

Powered by
NanoStrike®
technology

DEFEND 1050

Inactivate Microorganisms.
Filter Particulates.
Defend Patients and Staff.

The Novaerus Defend 1050 combines NanoStrike® technology with a triple-stage Camfil® filter system to provide a rapid, powerful solution for air cleaning and particle removal in critical healthcare environments.

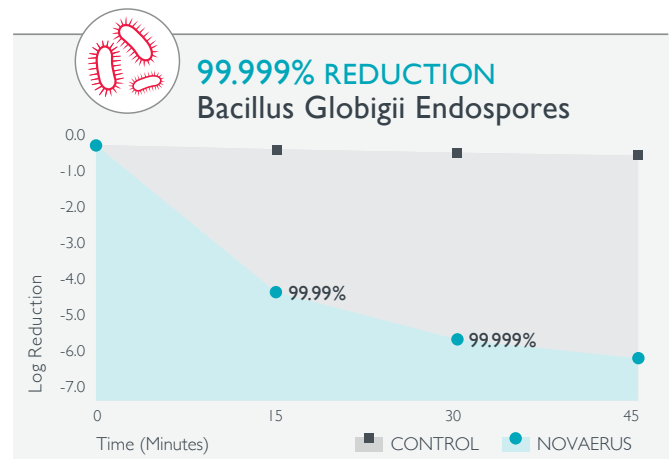
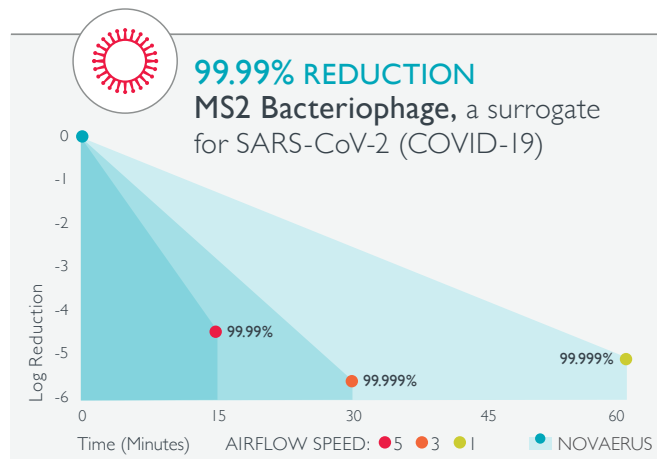
EFFECTIVE, SAFE AND EASY TO USE.

The device provides additional frontline protection and can be deployed in large rooms and indoor spaces where the risk of healthcare acquired infection and surgical site infection is elevated.








 FDA Cleared
510(k) Class II Medical Device

FDA Certified Compliant Laboratory Testing Results*



* ISO 17025 accredited and FDA 21 CFR Part 58 compliant laboratory

Third-Party, Independent Testing

TYPE	NAME	REDUCTION	TIME	SPACE
 VIRUSES	SARS-CoV-2 ¹	99.99%	15 min	565 ft ³
	Measles ²	99.87%	20–30 min	1006 ft ³
	Influenza A	99.9%	10–20 min	1006 ft ³
	Phi X 174	98.8%	30 min	2119 ft ³
 BACTERIA	<i>Bacillus Globigii</i> endospores	99.99%	15 min	565 ft ³
	Tuberculosis ³	97%	30 min	1059 ft ³
	MRSA ⁴	99.94%	15 min	1059 ft ³
	<i>Clostridium difficile</i> spores	99.9%	40 min	1006 ft ³
	<i>Staphylococcus epidermidis</i>	99.9%	60 min	2119 ft ³
 MOLD SPORES	<i>Aspergillus niger</i>	99.99%	30 min	565 ft ³
 VOCs	Nitrogen Dioxide	99.49%	7.2 min	565 ft ³
	Formaldehyde	99.68%	1.1 min	565 ft ³
	Toluene	99%	9.1 min	696 ft ³
 PARTICULATE	PM 1	99%	6.33 min	696 ft ³
	PM 2.5	99%	6.26 min	696 ft ³

In independent laboratory studies Novaerus products, powered by NanoStrike® technology, have been shown to safely and effectively reduce bacteria, viruses, allergens, volatile organic compounds, and particulate matter.

1. Tested on MS2 bacteriophage, a surrogate for SARS-CoV-2.
2. Tested on Human parainfluenza type 3 (HPIV3), a surrogate for Measles.
3. Tested on *Mycobacterium smegmatis*, a surrogate for *Mycobacterium tuberculosis*.
4. Tested on *Staphylococcus epidermidis*, a surrogate for MRSA.

The Defend I050 is designed to provide additional front line protection against airborne microorganisms in critical healthcare environments, including those performing aerosol-generating medical procedures (AGMP).



Senior living



Patient wards



Intensive care units



Operating rooms



Burn units



Emergency rooms



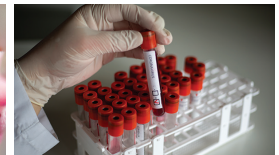
Waiting and treatment areas



In vitro fertilization



Neonatal units



Hematology units

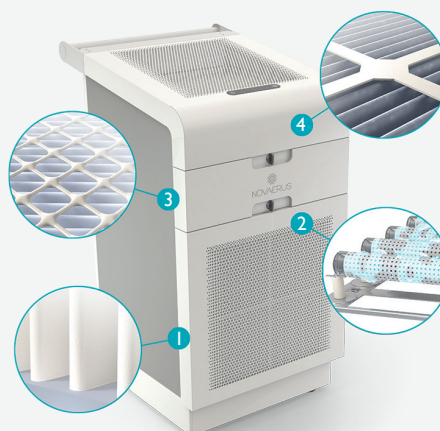
How the Defend I050 Works

Stage 3

A Camfil® HEPA H13 filter traps bacterial debris and particles as fine as 0.12µm.

Stage 1

Powerful multi-speed fan pulls indoor air through a Camfil® pre-filter, capturing large particles, protecting the internal NanoStrike® plasma coils and extending the life of the HEPA filter.



Stage 4

A Camfil® G4 carbon/molecular filter neutralizes VOCs, odors, and impurities.

Stage 2

Six ultra-low energy NanoStrike® plasma coils rapidly inactivate microorganisms at the molecular level.