

Installation Instructions

Low Static Drive Kit

Foundation™ Packaged Rooftop Units

15 to 25 Tons

Model Number: BAYLSDR300*
BAYLSDR302*

Used With: E/GCC180-300A3,4,W
EAC180-270AD

 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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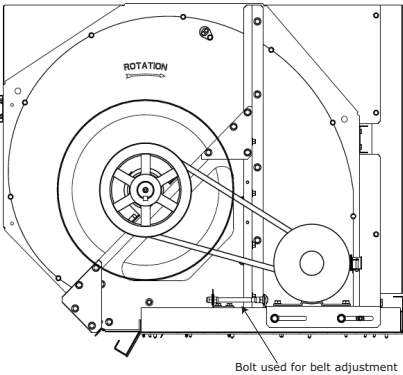
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2. Compare the order number on the shipping label with the accessory identification information on the ordering and shipping documents to verify that the correct accessory has been received.

Parts List

Table 1. Parts list

Qty	Description
1	Fan sheave for G/ECC180A3,4,W
1	Motor sheave and Fan sheave for G/ECC210-240A3,4,W
1	Motor sheave for GCC300A3,4,W
1	Belt
1	Accessory label

Figure 1. Indoor motor assembly




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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 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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Installation

Refer to [Figure 1](#) when reading these instructions.

 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 a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

 NOTICE


Equipment Damage!
Proper adjustment of the fan belt is important to ensure optimal unit operation. Over tightening or under tightening the fan belt can result in belt slippage and excessive wear, bearing damage, sheave misalignment, and possible failure of fan motor mounts.

- Ensure that all power to the unit has been disconnected and locked off.
- Remove the evaporator fan access panel.
- Loosen the locknut and tension adjustment bolt on the motor plate assembly and remove the belt. See [Figure 1](#). A belt tightening instruction label is glued to the motor mounting plate.
- Remove the existing:
 - Fan sheave for G/ECC180A3,4,W
 - Motor and fan sheave for G/ECC210-240A3,4,W
 - Motor sheave for GCC300A3,4,W
- Install:
 - The replacement fan sheave for G/ECC180A3,4,W
 - The motor and fan sheaves for G/ECC210-240A3,4,W
 - The motor sheave for G/ECC300A3,4,W
- Adjust the motor sheave to the proper turns open for the required RPM to produce the desired airflow. Refer to [Table 2](#) and [Table 3](#) for the sheave data.

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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 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.**

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- Check the alignment between the fan and motor sheaves using a straight edge. Adjust as necessary. Torque the fan and motor sheave set screws to 126 to 165 inch pounds (14.2 to 18.6 N-m).
- Torque the motor securing bolts to 144 to 151 inch pounds (16.3 to 17.1 N-m).

 NOTICE

Equipment Damage!
Proper adjustment of the fan belt is important to ensure optimal unit operation. Over tightening or under tightening the fan belt can result in belt slippage and excessive wear, bearing damage, sheave misalignment, and possible failure of fan motor mounts.


 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 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.

9. Adjust the tension of the fan belt. The correct operating tension for a V-belt fan drive is the lowest tension at which the belt will not slip under peak load conditions. The locknut should be tightened sufficiently to ensure that the motor plate assembly maintains the desired belt tension.


Note: The new V-belts tend to stretch after having been placed in operation. Periodically check the tension of the belt.

10. Being careful not to touch any electrical or moving parts, close the unit disconnect switch, and check the unit supply fan for minimum vibration.

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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

- Model number updates in Used With information.
- Updated [Table 1](#) and [Table 2](#) data in Installation section.

General Information

The low static kit may be used when the required CFM can not be delivered with the standard motor and sheaves. Refer to [Table 3](#) for proper selection of sheave and belt based on desired fan speed (RPM).

Inspection

- Inspect the shipping carton and its contents. Check for concealed damage before it is stored or used. If any damage is found, report it immediately, and file a claim against the transportation company. Replace damaged parts with authorized parts only.

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11. Open and lock the disconnect switch in the off position.

12. Replace all panels.

13. Close the unit disconnect switch.

Table 2. Standard motor and low static drive accessory sheave / fan speed (rpm)

Tons	Unit Model Number	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
15	E/G*C180A3,4,W	488	523	558	592	627	662	N/A
17.5	E/G*C210A3,4,W	560	596	632	668	703	739	N/A
20	G*C240A3,4,W	627	672	717	762	806	851	N/A
	E*C240A3,4,W	538	574	609	645	681	717	N/A
25	G*C300A3,4,W	838	891	943	995	1048	1100	N/A
	E*C300A3,4,W	729	775	821	866	912	957	N/A

Note: Factory set at 3 turn open.

Table 3. Low static drive kit components

Tons	Unit Model Number	Fan Sheave	Motor Sheave	Belt
15	G/ECC180A3,4,W	BK105	–	BX48
	EAC180AD	BK160	–	BX58
17.5	GCC210A3,4,W	BK160	1VP34	BX58
	ECC210A3,4,W	BK160	1VP34	BX58
	EAC210AD	BK130	1VP34	BX52
20	GCC240A3,4,W	BK160	1VL40	BX58
	ECC240A3,4,W	BK160	1VL34	BX58
	EAC240AD	BK130	–	BX54
22	EAC270AD	BK130	–	BX54
25	GCC300A3,4,W	–	1VP44	BX56
	ECC300A3,4,W	BK160	1VP44	BX60

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