

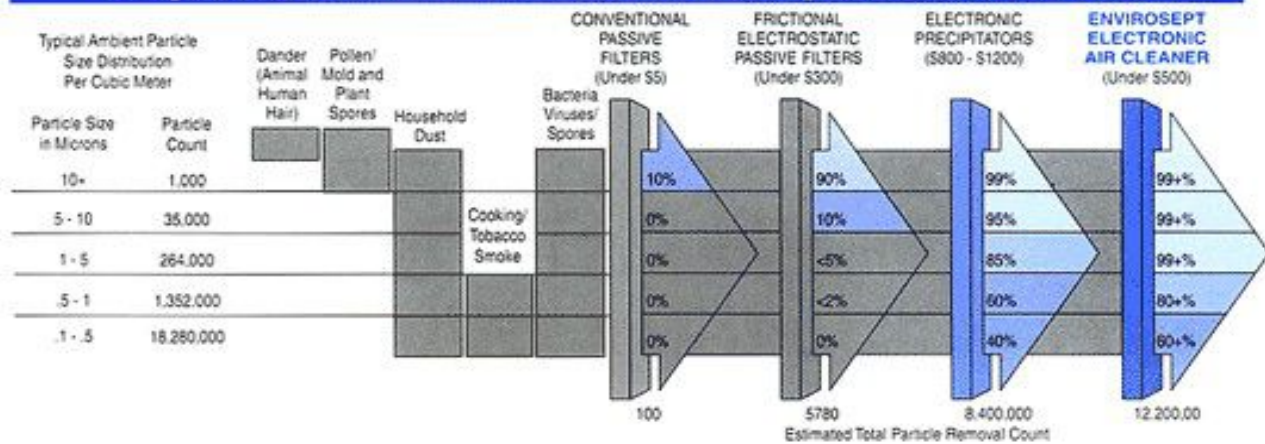


The EnviroSept Electronic Air Cleaner, a whole house air cleaner currently available in thirty-five standard sizes, is designed to easily replace an existing filter in a homes forced air heating or A/C system..

Benefits of the EnviroSept Air Cleaner:

- Produces cleaner air by **removing up to 99% of ALL airborne particles 1 micron or greater.**
- Allergy, asthma and hay fever symptoms may be relieved as irritating pollens, dust and molds are removed from the air.
- Drapes, carpets, furniture, and walls stay cleaner longer because dirt buildup is reduced on interior surfaces.
- **Fresher smell** with the reduction of particle-borne odors from cooking, smoking, pets, cleaners and paints.
- **Environmentally sound**, as it does not produce harmful ozone gases.
- **Easy installation** for new and existing air handling systems. Easily replaces existing filters and its 24-volt AC power supply can plug into any standard electrical outlet.
- Inexpensive disposable collector pads are easily replaced as required.
- **Saves money** - costs up to 70% less than most electrostatic precipitators and utilizes 95% less electrical consumption.
- The EnviroSept five-year limited warranty is of extreme importance to all customers. We will repair or replace (at our option) within a reasonable period of time any part that proves defective in materials and/or workmanship under normal installation, use, and service

Compare the cost and effectiveness of the EnviroSept Electronic Air Cleaner



CONVENTIONAL PASSIVE FILTER

- Very porous fibrous media
- Collects only large particles
- Collects particles by impingement

FRICIONAL ELECTROSTATIC FILTERS

- Form of passive filter
- Uses polystyrene as filtering media
- Collects smaller particles due to slight charge
- Efficiency drops as relative humidity increases

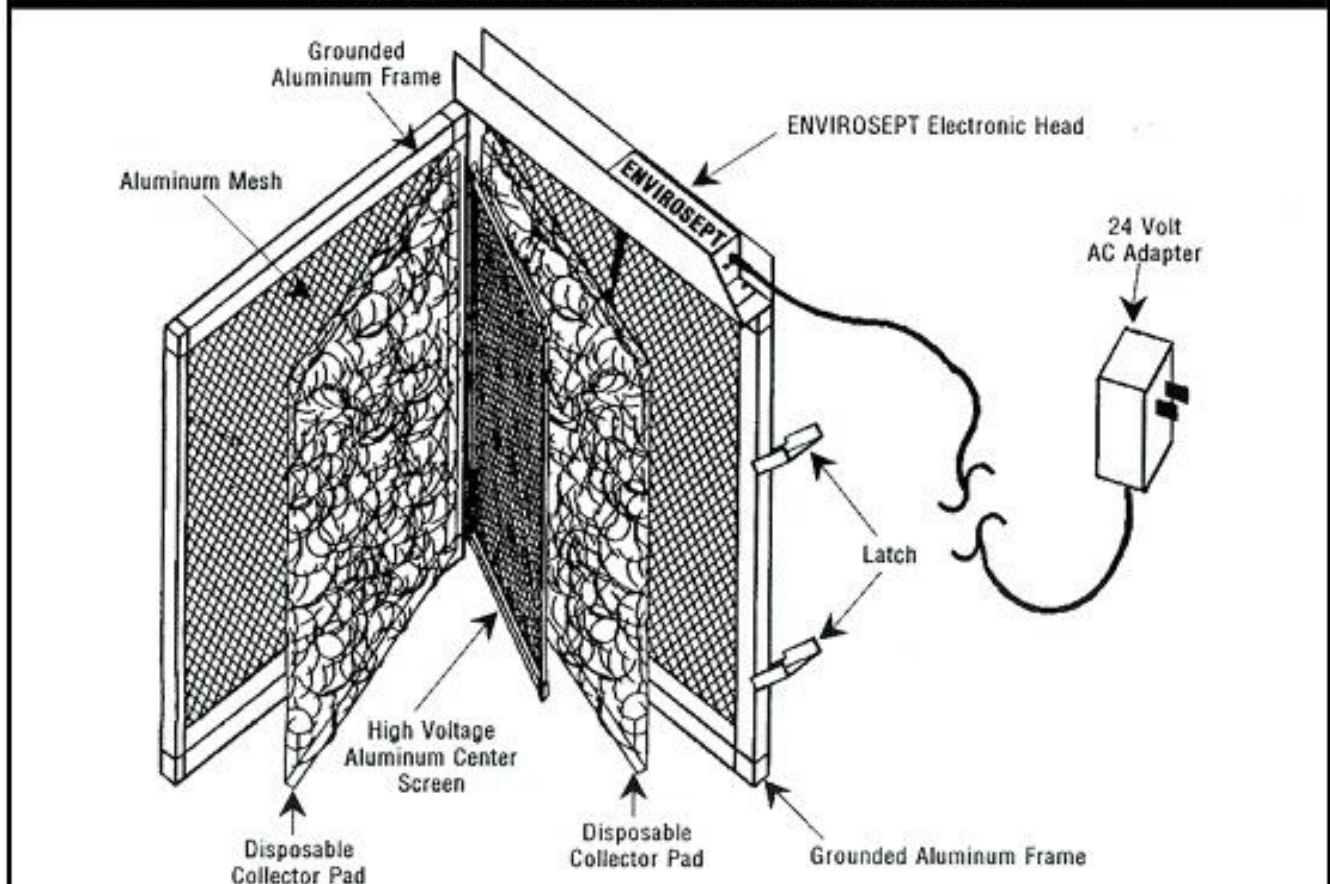
ELECTRONIC PRECIPITATORS

- High cost
- Generates ozone
- Difficult to maintain
- Creates a charge on the particle
- Efficiency drops as collector plates become dirty

ENVIROSEPT ELECTRONIC AIR CLEANER

- Lower cost
- No ozone
- Easy to maintain
- Does not create a charge on the particle
- Efficiency increase as collector pads become dirty

ENVIROSEPT ELECTRONIC AIR CLEANER



EnviroSept Electronic Air Cleaners: Indoor Air Quality

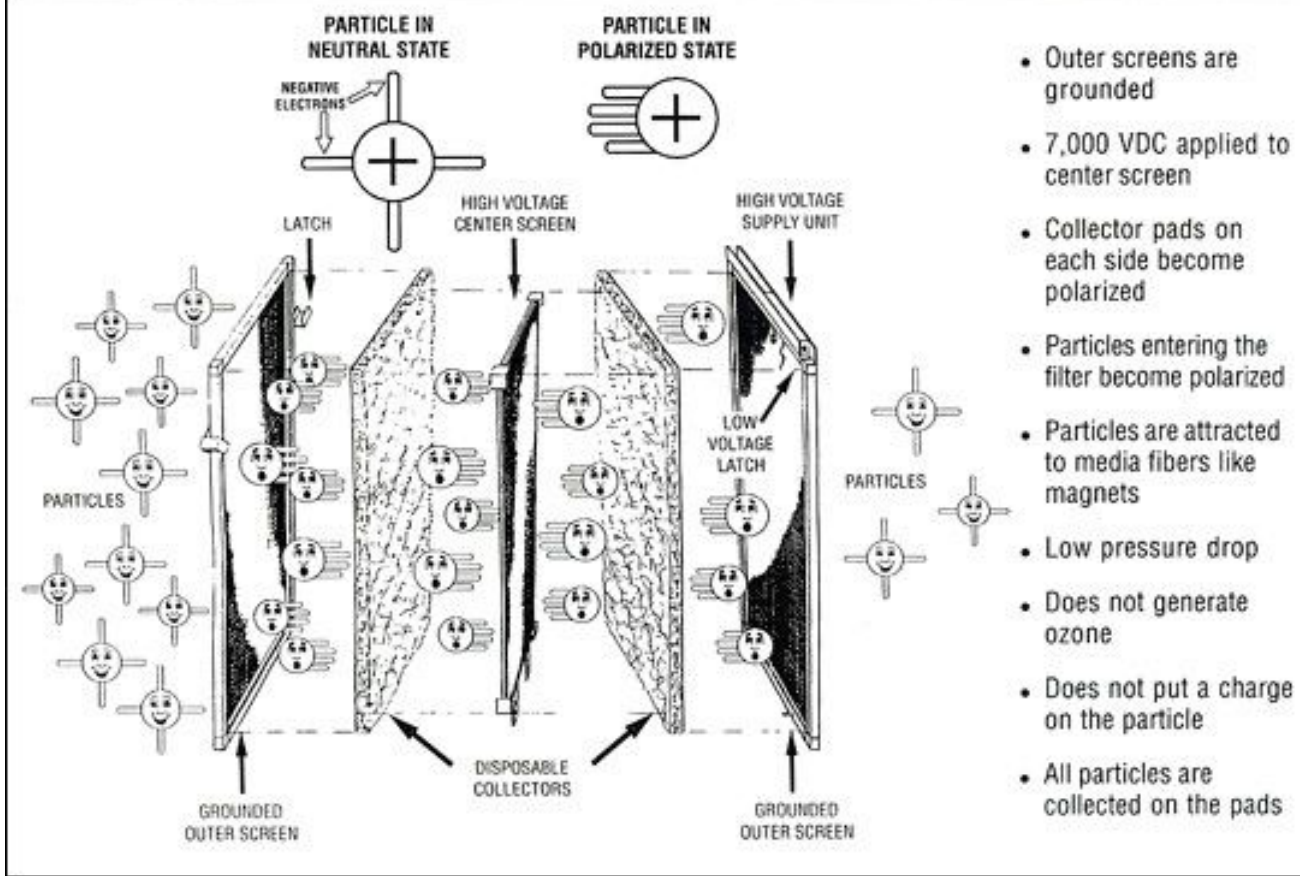
If you are typical, you spend 90% of your life indoors - at home, in the work place, shopping, etc. Energy conservation concerns over the last 20 years have led to tighter, better-insulated, climate controlled indoor environments. With these more energy efficient structures have come the perception that the indoor environment is healthier because polluted outside air is sealed out. Wrong! According to the EPA, whether you live or work in a smog-choked urban environment or enjoy the open spaces of rural living, indoor air has been found to be up to 70 times more polluted than the air outside.

Many of these air borne particles come from man-made materials used in furniture and upholstery, draperies, bedding, carpets, clothing paints, and cleaners. They also come from cooking, smoking, pets, candles, and fireplaces. Even some houseplants can produce pollutants.

There are approximately 20 million particles in every cubic meter of air and all are a barrier to a truly healthy and clean environment. These small particles pass through most filters and remain airborne or settle onto surfaces. The problem is removing these particles from the environment.

The following charts reflect the relative size of common airborne contaminants and their settling rate out of the air. Please note that most filters used in the home today only take out 90% or more of the particles greater than 10 microns. Below 10 microns, the results are minimal.

HOW THE ENVIROSEPT ELECTRONIC AIR CLEANER WORKS



Description of Operation

The EnviroSept is a highly efficient, non-ionizing, electronically enhanced media filter that utilizes the concept of dielectric polarization to effectively remove sub-micron particulate.

The concept of dielectric polarized media filtration, is effected through the use of a steady-state electrostatic force field acting on a dielectric media such as our special blended network of polywool fibers.

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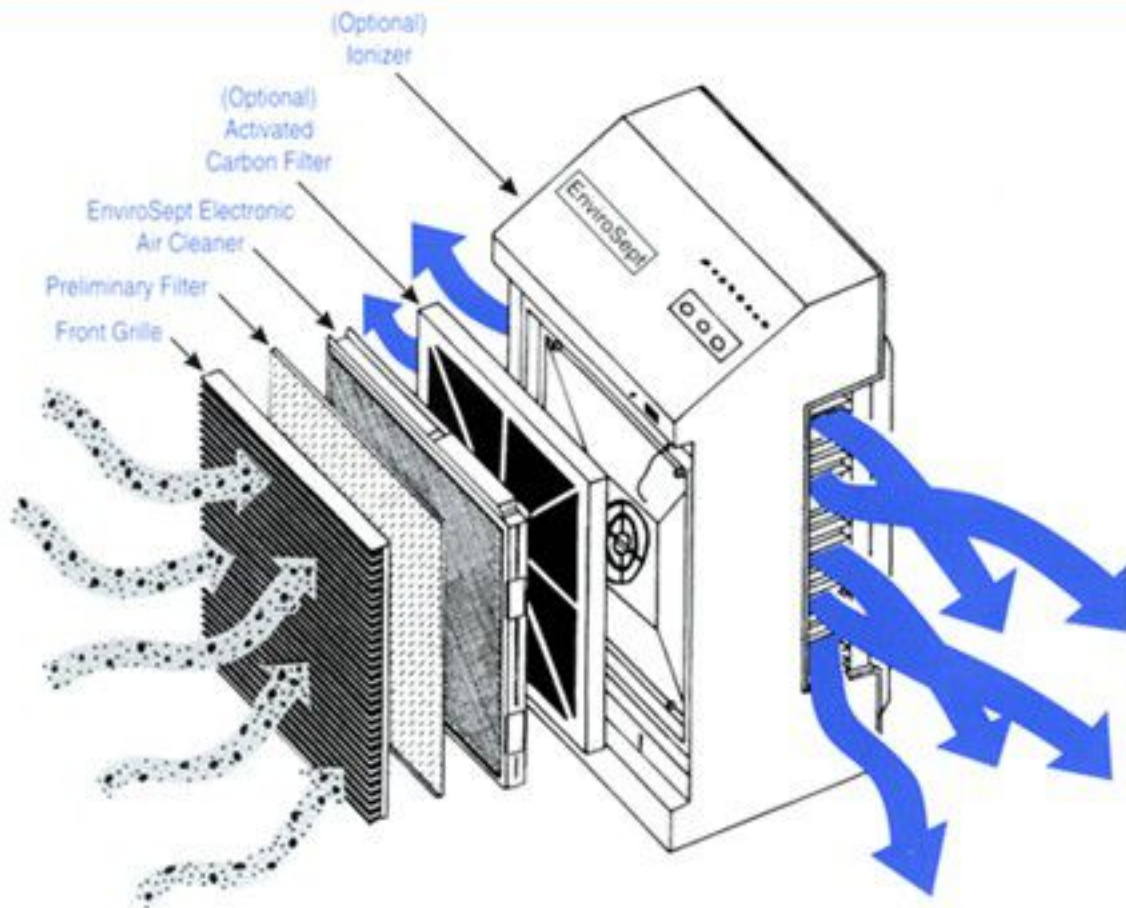
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The EnviroSept Electronic Air Cleaner, utilizing an input of 24 volts AC, generates a 7,000 volt positive DC charge from its proprietary solid state power head. This charge, applied to the central grid, polarizes the ½' thick polywool blended collector pads on either side of the grid. These pads are held in place by the two outer screens, which are grounded. Therefore, the EnviroSept Electronic Air Cleaner is really two filters in one due to the symmetry about the central grid.

An electrostatic field, when imposed on a bed of our polywool fibers causes each fiber to be

polarized, i.e., to cause a charge shift within the fiber. This results in each fiber being positive and negative on opposite sides of each fiber, in the direction of the high positive electrostatic field. Simply stated, we are creating millions of tiny powerful magnets to attract and hold air particles. Furthermore, particles entering the electrostatic field become polarized also, which means that they have a spacial varying charge distribution. They are attracted, with a force proportional to the square of the average hemispheric charge density, by the alternate polarized side of each collecting fiber. The use of a static electrostatic field (i.e., one without current flow and corona discharge) is important, since it prevents arcing and any generation of undesirable ozone.

In addition to the application of electrostatic polarization, the EnviroSept employs the principles of impingement and agglomeration. Impingement is the process that all media filters use to trap large air particles. These large particles build up on the front of the filter, while the smaller particles are collected through the media pads. Agglomeration of particles takes place as the all the particles having been polarized, collect together into larger particle that are collected on the charged media fibers.



CONSOLE ASSEMBLY

PREFILTER

- Traps large dust particles
- Permanent filter designed to be vacuumed

ENVIROSEPT ELECTRONIC AIR CLEANER

- Same design and effectiveness as the whole house filter
- 15 1/4" x 14 3/4" x 1"

ACTIVATED CARBON FILTER

- Activated charcoal filter for removal of most odors and gases
- 14 3/4" x 14 3/4" x 1"

DIMENSIONS

- Height: 22 inches
- Width: 16 inches
- Depth: 9 1/2 inches
- Weight: 21 pounds

MOTOR/FAN ASSEMBLY

- Three speed manual and remote controls
- 100 to 300 CFM
- All electrical components UL listed

CONSOLE PLACEMENT

- May be conveniently located on the floor, a table or easily mounted on a wall

Portable Console Unit

Our free standing portable console unit, containing the "EnviroSept" air cleaner, makes it the best product on the market today. It has the ability to remove a high percentage of air particulate while consuming less than 70 watts of power with a noise level of less than 60db. Weighing only twenty-two pounds, the advanced design of the "EnviroSept" allows it to be wall mounted or conveniently located on the floor or any table area.

The console unit with its high efficient three speed fan, available in a rich charcoal finish, comes standard with a remote control along with its manual touch pad control with timer. A high output ionizer, controlled by a separate switch, is available for those who want the added benefits of negatively ions in the air. In addition, an optional activated carbon filter may be added at any time for the control of gaseous odors.