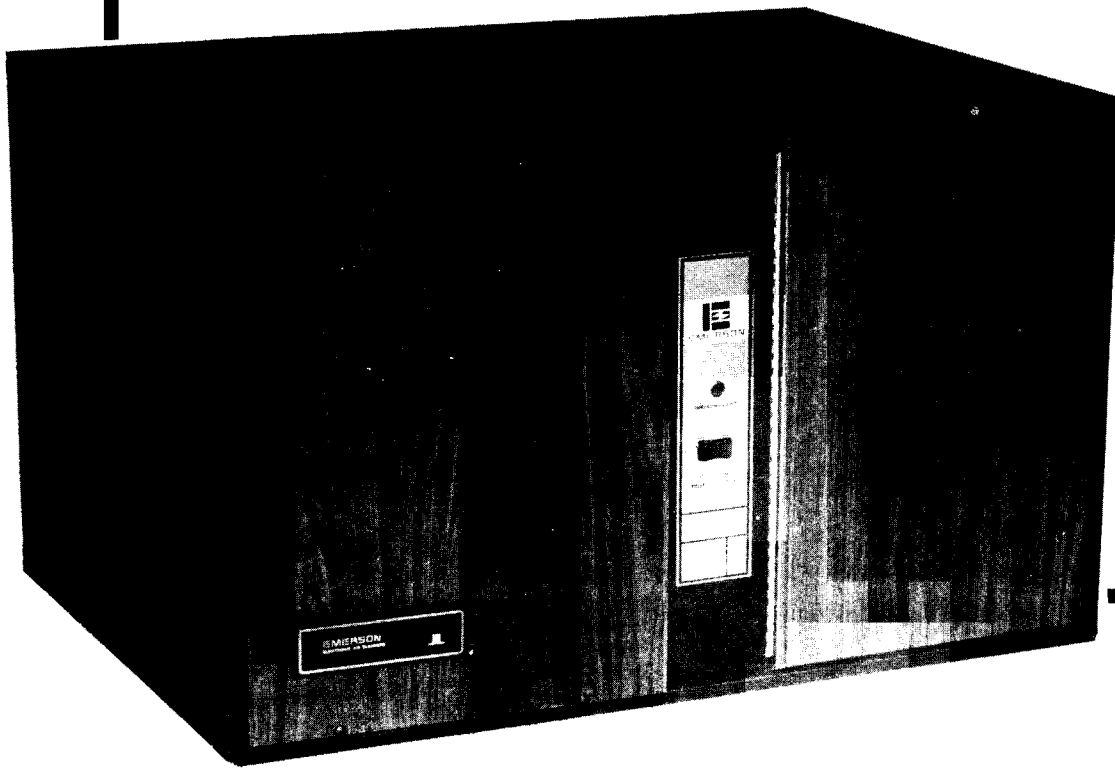


EMERSON

SC-1000A COMMERCIAL ELECTRONIC AIR CLEANER



MODEL NO. 10C12E-41003

OPERATION AND INSTALLATION MANUAL

WHAT IT DOES

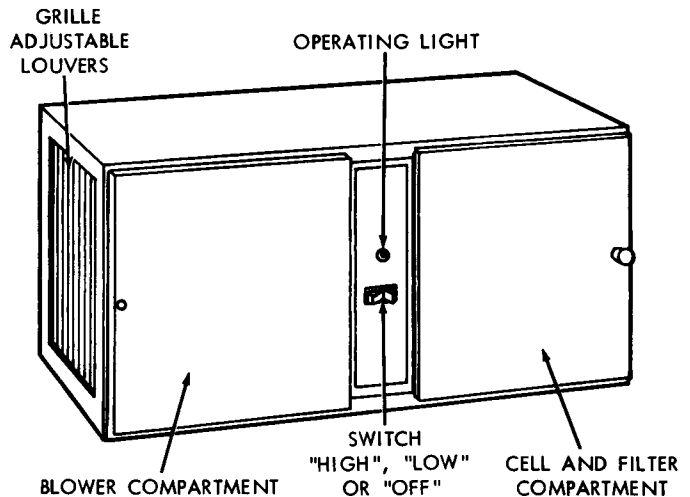
Your new Self-Contained Commercial electronic air cleaner is one of the latest appliances in this modern age of electronics.

The air cleaner is designed to remove a high percentage of dirt, dust, cooking and tobacco smoke, pollen, bacteria and other airborne contaminants from a room when on.

Most of these particles cannot be seen except with a microscope, unless they are as highly concentrated as tobacco smoke. These contaminants cause stains and discoloration on your walls and draperies when they collect in your place of business.

The staining and soiling particles are far too small to be removed by a flat furnace filter. Particles as small as one twenty-five thousandth of an inch (1/25,000") are efficiently removed from the circulating air by an electronic air cleaner.

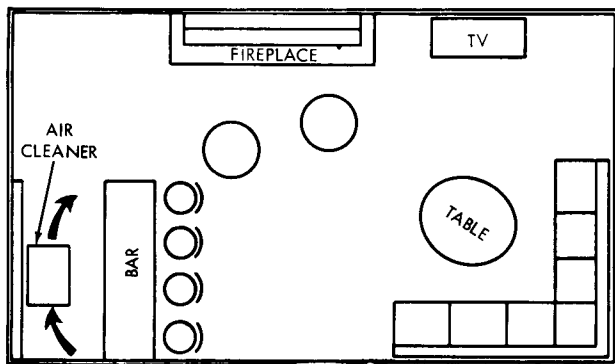
The Self-Contained Commercial electronic air cleaner will keep the air clean in a room measuring 20' x 50', with a 7' to 8' ceiling, at the 1,000 CFM blower speed. A room measuring 20' x 35', with a 7' to 8' ceiling will be cleaned at the 850 CFM blower speed. A room 20' x 25', with a 7' to 8' ceiling will be cleaned at the 650 CFM blower speed. Larger rooms can be cleaned by installing multiple units. The unit will also remove offensive odors with an activated charcoal filter.



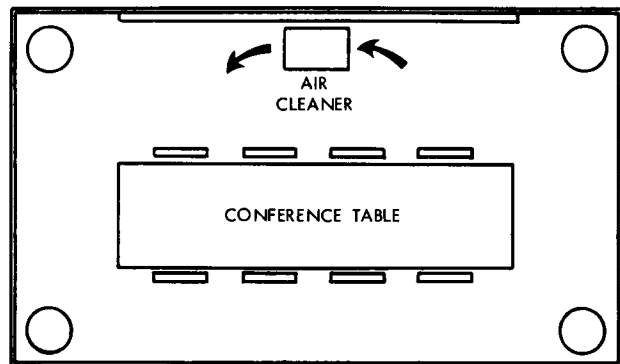
WHAT IT WILL NOT DO

Your new electronic air cleaner will not remove lint or other large particles that fall out of the air before being drawn into the air cleaner. These particles may show up on a flat surface such as a desk or table top, but they are not the type of particles that cause soiling and staining, with resulting cleaning and redecorating bills.

INSTALLATION



COCKTAIL LOUNGE — Unit suspended upside down to deflect air away from customers at bar.



TYPICAL CONFERENCE ROOM — The unit should not be located where air movement would be restricted. Proper air circulation should be maintained to insure a good cleaning performance.

LOCATION

The best location for a self-contained unit is in a position where airflow is not impeded, closest to the concentration of tobacco smoke and dirt producing activities. Care should be executed so that the unit does not discharge air directly upon seating areas.

MOUNTING

The unit is manufactured for right-to-left airflow. However, this can be reversed by installing the unit in an upside-down position. Eight internal mounting nuts (four top, four bottom) are included so that threaded rods can be used to hang the unit from the ceiling. Optional shelf mounting brackets are available with a slight additional charge.

POWER SUPPLY

The self-contained unit is wired for operation at 120 volts AC, 60 hertz single phase. It can be plugged into a standard wall receptacle with the 9' power cord that is attached to the unit.

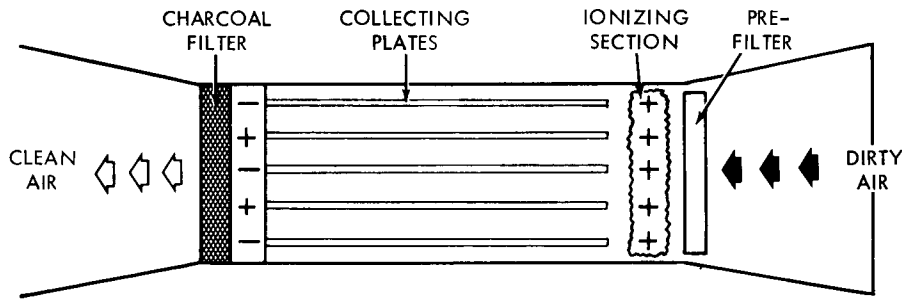
POWER REQUIREMENTS .. 120 Volts 60 Cycle
Single Phase

WATTAGE CONSUMED: 600 Watts

DIMENSIONS: 19-5/8"H, 32-1/4" W,
22-3/8" D

WEIGHT: 115 lbs.

HOW IT WORKS



The dirty air is drawn through the side grill until it reaches the air cleaner collecting cell inside. First, lint particles are trapped by the pre-filter. Then the dirty air passes through the ionizing section of the cell where all the particles receive a strong electrical charge. The charged particles are carried by the air to the collecting plates of the cell, where they are pulled

to the plates by a strong electric force. The effect is similar to that of iron filings being pulled by a magnet. The air then passes through an activated charcoal filter which removes offensive odors. The clean air is then circulated through the diffuser on the opposite end of the air cleaner and then into the living area.

MAINTENANCE

CLEANING THE CELL (Weight 13 lbs.)

Approximately once a month the air cleaner's collecting cell should be removed and washed.

The cell is held in position during operation by a spring latch attached to the bottom of the cabinet. Remove the pre-filter.

Depress the spring latch and slide the cell out of the shelf. Immerse the cell and pre-filter in a warm solution of low-sudsing detergent. Rinse with water and allow to drip for two hours.

Replace the cell in the cabinet shelf, making sure contact is made with the cell contact as indicated on the end of the collecting cell. Also, reinsert the pre-filter.

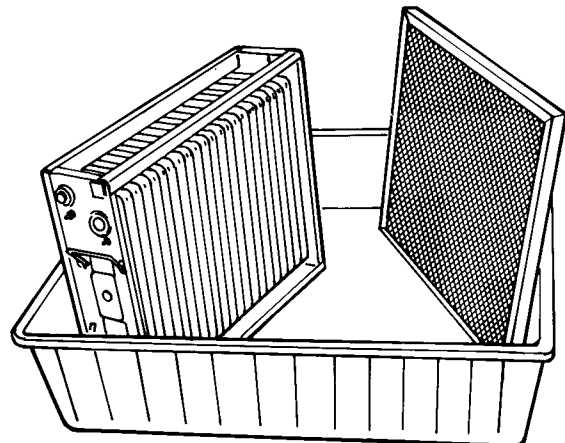
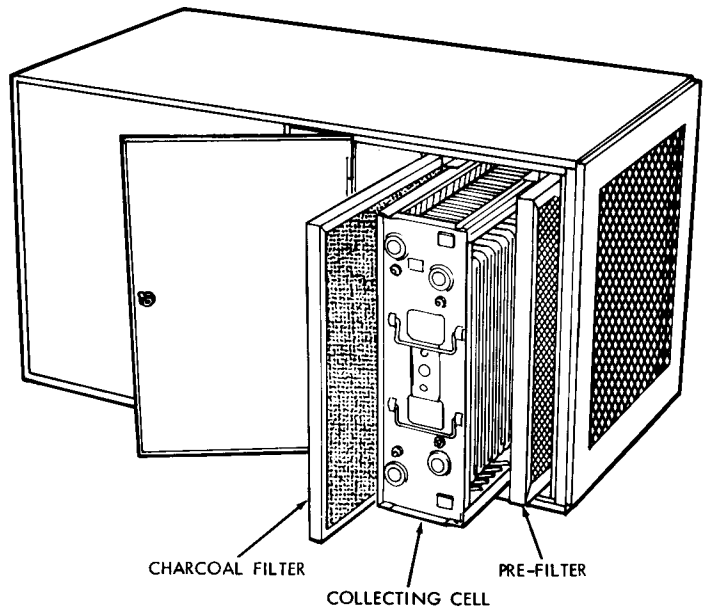
ARCING

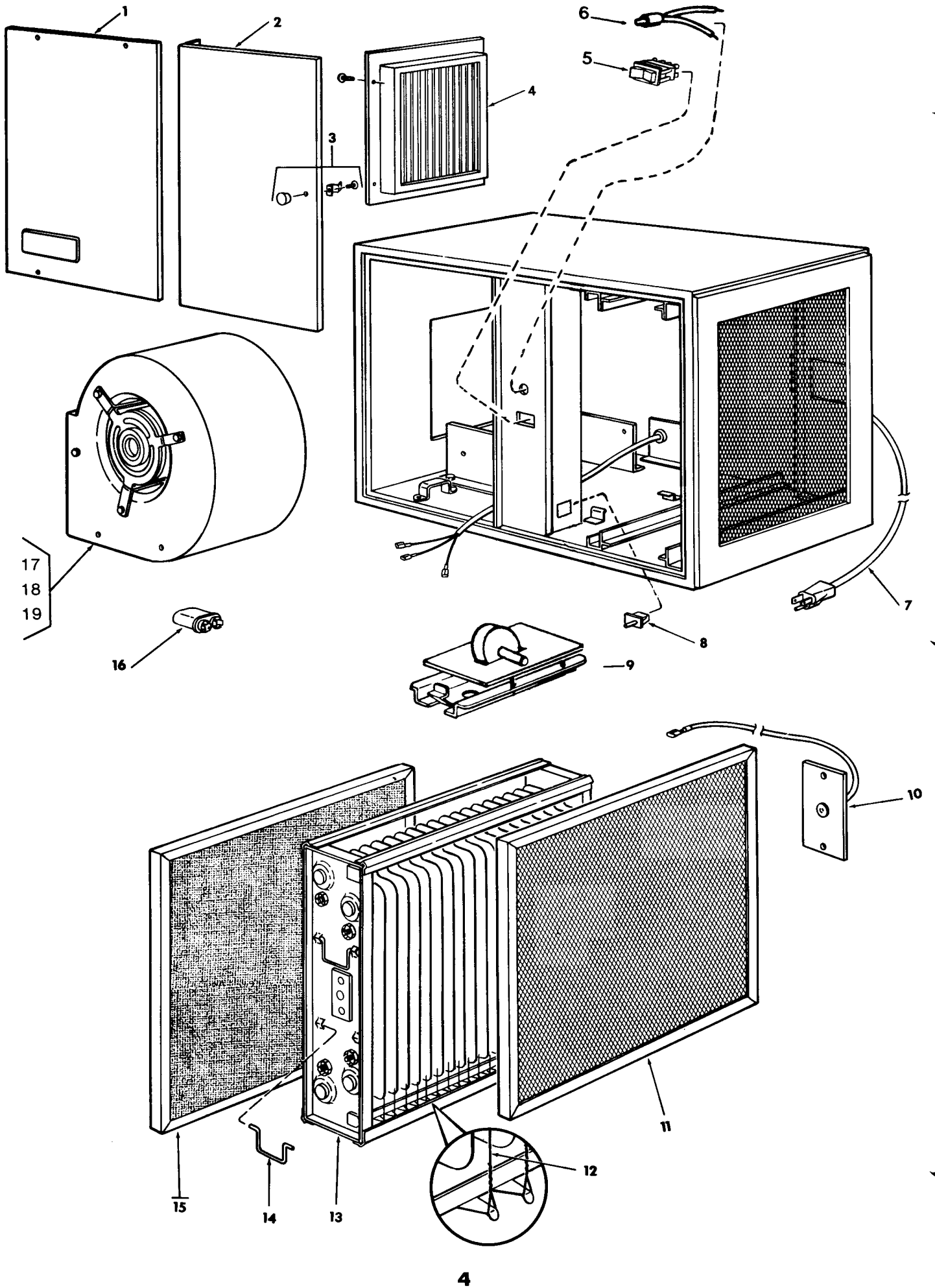
When the power is turned on after washing the cell, arcing (loud cracking noise) may occur for a short time. Arcing will not damage the cell and will stop in a short while.

Regular washing of the collecting cell and pre-filter will insure maximum efficiency from the electronic air cleaner. The washing schedule may vary in frequency, depending on the dirt load encountered at installation site.

CHARCOAL FILTER

The charcoal filter will lose its odor removal efficiency in approximately six months. It cannot be washed like the cell and pre-filter. Replace the charcoal filter with a new charcoal filter when this occurs.





PARTS LIST FOR ELECTRONIC AIR CLEANER MODEL NO. 10C12E-41003

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER
4. The NAME OF ITEM — Electronic Air Cleaner

Always Order by "Part Number" . . . Never by "Item No."

ITEM NO.	PART NUMBER	DESCRIPTION
1	F808-0508	Blower Access Panel
2	F808-0122	Cell Door (includes Hinge and Latch)
3	F839-0011	Knob and Latch
4	F831-0024	Grille Assembly
5	F876-0183	Operating Switch
6	F844-0130	Light
7	F848-0305	Power Cord Assembly
8	F876-0188	Safety Switch
9	F858-0708	Power Supply
10	F819-0069	Cell Contact Board
11	F866-0071	Pre-Filter
12	F843-0484	Ionizing Wire
13	F811-0228	Collecting Cell
14	F832-0039	Cell Handle
15	F825-0055	Charcoal Filter
16	F809-0049	Capacitor, Motor
17	F849-0038	Direct Drive Blower Motor
18	F849-0022	Direct Drive Blower Housing
19	F848-0209	Blower and Motor Assembly W/Start Capacitor
+	F806-0095	Wall Mounting Brackets (Optional)
+	846-0267	Manual

+ Not Illustrated

Service hints...

“The following instructions are for use by qualified personnel. WARNING: The following procedures will expose hazardous live parts. Disconnect electrical power to air cleaner before proceeding.”

If your Electronic Air Cleaner does not operate, check the following:

1. Is the operating light on? If so, power is being supplied to the unit and blower fan should be running.
2. Is the power plug securely inserted in electrical outlet?
3. Is power being supplied to the electrical outlet? (Check house fuses or circuit breaker.)
4. Is the switch positioned to either “LOW” or “HIGH” speed?
5. Is the cell access door closed? (The interlock switch must be pushed in.)
6. Is the collector cell installed properly and retained by cell latch? Cell plunger contact must face toward cabinet and line up with electrical contact board assembly in cabinet.

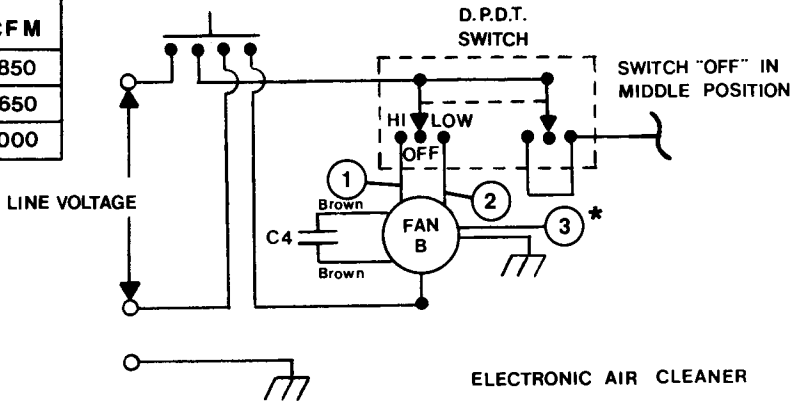
CONDITION	INDICATION
<ul style="list-style-type: none"> •Indicator light “on” •Blower operating (high or low) 	Unit operating correctly
<ul style="list-style-type: none"> •Indicator light “blinking” •Blower operating (high or low) 	Problem located in cell. <ol style="list-style-type: none"> 1. Clean cell if dirty. 2. If ionizing wires have collected dust particles, wipe clean with damp cloth.
<ul style="list-style-type: none"> •Indicator light “off” •Blower operating (high or low) 	<ol style="list-style-type: none"> 1. Remove cell from cabinet. 2. If indicator light comes “on” problem is in collecting cell. 3. If indicator light remains “off” problem is in the D.C. Power Supply. (Contact your local service technician or dealer.)

WIRING DIAGRAM AND BLOWER SPEED CHANGE

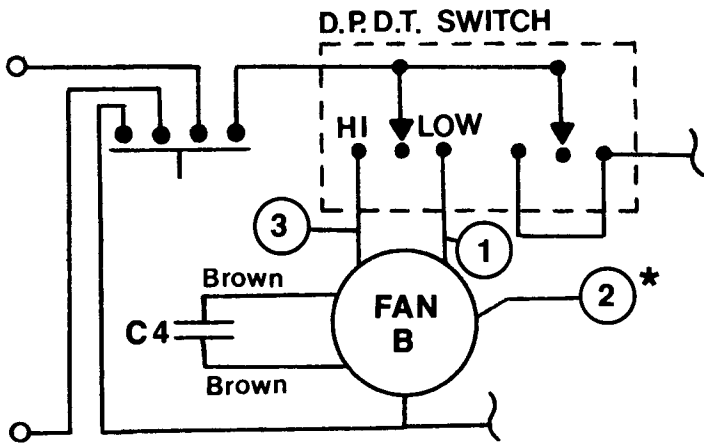
“The following instructions are for use by qualified personnel. WARNING: The following procedures will expose hazardous live parts. Disconnect electrical power to air cleaner before proceeding.”

Unit Factory Wired for 650 & 850 CFM

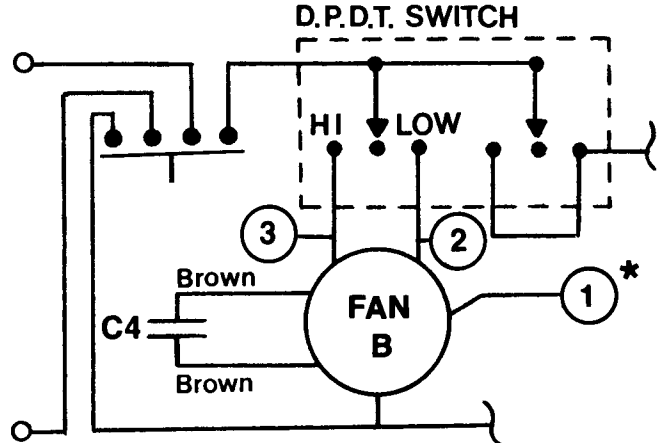
MOTOR SPEED LEADS	CFM
① Blue	850
② Red	650
③ Black	1000



Speed Change for 650 & 1000 CFM



Speed Change for 850 & 1000 CFM



*** CAUTION:** Install wire nut & electrical tape on wire lead off motor not used.



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