Inivos®

HEPA-800 Sales Brochure

Providing cleaner air for homes,
businesses and care-critical environments

INV1.2

HEPA-800

MAKING CLEAN AIR A BREEZE

HEPA-800 is an easy-to-use and effective mobile solution for air decontamination of risk areas in hospitals. The simple plug-and-play unit makes it instantly operational without the need for complex user training and can reach performances expected for ISO 8 (NF EN ISO 14644-1).

HEPA-800 helps prevent hospital borne diseases thanks to the combined action of filtration and cold plasma technology.

Air and Air Filtration

The air we breathe is responsible for the spread of microorganisms and as such, a common vector for the transmission of harmful pathogens that pose a risk of causing infection.

Several studies have shown that aerosols can spread the coronavirus. Smaller that 5µm, these particles can remain suspended in indoor air for up to three hours.

Maintaining good levels of indoor air quality (IAQ) is vital in minimising the spread of airborne infections that pose a serious threat to immunocompromised patients, staff and visitors within hospital and wider healthcare settings.

To avoid airborne transmission, several standards have been established to frame the hygienic air treatment, manage the risk related to patients, and reduce nosocomial infections.

HEPA-800
PRODUCT OVERVIEW

Product Features

- Air flow up to 800 m^3/h
- LCD touch screen
- Lockable controls
- 4x operating modes
- 3x air flow speed settings
- Alarms for filters and maintenance
- Temperature and humidity readings

Class Rating

- ISO 7 in room up to $130m^3$
- ISO 8 in room up to $200m^3$

Product Components

The HEPA-800 is a mobile and compact air filtration unit that disinfects and purifies homes, businesses and care-critical environments.

Its compact and elegant design adapts easily to the atmosphere of your space to provide a non-obtrusive solution to improving air quality.

HEPA H13 and ionisation technologies give HEPA-800 a bacterial efficiency greater than 99.99% against Staphylococcus Albus*.

HEPA-800 fights against microorganisms thanks to the combined action of HEPA H13 filtration and ionisation.

A natural process, ionisation consists in creating a strong electric field at the top of a spike. The spike will then generate an ionic breeze with a vast quantity of negative ions being spread in the environment.

Negatively charged ions are attracted by positively charged ones having an important neutralisation effect on particulate matter and microorganisms present in the air.

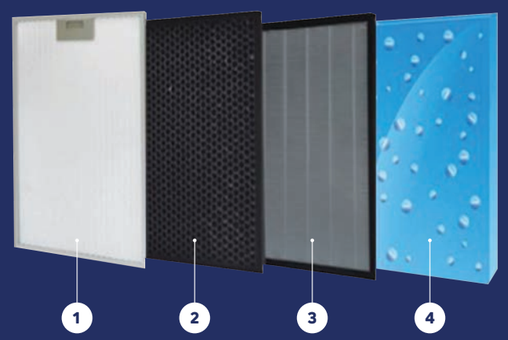
*Tests carried out in November 2017 and May 2020 by two independent laboratories.

1. LCD SCREEN & CONTROL PANEL
2. AIR SUPPLY
3. REMOVABLE AIR SUPPLY GRID
4. AIR INTAKE
5. FILTER COVERS (BOTH SIDES)
6. PRE-FILTERS (BOTH SIDES)
7. CARBON & HEPA H13 FILTERS (BOTH SIDES)
8. IONISER
9. PM2.5 SENSOR (REVERSE)
10. FRAME WITH INTEGRATED FAN AND FOUR WHEELS

HEPA-800
HOW IT WORKS

Air Filtration

1 PRE-FILTRATION ACTION: a pre-filter retains coarse particles.
2 CARBON FILTRATION: to trap odours VOCs, etc. with carbon filter which effectively destroys smokes, formaldehydes, ammonia, benzene and other harmful gases.
3 HIGH EFFICIENT FILTRATION: a HEPA H13 filter retains 99,95% of particles with a diameter no less than 0,3µm.
4 IONISER: negatively charge air particles to keep them away from human respiratory system.



The Ionisation Process

Ionisation occurs by emitting negatively charged ions into the air. These ions attract positively charged ions, which includes allergens, particles and bacteria, and causes a bond to form between them. Once this bond is formed, the particles become heavier than normal, this weight increase causes the bonded particles to fall to the ground, thus preventing them from being inhaled.

Negative ions are also renowned for their contribution to the synthesis and storage of vitamins.

Use in Critical Care Settings

HEPA filters are critical in the prevention of the spread of airborne bacteria and viral organisms thereby mitigating infection risk. The H13 HEPA filtration used within the HEPA-800 can capture and reduce 99.97% of fine particulate matter in the air making it effective for use in areas where Level 2 ISO 8 filtration and purification is required.

RISK LEVEL	CLASS	DESCRIPTION	EXAMPLES
Level 2	ISO 8	Moderate high infectious risk	Endoscopy, Multi-purpose room, Intensive care room
Level 3	ISO 7	High infectious risk	Cardio-vascular surgery, Hematology room, Interventional Imaging room
Level 4	ISO 5	Very high infectious risk	Organ transplant, Burn wards, Cardiac (open heart)

All levels are required to have a fresh air rate of 6 vol/h and to be below a noise level of 48 dB(a).

General Maintenance

PRE-FILTERS:

There are two air intake pre-filters inside the machine, they must be replaced every 24 months.

The pre-filters can be cleaned with compressed air every 3,000 hours, or according to the wear indicator on the machine. Depending on the level of dust in the room, do not hesitate to clean the pre-filters more regularly.

HEPA FILTERS:

The device includes two blocks of Activated Carbon & HEPA H13 filters, to be replaced every 6 months, or every 3,000 hours (wear indicator on the machine).

Specification

AIR FLOW (m^3/h)	400 TO 800 m^3/h
AIR SUPPLY	LATERAL INTAKE, TOP DIFFUSION
CONTROL & DISPLAY PANEL	MULTIFUNCTIONAL TOUCH-SCREEN
DIMENSIONS	400 x 400 x 669mm (L x W x H)
WEIGHT	14kg
FILTRATION SYSTEM	PRE-FILTER + ACTIVE CARBON + HEPA H13
DECONTAMINATION SYSTEM	IONISATION
FILTER CHANGE	EVERY 3000 HOURS (RECOMMENDED)
SOUND LEVEL AT 2 METRES	31.6 dB(a) @ 250 m^3/h | 40.2 dB(a) @ 500 m^3/h | 47.4 dB(a) @ 800 m^3/h
POWER SUPPLY	220-240 V / 50-60Hz
POWER CORD LENGTH	2m
MOBILITY	4 INTEGRATED WHEELS
WASHABLE PRE-FILTER LIFE	REPLACE EVERY 24 MONTHS

FOR MORE INFORMATION OR TO ORDER, PLEASE CALL +44 (0)845 270 6690 OR VISIT WWW.INIVOS.COM