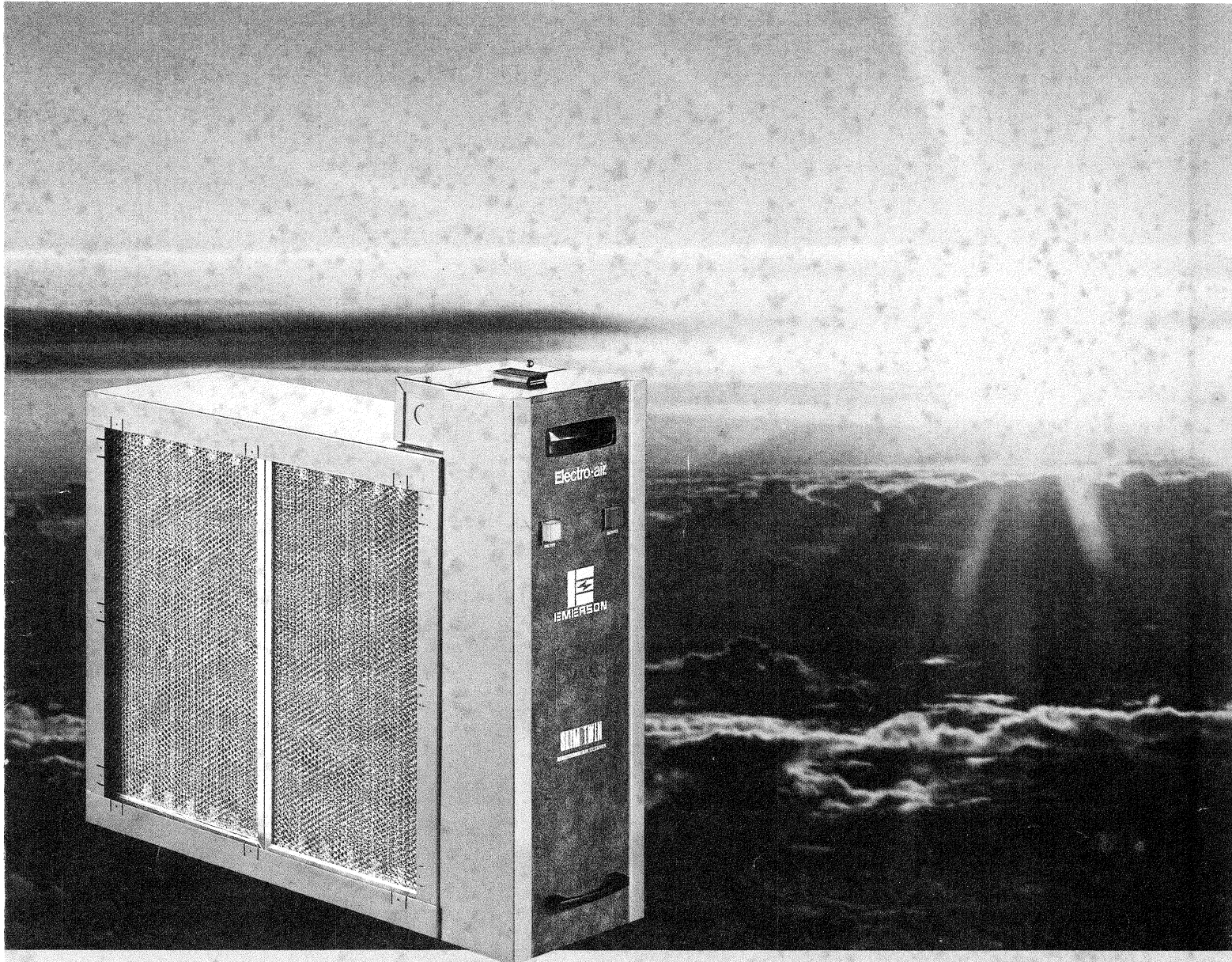
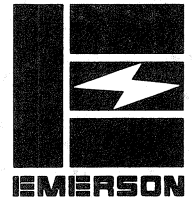


Electro-air SLIM TWIN



2 Plus 2 Electronic Air Cleaner



THE NEED FOR CLEAN AIR

There was a time when no one was really concerned with the availability of clean air. Clean air was something taken for granted like pure water or a clean snowfall.

But not any more. Airborne dirt particles are carried into our homes with the regularity of a daily invasion. Suspended in the air we breathe are millions of particles of dust, dirt and pollen. The same dirt particles that soil draperies, discolor walls and settle down as dust everywhere. Pollen and tobacco smoke are also carried by the air and cause annoying irritation to many allergy sufferers.

There is a way to control this daily build-up of dust, dirt and

pollen. An Electro-air electronic air cleaner, installed in conjunction with a forced air heating/cooling system will remove up to 95% of all the dirt particles brought to it.

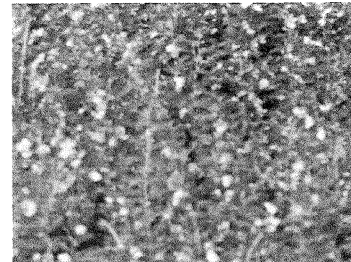
Electro-air is the nation's largest manufacturer of electronic air cleaners. 35 models are manufactured for use in residential and light commercial applications. This brochure details the features of the new Slim Twin unit which is designed for use in most residential applications. Additional information concerning the full line of Electro-air electronic air cleaners and their deluxe features is available from your heating and air conditioning contractor.



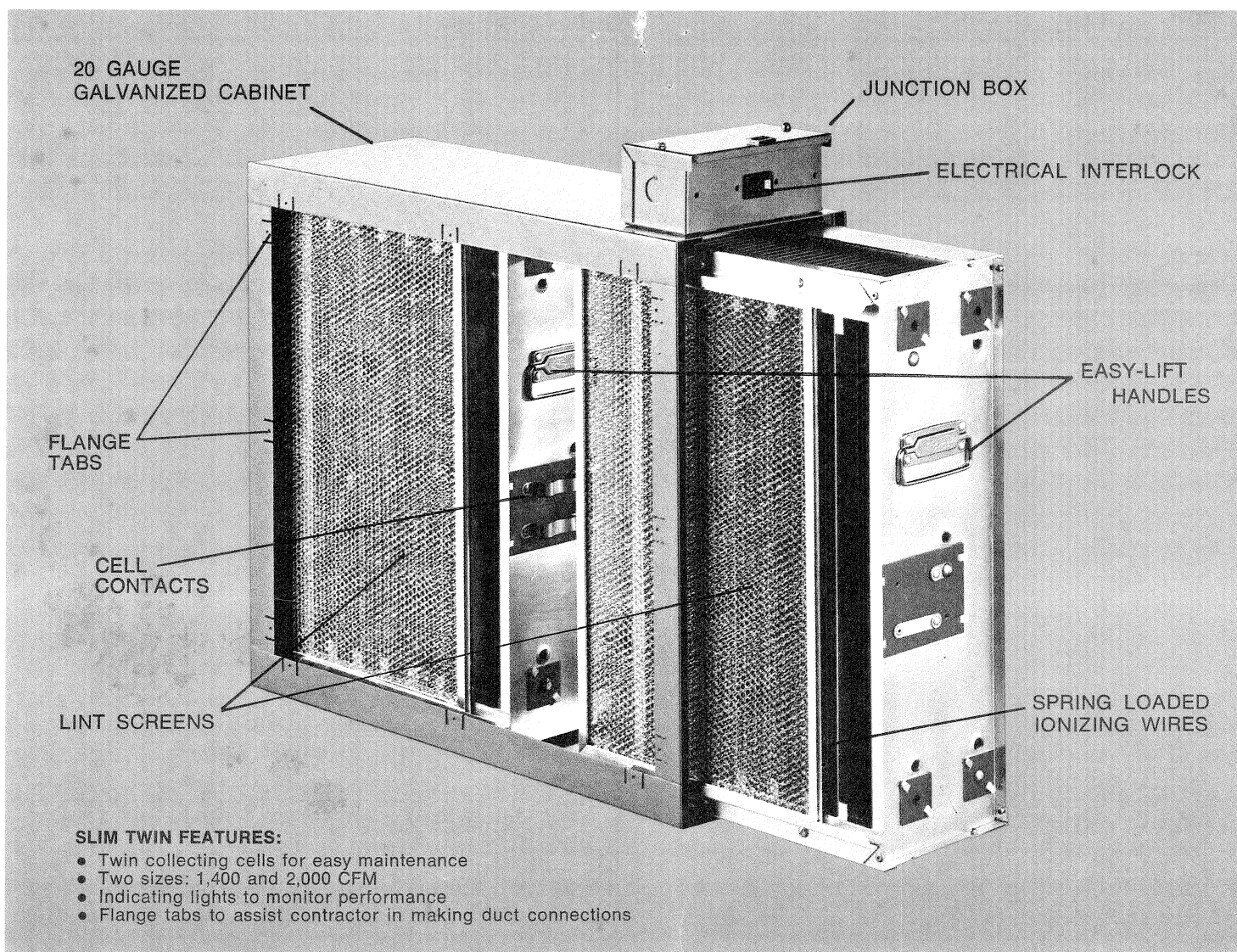
Entertaining becomes a pleasure with annoying cigarette and cigar smoke removed. Air remains fresh and pure regardless of the number of guests or length of the party.



The heavy build-up of dust and dirt is greatly reduced. Walls remain clean, dusting is reduced and household cleaning becomes easier.



Nearly all pollen articles that are carried to the air cleaner are removed. Many individuals suffering from pollen allergies have enjoyed relief when an electronic air cleaner is installed. An increasing number of doctors prescribe them for their allergy patients. Usually a portion of the expense is deductible as a medical item on income tax returns.



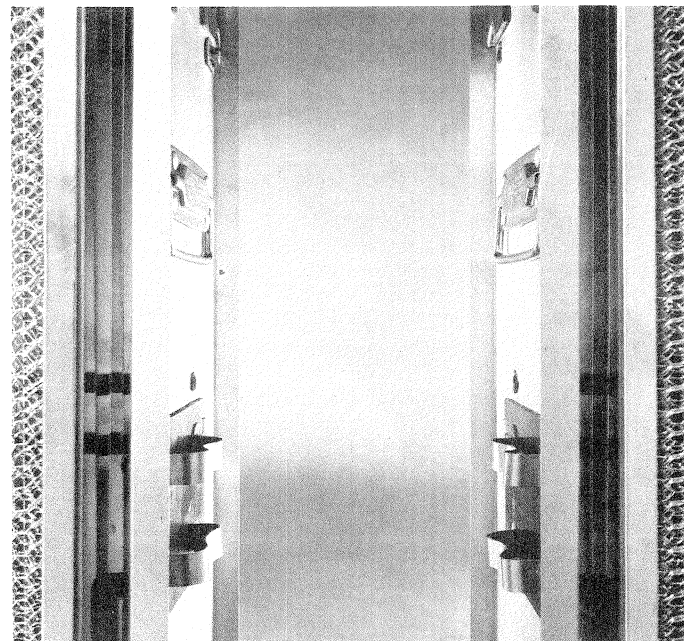
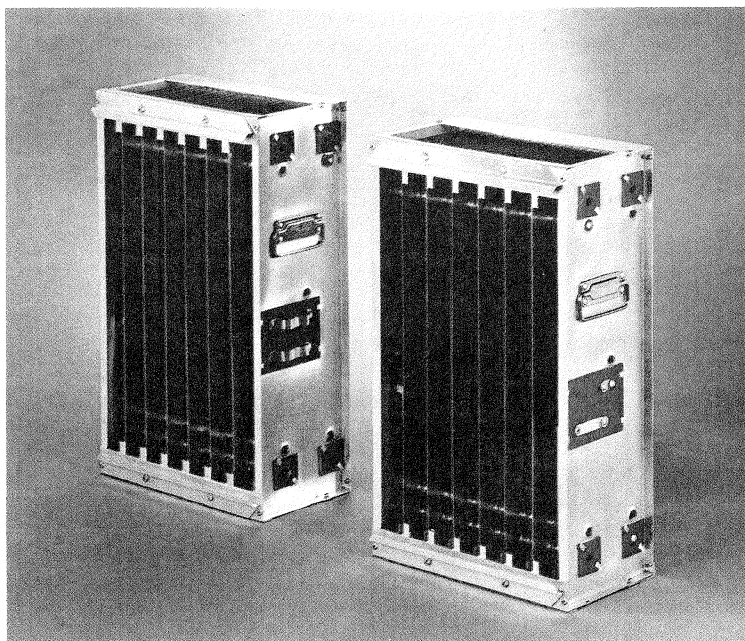
THE TWIN CELL STORY

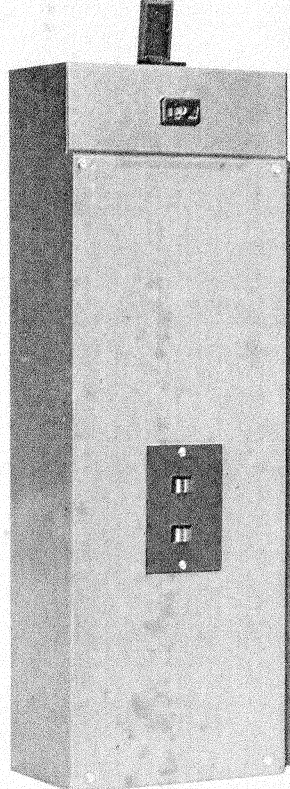
Electro-air's new Slim Twin unit features two matched, all aluminum cells for homeowner convenience. Each cell in the 1,400 CFM unit weighs 12 lbs. and each cell in the 2,000 CFM unit weighs 15 lbs. This allows the homeowner to handle the cells during cleaning, with a minimum of effort.

Slim Twin cells still feature the rugged Electro-air construction and a wide dirt collecting depth of $4\frac{3}{4}$ ". Overall cell depth is $7\frac{3}{4}$ ".

The close up photograph below, illustrates the unique cell-to-cell contacts in the center of the Slim Twin unit. The spring contacts assure constant electrical hook-up. Also pictured are the easy-lift handles which are affixed to each cell's end plate.

Homeowners should always make sure the cells are repositioned in this manner following their removal for cleaning.





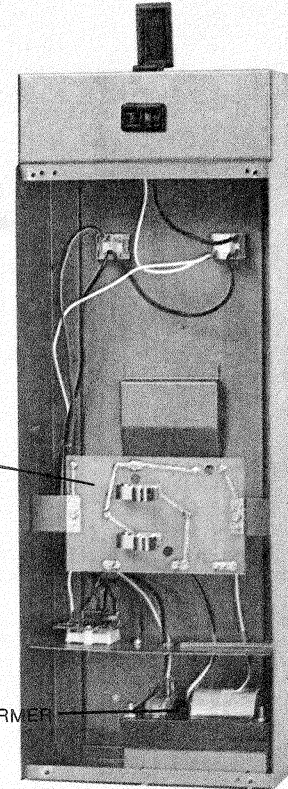
POWER PACK BACK

ON/OFF
LIGHT



POWER PACK FRONT

FLASHING
SERVICE
LIGHT



SOLID
STATE
POWER
BOARD

TRANSFORMER

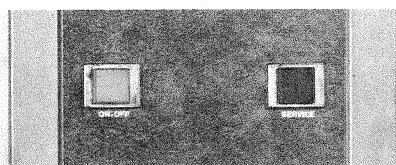
POWER PACK INTERIOR

SOLID STATE CIRCUITRY USED IN SLIM TWIN POWER PACK

The power pack houses the electrical components required to create an electrostatic field within the collecting cells.

There is no wiring to be performed by the installing contractor inside the Slim Twin power pack.

Push-on terminals, for high and line voltage connections, eliminate the need for soldering connections to the transformer. The power pack is the same size on both the 1,400 and 2,000 CFM Slim Twin units.

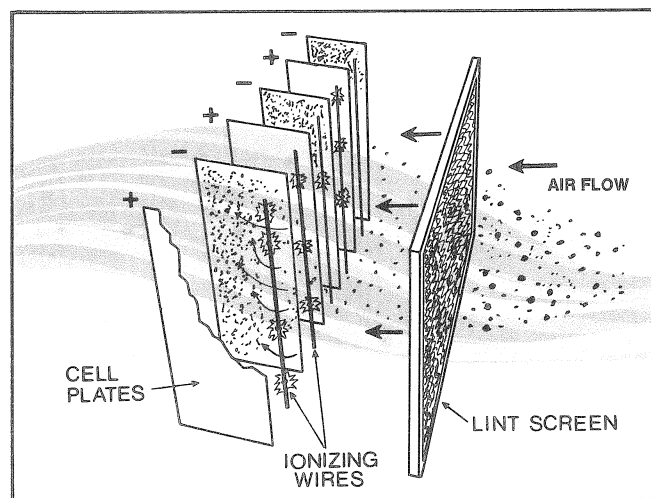


TWO INDICATING LIGHTS

Slim Twin units feature a major convenience with the use of two indicating lights, on the power pack, to monitor performance.

The amber ON/OFF light (left) is permanently lit when power is supplied to the unit and it is operating. The light is depressed to activate the unit.

The red SERVICE light (right) monitors the air cleaner's performance. When the unit requires servicing, a bright light will commence flashing and continue to do so until the unit is serviced.



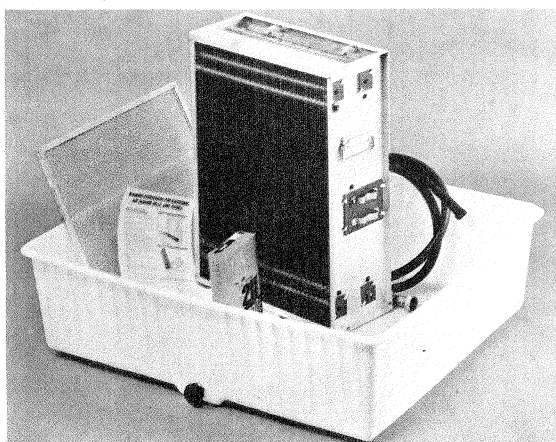
HOW AN AIR CLEANER WORKS

Dirt particles are carried to the electronic air cleaner through the return-air duct system of the home. When the airstream passes through the first section of the air cleaner, the lint screen traps large pieces of lint.

When the air reaches the collecting cells, particles of dirt as small as 1/100 of a micron receive a strong electrical charge. The charged particles cling to the collecting cell plates.

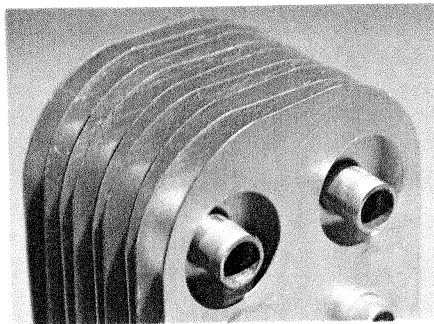
The lint screens and cells are washed in a solution of warm water and low sudsing detergent.

OPTIONAL AIR SWITCH—A duct mounted air switch is available as an optional accessory with Slim Twin units. This device, which is easily installed, will stop the air cleaner's operation when there is no air movement through the ducts.

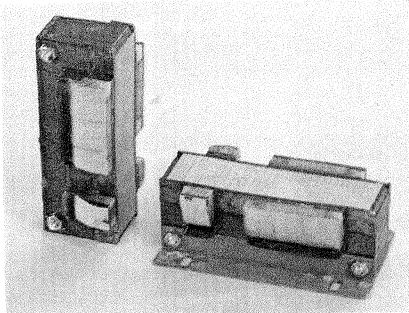


OPTIONAL WASH TUB KIT

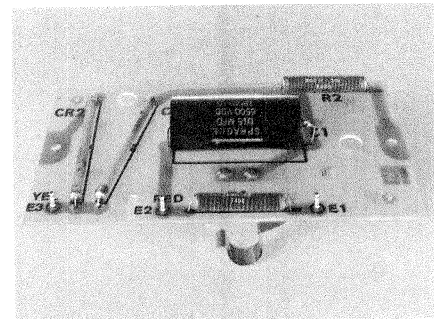
This useful accessory simplifies the washing of the electronic air cleaner's components. It consists of a plastic tub, a box of detergent and a length of hose to accommodate filling with water and draining.



COLLECTING CELL SECTION
No spacers used. Air is the insulator between plates.



HALVED TRANSFORMER
Showing coil winding and epoxy coating.



SOLID STATE POWER BOARD
Selenium rectifiers, oil filled capacitor, and bleed-off resistor mounted together in one component easily replaced.

WHY THERE IS QUALITY IN ELECTRO-AIR EQUIPMENT

Electro-air specializes in only one product. Electronic air cleaning. All of the assembling and manufacturing of our equipment is done in our own factory with careful attention to details and quality control.

The electronic collecting cell . . . the very heart of an electronic air cleaner . . . consists of precisely spaced aluminum plates that are manufactured and assembled by Electro-air. The cell design eliminates the need for synthetic spacers between cell plates. The possibility of dirt tracking (shorting) between positive and negative plates is eliminated by the

nonuse of spacers. Electro-air pioneered this concept.

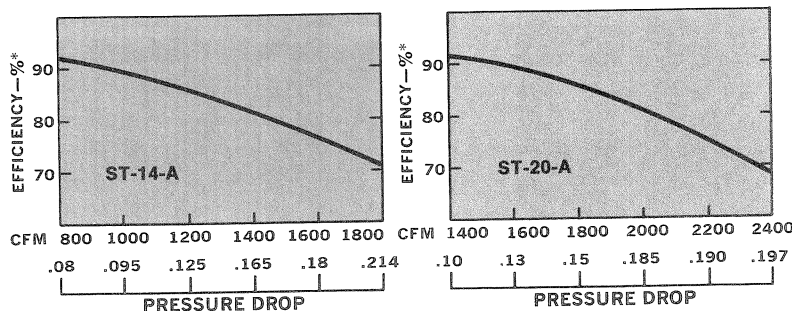
The shunted transformer was designed by Electro-air as the work horse of the product. It is impregnated with epoxy to eliminate the possibility of moisture seeping inside and shorting out the unit.

The selenium rectifier consists of hundreds of selenium discs assembled in a tube. The selenium is punched from sheets and inserted into the tubes by Electro-air. The two rectifiers used in Slim Twin units change the AC voltage produced by the transformer into DC voltage.

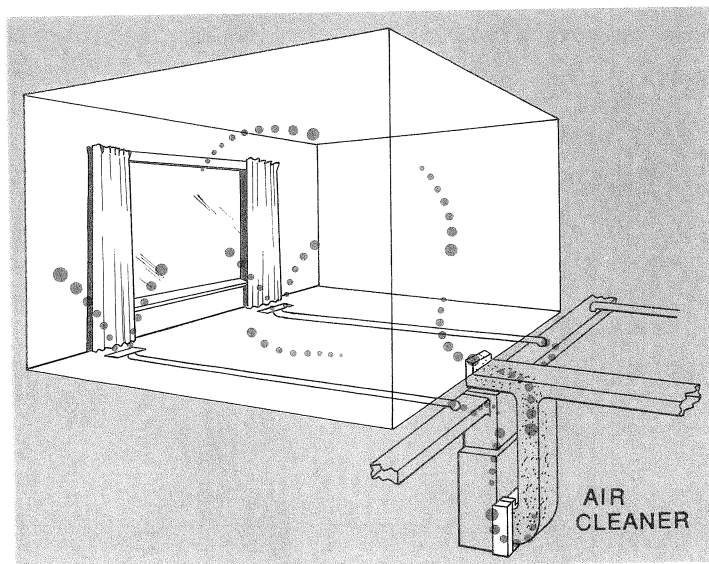
SLIM TWIN EFFICIENCIES

Electro-air manufactures two Slim Twin units, in two different CFM sizes, to insure correct sizing for home installations. Unless an electronic air cleaner is correctly sized for the CFM requirements of the home, the maximum filtration efficiency cannot be fully achieved.

For correct sizing with heating requirements, figure 1,000 CFM capacity for each 100,000 BTU input. For correct sizing with cooling requirements, figure 400 CFM for each ton of cooling.

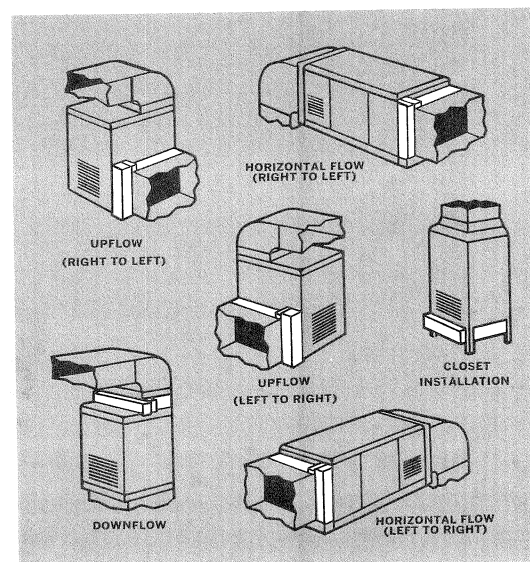


*As determined by National Bureau of Standards Dust Spot Test Method.



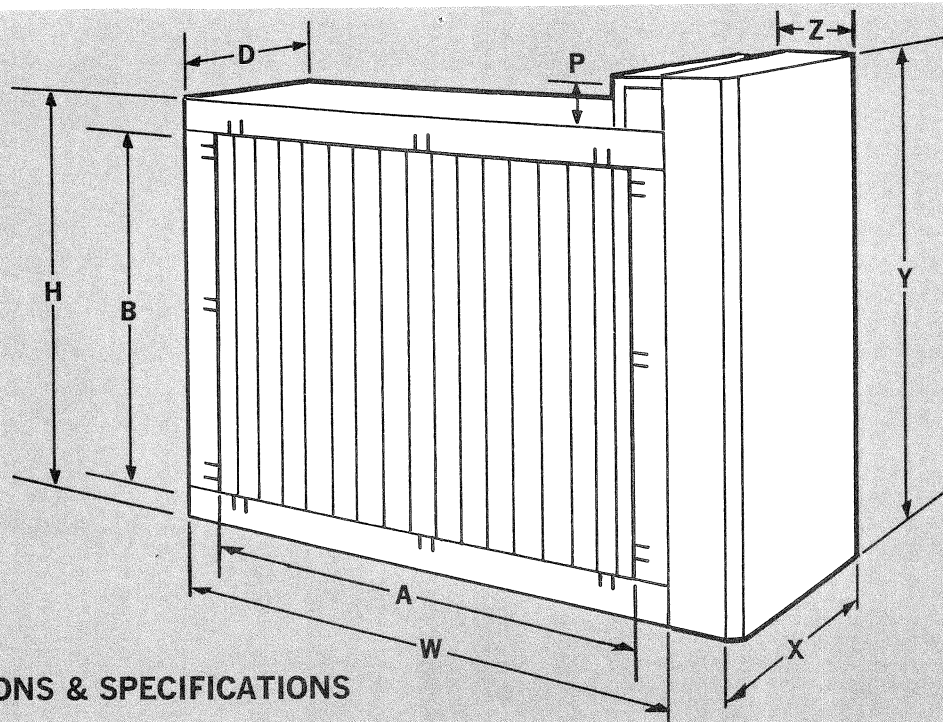
THE ADVANTAGES OF CONSTANT FAN

An air cleaner can remove only the airborne contaminants that are brought to the unit. Therefore, continual air circulation through the duct system is highly desirable for effective electronic air cleaning. This is accomplished by setting the furnace blower so that it runs continually, providing a steady stream of moving air.



EASILY INSTALLED

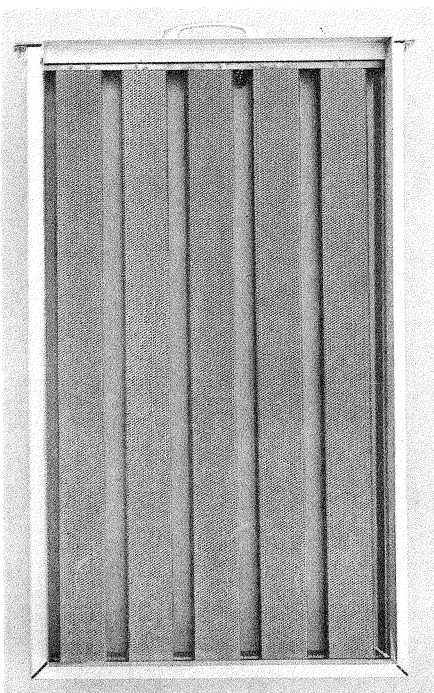
The Slim Twin electronic air cleaner has been designed to occupy a minimum amount of space in the return air duct (only 8 1/16" wide). The unit is equipped with flange tabs which enables the contractor to make snug duct connections. There is no need for either a water connection or drain. Electrical connections are easily made.



DIMENSIONS & SPECIFICATIONS

ACTIVATED CHARCOAL FILTERS FOR ODOR REMOVAL

Electro-air manufactures two companion charcoal filter racks that can be installed in conjunction with Slim Twin electronic air cleaners. The metal bands in the rack hold particles of charcoal which remove offensive odors from the air as it passes through the air handling system. Periodically the charcoal filter racks should be replaced by the factory.



Model Number	Model ST-14-A	Model ST-20-A
Capacity	1,100-1,400 cfm	1,400-2,000 cfm
Cabinet Dimensions H x W x D	20 3/4" x 23 3/8" x 8 3/4"	20 3/4" x 29 1/2" x 8 3/4"
Duct Openings—A x B (Inlet & Outlet)	20 5/8" x 17 5/8"	26 3/4" x 17 5/8"
No. of Cells and Weight	2 Cells, 12 lbs. Each	2 Cells, 15 lbs. Each
Terminal Box—P	2 7/8"	2 7/8"
Selenium Power Pack-Type Y x X x Z Power Req. Fuse Wattage Consumed	SE-D 23 3/8" x 8 1/2" x 4 1/8" 120 v, 60 cy. 1 ph. 1/2 Amp. 25	SE-D 23 3/8" x 8 1/2" x 4 1/8" 120 v, 60 cy. 1 ph. 1/2 Amp. 25
Approx. Shipping Wt.	60 lbs.	75 lbs.

HOW TO SIZE FOR HEATING OR COOLING:

Figure 1,000 CFM capacity for each 100,000 BTU input for heating or 400 CFM for each ton of cooling.



PARTS GUARANTEE TO ORIGINAL PURCHASER

All Electro-air Slim Twin electronic air cleaners are guaranteed to the original purchaser against defects in materials and workmanship for two years from date of manufacture. The electronic air cleaner must be installed by a competent heating and/or air conditioning contractor, operated within their listed capacity, and not moved from the original installation site. NO OTHER GUARANTEE, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, APPLIES. No employee, agent, dealer, or other person is authorized to give any guarantees on behalf of Electro-air.

Return any defective part, freight prepaid, to your Electro-air dealer or distributor and he will give you a replacement at no charge. Electro-air's liability is limited to replacement of defective parts and does not include the cost of labor, other expenses in servicing the unit, or incidental and consequential damages.



ELECTRO-AIR DIVISION
EMERSON ELECTRIC CO.
HARRISON, ARK. 72601

Continuous product improvement is a policy of the Electro-air Division/Emerson Electric Co. All models and specifications are subject to change without notice.