

Installation, Operation & Maintenance Instructions for Type SAED and SASD Power Roof Ventilators

INSTALLATION

1. **Pre-Installation Check of PRV.** Before installation of an American Coolair PRV, a careful check should be made for shipping damage which may affect operation of the unit. Concealed damage is a possibility. If damage is found, file a claim immediately with delivering carrier. Before connecting to power source, make sure propeller turns freely without striking frame or any foreign object. Check motor nameplate to be sure correct phase and voltage are being used. Note direction arrow on orifice for correct propeller rotation when power is applied. If a backdraft damper is used, be sure it is properly installed and provides sufficient clearance for mounting the PRV above it.

2. **Installation Procedure.** The Type SAED and SASD PRV is shipped fully assembled and ready for installation on a roof curb.

(a) **Installation of PRV.** Verify curb dimensions and securely attach PRV base to curb.

(b) **Use of Backdraft Damper.** Due to the low-silhouette design of the Type SAED and SASD PRV, a backdraft damper cannot be mounted within the base. If one is required, it will be necessary to provide a location for it below the curb. Check all dimensions to be sure damper will clear end of motor. Install damper so it opens in same direction as airflow.

OPERATION AND MAINTENANCE

1. **Fan Cleaning and Adjustment.** The entire PRV 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. 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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