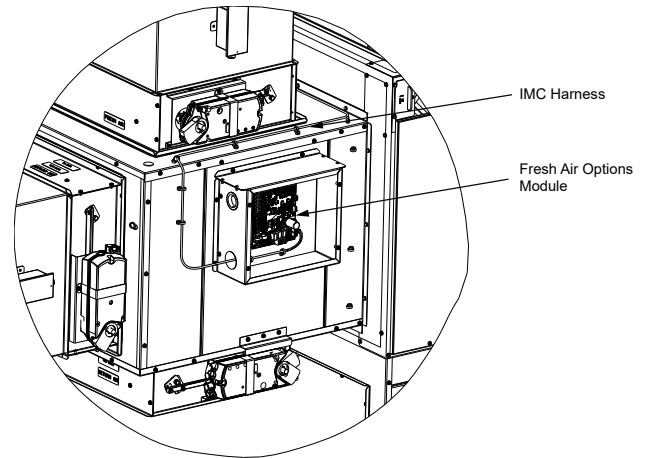
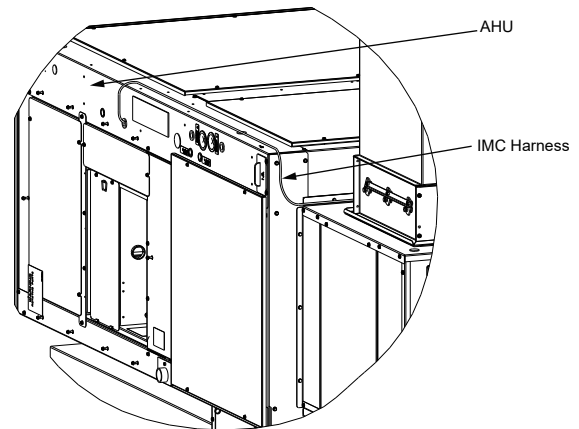


Figure 29. IMC harness routing horizontal view 2



Note: See Reference, Comparative, and Differential Dry Bulb Enthalpy for Economizer Odyssey™ with Symbio™ Controls Air Handler — 6 to 25 Tons – Installation Instructions (ACC-SVN332*-EN) for sensor installation based on the selected economizer configuration (Differential Dry Bulb, Reference Enthalpy, or Comparative Enthalpy).

For economizer components, use the transformer kits:

- BAYTFMR018*
- BAYTFMR019*
- BAYTFMR020*

For transformer connections:

- Disconnect the existing wiring from relay board port J10 and connect the 24 VAC control harness included in the transformer kit from the transformer to relay board port J10.
- Refer to the unit-specific relay board connection diagram for detailed wiring information.
- For complete transformer installation instructions, see ACC-SVN184*-EN, included with the transformer kit.

Settings

Minimum Position Setting

1. Apply power to the unit.
2. Using Service Test mode, through the Symbio™ 700 or mobile app, set the unit to Service Test step **Ventilation Low Fan Speed**.
3. Navigate to the **Settings > Fresh/Return Air** menu.
4. Set the Design Minimum OA Damper Position at **Min Fan Capacity** to the desired value.
5. Wait at least 30 seconds for the damper to settle at the new position. Range of damper for this setting is 0 to 100%.
6. Using Service Test mode, through the Symbio 700 or mobile app, set the unit to Service Test step **Ventilation Low Fan Speed**.
7. Navigate to the **Settings > Fresh/Return Air** menu.
8. Set the Design Minimum OA Damper Position at **Mid Fan Capacity** to the desired value.
9. Wait at least 30 seconds for the damper to settle at the new position. The range of the damper for this setting is 0 to 100%.
10. Using Service Test mode, through the Symbio 700 or mobile app, set the unit to Service Test step **Ventilation Low Fan Speed**.
11. Navigate to the **Settings > Fresh/Return Air** menu.
12. Set the Design Minimum OA Damper Position at **Full Fan Capacity** to the desired value.
13. Wait at least 30 seconds for the damper to settle at the new position. The range of the damper for this setting is 0 to 100%.
14. The damper will close when the blower circuit is de-energized.

Reference Enthalpy Settings

Economizer enthalpy changeover is field-selectable and has a range of 50°F to 140°F. The default is 60°F. This selection can be made by using the Symbio™ service and installation mobile app or through the Symbio 700 on-board UI.

Dry Bulb Settings

Economizer dry bulb changeover is field selectable and has a range of 50°F to 140°F.

Odyssey Economizer Control Options

Table 6. Odyssey economizer control options

Control Option	Enable Conditions	Option Sensor Required
Comparative Enthalpy	Outside Air Enthalphy Return Air Enthalpy — Econ Enthalphy Offset and Outside Air Temperature Economizer Drybulb Setpoint — Econ Drybulb offset	Outside Air Temperature Sensor
		Outside Air Humidity Sensor
		Return Air Temperature Sensor
		Return Air Humidity Sensor
Reference Enthalpy	Outside Air Enthalphy Return Enthalpy Setpoint — Econ Enthalphy Offset and Outside Air Temperature Economizer Drybulb Setpoint — Econ Drybulb Offset	Outside Air Temperature Sensor
		Outside Air Humidity Sensor
Dry Bulb	OA Temp Economizer Outdoor Air Enable Setpoint BAS — Economizer Drybulb Enable Offset — Economizer Dry Bulb Disable Offset	Outside Air Temperature Sensor
Differential Dry Bulb	OA Temp RA Temp — Economizer Dry Bulb Enable Offset — Economizer Drybulb Enable offset — Economizer Dry Bulb Disable Return Air Offset	Outside Air Temperature Sensor
		Return Air Temperature Sensor

Symbio 700 Configuration

Symbio Mobile App:

1. From the Home screen, tap **Settings**.
2. At the top of the Settings page, tap **View Configuration**.
3. At the top right corner of the Configuration page, tap **Edit**.
4. In the configuration menu, select **Outside Air > 0 to 100% Economizer** and tap **Save** in the top right corner.
5. In the configuration menu, select **Economizer Type > Dry Bulb > Reference Enthalpy > Differential Dry Bulb** or **Comparative Enthalpy**. Tap **Save**.
6. In the configurations list, if installed, select **Demand Control Ventilation > Enable**. Tap **Save**.
7. In the configurations list, if installed, select **Remote Minimum Position > Installed**. Tap **Save**.
8. On the **Edit** screen and tap **Save**.
9. Restart the Symbio 700 controller.

Symbio 700 on-board display:

1. From home screen, navigate to the **Utilities** menu, and press the **check** button.
2. Select **Utilities > Unit Config** menu, and press the **check** button.
3. Select **Unit Config > Edit Unit Config** menu, and press the **check** button.
4. Select **Edit Unit Config > Outside Air**, and press the **check** button.
5. Select **0 to 100% Economizer**, and press the **check** button.
6. The Economizer Type displays. Press the **check** button.
7. Select **Dry Bulb, Comparative Enthalpy, Differential Dry Bulb**, or **Reference Enthalpy**, and press the **check** button.
8. Demand Control Ventilation displays. Press the **check** button.
9. Select **Not Installed** or **Installed**, and press the **check** button.
10. Remote Minimum Position displays. Press the **check** button.
11. Select **Not Installed** or **Installed**, and press the **check** button.
12. When all configurations are saved, restart the Symbio 700 controller.

For additional information or technical support, scan the QR code below to access the help center.

Figure 30. QR - Trane light commercial support



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