



**ROMLAIR**

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## INSTALLATION AND MAINTENANCE FILTERED AIR SUPPLY FAN MODEL RCF-SI

### INSTALLATION INSTRUCTIONS

#### A. BEFORE INSTALLATION CHECK OF PRV

A careful check should be made for shipping damages before installing a PRV. Filters should be checked for perforations and filter rails should be checked for dents or other damages. Blowers should be checked for free rotation and any concealed damage. If damage is found, file a claim immediately with the carrier. Check pulley alignment and belt tension, see belt tension instructions in Operation and Maintenance Instructions. The phase and voltage should be checked for accuracy with motor nameplate, before connecting the power source. The blower housing should allow the blower to turn freely with no interference from foreign objects, especially job site added accessories that have been attached to the unit. Check airflow direction to insure proper blower rotation. If duct adapter is used, be sure it is installed prior to installing complete unit.

#### INSTALLATION PROCEDURE

Move fan to desired location and fasten securely to the roof curb. Use fasteners to suit construction and material. Fasteners are not supplied by Romla Ventilator Company.

The motor's amperage and voltage rating must be checked for compatibility to the supply voltage prior to final electrical connection.

The electrical supply normally will come up from the roof opening. The conduit will then be secured to a NEMA 1 disconnect switch (optional) or directly to the motor junction box. If the wiring has to be routed through the outside enclosure, the wiring is to be routed through an opening in the unit enclosure which is slightly larger than the conduit fittings. Please note that the opening in the outer enclosure through which the conduit would pass, should be below the opening of the motor junction box where the conduit would be installed.

NOTE: To comply with all local, state and federal codes, make sure all wiring, guarding precautions and intended usage at the PRV units(s) are checked for applicable codes.

### OPERATION AND MAINTENANCE

#### A. CLEANING AND ADJUSTMENTS

1. FILTERS are standard, permanent recleanable type aluminum filters. For efficient performance the recommended maximum filter is 0.40# AFI dust per net sq./ft. of filter area. Remove standard filter to clean. Flush the filter



with a stream of water. Allow filter to drain after flushing. CAUTION: DO NOT USE CAUSTICS IN WATER USED FOR FLUSHING. After cleaning and draining, the filters should be coated with a filter coat adhesive for maximum efficiency.

2. PRV. To keep dust, dirt and foreign matter from accumulating on blower and other parts of the PRV, the entire unit should be cleaned as necessary. Any area affected by rust or corrosion should be treated by cleaning thoroughly and then refinished. Belts should be inspected and tension adjusted (see belt replacement paragraph). To avoid excessive wear and premature belt failure, check for belt misalignment. (After 8-10 hours usage following installation this same inspection should be made).

#### B. BELT REPLACEMENT

1. For convenience in servicing, remove the entire hood top section from the base of PRV by using finger latches.  
2. Belt tension should be checked and adjusted at regular intervals. The belt(s) can be checked by placing finger midway between motor pulley and fan pulley. Push belts(s) inward 1/2", with pressure force of about 3-5 lbs. Adjust tension bolt to maintain proper belt tension.  
3. To install new belt(s), loosen bolt on motor bracket and remove old belt(s) from fan pulley and motor pulley. To keep from damaging belt(s) severely, do not roll new belt(s) over sheaves under tension when replacing belt(s).  
4. After positioning the new belt(s) on fan pulley and motor pulley, adjust belt tension and retighten motor bracket bolt. Belt alignment between motor pulley and fan pulley should be checked.

#### C. LUBRICATION

RCF-SI PRV's use standard pillow block bearing that are prelubricated at the factory and require no scheduled maintenance when used in normal service. Electric motor lubrication instructions are supplied by motor manufacturer