

## NOVAERUS DEFEND 1050

# 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.

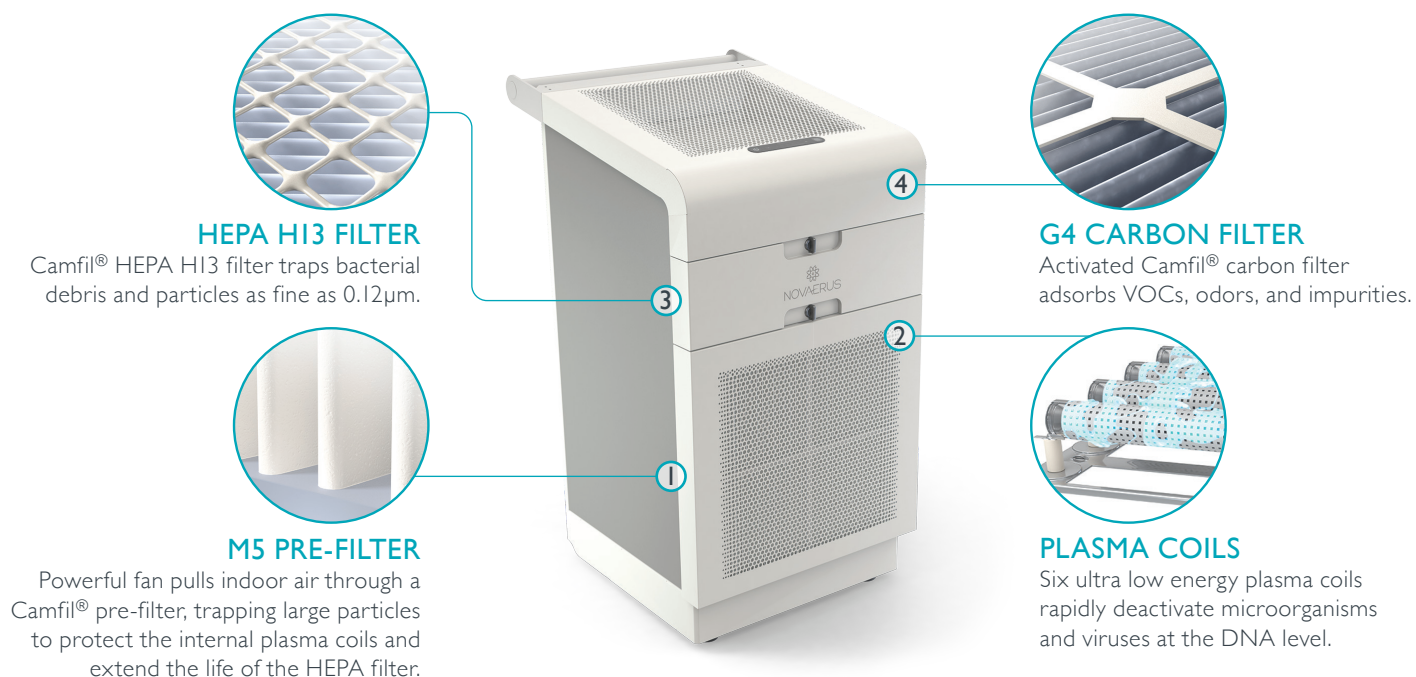
- ✓ Destroys airborne viruses and bacteria
- ✓ Neutralizes odors and VOCs
- ✓ Traps coarse and fine particulate matter
- ✓ Reduces airborne mold spores and pollen
- ✓ Safe, portable, and easy-to-use



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

# THE POWER OF KILL AND TRAP

## How the Defend 1050 works



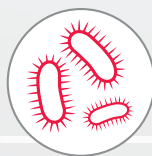
## Independently tested and proven effective:



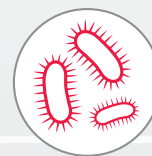
**99% reduction**  
*PM2.5*  
6.3 minutes



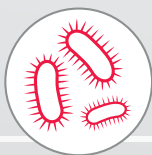
**99.99% reduction**  
*Aspergillus niger*  
30 minutes



**99.94% reduction**  
*MRSA*  
15 minutes



**99.9% reduction**  
*Clostridium difficile*  
40 minutes



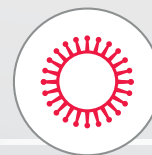
**97% reduction**  
*Tuberculosis*  
30 minutes



**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 I050

The Defend I050 is designed for rapid remediation of indoor air quality problems in high density areas where infection risk is high. It is also used for continuous treatment of indoor air in large spaces.

## COMMON AREAS

Classrooms, Libraries, Recreation Rooms, Dining Halls, Fitness Rooms



### Why use the Defend I050:



#### POPULATION DENSITY

Large groups of people in close proximity increases risk of infection. Allergies, asthma, and irritation also result from higher levels of particulate matter and odor.



#### CONTAMINATED SURFACES

Frequently handled objects such as books, food trays, exercise equipment, games, tables, chairs, and door handles increase risk of infection.



#### HUMIDITY

Moisture from showers and wet towels in locker rooms and fitness areas create odor and ideal conditions for mold growth.

## CONSTRUCTION

Remodeling, Painting, Refinishing, New Construction, Adjacent Areas



### Why use the Defend I050:



#### VOLATILE ORGANIC COMPOUNDS

Exposure to VOCs from new paint, carpet, and furniture, and fabrics causes eye irritation, respiratory symptoms, nausea, dizziness, and headaches.



#### PARTICULATE MATTER

Fine particulate matter (PM2.5) released from construction activities can cause respiratory illness and eye and throat irritation.



#### ALLERGENS

Dust and mold can permeate the area, triggering those that have asthma or sensitivity to allergens.

## MEDICAL AREAS

Onsite Clinics, Nurse Offices, Sick Rooms



### Why use the Defend 1050:



#### PATIENT TURNOVER

Bacteria originating from one patient can spread via air currents or settle on surfaces to be inhaled or picked up by new patients occupying the same space.



#### CONTAMINATED SURFACES

Frequently handled objects such as medical equipment, bed rails, door handles, restroom fixtures and countertops can spread viruses and bacteria.



#### RECIRCULATED AIR

Airborne contaminants can recirculate via the HVAC system into general areas of the building, spreading viruses and bacteria to healthy individuals.

## REMEDiation

Mold Clean-Up, Water Damage, Fire Damage,  
General Cleaning



### Why use the Defend 1050:



#### PARTICULATE MATTER

Heavy particulate load in the air from smoke and fire residue, dust, and mold spores can cause increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing.



#### ODOR

Smoke and fire residue, mold, water damage, and cleaning chemicals all contribute to strong odors that cannot be neutralized by commercial air fresheners.



#### MOLD

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.



#### VOLATILE ORGANIC COMPOUNDS

Exposure to high levels of VOCs and harmful byproducts from surface and air cleaning solutions that use chemicals and ozone can cause headaches, dizziness, fatigue, and in some cases, liver and kidney damage.