

R-Zero Ecosystem Safety and Efficacy Report

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

Our suite of devices inactivates 99.9% 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 your business goals and customer needs as well. 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, providing organizations and communities across the globe with safer indoor gathering spaces.

Arc

provides the fastest, safest, and most powerful UV-C mobile disinfection device on the market. Using highly efficient 254nm UV-C in 360o 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.

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 areas such as open offices, reception areas, and larger conference rooms. This upper-room ultraviolet germicidal irradiation (UVGI) device works in occupied spaces to inactivate airborne microbes and help 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 smaller spaces such as breakrooms, bathrooms, 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

