

# R-Zero Healthcare Ecosystem Safety and Efficacy Report



R-Zero is revolutionizing healthcare with industry-leading UV-C disinfection devices designed with cutting-edge efficacy, technology, and data-driven insights. Our connected ecosystem of devices addresses both air and surface disinfection at the source in real-time. R-Zero partners with you to design solutions that are custom-fit to your space.

Our suite of devices inactivates 99.9% or more of certain microorganisms, dramatically increasing effective ACH with lower energy consumption and a minimized need for chemical disinfection products. R-Zero solutions support not only your staff but also your facility goals, visitors, and patient needs. Our efficacy data is backed by third-party labs and hundreds of happy customers. UV-C is a proven method of disinfection for air and surfaces, used by healthcare facilities around the globe for safer indoor spaces.

## Arc

provides the fastest, safest, and most powerful UV-C mobile disinfection device on the market. Using highly efficient 254nm UV-C in 360° coverage for on-demand use in unoccupied rooms, Arc inactivates harmful microorganisms for a healthier indoor environment. In as little as seven minutes, a 1,000 sq foot space is ready for occupants. (Test: ASTM3135 – Surface)

Microorganism Tested	Efficacy (Reduction of Microbes)
Human Coronavirus Strain 229E (HCov-229E) (Virus)	99.9% Reduction in 7 minutes at 8-foot distance
Feline Calicivirus (Virus)	99.9% Reduction in 7 minutes at 8-foot distance
Escherichia coli (E. coli) (Bacterium)	99.99% Reduction in 7 minutes at 8-foot distance
Methicillin Resistant Staphylococcus aureus (MRSA)(Bacterium)	99.99% Reduction in 7 minutes at 8-foot distance
Staphylococcus aureus (Bacterium)	99.9999% Reduction in 7 minutes at 8-foot distance
Pseudomonas aeruginosa (Bacterium)	99.99% Reduction in 7 minutes at 8-foot distance
Clostridioides difficile spores (C. diff) (Bacterium)	99.9% Reduction in 7 minutes at 8-foot distance
Candida auris (Fungi)	99.9% Reduction in 7 minutes at 8-foot distance

## Beam

operates autonomously with passive technology and requires almost zero behavioral changes from occupants. Beam is ideal for use in reception areas, hallways, cafeterias, nurses stations and waiting rooms. This upper-room ultraviolet germicidal irradiation (UVGI) device works in occupied spaces to inactivate airborne microbes and helps disinfect indoor air safely.

Methicillin-Resistant Staphylococcus epidermidis (MRSE) (Bacterium)	99.99% Upper Room UVGI/30 minutes
Klebsiella aerogenes (Bacterium)	99.99% Upper Room UVGI/30 minutes
T1 (Virus)	99.99% Upper Room UVGI/30 minutes
SARS-CoV-2 (Virus)	99.99% Upper Room UVGI/30 minutes

## Vive

is a versatile device that works autonomously to eliminate harmful microbes from both air and surfaces. Using 222 nm UV-C light, also called Far UV, Vive is safe for occupied spaces, which makes it perfect for reception desks, bathrooms, nurses workstations, and smaller conference rooms.

Methicillin-Resistant Staphylococcus epidermidis (MRSE) (Bacterium)	99.99% Far UV/120 minutes
Klebsiella aerogenes (Bacterium)	99.99% Far UV/120 minutes
T1 (Virus)	99.99% Far UV/90 minutes
Aspergillus brasiliensis (Fungi mold spore) (Test: ASTM3135)	99.7% Far UV/240 minutes
Human Coronavirus Strain 229E (HCov-229E) (Virus - Surface)	99.78% 3.28 ft. (1 meter)/30 minutes

\*EPA GLP-compliant laboratories used for testing include:

Bioscience Laboratories - Bozeman, Montana  
 Microchem Laboratory - Round Rock, Texas  
 Aerosol Research and Engineering Laboratories - Olathe, Kansas  
 Innovative Bioanalysis, Inc. - Costa Mesa, California

**When it comes to UV-C, the data matters. R-Zero proves best in market efficacy, safety, and support.**

**Questions?** We're here to support you. [rzero.com/chat](https://rzero.com/chat)

