

**FRESH AIR
VENTILATION
AND HEPA
FILTRATION**




EPURAIR
HV 500

WITH AROMATHERAPY

How Is My Air?

What you can't see can harm you.

It is widely acknowledged that the air in our homes is filled with dust, pollen, mould and thousands of other pollutants. Whether it's a matter of particulates, gases or bio-burden, 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 cases every year. For the first time, researchers have concluded that smog can cause 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.

We breathe in millions of microscopic particles. Microns are the unit of choice to describe particle size. One micron is one thousandth of a millimetre. Particles less than 2.5 microns are more so potentially dangerous because they are able to penetrate the body's natural defences 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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Purifying the air we breathe in our homes is essential since we spend the major part of our lives indoors. Air pollution will trigger asthma, cause congestion in the nose and throat and irritate eyes, but recent research has discovered the added threat of increased risk of cardiovascular disease. Numerous health problems can develop as a result of continuous exposure to contaminants and allergens.

POLLEN

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

DUST MITES

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

MOULD

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

CIGARETTE SMOKE

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

CHEMICAL SUBSTANCES

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

SMOG

Visible during hot summer days, smog is a brownish-yellow vapour 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 caused by allergens that come from outdoor plants.



In order to control asthma and allergies, physicians recommend decreasing our exposure to all allergens. We are unable to decrease the quantity of allergens outside our home. We can however, reduce these allergens inside the home and help prevent them from coming in.



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.

What is a HEPA filter?

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



HEPA (High Efficiency Particulate Arrestance)

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 in size.



Technical Features

Disposable carbon pre-filter requires no cleaning.



Manufactured in the form of a cylinder, the Epurair HEPA filter boasts a far larger filtration surface area than rectangular filters. This is why it lasts for a very long time (3 to 5 years).



The Activated Carbon Trap eliminates Odours & Volatile Organic Compounds (VOCs). To eliminate odours, gases and vapours, Epurair uses activated carbon that acts like a sponge. Unlike some disinfection technologies, the carbon will not add anything harmful to your air.



Optimal sealing of the filter is 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 is why only 32 dB of sound are produced on low speed and 65 dB on high.

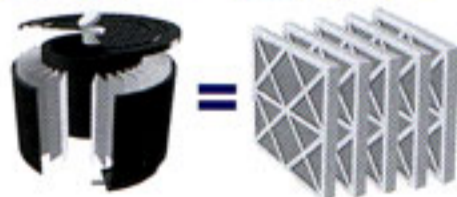


The long-lasting steel casing has an exceptionally resistant, baked polyurethane diamond finish.



The integrated diffuser is designed for both the aromatherapy and sanitization needs of your entire home. The many subtle aromas you can choose from are made 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.

The Epurair HEPA system eliminates 99.97% of all airborne dust particles and allergens



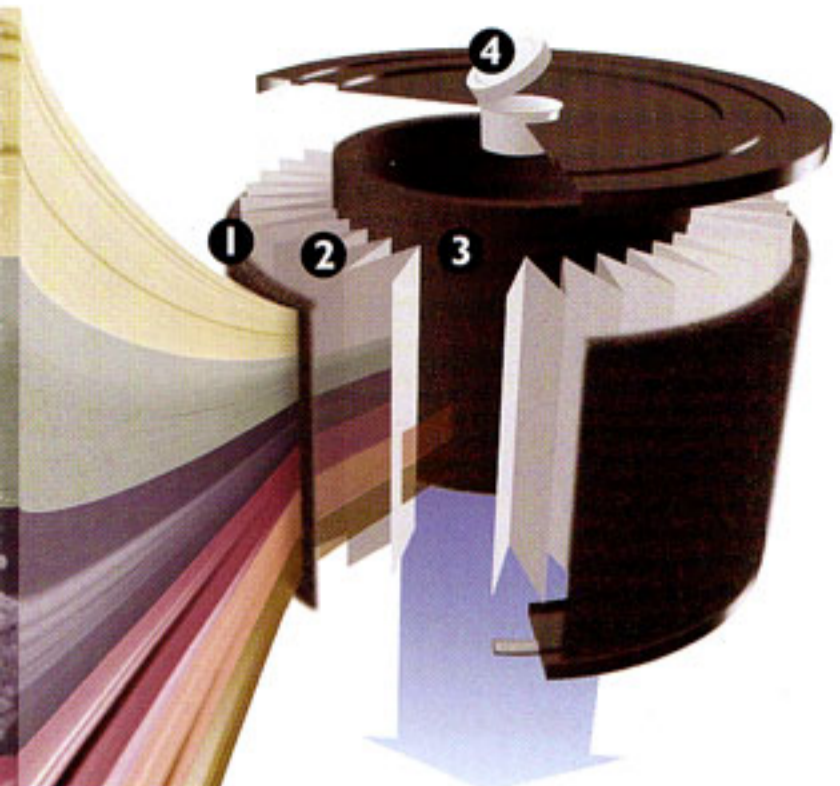
Certified 99.97% HEPA Filter

All Epurair units come with a written guarantee for 99.97% filtration of extremely minuscule 0.3-micron particles. For an air purification system to be effective, a hermetic seal must exist between the filter and the ventilation casing.

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.

The Solution

Developed by health care professionals



HV-500 Ventilation System with HEPA Filtration

Humidity and Dust Control System

The Epurair HV500 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 HV500 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.



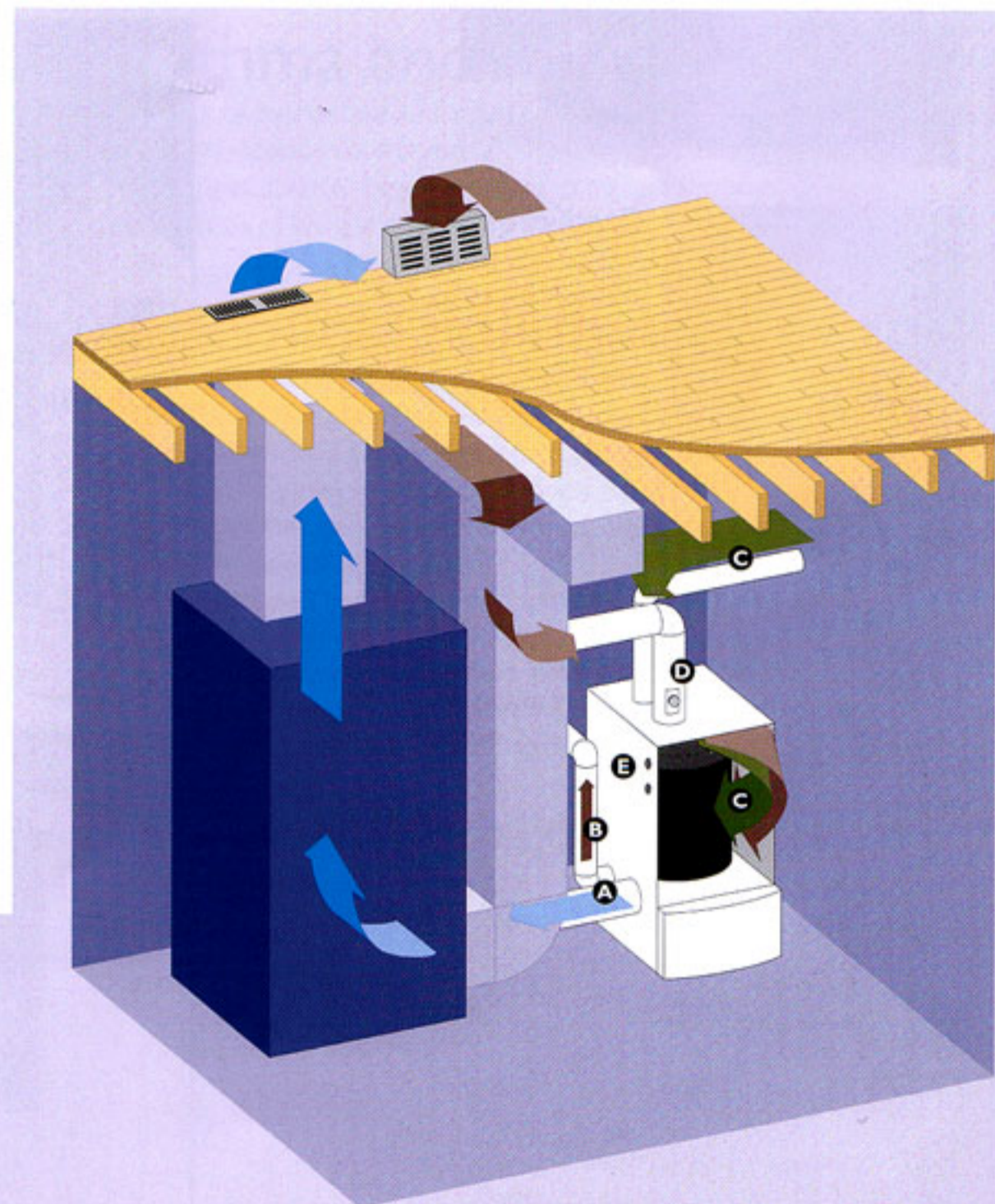
HV-500
Ventilation System
with HEPA Filtration

- 1 Pre-filter:** Air is drawn in through a carbon pre-filter that removes large particles, such as dust, pollen and fibres.
- 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 odours are absorbed by the carbon trap.
- 4 Aromatherapy and MicroGerme Treatment:** A special diffuser is integrated into the system for use with one of many natural and subtle aromas available for your home. This diffuser can also be used with MicroGerme treatment to combat air-borne mould. MicroGerme is an all-natural group of compounds that help sanitize your ductwork and surfaces in your home.



Installation and Air Flow

Continuous air circulation and filtration helps eliminate stale air and odours.

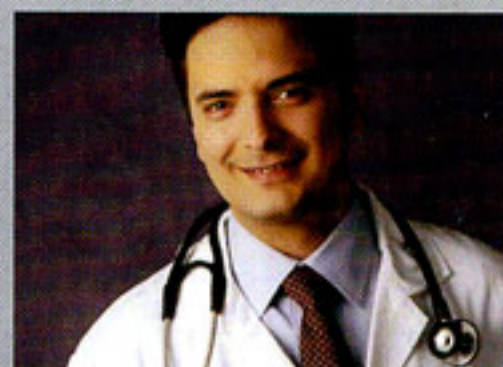


- A** Purified air in your home 24 hours a day
- B** Stale polluted air is exhausted allowing fresh air to enter
- C** Fresh outside air passes into the HEPA filter chamber
- D** Adjustable humidity control
- E** Two speeds: 1) recirculation and filtration
2) ventilation and filtration

All Epurair HEPA systems come with a 5 year limited warranty. The HEPA filter that comes with each unit is guaranteed for 2 years.



We believe quality is our most important asset and that has made our reputation today what it is.



Simon Labrecque, Inh, RRt
Respiratory therapist

As the Director of Medical Products Development at Epurair, Simon is our asthma and allergy specialist. After several years working with asthmatic children, he developed the Epurair HEPA system.

Please don't hesitate to contact him!

Customer service -
Medical and technical information:
1 (800) 205-1108

Specifications

Dimensions:

16" wide
23" deep
30" high

Purified Air Flow:

500 cfm maximum (recirculation mode)
350 cfm average (ventilation mode)

Fresh Air Intake Flow:

15 cfm - 20 cfm (recirculation mode)
40 cfm - 150 cfm maximum (ventilation mode)

Colour: Diamond Grey

Materials: 16 and 20 gauge cold rolled metal
Finish: baked on powder paint

Motor:

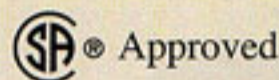
Thermally protected Class B insulated motor
Run tested for 50 000 hours

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 cutting edge processing techniques. Our engineering team is always working with our medical staff to employ the most recent technology in the design of our high quality systems.



Certification

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



Mario Di Franco HBS, MScEd
Air Consultant, Chemist and Physicist

Mario works with Simon in developing the training sessions that all Epurair retailers must attend in order to learn about indoor air quality. Your dealer will help you choose the system that best suits your needs.

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



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Epurair Product line



Ventilation

HV500
Air Exchange System
with HEPA filtration

Ventilation

VRC-195
Heat Recovery
Ventilator with
fire alarm

Filtration

MAI
HEPA filtration,
portable and
central system

Filtration

EP2020
99% filtration
(2 microns)

Natural
Biodegradable
Cleaner
MICROGERME
Sanitizing
treatment