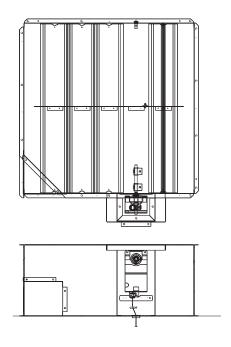


Installation Instructions

Low Ambient Kit Commercial Air Conditioners



ASAFETY 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

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:

AWARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

ACAUTION

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

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.

AWARNING

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.

AWARNING

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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AWARNING

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

Removed legacy IPAK units.



Table of Contents

Overview 5
Kit Inspection 5
Actuator Specifications 5
Electrical Ratings 5
Installation
Location 7
Units without Low Ambient Dampers 7
Units with Low Ambient Dampers 7
Mounting the Actuator Control Panel 9
Condensing Temperature Sensor Installation10
Low Ambient Damper Wiring 11
Low Ambient Damper Control Panel 11
Connecting the Condenser Sensor Wires . 12
Actuator Setup
Actuator Checkout
To Check Damper Operation 14



Overview

Note: One copy of this document ships inside each kit and is customer property. It must be retained by the unit's maintenance personnel.

This manual is divided into four sections. Each section provides the installer and/or operator with specific installation, setup, and checkout procedures describes for the low ambient damper(s), actuators, and controls. The kit is equipped with an electronic control module and actuator which operates independent of the refrigerant system.

Before attempting to operate or service this equipment, refer to the "Actuator Setup," p. 13 and "Actuator Checkout," p. 14 procedures in this manual and the applicable Installation, Operation and Maintenance manual, listed on the unit nameplate.

Important:

The procedures discussed in this manual should only be performed by qualified, experienced HVAC technicians. Do not release refrigerant to the atmosphere! If adding or removing refrigerant is required, the service technician must comply with all federal, state, and local laws.

Kit Inspection

Each kit includes necessary hardware to install the low ambient damper system. Using Table 1, p. 5, verify the appropriate kit(s) for the unit being converted has been ordered. See Table 1, p. 5 to confirm kit contents. Verify there

is no damage prior to starting the installation. Contact the Trane Parts Center if there is damage or missing components.

Actuator Specifications

The ML728 damper actuator is a direct coupled, non-spring return device. It is designed to drive the damper shaft either clockwise (closed damper position) or counterclockwise (opened damper position) depending on the Input signal. The actuator is shipped from the factory in the full counterclockwise (opened) position.

Electrical Ratings

• Power Input: 24 VAC, 50/60 Hz

· Torque Ratings at Rated Voltage:

Lift and Hold Minimum: 44lb-in. (5 N-m)

Breakaway Minimum: 44lb-in. (5 N-m)

Stall Minimum: 44lb-in. (5 N-m)

- Stall Maximum: 58lb-in. (6.5 N-m)

 Actuator Stroke: 95 degrees nominal +/- 3 degrees, mechanically limited.

· Actuator Timing at 90 degree Stroke: 90 seconds.

 Ambient Temperature Rating: -22°F to +122°F (-30°C to +50°C).

Table 1. Unit conversion kits

Kit		Refrigerant		Unit Tonnage	Parts List	
Number ^(a)	Rated Voltage	Circuit	Used With Unit		Qty	Description
					1	Control Panel (Voltage Specific)
					1	Control Panel Mounting Bracket
					1	Electronic Damper Actuator
					1	Actuator Cover w/ Top
Kit-3938	200/230 Volts 60 Hz 3 Phase	Circuit #1	CAUJ, RAUJ	C20 - C30	1	1/2" X 9" Damper Shaft
Kit-3939	460/575 Volts 60 Hz 3 Phase	Circuit #1	CAUJ, RAUJ	C20 - C30	1	Actuator Template
Kit-3940	380/415 Volts 50 Hz 3 Phase	Circuit #1	CAUJ, RAUJ	C20 - C30	1	Sensor
					1	Sensor Clip
					1	Tube of Thermal paste
						Insulation Tape
						Misc. Hardware and Wire
					1	1/4" Flare Cap
					1	1-1/2" Snap Bushing



Overview

Table 1. Unit conversion kits (continued)

Kit	Refrigerant Rated Voltage Circuit	Refrigerant Circuit				Parts List
Number ^(a)			Used With Unit	Unit Tonnage	Qty	Description
Kit-3942	All Voltages 50 & 60 Hz 3 Phase	Circuit #2	CAUJ, RAUJ	C40 - D121		Electronic Damper Actuator
					1	Actuator Cover w/ Top
					1	1/2" X 9" Damper Shaft
					1	Actuator Template
					1	Sensor
					1	Sensor Clip
					1	Tube of Thermal paste
						Insulation Tape
						Misc. Hardware and Wire
					1	1/4" Flare Cap
					1	1-1/2" Snap Bushing

⁽a) Kit numbers listed are Service Parts Order Numbers and do not include the low ambient damper assembly.



The following procedures are broken down into five parts:

- Damper actuator installation single and dual circuit units
- Actuator control panel installation kit dependent
- Saturated condensing temperature sensor installation single and dual circuit units
- Electronic actuator wiring
- Actuator setup and checkout

By carefully reviewing the information within this manual and following the instructions, the risk of improper operation and/or component damage will be minimized.

Location

Before installing the actuator, confirm the location is;

- □ Not subject to escaping gas or other explosive vapors that could accidentally be ignited by a spark from the actuator or the attached parts.
- ☐ Free from acid fumes or other deteriorating vapors that could attack the metal parts.

Units without Low Ambient Dampers

Low ambient dampers are available for field installation. The damper assembly must be mounted over the appropriate condenser fan. Refer to the appropriate unit illustration in Figure 1, p. 8 for damper mounting orientation and location.

To install the damper assembly over the fan:

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.

- Confirm all power to the unit has been turned Off and the disconnect switch is locked in the Open position.
- 2. Remove the fan guard and place the damper assembly over the appropriate fan opening.
- Position the actuator mounting side of the assembly in the position illustrated in Figure 1, p. 8.

Note: On units with three condenser fans, the angle indention on the damper assembly must be positioned to allow clearance of the adjacent fan.

- Secure the damper assembly in place using the screws removed from the fan guard.
- 5. With the damper assembly installed, follow the instructions in the next section.

Units with Low Ambient Dampers

Low Ambient Damper Actuator

The direct coupled damper actuator utilizes a single-point mounting arrangement which is accomplished by mounting the actuator onto the damper shaft and installing the anti-rotation bracket.

Refer to the following figures and steps to mount the actuator on the damper assembly.

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.

- Confirm all power to the unit has been turned Off and the disconnected switch is locked in the Open position.
- Remove the compressor access panels and backseat the liquid line service valve.
- Remove the old actuator cover, actuator, and associated tubing.
 - Do not vent the refrigerant.
- 4. Install and tighten the flare cap onto the liquid line access port once the old actuator tubing has been removed.

Note: If condenser fan cycling switches are located on the liquid line service valve, open the valve 1/4 turn off backseat.

- Reposition the damper assembly (units with four or more fans.)
 - a. Remove the screws that hold the damper assembly to the unit
 - Rotate the damper assembly so the damper actuator; when it is mounted, is positioned as illustrated in Figure 1, p. 8.
- Remove the old damper shaft by loosening the two shaft clamps on the damper blade. Slide the new damper shaft into position and retighten the clamps.
- 7. From the kit, remove the actuator mounting template illustrated in Figure 2, p. 9, and:
 - As illustrated in the template, slide the shaft hole over the damper shaft.
 - b. Align the slightly larger hole in the template over the damper bushing.
 - c. Hold the template in place and mark the three lower holes.



- d. Drill the three holes using a 3/16-inch bit. Do not install the anti-rotation bracket.
- To make the actuator control cable access hole, refer to Figure 2, p. 9:
 - a. Drill a 1-1/2-inch diameter hole directly beneath the damper shaft and out approximately 2-1/2-inches from the damper assembly wall. The position of this hole should be to the outside of the condenser coil sheetmetal blockoff. On three condenser fan applications, this hole will be located beside the condenser coil area.
 - b. Insert the snap bushing into the access hole from the top of the unit.
- 9. Locate the actuator cover, illustrated in Figure 3, p. 9:
 - a. Assemble the two pieces together.
 - b. Position cover against damper assembly, and mark two bottom anchor holes.

- Set the cover aside and drill the holes using a 3/16-inch drill bit. Do not install the cover until the final checkout is completed.
- 10. If the unit being converted is a dual circuit system, repeat steps 2 through 9 for the low ambient damper assembly on circuit 2.
- To install the new damper actuator, illustrated in Figure 4, p. 9:
 - a. Slide the actuator onto the new damper shaft (installed in step 6). Do not tighten the actuator clamp to the shaft.
 - Install the anti-rotation bracket by inserting the mounting bracket tab into the actuator slot.

Note: The mounting bracket must not bind or clamp the actuator to the damper assembly. The mounting bracket is used to prevent the actuator housing from rotating.

12. Secure the bracket into place using two mounting screws.

Figure 1. Damper assembly mounting orientation and locations

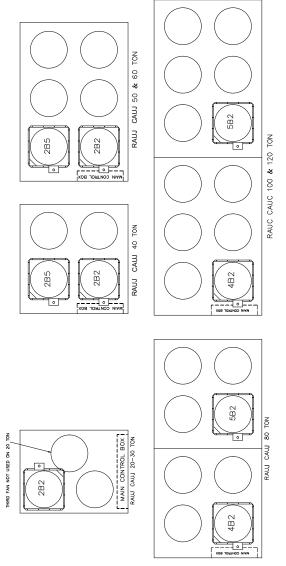
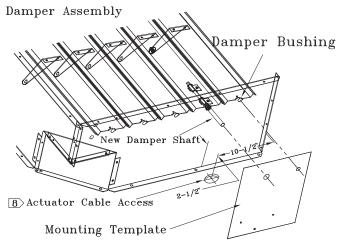


Figure 2. Actuator cover assembly



8 INSTALL SNAP BUSHING IN \emptyset 1.500 HOLE IN TOP OF UNIT BENEATH ACTUATOR TO ROUTE WIRES THROUGH. IF HOLE IS NOT AVAILABLE, DRILL \emptyset 1.500 HOLE.

Figure 3. Actuator cover assembly

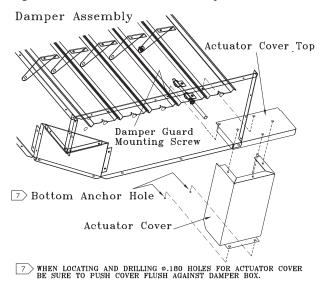
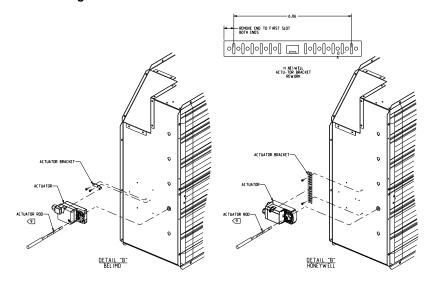


Figure 4. Actuator mounting



Mounting the Actuator Control Panel

Only one control panel is required for single or dual circuit units. Refer to Table 1, p. 5 to determine if a control panel is required. The actuator control panel may be mounted on the back of the main unit control panel, condenser coil sheetmetal blockoff, condenser bulkhead, or on special mounting bracket; depending on unit type and size. Refer to Figure 5, p. 10 and Figure 6, p. 10 for the mounting location for the unit being converted. Use the following steps to mount the actuator control panel.

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. Remove the appropriate panels to allow access to the actuator control panel installation location.



Note: On units that require the mounting bracket, use the mounting bracket as a template.

- 2. Use the control panel mounting feet as a template for drilling the mounting holes.
 - Hold the control panel (or bracket, if required) in the desired mounting location and mark the holes.
 - b. Drill the mounting holes using a 3/16-inch drill bit.

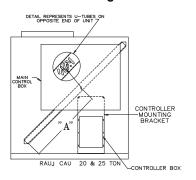
NOTICE

Equipment Damage!

When drilling into the unit control panel, heater enclosure, or condenser bulkhead, use extreme caution not to penetrate existing wiring and/or components.

c. Attach the control panel to the mounting surface using 1/4-20 x 1/2-inch screws.

Figure 5. Actuator control panel locations for 20 through 30 ton units



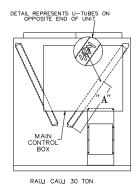


Figure 7. Saturated condensing temperature clip/sensor

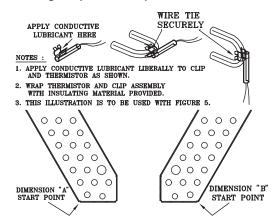
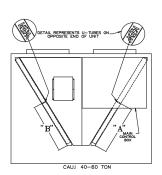
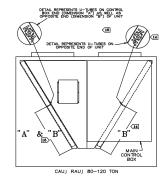


Table 2. Condenser coil sensor location

Unit Size	Unit Type	Sensor Location - Ckt #1 "A"	Sensor Location - Ckt #2 "B"
20	RAUJ, CAUJ	39	"None
25	RAUJ, CAUJ	39	"None
30	RAUJ, CAUJ	27-5/8	"None
40	RAUJ, CAUJ	32-1/8	"32-1/8"
50	RAUJ, CAUJ	48-1/8	"48-1/8"
60	RAUJ, CAUJ	28-1/8	"28-1/8"

Figure 6. Actuator control panel locations for 40 through 130 ton units





Condensing Temperature Sensor Installation

Figure 2, p. 10 lists dimensions from the base of the coil tube sheet to desired tube for each circuit. Figure 5, p. 10 and Figure 6, p. 10 illustrate location of the condenser temperature sensor for single and dual circuit applications. With sensor mounting position located, see Figure 7, p. 10 and the following steps to mount the sensor.

- Apply conductive lubricant liberally to the inside area of the clip/sensor assembly as shown.
- 2. Install clip/sensor assembly on the appropriate U-bend and secure with wire tie (supplied).
- 3. With insulation (supplied), wrap clip/sensor assembly completely to prevent surrounding air temperatures from biasing saturated condensing temperature reading.

Table 2. Condenser coil sensor location (continued)

Unit Size	Unit Type	Sensor Location - Ckt #1 "A"	Sensor Location - Ckt #2 "B"
80	RAUJ, CAUJ	32-1/8	"32-1/8"
100	RAUJ, CAUJ	48-1/8	"48-1/8"
120	RAUJ, CAUJ	28-1/8	"28-1/8"

Low Ambient Damper Wiring

AWARNING

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.

AWARNING

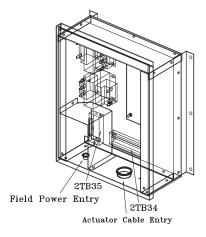
Proper Field Wiring and Grounding Required!

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.

Before installing any connecting wiring, refer to Figure 8 for the electrical access locations provided on the actuator control panel and the terminal board locations.

Figure 8. Low ambient damper control panel



For field connection of the line voltage wiring in the main unit control panel and the actuator control panel, refer to the wiring diagram illustrated in Figure 10, p. 12 and Figure 11, p. 13 with the wiring diagram that shipped in the unit.

Field wiring for the line voltage to the control panel should be 14 gauge minimum.

- Connect the field provided power wiring for the actuator control panel to the appropriate condenser fan contactor terminals inside the main control panel. Refer to the wiring diagram illustrated in Figure 10 and Figure 11 with the wiring diagram that shipped in the unit.
- Insert the field provided power wiring from the main control
 panel into the bottom of the actuator control panel and
 connect the wires to the appropriate terminals on terminal
 board 2TB35. Refer to Figure 8 for the wire entry access
 and terminal board location; and Figure 10, p. 12 and
 Figure 11, p. 13 for terminal designation.

Low Ambient Damper Control Panel

AWARNING

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.

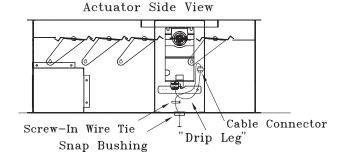
Connecting the Actuator Control Cable

- Locate the kit provided control cable and insert it (plug end) up through the cable access hole in the top of the unit and plug the actuator pigtail into the control cable plug.
- 2. Create a drip leg as illustrated in Figure 9, p. 12 and secure the cable to the damper assembly using the 3/16-inch hole and the screw-in wire tie with a #10-16 x 3/4-inch screw.
- 3. Route the actuator control cable from the damper assembly to the control panel.
 - a. 20 Ton through 30 Ton units route the control cable from the damper assembly by following the condenser fan power wires.
 - 40 tons and larger route the control cable from the damper assembly by following the compressor power wires along the unit base.
- 4. Insert the cable through the bottom of the control panel and connect the wires to the appropriate terminals on terminal board 2TB34. Refer to Figure 8, p. 11 for the wire entry access and Figure 10, p. 12 and Figure 11, p. 13 for terminal designation.



a. On units utilizing the number 2 actuator, the 24 VAC wires are connected to the same terminals as actuator number 1, i.e. Brn to 2TB34-8 and Blk to 2TB34-3.

Figure 9. Actuator control cable hookup



Connecting the Condenser Sensor Wires

AWARNING

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.

AWARNING

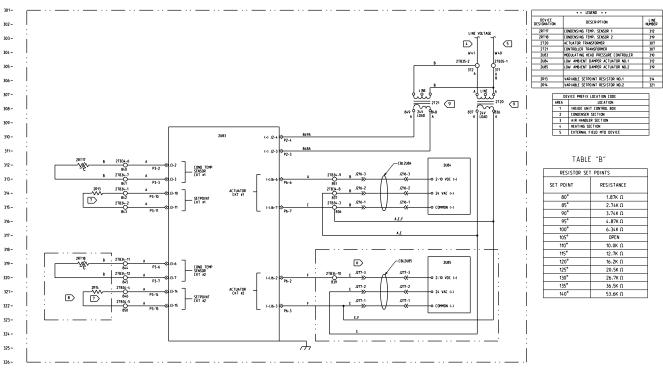
Proper Field Wiring and Grounding Required!

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.

- 1. Routing the sensor wires:
 - Sensor farthest away from control panel: Route sensor leads down coil tube sheet and across bottom of unit to control panel.
 - Sensors nearest to control panel: Route leads directly to control panel.
- Connect circuit 1 sensor wires to terminals 6 and 7 on terminal board 2TB34. See Figure 10, p. 12 and Figure 11, p. 13.
- Connect circuit 2 sensor wires (if applicable) to terminals 11 and 12 on terminal board 2TB34. See Figure 10 and Figure 11, p. 13.

Figure 10. Low ambient schematic wiring diagram for all units



LOW AMBIENT ACTUATOR CONTROL PANEL 328 -OPTIONAL ACTUATOR 329 330 -6 9 332 -333 334 -10 10 J217 10 10 336 -230V/575V/60HZ 380V/415V/50HZ 338 -339 -2RT 17 340 -8 342 -345 -347 -8 6 LOW AMBIENT ACTUATOR NO.2 (2005) AND ASSOCIATED CABLE WIRES REQUIRED FOR 40-130 TON UNITS ONLY. 349 -

Figure 11. Low ambient connections diagram for all units

Actuator Setup

NOTICE

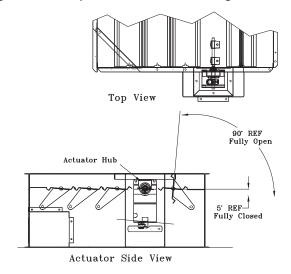
Actuator Damage!

Do not depress actuator clutch while actuator is energized as it could result in actuator damage.

The actuator should be in the full clockwise (closed) position. To align the actuator hub in the correct fully closed position, refer to Figure 12 and follow the steps below.

- 1. With the actuator clamp loose, depress the actuator clutch button on the lower left side of the actuator and rotate the hub clockwise to the fully closed position.
- 2. Holding the low ambient dampers in the fully closed position, tighten the actuator clamp.
- 3. Set the direction switch on the actuator to **1** for the Belimo actuator, or **10...2V** for the Honeywell (switch rotated to the fully clockwise position).
- 4. Install the actuator cover (assembled earlier) on the damper assembly by removing the center damper guard screw and sliding the top of the cover between the grill and sheetmetal flange. Reinstall the grill screw and use 1/4-20 x 1/2-inch screws for the remaining three holes. Refer to the illustration in Figure 3, p. 9.

Figure 12. Damper actuator and blade alignment





Actuator Checkout

The controller has a factory default setpoint of 105° F. This setpoint can be adjusted by installing a field supplied 1/4 watt resistor on 2TB34 in the low ambient control panel. Refer to Table 3 for the resistance verses setpoint values and Figure 10, p. 12 and Figure 11, p. 13 for the appropriate terminals.

Inspect the damper blades for proper alignment and operation. Dampers should be in the closed position during the Off cycle. If adjustment is required, follow the previous steps in the "Actuator Setup," p. 13 section.

Table 3. Resistance versus setpoint values

Set Point Degrees	Resistance Ohms
80	1.87K
85	2.74K
90	3.74K
95	4.87K
100	6.34K
105	Open
110	10.0K
115	12.7K
120	16.2K
125	20.5K
130	26.7K
135	36.5K
140	53.6K

To Check Damper Operation

AWARNING

Live Electrical Components!

Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

When it is 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.

- 1. Remove the sensor leads from the input terminals 6 and 7 for circuit #1 and/or 11 and 12 for circuit #2.
- Jumper between the sensor input terminals 6 and 7 and/or 11 and 12 (if applicable). Controller output signal will go to 10 VDC and the damper will drive to the full open position, when power is restored.
- 3. Turn the main power disconnect switch **On** and verify that the dampers drive to the full open position.

Important: High voltage is present at terminal block 1TB1
OR unit disconnect switch 1S14.

4. Remove the jumper between the sensor input terminals 6 and 7 and/or 11 and 12 (if applicable). Controller output

- signal will go to 0.0 VDC and the damper will drive to the closed position.
- Turn the main power Off and remove all jumpers and reconnect all sensor leads.
- Replace actuator control panel cover, unit access panels, etc.
- 7. Restore the unit to the Operational status.



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