

Installation, Operation & Maintenance Instructions for Type UD Propeller Fans

INSTALLATION

1. **Dimensions of Wall or Other Opening for Mounting Fan.** The Type UD fan is designed for all angle usage. It may be mounted in any position. When face-mounted to a wall, the wall opening should be approximately 2" less than O.D. of the fan panel. If the fan panel is to be recessed into the wall opening, the opening should be approximately 1/4" larger than O.D. of fan panel.

2. **Air Exhaust or Air Supply Usage.** The Type UDU fan can be assembled for either exhaust or supply usage. Prior to installation, check arrangement to be sure it is correct for your application. Most UDU models may be converted from exhaust to supply, or vice versa, in the field. This is accomplished by reversing fan mounting panel, propeller and motor rotation. Most UDU models may be electrically reversed for temporary or emergency use. Fan will not perform efficiently when electrically reversed. UDP models cannot be assembled for supply or converted from exhaust to supply, nor can they be electrically reversed.

3. **Pre-Installation Check of Fan.** Before installation of fan, check carefully for shipping damage which may result in blade misalignment, deformed parts or other damage. If damage is found, file a claim immediately with delivering carrier. Before connecting to power source, check motor nameplate to be sure of correct phase and voltage. Make sure propeller turns freely without striking fan frame or any foreign object which may interfere with its operation. Note direction arrow on orifice for correct propeller rotation when power is connected.

4. **Speed Controller (Optional Accessory).** If fan model includes a speed controller, it may be used as an on-off switch in addition to controlling fan speed. Speed controller and motor are factory matched. Carefully avoid a mix-up during installation if more than one fan is involved. Speed controller is factory set for maximum speed reduction of 50%. Any adjustment to controller which reduces motor speed below 50% may result in malfunction of motor.

OPERATION AND MAINTENANCE

1. **Fan Cleaning and Adjustment.** The Type UD fan should be cleaned as necessary to remove accumulated dust, dirt and other foreign matter which may collect on the blades or other fan parts.

If rust or corrosion is found, the affected area should be thoroughly cleaned and refinished.


2. **Lubrication.** For instructions for lubrication of electric motor see instructions supplied by motor manufacturer.

3. Repair Parts.

(a) *Propeller.* If propeller has been damaged, fan should not be operated until a replacement propeller can be obtained from the factory. Field repair is not recommended. If an unbalanced condition develops, thoroughly clean blades to remove dirt or other foreign matter. If unbalance still exists, return to factory for repair or replacement.

(b) *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 in Jacksonville, Florida. Claims for warranty repairs to electric motors should be made direct to the motor manufacturer.

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.

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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