



INNOVA NANOJET
TECHNOLOGIES LIMITED



Company Brochure 2024

Product
of **UK**

www.innova-nanojet-technologies.co.uk

Our Company

Who We Are



Embark on a revolution in air purification with Innova NanoJet Technologies Limited, a dynamic technology and product company headquartered in Glasgow, UK. At the forefront of innovation, we specialize in pioneering platform technologies centred around ultrasonic and ultra-fine nano-scale droplet sprays. Our groundbreaking platform technologies span across crucial sectors such as agriculture, residential and commercial spaces, healthcare, green transportation, social infrastructures, national security, and public safety. At Innova NanoJet, we are committed to shaping the future by providing cutting-edge solutions that redefine industry standards. Discover our debut product series, featuring the CDa and CDaBot (a robotic iteration of CDa), meticulously crafted to enhance personal and public health. These products epitomize ultra-fast and highly effective air cleaning and disinfection, ensuring immaculate, pollution-free, and virus-free indoor spaces.

**Made &
Designed in
the UK**

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Our Mission

Cleaner Air for Everyone

At Innova NanoJet Technologies, our mission is to redefine and elevate indoor air quality standards for homes, businesses and public spaces. Committed to innovation and sustainability, we strive to create cutting edge air purification and disinfection systems, that ensure a healthy and safe environment for everyone.

Committed to being a disruptive technology and innovative product company for global benefits, we strive to have impactful and transformational changes and improvements in developing solutions that revolutionize the way we perceive and manage air quality, most notably in :



Groundbreaking Technology

At the forefront of innovation, we specialize in developing and commercializing NanoJet Technologies — supersonic and ultra-fine nano-scale droplet sprays. Our cutting-edge technologies draw from interdisciplinary sciences and engineering, embracing particulate aerodynamics, advanced fluid dynamics, sensor and digital control, and advanced manufacturing. This foundation allows us to produce trillions of ultra-fine nano-scale droplets with specific kinetic energy and momentum, tailored for targeted applications like air purification and disinfection.

These nano droplets collide with and envelop suspended pollutants and viruses of various sizes from multiple sources. This unique process forces them to descend rapidly, effectively cleansing the air in minutes. Supported by both theoretical and experimental evidence, our NanoJet products can successfully remove pollutants, bacteria, and viruses from the air using only water, eliminating the need for chemical or biological interventions.*

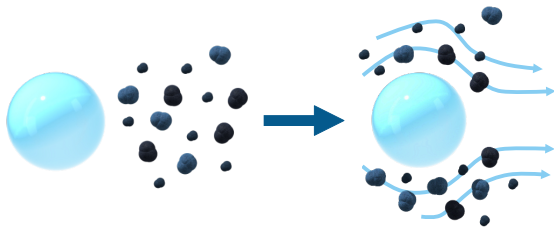
*The US and EU do not recommend the spraying of harmful chemical or biological agents into the air; only surface application or disinfectants are allowed.

Our Technology

How does CDa Work?

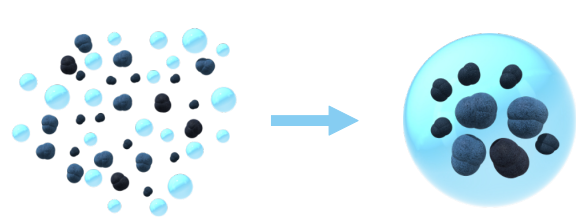
In conventional spray technology, the aerosol particles are simply pushed away by larger spray droplets. This is due to the **slip stream effect**, meaning the spray droplet induces airflow causing the airborne contaminants to be pushed around its surface.

Conventional Spray Technology



The aerosol particles are pushed away by the larger spray droplet.

Innova Nanojet Technology

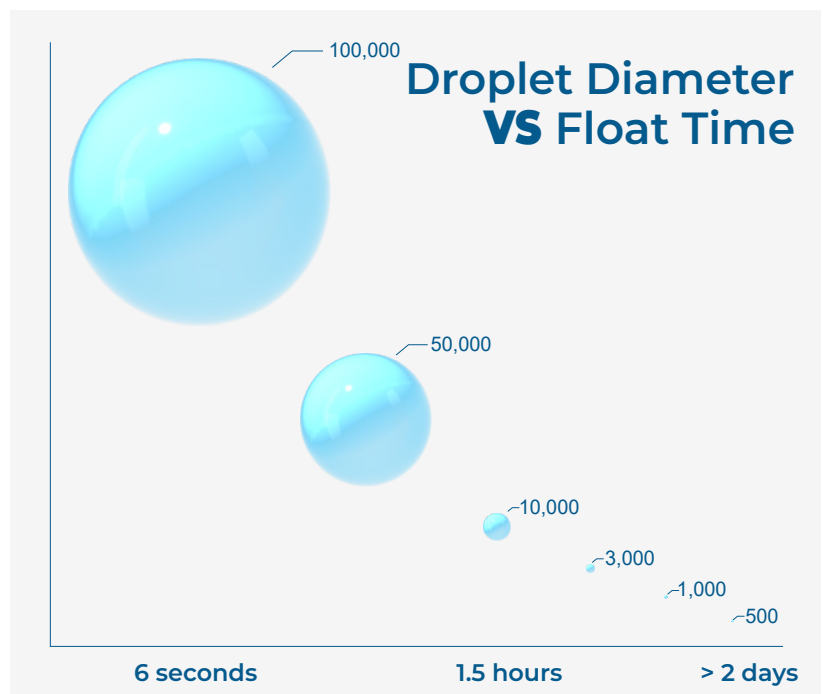


The aerosol particles collide with and are enveloped by the smaller spray droplets.

In contrast, NanoJet Technology represents a revolutionary advancement over conventional spray methods, allowing a wide range of ultra-fine droplets to be released into the air. These droplets then collide with and fully envelop suspended airborne pollutants, removing them from the air.

Rapid Action with Prolonged Impact

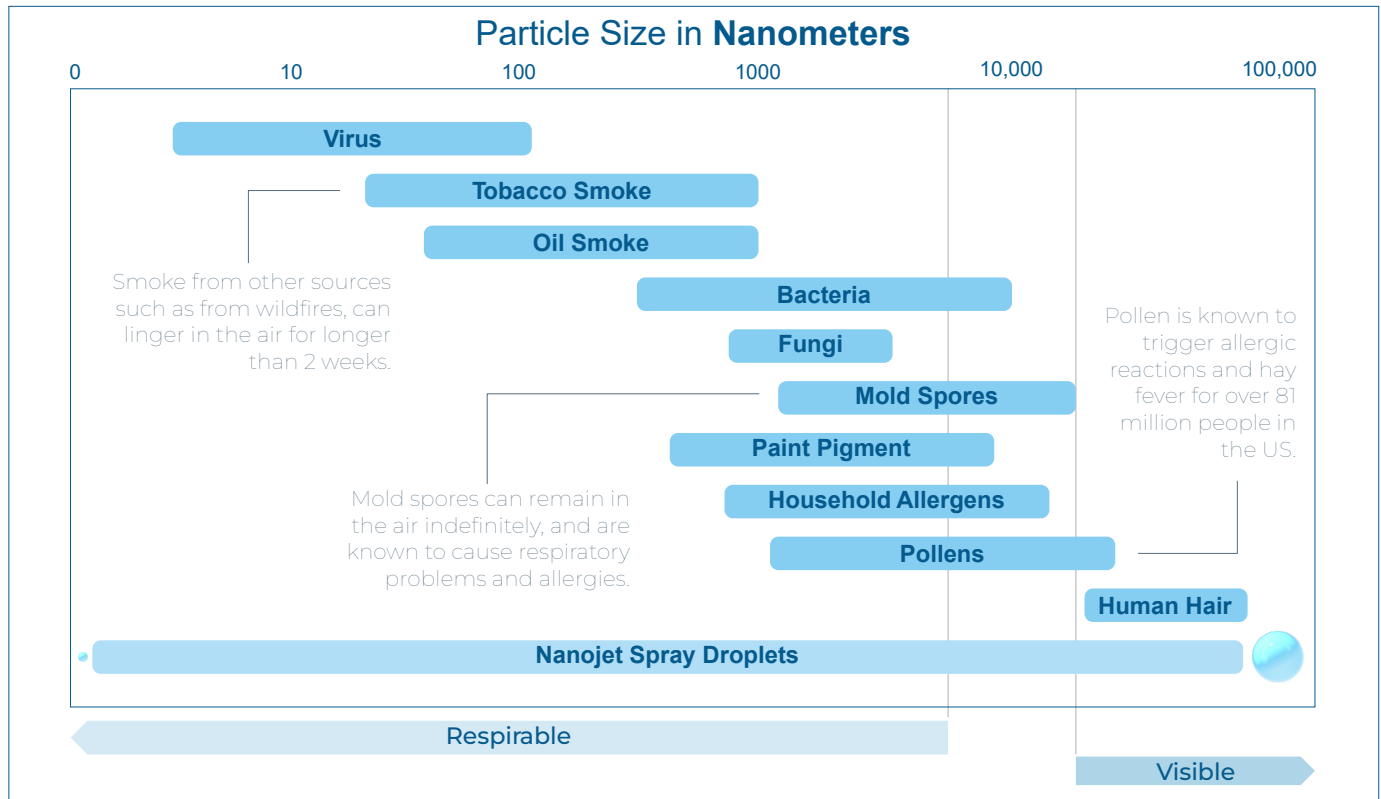
The longevity of any airborne particle is directly influenced by its size. Particles with larger mass, will fall to the floor quickly. However, airborne particles that take form as viruses, smoke or allergens can linger for hours in the air, due to their small size. Through utilising NanoJet Technology, our system generates ultra-fine spray droplets that remain suspended in the air for hours, meaning enhanced coverage and prolonged efficacy can be achieved.



What can CDa Remove?

The Innova NanoJet Cleaning and Disinfecting air (CDa) system is designed to effectively remove a wide range of airborne contaminants including PM2.5-5-10, viruses such as

COVID-19, and common allergens such as pollen or dust. Through generating a wide range of spray droplets, our system can target even the smallest airborne particles.

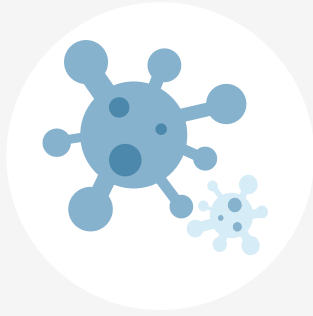


Filter Free, Hassle Free

Unlike traditional air purifiers that often demand costly filter replacements every 3-6 months, incurring up to 20-30% of the device's initial cost, our innovative solutions ensure long-lasting efficiency and cost-effectiveness. We believe in offering not only cutting-edge technology but also a sustainable and economical choice for clean and healthy indoor environments.

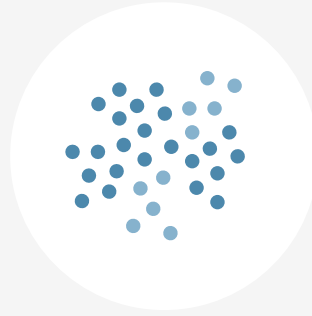


What does CDa Target?



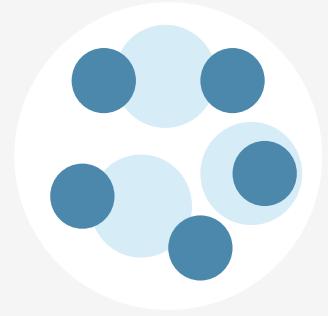
Viruses

Infectious and respirable viruses.



PM0.1

Ultra-fine particulates.



PM2.5

Combustion related particulates.



PM5

Bacteria & industrial emissions.



PM10

Pollen & mold spores.



Dander

Matter shed from pets.



Odours

From cooking or other sources.



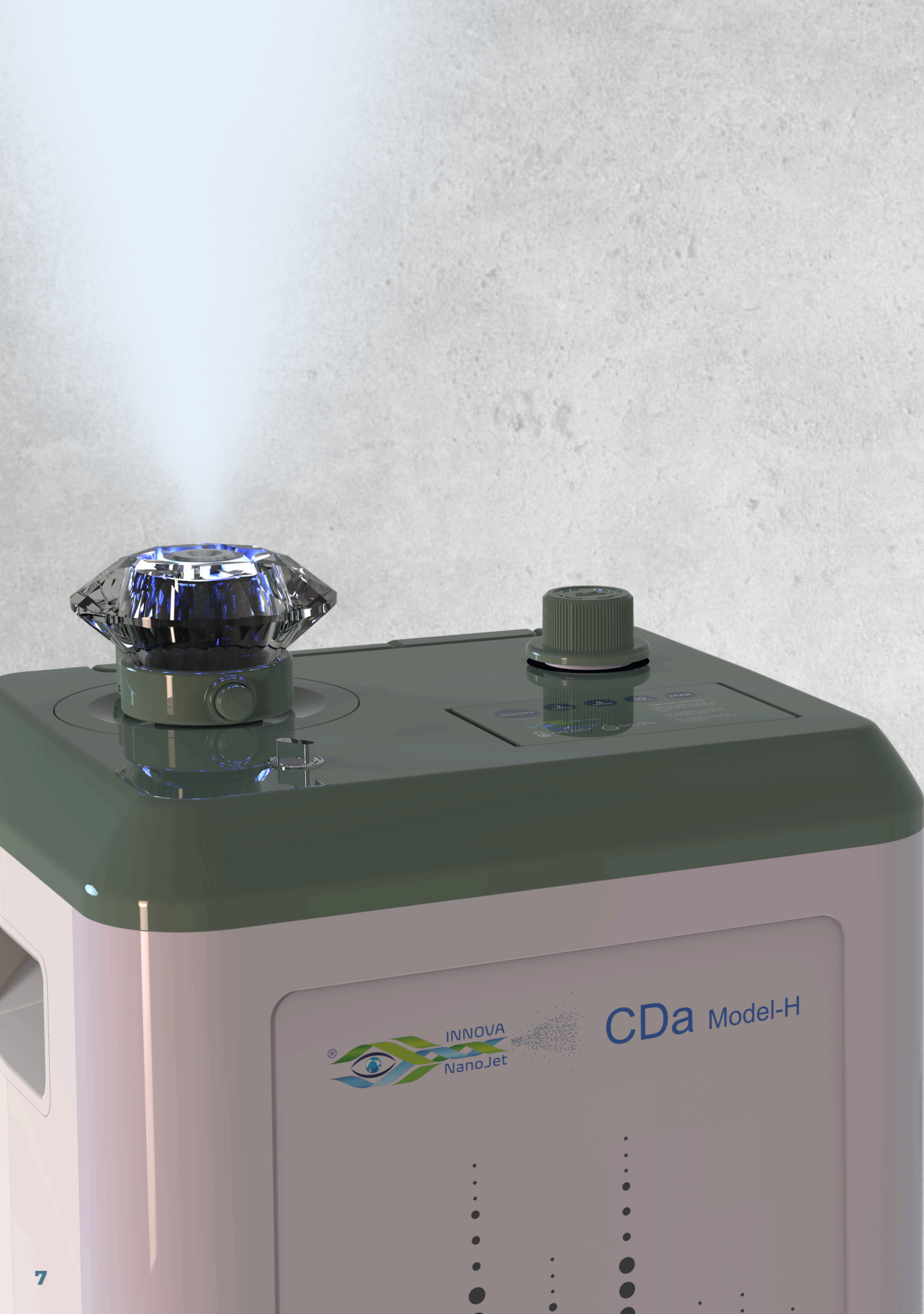
Allergens

From airborne sources.



Dust

From indoor and outdoor sources.



CDa Model-H

Enquire Today!



Our cutting-edge solution, CDa Model-H has been designed to transform your indoor air quality effortlessly. This innovative system quickly removes pollen, allergens, particulate matter and dust, all while conserving water. With just one unit required for your entire home or premises, it's a cost-effective and environmentally choice. Say goodbye to the hassle of filter replacement, as the CDa Model-H is maintenance-free and energy-efficient. Enjoy versatile performance that simultaneously purifies and humidifies your indoor space, creating a healthier and more comfortable living environment. Upgrade your living environment with the CDa Model-H and breathe easier, with simplicity and efficiency at the forefront of its design.

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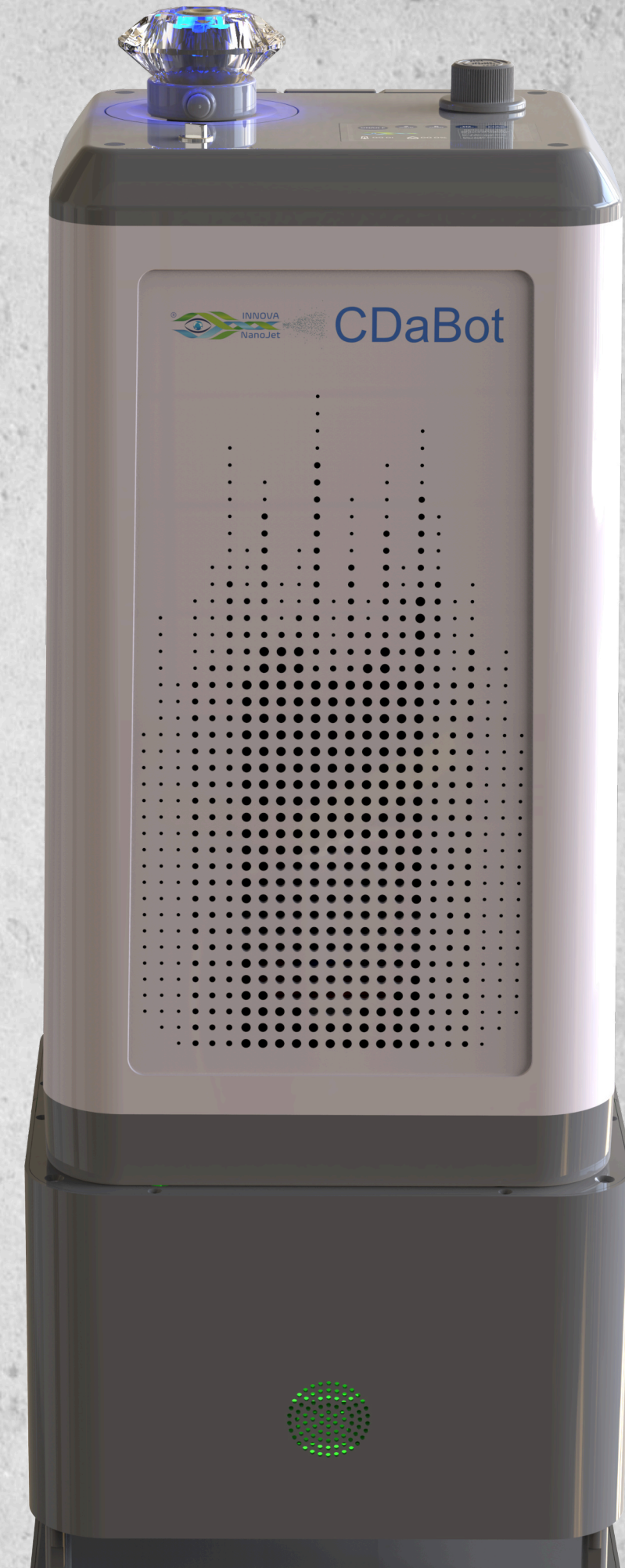


CDa Bot

Enquire Today!

CDa Bot is a state-of-the-art robotic device for autonomous cleaning and disinfecting air and surfaces in large spaces. Specifically engineered for deployment in vast indoor venues like offices, hospitals, schools, and train stations, CDa Bot introduces a pioneering benchmark for professional air quality control. Using only water, the CDa Bot utilizes an environmentally-friendly and cost-effective approach to ensure rapid air and surface disinfection. The advanced technology minimizes the need for expensive filter replacements and intricate maintenance. Conveniently schedule the CDa bot to clean and disinfect your space even when you're not around. It's time to embrace a smarter and more efficient way to purify your space with the CDa Bot.

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Our Products

Why CDa?

Breakthrough Technology

Breakthrough from the limitations and shortcomings of existing traditional air purifiers based on filtration technologies [electronic filters, mesh filters].

Nanospray Physical Removal

Efficiently remove airborne pollutants using only water or minimal disinfectant, eradicating bacteria and viruses in the air and on surfaces.

Filter-free Design

Traditional air purifiers require expensive filter replacement every 3-6 months, costing up to 20-30% of the device's price.

Rapid Purification

Minutes compared to several hours or overnight operations with traditional air purifiers.

Low System Cost

Only one CDa unit per household or premise required. (Traditional air purifiers require more than one device per room).



Safe for Your Working Environment

Nanospray droplets don't affect books, artwork or sensitive electronics and computers normal operation.

Highly Efficient Purification and Disinfection

Simultaneously purifies and disinfects air, eliminating multiple sources of pollution, bacteria and viruses.

Easy Scale-Up/Down and Reconfiguration

Our systems can easily be scaled up or down and/or reconfigured to meet different application scenarios.

Multiple Applications With a Single Unit

Purifies air and object surfaces; optimises humidity and temperature.

High Mobility and Low Maintenance Requirement

Integrated pull-handle and easy wheel mobility. Minimal to no maintenance required.

Low Energy Consumption and Operating Cost

Minutes of electricity usage (1-2 minutes of spraying for a 20-square-meter room). More energy efficient and cost-effective compared to the required operation time of traditional air purifiers.



Contact us Today!



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