

Installation Instructions for Type MB Fan Packages

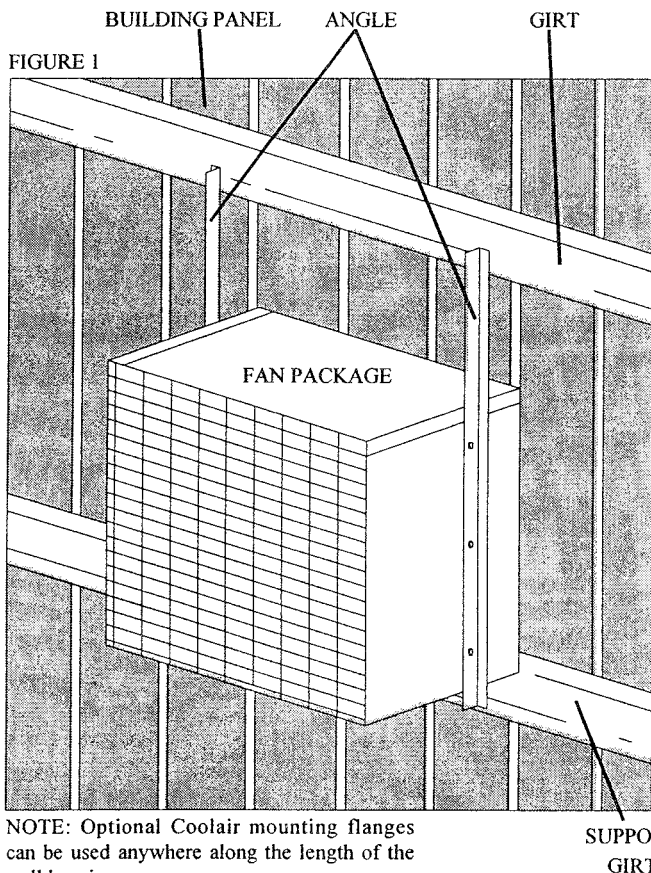
OPERATION AND MAINTENANCE INSTRUCTIONS - OTHER SIDE

1. Pre-Installation Check of Fan Package.

Before installation of an American Coolair fan package, a careful check should be made for shipping damage which may affect operation of the unit. If damage is found, file a claim immediately with delivering carrier. Check pulley alignment and belt tension (see paragraph 2 under Operation and Maintenance). Before connecting the power source, check motor nameplate to be sure of the correct phase and voltage. Make sure the propeller turns freely without striking the fan frame or any foreign object. Note the direction arrow adjacent to the propeller and make sure the rotation is correct when power is connected.

2. Installation Procedures. Type MB fan packages are shipped completely assembled with shutter, housing, fan and guard for quick, easy installation.

(a) Simply place the fan package on a supporting girt, on the inside of the building, and push the fan package against the outside skin.



NOTE: Optional Coolair mounting flanges can be used anywhere along the length of the wall housing.

SUPPORT GIRT

(b) Then, cut an opening in the building panel slightly larger than the shutter frame and smaller than the fan housing (see WALL OPENING dimensions below). Push the shutter through the opening. Note: Opening should be 2-1/8" from the top of the supporting girt. This dimension is on the basis that the wall housing will be on the girt - not resting on the bolt heads, and this dimension applies to all sizes.

(c) Next, attach two pieces of angle (supplied by others), one on either side of the fan housing, from the support girt to the girt above (see Figure 1). Fasten the fan housing to the angle with 6 self-drilling, self-tapping sheet metal screws (3 per side). Attach the building panel to the fan housing above the shutter.

(d) Finally, flash and caulk around the shutter opening to suit the building panel. Of course, a licensed electrician should be contracted for the electrical connection.

DIMENSIONS

SIZE	B(1)				WALL OPENING
	A	LRW	S/SR	C	
24	26 7/8	27	28 3/8	32 3/8	28 7/8 X 28 7/8
30	26 7/8	33	34 3/8	38 3/8	34 7/8 X 34 7/8
36	32 5/8	39	40 3/8	44 1/2	40 7/8 X 40 7/8
42	32 5/8	45	46 3/8	50 1/2	46 7/8 X 46 7/8
48	32 5/8	51	52 3/8	56 7/8	52 7/8 X 52 7/8
54	32 5/8	57	58 3/8	62 7/8	58 7/8 X 58 7/8
60	32 5/8	---	64 3/8	69	64 7/8 X 64 7/8

Dimension A is the length of the wall housing.

Dimension B is the OD of the shutter frame.

Dimension C is the OD of the wall housing, including hardware.

(1) LRW shutter is used on most models.

S/SR shutter used on higher flow models.

Refer to page 5 of American Coolair Form No. 530-15-6 for shutter usage by fan model.

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 and class of fan and motor should be used for air being handled such as explosive or other hazardous air mixtures.



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Operation and Maintenance Instructions for Type MB Fan Packages

INSTALLATION INSTRUCTIONS - OTHER SIDE

1. **Cleaning and Adjustment.** The entire fan package should be cleaned as necessary to remove accumulated dust, dirt and other foreign matter which may collect on the blades or other parts. When cleaning and servicing unit, it is necessary to remove the guard. Propeller, motor and belt(s) are then accessible. Belt(s) should be inspected and tension adjusted (see paragraph 2 below). Belt alignment should also be checked to avoid excessive wear and premature failure. This same inspection of belts and adjustment of tension should be made after the first 8-10 hours of use and periodically thereafter. If rust or corrosion are found anywhere on the fan package, the affected area should be thoroughly cleaned and refinished.

2. Belt Replacement and Tensioning.

(a) For belt replacement, detach entire blade assembly from frame by removing the two bolts which connect shaft to X-brace. Tilt or lift blade assembly just enough for belt to clear end of shaft. If fan location makes detachment difficult, it may be possible to remove old belt and replace new one by slipping belt over blade tips - one at a time. By first loosening bolts which connect shaft to X-brace, this procedure is made easier. When replacing belts, do not roll new belts over pulleys under tension. This practice can damage belts severely.

(b) To check belt tension, place a finger midway between fan pulley and motor pulley and push belt inward about 1/2" (at approximately 5 lb. force) for proper tension. To adjust tension, loosen motor bracket bolts and tap bracket up or down as necessary. Retighten all motor bracket bolts to maintain proper tension. Recheck alignment of belt, motor pulley and fan pulley.

3. **Fan Speed Adjustment.** Most units are equipped with adjustable pitch motor pulley. The pitch setting made at the factory operates the fan at the maximum safe load for the motor. Do not close pulley to increase fan speed as this will overload motor and cause damage to motor or motor trip-out. Pulley may be opened to reduce fan speed and thus decrease CFM. If further information is required, contact your American Coolair representative.

4. **Lubrication.** Fan bearings are factory lubricated for extended service. Relubrication as a part of regular maintenance is not necessary. For lubrication of electric motor, see instructions supplied by motor manufacturer.

5. Repair Parts.

(a) **Belts** - Belts are standard V-belts used on industrial machines and replacements may be obtained through local industrial supply houses. To install belt, see instructions in paragraph 2 for belt replacement.

(b) **Blades** - If one or more blades on propeller are damaged, it is recommended that entire blade assembly be removed and returned to the factory for necessary repair and rebalancing. Remove shaft from X-brace on fan frame and return the complete propeller, bearing assembly and shaft. For convenience in shipment, individual blades may be removed from the wheel.

(c) **Bearings** - Field replacement of bearings is not recommended. Disassemble and return entire blade assembly to the factory for repairs.

(d) **Motor** - Motor repairs should be performed only by an authorized motor repair station. Contact the motor manufacturer 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 at Jacksonville, Florida. Claims for warranty repairs to electric motor should be made directly to the motor manufacturer.*

WARNING

CAUTION



DO NOT INSTALL FAN WITH MOVING PARTS WITHIN 8 FEET OF FLOOR OR GRADE LEVEL WITHOUT A GUARD THAT COMPLIES WITH OSHA REGULATIONS. **DO NOT** USE UNLESS ELECTRICAL WIRING COMPLIES WITH ALL APPLICABLE CODES. **DO NOT** WIRE WITHOUT PROVIDING FOR A POWER SOURCE DISCONNECT AT THE FAN ITSELF. **DO NOT** SERVICE EXCEPT BY A QUALIFIED MAINTENANCE TECHNICIAN AND ONLY AFTER DISCONNECTING THE POWER SOURCE. FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.



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