

FACT SHEET

# Novaerus Air Disinfection Devices Kill 99.9% of Airborne Coronaviruses



Novaerus portable medical-grade air disinfection devices rapidly attack all airborne pathogens at the DNA-level and neutralize:

- **Viruses** (including influenza, **coronaviruses**, norovirus, measles and tuberculosis)
- **Bacteria** (such as Methicillin-resistant *Staphylococcus aureus* (MRSA), *Clostridium difficile*)
- **Fungi** (such as *Aspergillus niger*)
- **Mold**
- **Particulate Matter** (PM)
- **VOCs**
- **Odours**

**PROVEN EFFECTIVE IN 22 INDEPENDENT LABORATORY TESTS, 11 CLINICAL TRIALS AND 16 CASE STUDIES WORLDWIDE**

**Novaerus model DEFEND 1050**

was shown to reduce MS2 bacteriophage (surrogate for SARS-CoV-2) by **99.99%** in 15 minutes

**Novaerus Protect 900** model was proven to reduce:

- **99.99% of MS2** - a surrogate for influenza, norovirus and SARS-CoV (coronavirus)
- 99.87% of *Staphylococcus epidermidis* bacteria
- 98.85% reduction of *Aspergillus niger* mold
- 86.5% reduction of *Bacillus subtilis* bacteria spores

**NEW TO CANADA, BUT PROVEN WORLDWIDE, NOVAERUS DEVICES ARE:**

- **Portable**
- **Easy to install** (simply plug it in) and ready for immediate implementation
- **Safe** around the most vulnerable patients
- **Inexpensive to operate** (the two smaller models do not have filters = no ongoing operating costs)
- **Independent of HVAC** system
- **Quiet**



DEFEND 1050



PROTECT 200



PROTECT 900

**AVAILABLE IN 3 SIZES**

# NOVAERUS DEVICES: A SOLUTION WHEN OTHERS FAIL

## OTHER SOLUTIONS

### HEPA FILTERS

- SARS-CoV-2 viral particles are so small (0.06 µm to 0.14 µm): they can flow through HEPA filters
- HEPA filters do not kill the virus: changing filters is dangerous

### IONIZATION

- Ionization does not kill pathogens, which fall onto surfaces and contaminate them



- Patented non-thermal, ultra-low energy plasma technology destroys airborne pathogens at DNA level
- Pathogens are killed in air = not deposited onto surfaces
- Plasma technology highly effective at disinfecting surfaces
- No filters in two smaller models
- Filters in Defend 1050 will contain neutralized pathogens: changing filters is safe

## SELECTED INDEPENDENT TESTING RESULTS

### SARS-COV-2

Defend 1050 reduced MS2 bacteriophage (surrogate for SARS-CoV-2) by 99.99% in 15 minutes. **Aerosol Research and Engineering Laboratories, U.S.**

### BIOAEROSOLS REDUCTION

Protect 900 reduced aerolized biologicals: *Staphylococcus epidermidis* (99.87% reduction), MS2 bacteriophage (99.99% reduction), *Aspergillus niger* (98.85% reduction), and *Bacillus subtilis* endospores (86.5% reduction). **Aerosol Research and Engineering Laboratories, U.S.**

### AIRBORNE ALLERGEN REDUCTION

Protect 900 reduced overall allergens by 41.16%, including house dust mites, feline dander, canine dander, and pollen. **Indoor Biotechnologies Ltd., U.K.**

### ASPERGILLUS NIGER SPORE REDUCTION

Defend 1050 reduced 99.99% of aerolized *Aspergillus niger* spores in 30 minutes. **Aerosol Research and Engineering Laboratories, U.S.**

### CLOSTRIDIUM DIFFICILE SPORE REDUCTION

Defend 1050 reduced 99.6% of airborne *C. difficile* within 20 minutes and >99.99% after 40 minutes. **Airmid Health Group Ltd., Ireland**

### INFLUENZA A REDUCTION

Defend 1050 reduced 99.9% of airborne Influenza A within 10-20 minutes. **Airmid Health Group Ltd., Ireland**

### MEASLES VIRUS REDUCTION

Defend 1050 reduced the concentration of human parainfluenza type 3 (HPIV3) (surrogate for Measles virus) by 99.87% after 25 minutes. **Airmid Health Group Ltd., Ireland**

### METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) REDUCTION

Protect 900 reduced 99.99% of Methicillin-resistant *Staphylococcus aureus* (MRSA) bacteria in 4 hours. **Microbac Laboratories, Inc., U.S.**

### MYCOBACTERIUM TUBERCULOSIS BACTERIA REDUCTION

Defend 1050 reduced *M. smegmatis* (surrogate for *M. tuberculosis*) by 97% after 30 minutes. **Airmid Health Group Ltd., Ireland**

### PHI-X 174 VIRUS REDUCTION

Defend 1050 reduced Phi X 174 virus by 98.8% in 30 minutes. **Korea Testing Laboratory, South Korea**

### STAPHYLOCOCCUS EPIDERMIDIS BACTERIA REDUCTION

Defend 1050 reduced *Staphylococcus epidermidis* bacteria by 99.9% in 60 minutes. **Korea Testing Laboratory, South Korea**

### LEOPARDSTOWN PARK HOSPITAL

Over 3 years, this older people's hospital saw no outbreaks of Influenza, Norovirus, MRSA or *C. difficile* in wards with Novaerus units installed. **Read more.**

### CANTERBURY TOWER CASE STUDY

In 7-months after individual NV200 units installed in patient rooms, nosocomial respiratory infections decreased by 93.33%. **Read more.**

[VIEW ALL RESEARCH RESULTS \(49\)](#)



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