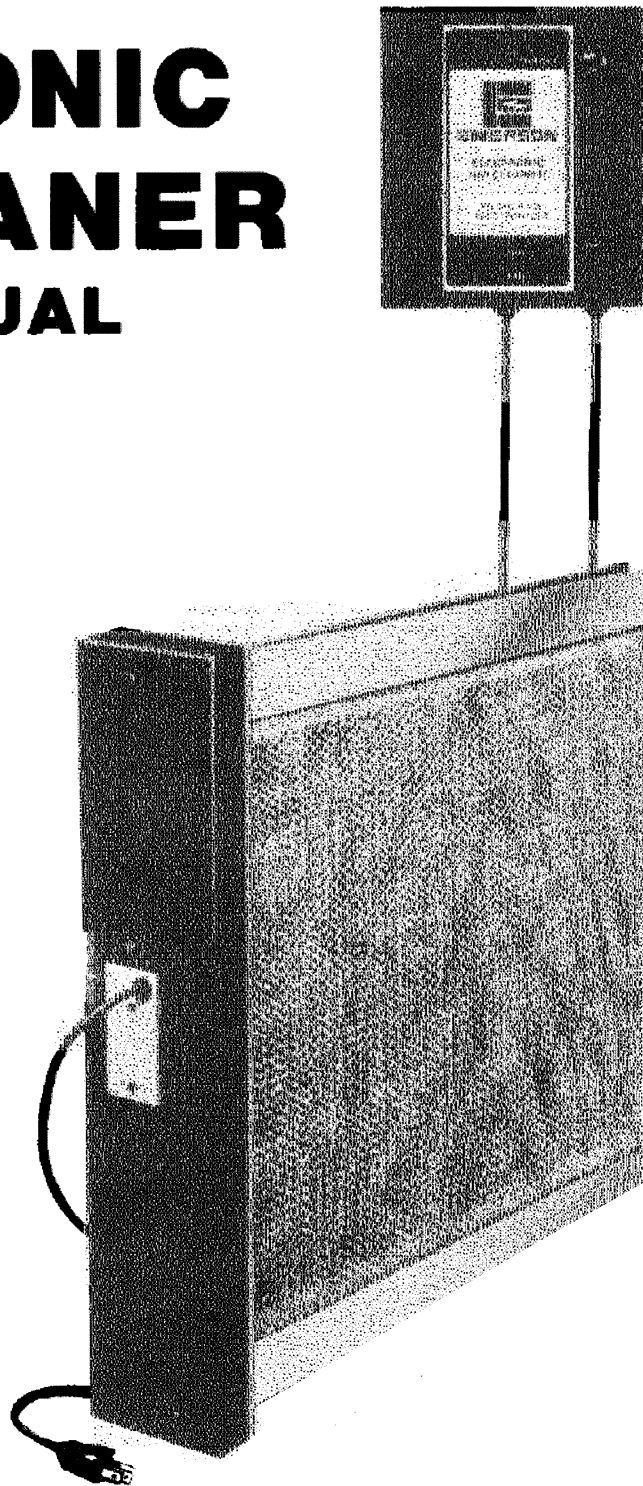


ELECTRONIC AIR CLEANER OWNERS MANUAL

- **Installation**
- **Operation**
- **Repair Parts**

MODEL NOS:

**8C11Y-41002
12C11Y-41002
14C11Y-41002
16C11Y-41002**



**CAUTION: Read rules for safe operation and installation instructions carefully
Save this manual for future reference**

Thank You!

Thank you for selecting an Emerson Electronic Air Cleaner. You can be sure it will provide years of service when given proper care and maintenance.

Introduction

Please read these instructions before using/installing your new Electronic Air Cleaner. This will help you obtain the full benefit of the unit. It will also help you avoid any unnecessary service calls and fees.

To function properly, your air cleaner must be installed correctly. You must know how to use the tools and equipment (listed below) and understand electrical wiring and its potential hazards. If there is any doubt, we ask that you contact your Emerson salesperson. They will arrange for a professional installation.

Rules for safe installation and operation

1. Read the Owners Manual carefully. Failure to do so could cause a malfunction of the air cleaner or result in unsatisfactory service.
2. Check your local codes and utility requirements. The installation must comply with their rules.
3. Always shut off the electricity before servicing.
4. Follow a regular service and maintenance schedule for efficient operation.

Basic tools and materials needed

Tools: Screwdriver, adjustable wrench, power drill, 1/4 and 3/8-in. drill bits, center punch, tin snips or sabre saw, file and 6 ft. rule or tape measure.

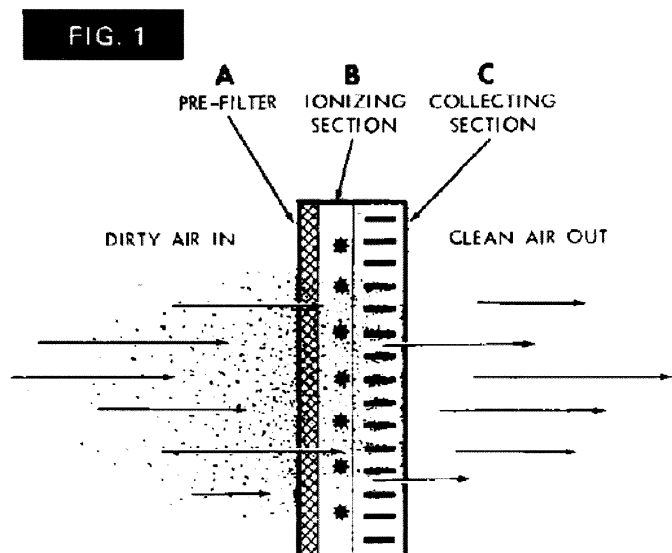
Materials: Duct tape.

HOW YOUR AIR CLEANER WORKS (Fig. 1)

Air containing dirt flows through the ducts and enters the pre-filter (A) where large particles (hair, lint, etc.) are trapped. Smaller particles (smoke, dust, pollen, etc.) pass through this pre-filter and enter the ionizing section (B). Here, each tiny particle receives a positive electrical charge. These positively charged particles then enter the collecting chamber (C). This section has a series of plates which are alternately charged positive and negative.

The positively charged dust particles are repelled by the positive plates and attracted to the negative plates, where they are collected... just as a magnet attracts iron filings.

Thus, only clean, filtered air re-enters the system to be circulated throughout your home.



AIR CLEANER CONSTRUCTION (Fig. 2)

Your new air cleaner is easy to install, plus it's also easy to operate and maintain. Its basic components are:

Collecting Cell — collects the dust, dirt and other impurities from the air. It contains the ionizing and collecting sections as described on page 2. The cell must be installed with the ionizing wires on the air intake side. It must be positioned with the handles and contact button toward the cell cover.

Pre-filter — serves to trap large particles such as hair and lint before they can enter the cell.

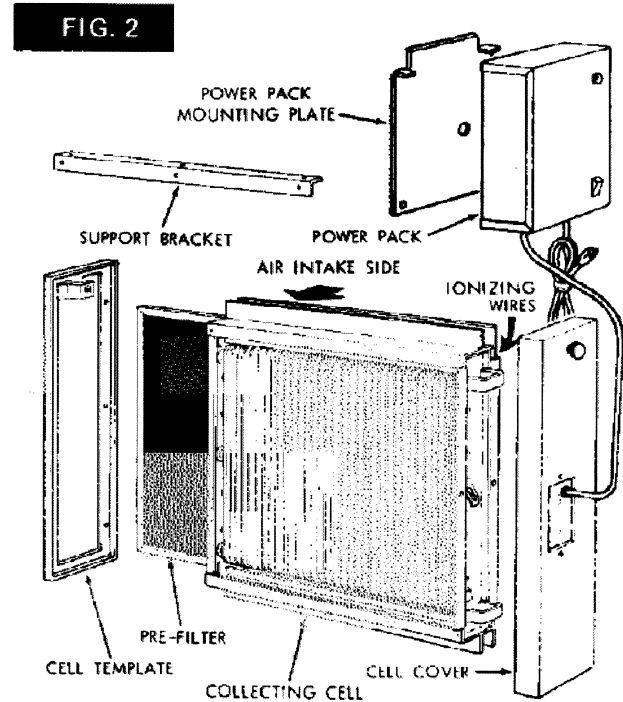
Cell Template — serves as a duct stiffener and support for the collecting cell — and as a pattern for cutting the duct when installing the Collecting Cell.

Cell Cover with Hi-Voltage Lead — provides positive electrical contact and firmly holds the Collecting Cell in place.

Power Pack — contains the operating light as well as the solid state airflow switch and electrical components.

Support Bracket — used in some installations.

Power Pack Mounting Plate — supports the Power Pack.



A. Locating the air cleaner

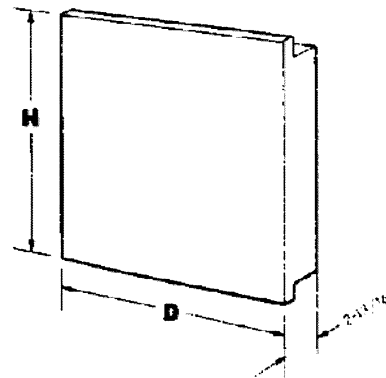
Select a location that assures:

1. Your air cleaner will be mounted in the return air duct so that the air flow first enters the pre-filter side of the cell.
2. The air cleaner should not be placed in the discharge side of either the heating or cooling unit.

IMPORTANT: If you have an atomizing (spray type) humidifier, it must be installed downstream from the air cleaner.

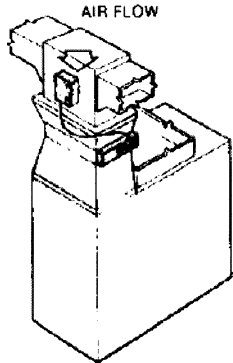
Allow the following space to permit removal of cell and pre-filter:

Model No.	Size		Space Needed
	H	D	
8C11Y-41002	16"	20"	20-in.
12C11Y-41002	16"	24"	24-in.
14C11Y-41002	20"	20"	20-in.
16C11Y-41002	20"	24"	24-in.



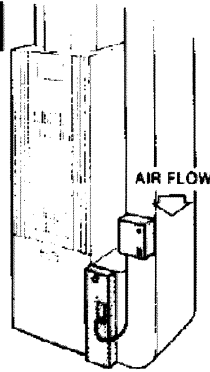
B. Typical mounting locations

FIG. 3



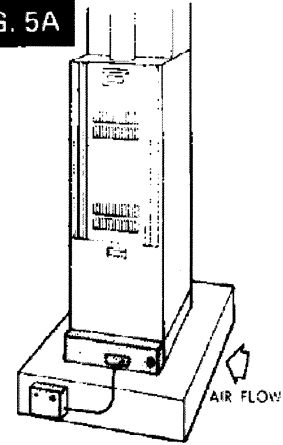
BASEMENT FURNACE (LOWBOY)
Mounted horizontally in return duct or plenum, just above furnace. Fig. 3

FIG. 5



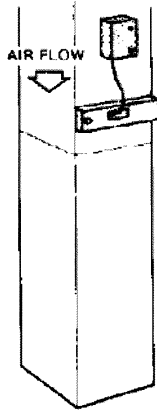
SPACE SAVER FURNACE (HIGHBOY)
Side installation. Cleaner is mounted vertically, where return air enters side inlet of furnace. Fig. 5.

FIG. 5A



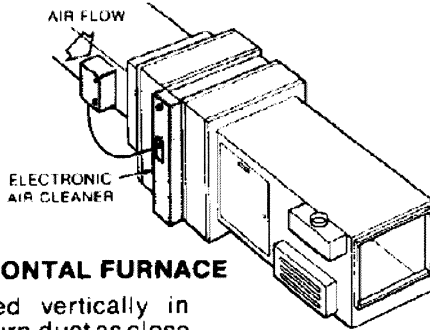
SPACE SAVER FURNACE (HIGHBOY)
Installation beneath furnace. Cleaner mounts horizontally, where return air enters from below. Raise furnace and install. Fig. 5A.

FIG. 4



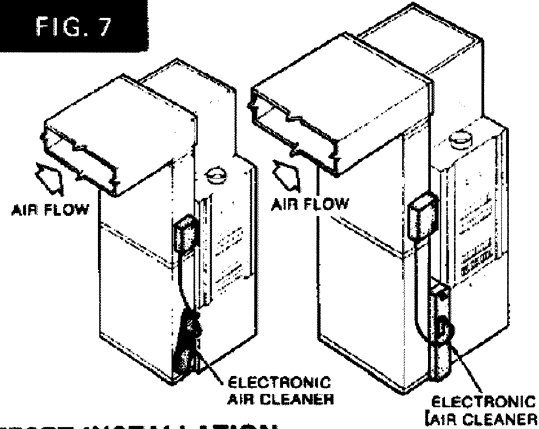
COUNTERFLOW FURNACE
Mounted horizontally in return duct or plenum, just above furnace. Fig. 4.

FIG. 6



HORIZONTAL FURNACE
Mounted vertically in the return duct as close to furnace as possible. Fig. 6.

FIG. 7



OFFSET INSTALLATION
If there is less than 7-in. for mounting the air cleaner between the duct and the furnace, move the return air drop. Fig. 7.

C. Mounting positions

FIG. 8

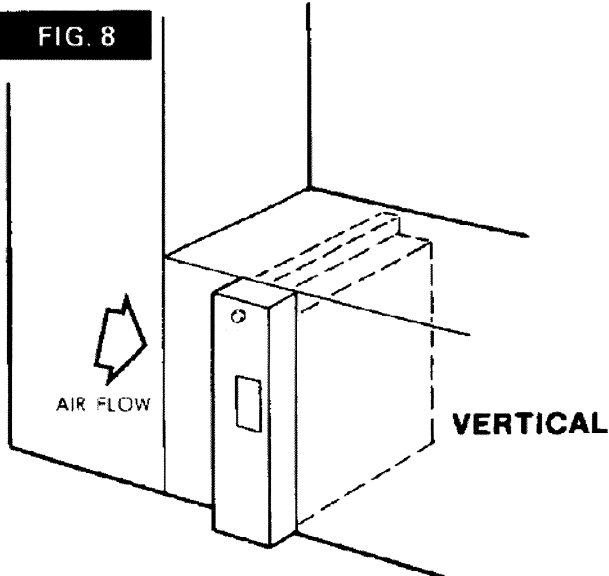


FIG. 9

