

# ACE INDUSTRIAL PRODUCTS

## MODEL 74-2400-1, 74-2800-1 & 74-2800-3

### INSTRUCTIONS

ACE AIR CLEANER MODEL 74-2800-1  
74-2800-3 74-2400-1

#### A. RECEIVING INSPECTION

Inspect immediately for damaged or missing parts. The power unit/blower comes completely assembled. If required, hose and nozzle must be ordered separately.

1. In case of damage, contact delivering carrier and ask for an inspection and written report.

2. If part are missing, advise the Distributor where purchase was made.

#### B. ASSEMBLY

1. Remove the wrapping from the bag filter and place all the filter pockets into the intake opening.

2. The pre-filter is packed in a separate carton. Unpack and install as indicated by the direction arrow on the filter. Lock into place with locking latches.

#### C. INSTALLATION

The unit is suspended from the ceiling using the four eye bolts in the top of the unit. The weight of the unit is approximately 185 lbs. It is recommended that all parts used to hang the unit be rated a minimum of 250 lbs working strength. Open loop 'S' hooks with a 1/4" minimum diameter can be used. ACE does not supply 'S' hooks, chain etc. for hanging the unit.

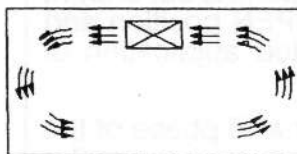
When hanging the unit it is recommended that the four mounting points should be located directly above the eye bolts. This makes for better stability and simplifies leveling.

After the supports are in place the unit should be leveled with all supports being equally loaded. Make sure the double nuts on the eye bolts are tight.

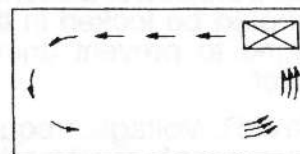
#### D. LOCATION OF THE UNITS.

It is impossible to cover all types of installation situations. However, by following these general rules of installation, it is possible to handle most problems. If unusual situations are encountered contact ACE for assistance.

1. Never place a unit to close too a corner. Allow as much room as possible or contaminated air will be pushed past the unit instead of through the unit.

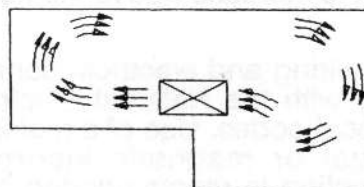


CORRECT

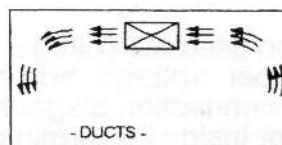


INCORRECT

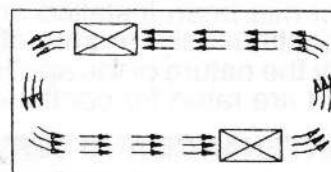
2. Place the unit so the air circulation will draw air from 'L'.



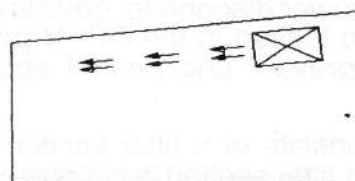
3. Mount the unit near the wall opposite the cold air or heating ducts.



4. When installing multiple units it is important that the air circulation properly covers the entire area.



5. In the event that a room contains a sloping ceiling the unit should be installed in the higher end.



## E. ELECTRICAL WIRING

**WARNING: ELECTRICAL INSTALLATION SHOULD BE DONE BY QUALIFIED PERSONNEL.**

Always disconnect power source before working on or near a motor or its connected load. If the power disconnect point is out of sight it should be locked in the OPEN position and tagged to prevent unexpected application of power.

**POWER:** Voltage, frequency and phase of the power supply must be that shown on the motor nameplate. On three phase systems the voltage should be balanced on all three lines.

Low voltage can reduce performance and cause overheating. High voltage will cause the motor current to increase above the nameplate value.

**WIRING:** All wiring and electrical connections must comply with the National Electric Code (NEC) and local codes. Use of a motor starter, either manual or magnetic incorporating thermal protection is recommended and may be required.

The motor is properly wired to the junction box at the factory.

If changing to an alternate voltage, connect the motor for proper voltage and rotation by referring to the connection diagram located on the nameplate or inside the terminal box on the motor. On three phase motors, interchange any two line leads to reverse the rotation. Look for the rotation arrow on the fan housing to establish the proper rotation.

Once the unit has been installed and wired, it can be run continuously, or shut off overnight as dictated by the nature of the application. The motor and fan are rated for continuous duty.

## F. MAINTENANCE AND SERVICE

**CAUTION: SHUTOFF POWER SUPPLY TO THE UNIT BEFORE OPENING EITHER END.** Always disconnect power source before working on or near a motor or its connected load. If the power disconnect point is out of sight it should be locked in the OPEN position and tagged to prevent unexpected application of power.

The unit consists of a filter section and a fan section. The filter section is accessible from the inlet end of the unit allowing simple fast replacement.

## G. TROUBLE SHOOTING

Always disconnect power source before working on or near a motor or its connected load. If the power disconnect point is out of sight

it should be locked in the OPEN position and tagged to prevent unexpected application of power.

### 1. Unit will not run.

a. Check power supply (voltage) to the motor. Repair wiring as required.

b. With the power shut off, remove the outlet panel and turn the fan wheel by hand. If the fan is locked or rubbing, visually inspect to see where the wheel is rubbing. The wheel can be shifted left or right by loosening the 2 set screws located on either side of the hub.

c. Check the belt for tightness and damage. Tighten or replace if damaged.

d. Check pulleys for alignment and tightness. Re-align and tighten as necessary.

### 2. Unit runs then quits.

a. Check for open circuit. Reset button on the motor if so equipped. Fuse or breaker at the source of the power. Broken wires.

Disconnect the power and repair damage.

b. If the unit continues to shut down after resetting and repairing the circuit, check for correct voltage, frequency and amperage to the unit.

c. Check for dirty filter and replace if necessary.

d. If the motor amperage is considerably in excess of the nameplate rating (2 to 3 times the nameplate value) the motor is faulty and will need to be replaced.

### 3. Motor runs but no air.

a. Belt loose or off.

b. Motor running backward. Change motor wiring for correct rotation.

## H. REPLACEMENT FILTER LIST

• 40% BAG FILTER	91-950
• 65% BAG FILTER	91-951
• 95% BAG FILTER	91-952
• 2" PLEATED PREFILTER	91-955
• 4" PREFILTER	91-956
• ALUMINUM PREFILTER	91-957
• PREFILTER WRAP	91-962

## I. REPLACEMENT PARTS LIST

• 2 HOSE PLENUM FOR 8" HOSE	74-043
• DIFFERENTIAL PRESSURE GAGE	74-044
• 8" SUPERFLEX HOSE	90-8500
• 8" HOSE NOZZLE	91-066

### ACE INDUSTRIAL PRODUCTS

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