

# Installation, Operation, and Maintenance Instructions for Type CDP and CDU Wall Fans

## INSTALLATION

1. **Dimensions of Wall or Other Opening for Mounting Fan.** Type CDP and CDU fans are designed for all-angle usage. The fans may be mounted in any position. When face-mounted to a wall, the wall opening should be 2" less than the O.D. of the fan panel. If the fan is to be recessed into the wall opening, the opening should be 1/4" larger than the O.D. of the fan panel.
2. **Air Exhaust vs. Air Supply Usage.** The CDU fan comes factory assembled for either supply or exhaust, per customer order. Prior to installation, check the fan arrangement to be sure it is correct for the application. Most CDU models may be converted from exhaust to supply, or vice versa, in the field. This can be accomplished by inverting the fan panel and propeller, and reversing the motor rotation. Most CDU models may be electrically reversed for temporary or emergency use. CDP models cannot be assembled for supply usage nor can they be converted from exhaust to supply. CDP motors are not reversible.
3. **Pre-installation Check.** Before installation, 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 the delivering carrier. Before connecting the motor to a power source, make sure propeller turns freely without striking the panel, guard, or any foreign object. Check the motor nameplate to be sure correct phase and voltage are being applied. Note the direction arrow adjacent to propeller and make sure rotation is correct when power is connected.
4. **Speed Controller (Optional Accessory).** If the unit includes a speed controller, it may be used as an on-off switch in addition to controlling the fan speed. The speed controller and fan motor are factory matched. If multiple fans and controllers are being installed, be careful to install each controller with its corresponding fan unit. The speed controller is factory set for a maximum speed reduction of 50%. Any adjustment to the controller to reduce the speed below 50% may result in severe damage to the motor.

### WARNING



**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.

### CAUTION

## OPERATION AND MAINTENANCE

1. **Fan Cleaning and Adjustment.** Type CDP and CDU units 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.** Electric motors should be lubricated per the motor manufacturer's instructions.
3. **Repair Parts.**
  - (a) **Propeller.** If the fan propeller has been damaged, the fan should not be operated until a factory replacement blade has been installed on the unit. If an unbalanced condition develops, thoroughly clean blades to remove dirt or other foreign matter. If an unbalance still exists, the blade may be damaged and should be returned to the 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 the location of the nearest 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 insure 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 must be used for handling air mixtures of an explosive or hazardous nature.



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