

NOVAERUS DEFEND 1050 IN HEALTHCARE



Kill Pathogens.
Trap Particulate.
Eliminate Odor.

The new Novaerus Defend 1050 combines our patented plasma technology for rapid air disinfection with a Camfil® triple-stage filter system for superior air purification.

- ✓ Destroys airborne viruses and bacteria
- ✓ Neutralizes odors and VOCs
- ✓ Traps coarse and fine particulate matter
- ✓ Reduces airborne mold spores and pollen
- ✓ Safe, portable, and easy-to-use



IEC 60601 Certification

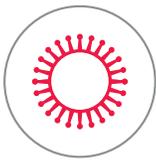
Voltage:	120 VAC / 60 Hz
Fan settings:	5 speeds
Energy use:	137 – 331 W
Air flow:	107 – 533 CFM
Size:	19.9" (w) × 39.4" (h) × 18.3" (d)
Weight:	112 lbs
Filter 1:	M5 Pre-Filter
Filter 2:	HEPA H13 Filter
Filter 3:	G4 Carbon Pleated
Noise level:	47.9 – 75.1 dBA at unit 38.5 – 62.9 dBA at 3 ft away

WHY CARE ABOUT INDOOR AIR

According to the EPA, indoor air can be anywhere between **5 times** and **100 times** more polluted than outdoor air. Especially in hospitals and healthcare facilities, the air is teeming with bacteria, viruses, VOCs, allergens, and odors. In addition, a global crisis has emerged: **antibiotic resistance**.

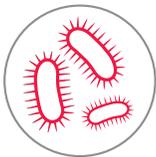
Already, **70% of bacteria** worldwide have developed **resistance to antibiotics**, making treatment of serious infections increasingly difficult and less successful. On any given day, an estimated **1.4 million** hospitalized patients around the world have at least one healthcare-associated infection (HAI). Most **HAIs are preventable**. Cleaning the air complements existing hand hygiene and surface disinfection practices and can help to reduce infection transmission in hospitals and healthcare facilities.

PATHOGENS OF CONCERN



VIRUSES *Influenza, Norovirus, Measles*

Viruses like influenza and norovirus can be easily contracted by patients and staff in healthcare facilities through coughing, sneezing, talking or even just breathing. Large viral particles are the most potent, but tiny particles are infectious too. They can travel across a room and hover for hours. Highly infectious skin viruses like measles and mumps are also airborne and though previously eradicated, have made a comeback in the US.



BACTERIA *MRSA, C. diff, Tuberculosis*

Bacteria originating from one patient can spread through the air or settle on surfaces to be inhaled or picked up by new patients occupying the same space. These pathogens are also carried into hospitals on the clothing and bodies of visitors and staff and swept via air currents into emergency entrances, lobbies, corridors, stairwells, and patient rooms. MRSA, *C. diff*, and tuberculosis are all known to be resistant to multiple antibiotics, making them difficult to treat.



MOLD & ALLERGENS *Aspergillus, Pollen, Dust*

When mold becomes aerosolized it can cause adverse short and long-term health problems such as nose and eye irritation and lead to the development of asthma. Healthcare-associated infections (HAIs) due to *Aspergillus* mold can occur as a result of hospital construction, maintenance, demolition, and renovation. Allergens and dust can also get kicked up into the air and cause respiratory and sinus issues and chronic reactions in asthma sufferers.

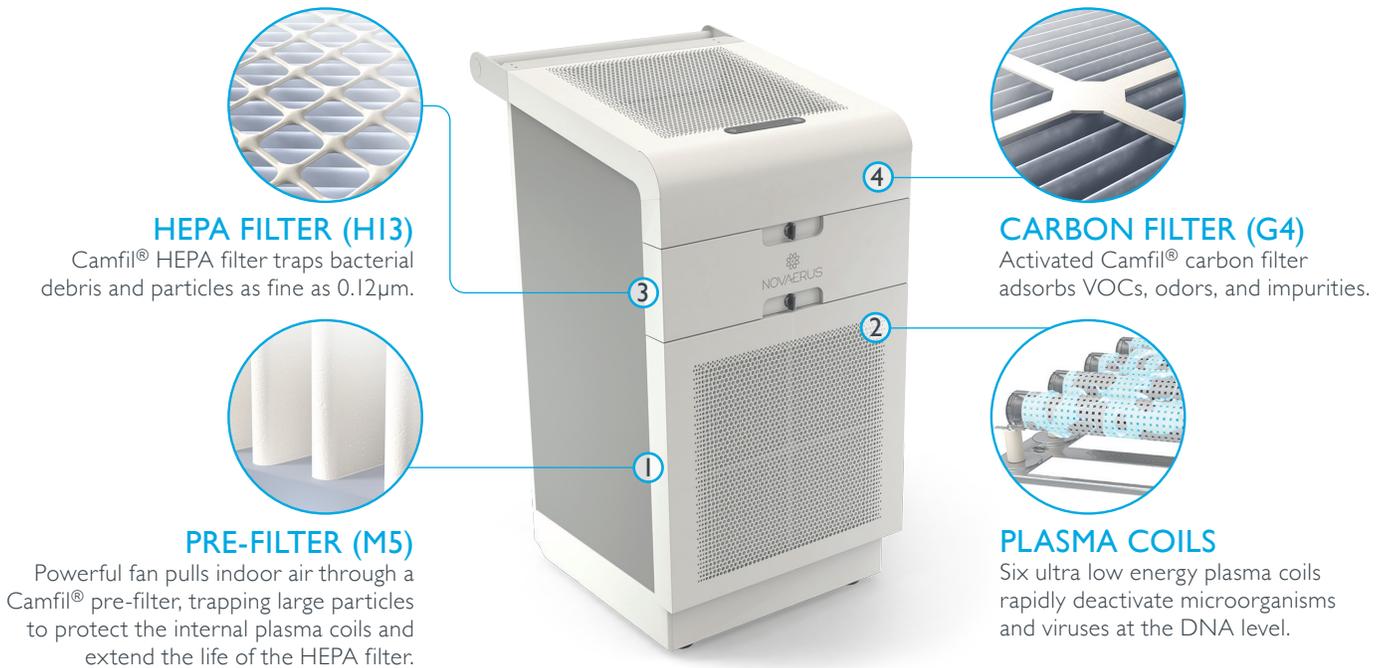


VOCS & PARTICULATE *Formaldehyde, Nitrogen Dioxide, PM2.5, PM10*

Exposure to volatile organic compounds (VOCs) like formaldehyde and nitrogen dioxide from cleaning chemicals, paint, carpet, and furniture can cause headaches, dizziness, fatigue, and in some cases, liver and kidney damage. Fine particulate matter (PM2.5) that make their way indoors are so small and light that they can stay suspended in the air longer and, when inhaled, penetrate deep in the lungs. Heavy particulate load in the air can cause increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing.

THE POWER OF KILL AND TRAP

How the Defend 1050 works



Independently tested and proven effective:



99% reduction
PM1 & PM2.5
6.26 - 6.33 minutes



99.99% reduction
Aspergillus niger
30 minutes



99.94% reduction
MRSA
15 minutes



99.9% reduction
Clostridium difficile
40 minutes



97% reduction
Tuberculosis
30 minutes



99.49% reduction
Nitrogen dioxide
7.2 minutes



99.68% reduction
Formaldehyde
1.1 minutes



99.9% reduction
Influenza A
10 - 20 minutes

WHERE TO USE THE DEFEND 1050

Third-party testing indicates that the Defend 1050 can rapidly remove viruses, bacteria, particulate, mold, allergens, VOCs, vapors, and odor from the air in indoor environments. Following is a list of healthcare applications where there is an ongoing need to reduce the level of these contaminants in the air.

HOSPITALS & MORGUES

General Patient Suites, Examination Rooms, Emergency Rooms, Nurse Stations, Waiting Areas, Common Areas, Laundry Facilities, Admin Offices, Meeting Rooms, Construction Areas, Mortuaries, Autopsy Rooms, Therapy Areas



PRIMARY HEALTHCARE

Doctor, Dental, Pharmaceutical, Veterinary, Optometry
Waiting Areas, Nurse Stations, Surgery Rooms, Examination Rooms, Admin Offices, Common Areas, Treatment Rooms



SPECIALIZED CARE FACILITIES

Senior Living, Child Care, Urgent Care, Ambulatory, Dialysis, Rehabilitation
Waiting Areas, Examination Rooms, Treatment Rooms, Therapy Areas, Dining Halls, Bedrooms, Nurse Stations, Recreational Areas, Laundry Facilities



LABORATORIES

IVF, Dental, Pathology, Microbiology, Clinical, Medical
Testing Areas, Research Areas, Emergency Wash Stations, Storage Areas, Admin Offices

