

A photograph of a surgical team in an operating room, wearing blue scrubs and masks, gathered around a patient. The image is overlaid with a semi-transparent blue and white graphic of wavy lines.

# Protect & Defend your Patients and Staff



## Augment Infection Control Protocols with **24/7 Clean Air Technology**

Wherever people are coming and going, there are microorganisms being introduced to indoor environments. When those microorganisms become airborne, smaller particles can spread over long distances via air currents while larger particles settle on surfaces to be picked up by hands. For effective, safe, easy-to-use, and affordable technology for air cleaning technology, look no further than Novaerus.



Larger infectious particles can drop from the air to contaminate surfaces and hands.

Infectious aerosols can remain suspended and viable in the air stream over long periods of time.

# NanoStrike® technology

## The First Line of Protection Against Airborne Viruses and Bacteria

NanoStrike® is the core, patented technology that powers all Novaerus portable air cleaning devices. Our plasma-based nanotechnology inactivates airborne microorganisms on contact providing a first line of protection against viruses and bacteria.

- Patented technology harnessing multiple microorganism inactivation processes in one powerful strike
- Damages and inactivates at the DNA level in a sub-second time frame
- Uniquely bursts the microorganism cell, preventing self-healing
- Designed to help prevent future antimicrobial resistance development
- Low total cost of ownership medical-grade air cleaning technology
- Powerful but gentle for 24/7 use around the most vulnerable of people
- Independently tested and proven

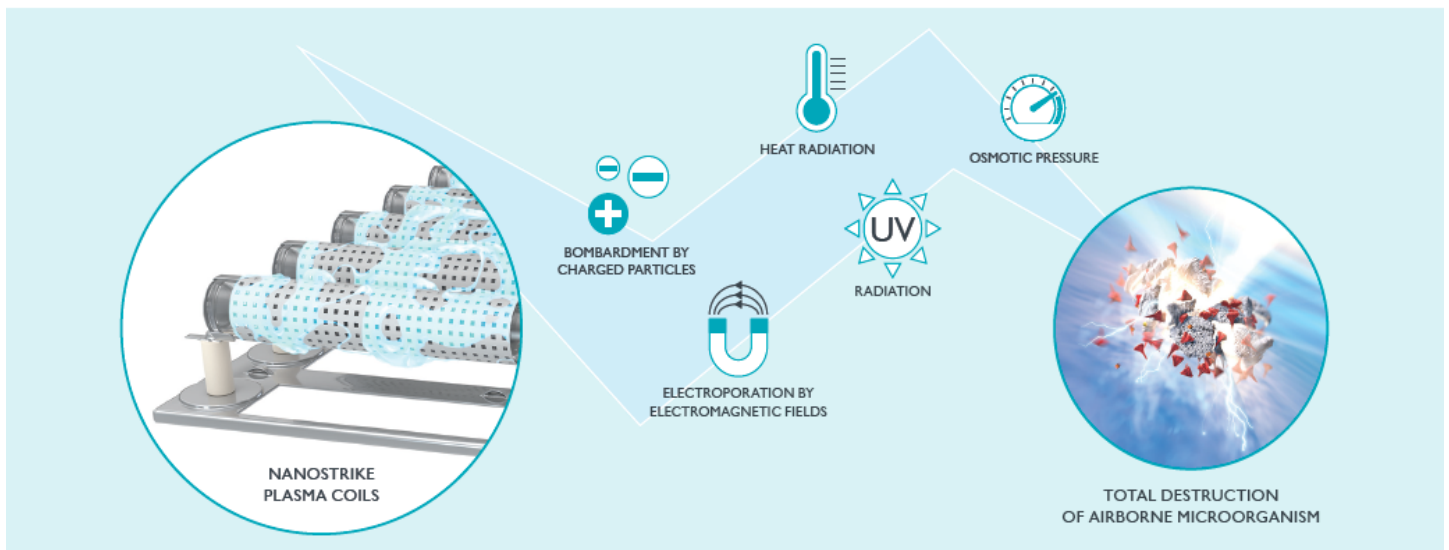


## How NanoStrike Protects

### *Multiple Inactivation Processes in One Powerful Strike*


Developed by the Novaerus team of scientists and engineers, NanoStrike utilizes an atmospheric plasma discharge — the same type of discharge found in lightning strikes — to damage and inactivate airborne microorganisms.

NanoStrike plasma coils provide a deadly strike, made up of multiple concurrent processes, that work to rapidly damage microorganisms at the molecular level, rendering them inactive and preventing self-healing.



# Novaerus Products

Powered by  
**NanoStrike**  
 technology

 **FDA Cleared**  
 510(k) Class II Medical Device



## DEFEND 1050

Cleared as a FDA 510(k) Class II Medical Device to filter out and inactivate airborne microorganisms, including viruses and bacteria, for medical purposes. The Novaerus Defend 1050 uses NanoStrike technology combined with a triple-stage Camfil® filter system to provide a rapid, powerful solution for air cleaning and particle removal in critical healthcare environments, including those performing aerosol-generating medical procedures (AGMP). Free-standing unit can be wheeled easily to point of care and plugs into any standard outlet.

**Applications include:**

- Operating Rooms
- Intensive Care Units
- Emergency Rooms
- In Vitro Fertilization Labs
- Patient Wards
- Senior Living Facilities
- Burn Units
- Hematology Units
- Neonatal Units
- Waiting and Treatment Areas
- Aerosol-generating Medical Procedure (AGMP) Environments

				
CRITICAL HEALTHCARE SETTINGS	NANOSTRIKE PLASMA	LARGE ROOMS	FAN SPEED CONTROL	TRIPLE STAGE FILTER



## PROTECT 900

Designed for continuous air dis-infection and odor control in medium indoor spaces, the Novaerus Protect 900 uses NanoStrike technology with a 2-speed fan. Can be wall-mounted or placed on a stand and plugs into any standard outlet.

**Applications include:**

- Patient Rooms
- Nurses Stations
- Examination Rooms
- Common Areas
- Break Rooms
- Child Care / Schools

		
NANOSTRIKE PLASMA	MEDIUM ROOMS	FAN SPEED CONTROL



## PROTECT 200

Designed for continuous air dis-infection and odor control in small indoor spaces, the Novaerus Protect 200 uses NanoStrike technology with a single speed fan. Can be wall-mounted or placed on any surface and plugs into any standard outlet.

**Applications include:**

- Reception Desks
- Bathrooms
- Supply Rooms
- Offices
- Patient Bedsides

	
NANOSTRIKE PLASMA	SMALL ROOMS

## Irish Roots, Global Reach

Novaerus devices are developed and manufactured in Ireland and deployed in more than 60 countries around the globe.



We have tested the Novaerus devices thoroughly and we are now absolutely convinced by their positive impact. We are about to install them everywhere in our facility to protect our patients, their families and our staff from dangerous infections – in particular Norovirus and MRSA – as well as strong odors.

*Pflegeresidenz Haus der Ruhe  
(Retirement Home), Garbsen, Germany*



After one winter's use of Novaerus' products, our employee sick time was reduced by 40% and improved the office's indoor air quality. In addition to the health improvements noted, employees noticed the office was fresh and lacked its previous winter season staleness.

*Linde Healthcare, Vienna, Austria*



The operation of the machines has clearly improved air quality, significantly decreasing and eliminating the unpleasant smells that were present previously. The noise emitted by the equipment is insignificant, it does not disturb the patients. The [test] results reveal that apart from reducing the quantity of organic molecules causing the smells, the equipment also significantly decreased the quantity of pathogenic organisms.

*University of Szeged, Hungary*



We have shown a reduction in upper respiratory infections by 60% over past years' numbers. We have reduced the number of isolation days for C-diff. patients by 20% on average and feel that this occurs because of reduction in airborne cells. We have not had a norovirus outbreak this year or flu, even though both are in the community.

*Christian Health Center of Hopkinsville, Kentucky*



We ended up with clinical and financial benefits beyond our expectations. We haven't had a single influenza outbreak in a year, and staff sick leave is down by 45% year-on-year. I can't recommend Novaerus highly enough.

*Leopardstown Park Hospital, Dublin, Ireland*



Not a single infection occurred after the installation of the Novaerus devices. Novaerus helped to reassure mothers over safety concerns and contributed to increased revenue by differentiating us from other hospitals that don't offer the technology. Furthermore, during the periodical test by the Public Health Inspectors for air quality, Novaerus exceeded our expectations and we managed to get approval without any problem.

*Korea Medical Hub, H-Cube Neonatal Centre*