

Air Pro RX

Air purification for critical environments

FDA 510(k) Class II Medical Device Clearance for medical purposes to destroy bacteria & viruses in the air.

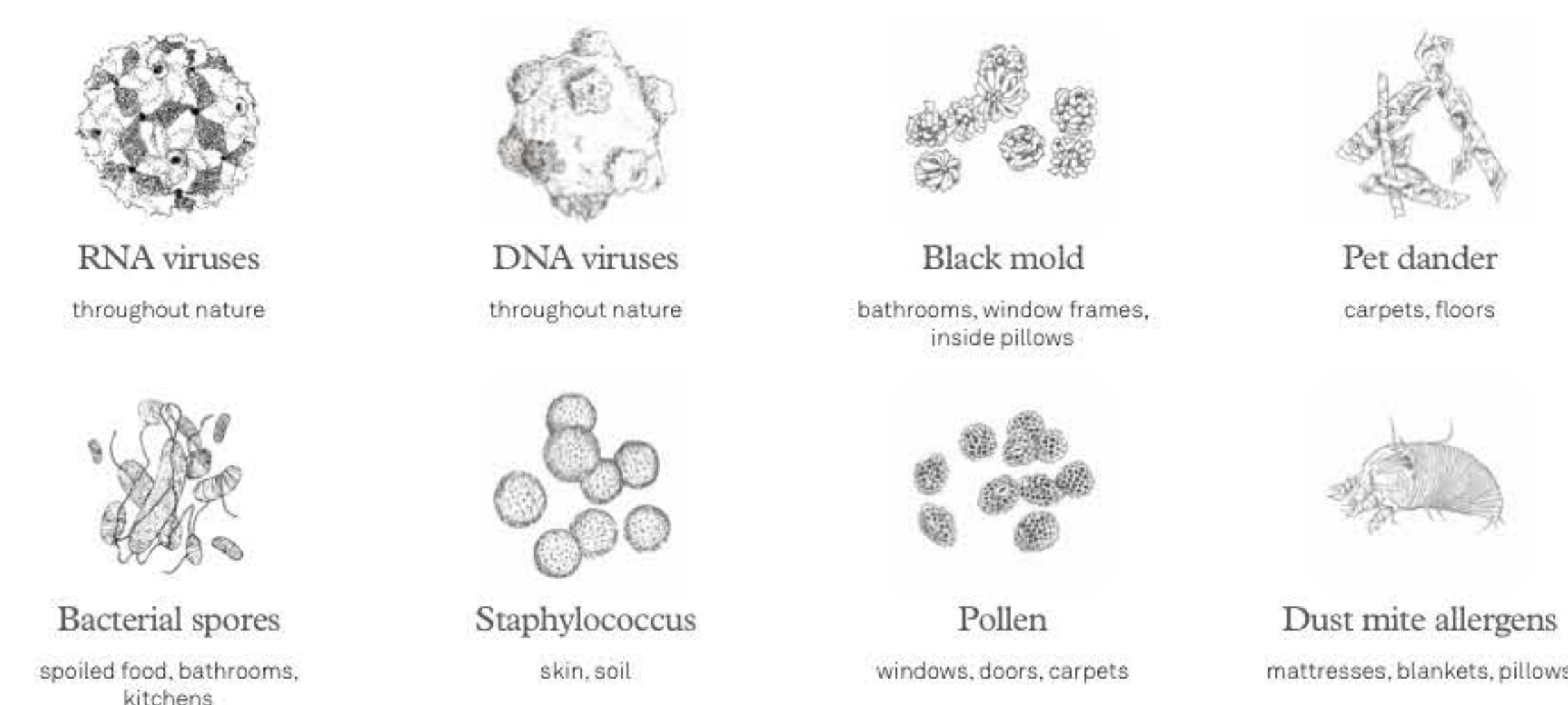
Offers frontline protection to schools, hotels, offices & other high-traffic spaces.

Satisfies performance criteria in FDA guidance for use in helping reduce risk of exposure to SARS-CoV-2, the Covid-19 virus.



Proven by science

PECO air purification technology destroys the widest range of pollutants compared to conventional air purifiers. Examples of the types of pollutants PECO-Filters can destroy are:



PECO works by shining UV-A light on the surface of a nanocatalyst-coated filter to initiate a chemical reaction that generates hydroxyl radicals. These hydroxyl radicals oxidize nearly all types of organic, airborne pollutants, leaving behind trace amounts of carbon dioxide and water vapor.

Mercyhealth, a multi-regional health system, is deploying Air Pro RX & Air devices across its five hospitals.

“At Mercyhealth, our goal is to bring the latest standards of medicine and the best quality of care to the millions of patients we treat annually, as well as provide protection for our employees and visitors.

After a pilot study and further evaluation by our medical and quality teams, we are excited to be among the first hospitals in the United States to utilize Molekule’s PECO technology in our facilities.”

— Ruth Yarbrough, VP of Quality, Mercyhealth

Quick to set up

- No installation
- Ductwork-and-piping-free
- Starts cleaning immediately

Low maintenance

- Set it & forget it
- Easy-to-disinfect exterior

Easily scalable

- Moveable
- Fits most places

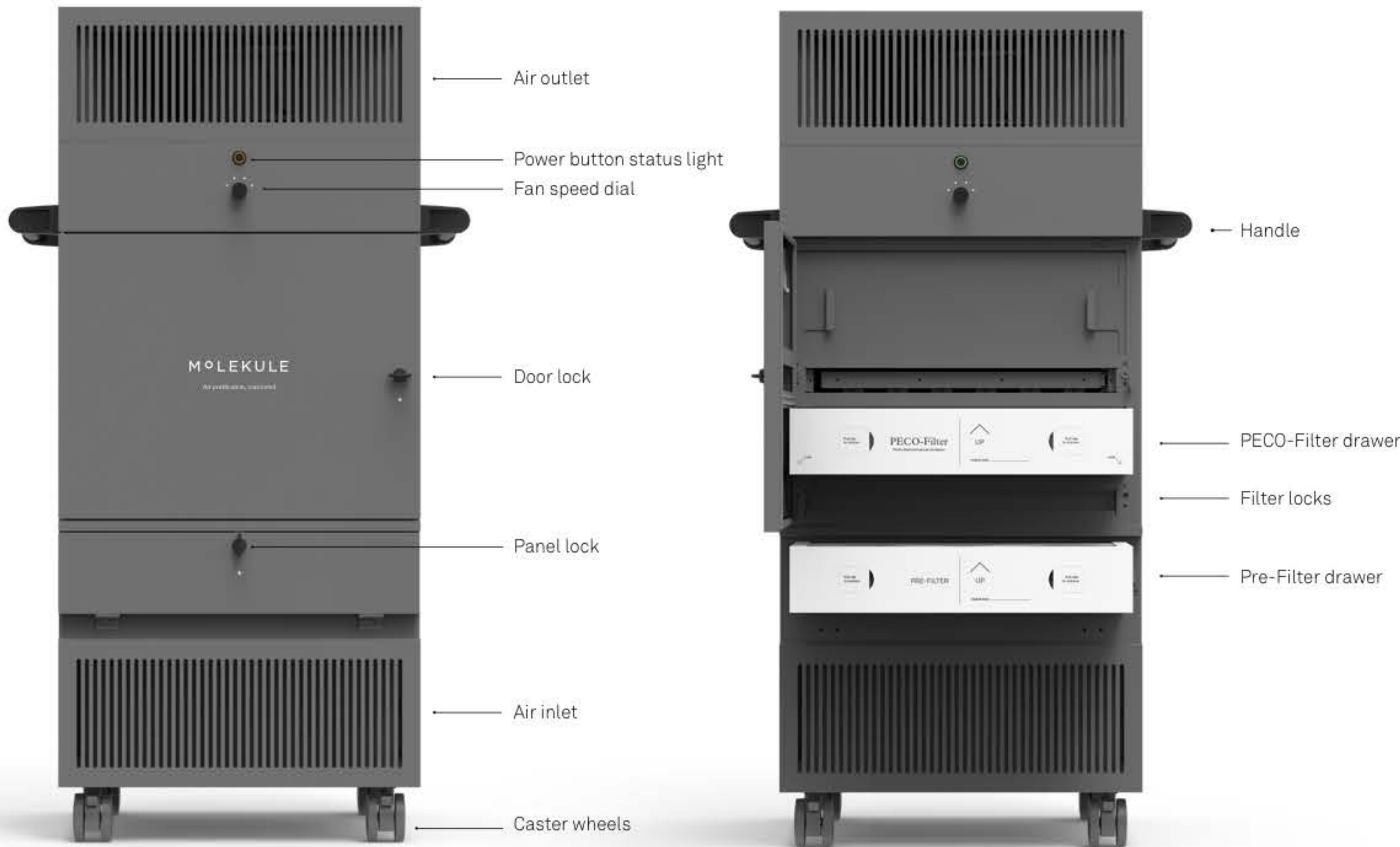
No WiFi

- No configuring needed
- Works anywhere

Air Pro RX

Outside

Inside



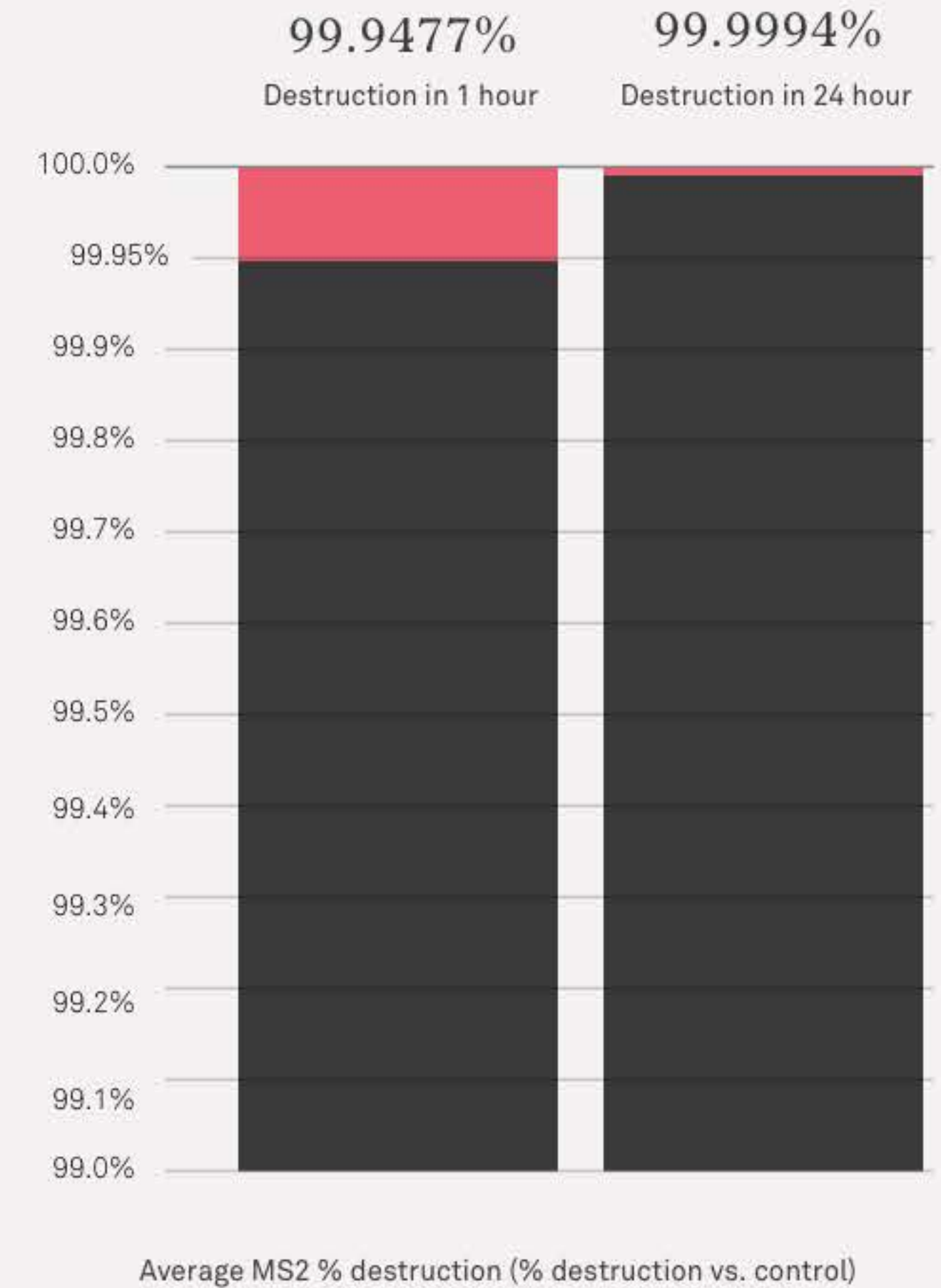
Specifications

Use	Intended for medical purposes	
Flow compatibility	Supports positive pressure rooms, and does not impact laminar flow as demonstrated by room-scale CFD, when placed in recommended locations	
Sound	60-80 dBA at 3 ft	
Dimensions	22 in x 22 in x 51 in nominal	
Weight	220 lbs	
Electrical	450W at 120V AC	
Cleaning	Compatible with standard wipe-down disinfection protocols	
Controls	On/Off push button, 4-speed flow selector	
Filters	Pre-Filter	Optimized for dust capture
	PECO-Filter	Optimized to destroy bacteria, viruses, mold
Filter-change frequency	Pre-Filter and PECO-Filter changed weekly	
Assembly	Made in the USA of US and foreign parts; TAA Compliant	

Certifications & Compatibility

- FDA 510(k) Clearance as a Class II Medical Device
- Conforms to UL Standard 507 – Electric Fans
- Tested to IEC 60601-1-2 EMC – Medical Electrical Equipment Compatibility
- Manufactured in an ISO 13485-certified facility

Molekule's PECO technology is proven to destroy a proxy virus for SARS-CoV-2 (RNA virus MS2).



PECO technology destroyed 99.9994% of RNA virus MS2 on the filter in 24 hours, which is a proxy for SARS-CoV-2, the virus that causes COVID-19.

Average % of MS2 virus destruction on the filter. Four filter samples were analyzed per time point. Plating and enumeration of each sample was completed in triplicate. 24-hour results reached limits of detection.

Study conducted in compliance with FDA Good Laboratory Practices (GLP) as defined in 21 CFR, Part 58

Read full FDA guidance
<https://www.fda.gov/media/136533/download>

To learn more