🖹 rzero

Beam

Autonomous upper room UVGI air disinfection

Efficacy

Provide hospital-grade air disinfection by adding 10 eACH to your space, the equivalent of changing air in a room every 6 min. While typical buildings have 1-3 air changes per hour (ACH), hospitals are required to reach 6-20 ACH because of the high risk of infection.

ROI

Improve your indoor health practices. Enhancing ventilation and disinfection protocols have been shown to increase employee productivity, student achievement, and reduce viral risk.

Sustainability

Achieve your IAQ goals with 90%+ less energy costs and greenhouse gas emissions than HVAC.

Autonomous

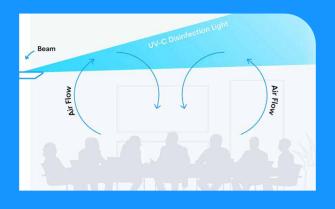
Labor-free disinfection that automatically powers on/off to maximize efficacy and bulb life while minimizing energy usage.

Connected Platform

R-Zero's software platform, Connect, integrates data from all devices, extracts insights, and manages workflows. Location and operation of each device is recorded and can be shared in reports to key stakeholders.

How it works

Potentially contaminated air rises and passes through the zone of irradiation, where it is disinfected. Natural airflow then recirculates the disinfected air in the occupied space.



Upper room ultraviolet germicidal irradiation (UVGI) is an air disinfection method generally recommended by ASHRAE and the CDC. R-Zero's upper room UVGI solution, Beam, has been independently validated for its ability to inactivate and destroy microorganisms, including:







99.99% SARS-CoV-2 99.99% Klebsiella bacteria **99.99%** Staph epidermidis

Beam

Autonomous upper room UVGI air disinfection

Germicidal Light Engine	
UV Source	4 Proprietary LED bars, 12 LEDs per bar
Rated LED Life	10,000 hrs, up to 3 years under normal operating conditions
Wavelength	Nominal 265 nm (range 260-270 nm)
Disinfection Power	99.99% reduction in SARS-CoV-2
Added Equivalent Air Exchanges	10 eACH in 500 sq. ft.
Controls	
On Unit	Device status indicator, on/off switch
Remote Operation	Web interface (R-Zero Connect)
Automatic Operation	Touchless power-on when room is occupied
Connectivity	WiFi (2.4 GHz)
Electrical	
Input Voltage	120-240 VAC
Current	1.6A (at 120 VAC)
Typical Power Consumption	120W
Max Power Consumption	200W
Power Connection	IEC C14 socket (cable Included)
Physical	
Physical Dimensions	77 inches wide, 16 inches deep
	77 inches wide, 16 inches deep 25 lb
Dimensions	
Dimensions Weight	25 lb
Dimensions Weight Mounting	25 lb Wall
Dimensions Weight Mounting Minimum Mounting Height	25 lb Wall
Dimensions Weight Mounting Minimum Mounting Height Environmental	25 lb Wall 7 feet from floor
Dimensions Weight Mounting Minimum Mounting Height Environmental Indoor/Outdoor	25 lb Wall 7 feet from floor
Dimensions Weight Mounting Minimum Mounting Height Environmental Indoor/Outdoor Altitude	25 lb Wall 7 feet from floor Indoor only 0-3000m
Dimensions Weight Mounting Minimum Mounting Height Environmental Indoor/Outdoor Altitude Temperature	25 lb Wall 7 feet from floor Indoor only 0-3000m 10-40C
 Dimensions Weight Mounting Minimum Mounting Height Environmental Indoor/Outdoor Altitude Temperature Relative Humidity 	25 lb Wall 7 feet from floor Indoor only 0-3000m 10-40C
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 Dimensions Weight Mounting Minimum Mounting Height Environmental Indoor/Outdoor Altitude Temperature Relative Humidity Safety Motion Sensors Physical Features 	25 lb Vall 7 feet from floor Indoor only 0-300m 10-40C 10-90% Long-range PIR sensors: 2 in the irradiance zone, 1 in occupied zone
 Dimensions Weight Mounting Minimum Mounting Height Environmental Indoor/Outdoor Altitude Temperature Relative Humidity Safety Motion Sensors Physical Features Regulatory 	25 lb Wall 7 feet from floor Indoor only 0-3000m 10-40C 10-90% Uong-range PIR sensors: 2 in the irradiance zone, 1 in occupied zone Physical Features Baffle under LEDs to direct light and keep occupant exposure below limits to direct UV-C light