

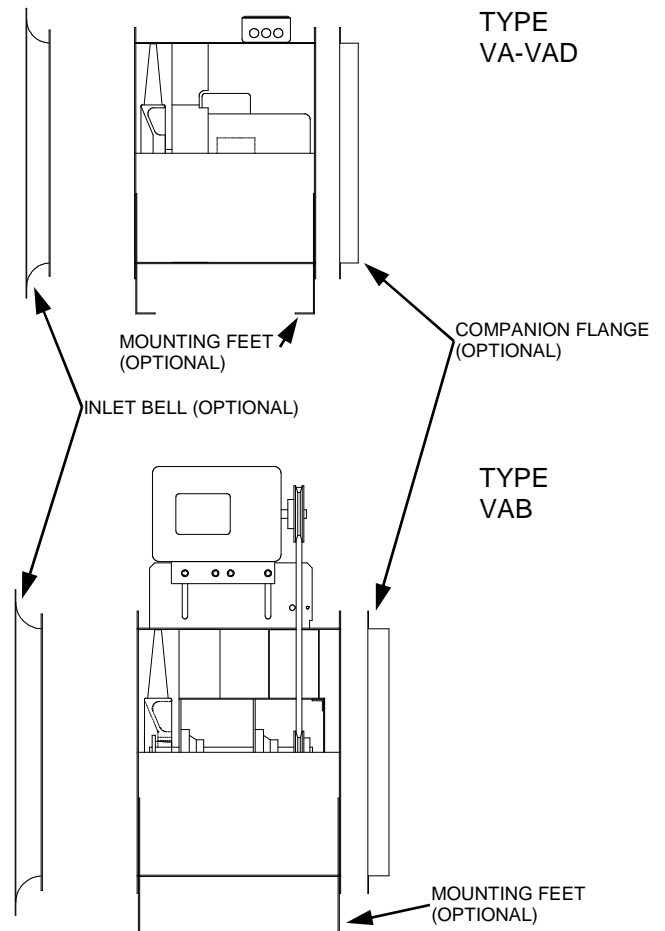
Installation Instructions for Type VA-VAD-VAB Duct Fans

OPERATION AND MAINTENANCE INSTRUCTIONS -- REVERSE SIDE

1. **Pre-Installation Check of Fan.** Before installation of an American Coolair fan, a careful inspection should be made for any concealed shipping damage which may affect operation of the unit. If damage is found, contact and file a claim immediately with the delivering carrier. On belt drive units, pulley alignment and belt tension should be checked (see the reverse for further information). Before connecting to power source, make sure propeller turns freely without striking duct or any foreign object. Check motor nameplate to be sure correct phase and voltage are being used. Note direction arrow adjacent to rotor and make sure rotation is correct when power is applied.

2. **Installation Procedures.**

- (a) **Duct Connections.** The American Coolair duct fan has flanged ends for convenient mounting directly in the duct work. Flexible connections or transition pieces may be utilized. If the intake end of the fan is non-ducted, be sure to use an inlet bell with guard for personnel safety and to avoid loss of capacity.
- (b) **Motor Position and Wiring.** From an operating standpoint, the American Coolair duct fan and motor may be mounted in any position. For convenience in wiring and service, the motor should be readily accessible.
- (c) **Mounting Feet (Optional Accessory).** For model sizes 6 and 7, the fan may be mounted to the duct work without additional support. For larger sizes, the fan must be supported. If the fan cannot not be adequately supported by duct work or otherwise, mounting feet should be used. Type and location of mounts furnished will be based on customer's information as to type of support available (floor or ceiling).



NOTE: All local, state and federal codes should be checked to make sure all wiring, guarding and intended usage of the fan unit(s) comply with all applicable codes. The proper type, class of fan and motor should be used for air being handled such as explosive or hazardous air mixtures.



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Operation and Maintenance Instructions for Type VA-VAD-VAB Duct Fans

INSTALLATION INSTRUCTIONS -- REVERSE SIDE

1. **Fan Cleaning and Adjustment.** The entire fan assembly has very close tolerances and should be cleaned as necessary to remove accumulated dust, dirt and other foreign matter, which may collect on the rotors or other parts. Access to fan through duct work is essential for proper cleaning. On belt drive models, belt(s) should be inspected and tension adjusted (see below). Belt alignment should also be checked to avoid excessive wear and premature failure. This same inspection of belts and adjustments of tension should be made after the first 8-10 hours of usage following installation. If rust or corrosion is found anywhere on the fan, the affected area should be thoroughly cleaned and refinished.
2. **Belt Replacement, Tension and Adjustment.**
 - (a) To change belt(s), loosen motor bracket bolts and tension adjustment bolts and remove belt(s) from motor and fan pulleys. Install new belt(s) and adjust as indicated below. When replacing belt(s), do not roll new belts(s) over pulleys under tension. This practice can damage belt(s) severely.
 - (b) To tension belt(s), place a finger midway between the motor pulley and fan pulley and push belt(s) inward about 1/2" (at approximately 5 lb. force) for proper tension. To adjust tension, loosen motor bracket bolts and use tension adjustments bolts to obtain correct belt tension. Be sure to retighten motor bracket bolts to maintain proper belt tension. Recheck alignment of belts between motor pulley and fan pulley. **CAUTION:** Use of tension adjustments bolts makes it easy to overtighten belt(s). When this occurs, belt(s), motor and fan bearings will fail. Do not over tension.
3. **Adjustment of Fan Speed and Air Volume.** On belt drive models with a variable pitch motor pulley, fan speed and air flow can be regulated via a pulley adjustment. *Motor capacity must be carefully checked before any increase in fan speed is made.*
4. **Lubrication.** Fan bearings on belt drive models are factory lubricated for extended service. External grease fittings are optional for fan bearings on all belt drive models. Relubrication annually or more frequently is recommended. For best results, use Shell Alvania No. 3 lubricant or equivalent. For lubrication of electric motors, see instructions supplied by motor manufacturer.
5. **Repair Parts.**
 - (a) **Belts.** Replacement belts for belt drive units are standard V-belts used on industrial machines. Replacements may be obtained through local industrial supply houses. If more than one belt is used on the fan, be sure to replace with matched sets. To install belt(s), see instructions above for belt replacement.
 - (b) **Bearings.** Replacement bearings may be obtained through local industrial supply houses or by contacting local representative.
 - (c) **Motor.** Motor repairs should be performed only by an authorized motor repair station. Contact the motor manufacturer, local representative or American Coolair for location of repair station.

Caution: *Do not return damaged or defective parts to American Coolair without prior authorization. If repairs under warranty are claimed, see warranty terms in American Coolair catalog or contact the factory in Jacksonville, Florida. Claims for warranty repairs to electric motors should be made directly to the motor manufacturer.*



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