

**FRESH AIR  
VENTILATION  
AND HEPA  
FILTRATION**



**HEPA**  
HV-500

**WITH AROMATHERAPY**

# Dusty Air!

It is widely acknowledged that the air in today's homes is filled with dust, pollen, mould and thousands of other pollutants. Regardless of their state (particulate, gas or microorganism), all these substances can provoke allergies, asthma and a variety of respiratory problems, as well as disease. In fact, the air in most homes has a higher concentration of harmful particles than the air outdoors. Since we spend nearly 90% of our lives indoors, an indoor pollutant particle is 1000 times more likely to reach our lungs than a pollutant released outdoors. It has been proven that poor indoor air quality is a major contributor to the increasing number of asthma and allergy attacks every year. Research now confirms that smog is a cause of asthma. It is not surprising then that nearly one out of ten children suffers from asthma (and allergies) and that three out of ten adults suffer from various respiratory conditions.

It is common to breathe in millions of microscopic particles. Microns are the unit of choice to describe particle size.

One micron is one thousandth of a millimeter. Particles less than 2.5 microns are potentially more dangerous because they are able to penetrate the body's natural defenses and pass through into the lungs.

The smaller the particle, the more harmful it becomes for you and especially your children.

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## POLLEN

Pollen comes from trees in the spring, and flowers, ragweed and other plants in the summer. It is carried by the wind and enters our homes via cracks, open doors and windows.

## DUST MITES

Mites and their feces reside in the dust present indoors, especially in carpeting, cushions, bed coverings and stuffed toys. They are the primary cause for a large number of allergic reactions (rhinitis, conjunctivitis, eczema, asthma...).

## MOULD

The heat and humidity in a home foster the proliferation of mould. Thousands of airborne spores are, therefore, found in homes.

## CIGARETTE SMOKE

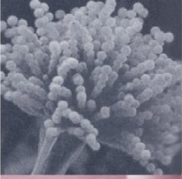
Each cigarette produces millions of microscopic dust particles, noxious gases and odors that travel into every room in your home.

## CHEMICAL SUBSTANCES

Numerous chemical substances are present in today's homes such as resins, glues, varnishes, solvents, paints, household cleaning products, formaldehyde, and other volatile organic compounds known as VOCs.

## SMOG

Visible during hot summer days, smog is a brownish-yellow vapor containing ozone and particulates. Ozone is a highly oxidizing compound that can provoke asthma attacks and heart attacks.



# Humidity and Ventilation Problems

Airtight homes retain more than just heat.



Today's homes are built for maximum energy conservation. To prevent heat loss, newly built homes have higher insulated values. Airflow restriction does save heating costs, but will also lead to poor indoor air quality. Humidity and indoor pollution become trapped in your home. As well, this may lead to structural damage. This is why new homes should be equipped with a ventilation system that supplies fresh air in and exhausts stale air outside.

## Asthma and Allergies

One out of four people is allergic to at least one of the contaminants commonly found in our homes. Even though you may not suffer from any allergies, it would be wise for you to take into account the long-term effects of living in polluted surroundings.

**90% of allergies are triggered by allergens coming from outdoor plants.**

**In order to control asthma and allergies, physicians recommend decreasing your exposure to all allergens.**

**There is no way to decrease the quantity of pollutants outside your home, but you can remove these allergens from the home and prevent many from entering.**



## Chemical Pollutants

Kitchen and bathroom odours produced daily become trapped in your home. Your home contains chemical pollutants such as:

- **carbon dioxide** – a respiration and combustion by-product that in high concentration will lead to dizziness, headaches and chronic fatigue
- **carbon monoxide** – produced by combustion appliances also causes headaches and fatigue
- **formaldehyde** – present in your home from glue, carpet, plastics and melamine, can provoke allergies, eye and skin irritations and several cancers with long-term exposure
- **radon gas** – a noxious gas that concentrates in damp basements is the second leading cause of lung cancer

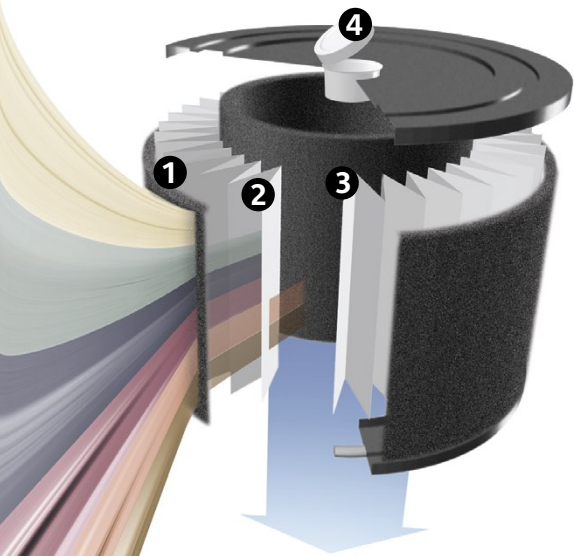
## Home Damage

Window condensation in the winter is a sure sign of poor indoor air quality in your home. Over time, this will promote mould growth and can lead to hidden structural damage inside the walls.



# The Solution

Developed by health care professionals



**1 Pre-filter:** Air is drawn in through a carbon pre-filter that removes large particles, such as dust, pollen and fibers.

**2 HEPA Filter:** The finest particles including bacteria, attached viruses, mould, radon, smoke, and dust are captured by the main HEPA filter.

**3 Carbon Trap:** The volatile organic compounds (VOCs) present as gases, fumes, and odors are absorbed by the carbon trap.

**4 Aromatherapy and MicroGerme Treatment:**



The specially integrated diffuser can be used with one of many fragrances. This diffuser can also be used with MicroGerme treatment to combat airborne mould.

MicroGerme is an all-natural group of compounds that prevent the growth of mould in the air, in your ductwork and on the surfaces in your home.

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HV-500  
Ventilation System  
with HEPA Filtration

## HV-500 Ventilation System with HEPA Filtration

### Humidity and Dust Control System

The Epurair HV-500 HEPA and Ventilation System is designed for continuous use. The System purifies air to HEPA standards and brings fresh air into your home 24 hours a day. If the humidity level in your home is higher than the desired setting you control, the Epurair HV-500 System automatically changes from recirculation/filtration mode to ventilation/filtration mode in order to dehumidify your air and improve your home's indoor air quality.

## Asthma and Allergies Symptoms

REDNESS OF THE EYES

NASAL CONGESTION

RUNNY NOSE

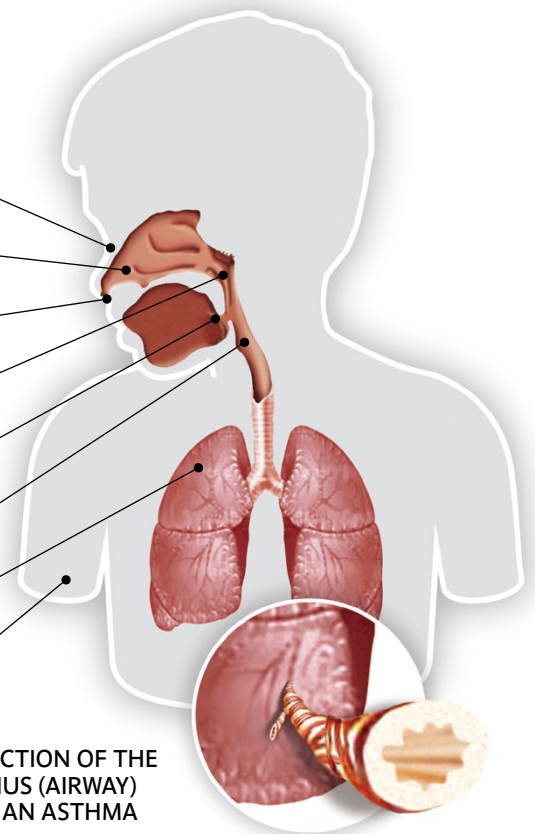
SNEEZING

COUGHING

SHORTNESS OF BREATH

WHEEZING

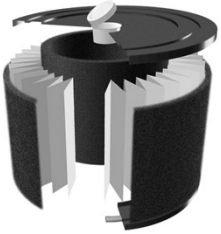
REDNESS OF THE SKIN



CONTRACTION OF THE  
BRONCHUS (AIRWAY)  
DURING AN ASTHMA  
ATTACK

# What is a HEPA Filter?

The Epurair Air Purification System employs a HEPA filter, the world's most effective filter.



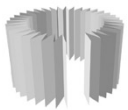
## HEPA (High Efficiency Particulate Air)

HEPA is a standard that was developed by the American Nuclear Energy Commission. HEPA filters are the world's most efficient air filters. They are used in hospitals, pharmaceutical preparation and electronics manufacturing to eliminate very fine particulates. To be classified as a HEPA filter, the filter must eliminate 99.97% of all particles 0.3 microns or larger.



## Technical Features

Disposable carbon pre-filter eliminates the chore of cleaning filters.



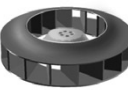
Manufactured in the form of a cylinder, the Epurair HEPA filter boasts a far larger filtration surface area than rectangular filters, thus resulting in a longer lifespan (3 to 5 years).



The carbon trap absorbs gases, odors and fumes.



Optimal sealing of the filter as a result of a titanium pigment sealing joint.



The CSA and UL approved air circulation motor, manufactured in Germany, is designed for both energy efficiency and ultra-quiet performance. The acoustic design ensures that only 32 dB of sound are produced on low speed and 52 dB on high.

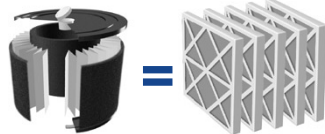


The long-lasting steel casing has an exceptionally resistant, baked polyurethane diamond finish.



The integrated diffuser is designed for both the aromatherapy and disinfection needs of your entire home. The many subtle aromas you can choose from are derived from natural plant extracts.

## Our HEPA Filter will last up to 5 years



The cylindrical shape of the Epurair HEPA offers a larger filtration surface area than rectangular filters. The result is a longer lasting filter.



Epurair uses laser analysis devices to certify each of its products.



## Certified 99.97% HEPA Filter

*All Epurair units come with a written guarantee for 99.97% filtration of extremely minuscule (0.3 micron) particles. Like only the most effective systems, the ventilation casing is sealed off from the Epurair HEPA filter using an airtight hermetic seal. Every Epurair HEPA System is individually tested and analysed for certification with a laser particle counter. This is why we are confident and proud to provide a certificate of effectiveness with every system.*

# Our reputation was built on bringing quality and originality to all Epurair products.



**Our systems are the only systems manufactured and shipped with a Filtration Efficiency Certificate and 5 year Warranty.**

All Epurair HEPA Systems are backed by a 5 year limited warranty. The HEPA filter inside each unit is guaranteed for 2 years. **Some selected retailers can offer a 10 year warranty.**

**Guaranteed 5 years**



## You're in good hands

All Epurair retailers must attend training sessions to learn about air quality, asthma and allergies. They will help you choose the system that best suits your needs.

## Specifications

**Dimensions:** 16" wide  
23" deep  
30" high

**Purified Air Flow:** 500 cfm maximum

**Fresh Air Intake Flow:** 150 cfm maximum

**Colour:** Diamond Grey

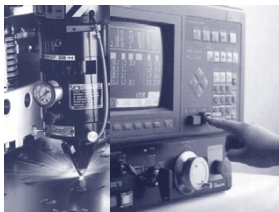
**Materials:** 16 and 20 gauge cold rolled metal

**Finish:** baked on powder paint

**Motor:** Thermally protected Class B, insulated  
Run tested for 50 000 hours  
Service: 120 Volt, 60 Hz

**Control:** Integrated Dehumidistat

**Filter Duration:**  
Stage 1 Carbon Prefilter - 3 months  
Stage 2 HEPA filter - 2 to 5 years  
Stage 3 VOC Carbon Filter - 1 year



## Technology

Epurair Systems are manufactured with industry-leading processing techniques. Our engineering team is always working with our medical group to employ the most recent technology in the design of our high quality systems.

## Recognized by Physicians

*HEPA air purification systems are recommended by respiratory physicians, as such the cost of the appliance may be deductible from your taxable income.*



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