

# RFUSION

TOMORROWS TECHNOLOGY TODAY

## RUVC Disinfection Systems

### Anti-Covid-19

The only air purification system independently tested against Covid by the National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University in the US have conducted research that validates the effectiveness of our UV-C light sources on the inactivation of SARS-CoV-2, the virus that causes COVID-19.



# R Model range



## R Direct

Tube 1xTUV 55W HO

IP20

57W AC230V - 50Hz

1,080 x 135 x 165 mm

6.6kg



## R Direct II

Tube 2xTUV 55W HO

IP20

112W AC230V - 50Hz

1,080 x 135 x 245 mm

8.8kg



## R Tile

Tube 2x TUV PL-L 60W

IP20

124W AC220 230V - 50Hz

595 x 595 x 80 mm

4.8kg



## R Hybrid

117m<sup>3</sup>/h fan capacity

Tube 1xTUV 55W HO +

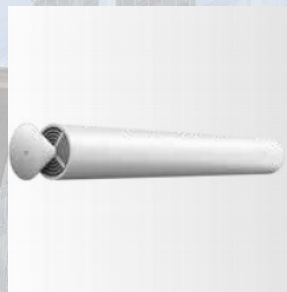
2x TUV 55W HO

IP20

184W AC230V - 50Hz

1,150 x 235 x 320 mm

14.7kg



## R Air

117m<sup>3</sup>/h fan capacity

Tube 2x TUV 55W HO

IP20

129W AC230V - 50Hz

1,150 x 180 x 235 mm

11.1kg



## R Cannon

12,000m<sup>3</sup>/h fan capacity

Tube 30x TUV 55W HO

IP20

4,680W 3xAC230V - 50Hz 16A

2,395 x 1,265 x 800 mm

265kg

# Rfusion's, Mid-Air Disinfection System (RMADS)

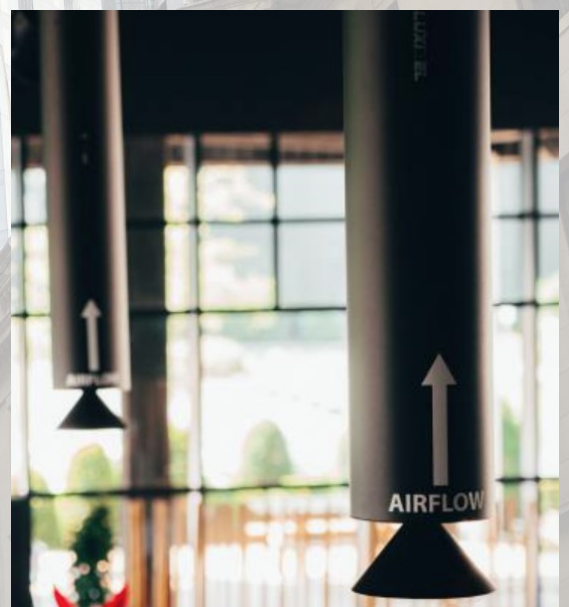
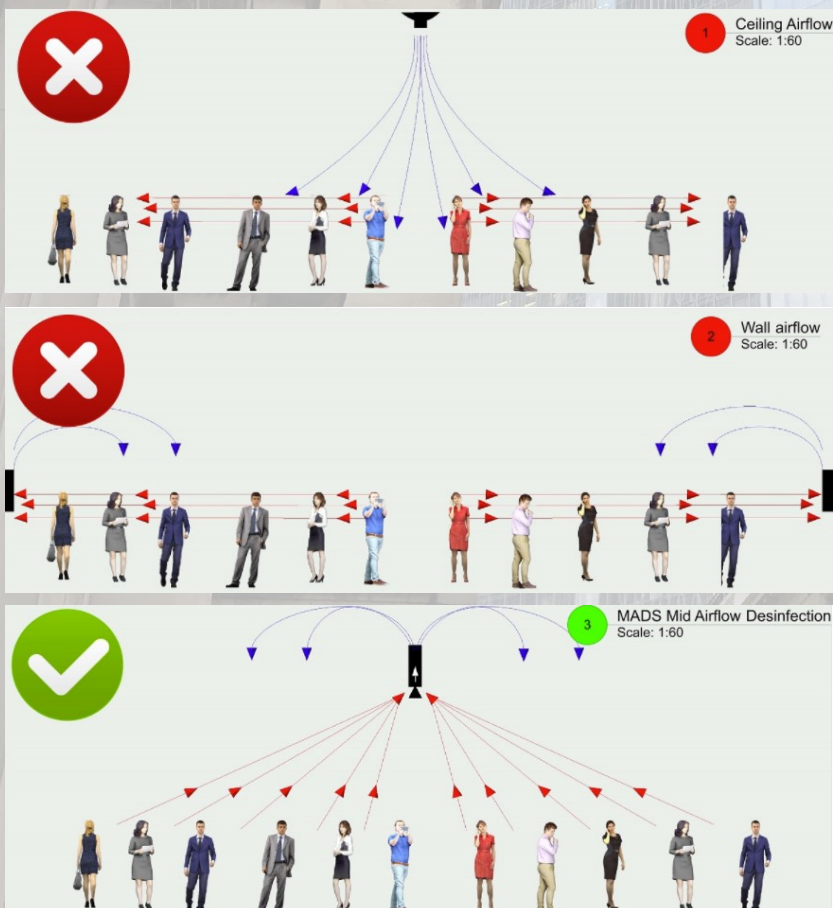
## THE COMBINATION OF UVC AIR DISINFECTION AND AERODYNAMICS

The RMADS system is developed for larger spaces with an audience where air circulation needs to be taken into account.

The main advantage of this installation, is to ensure that the air breathed out by guests is sucked upwards by the aerodynamically-patented system. Micro-organisms such as bacteria and viruses are neutralised and germ-free air is blown back into the room or venue.

When we meet up in enclosed spaces with groups of people, air disinfection will contribute to reducing infection rates.

Signify (formerly Philips Lighting) published the results of tests on UVC light on the coronavirus. Through scientific testing by researchers at Boston University they concluded that UVC radiation is highly effective in neutralizing the coronavirus. There is no risk of harmful radiation to people, as RMADS carries out the UVC disinfection process within a fully-enclosed device.



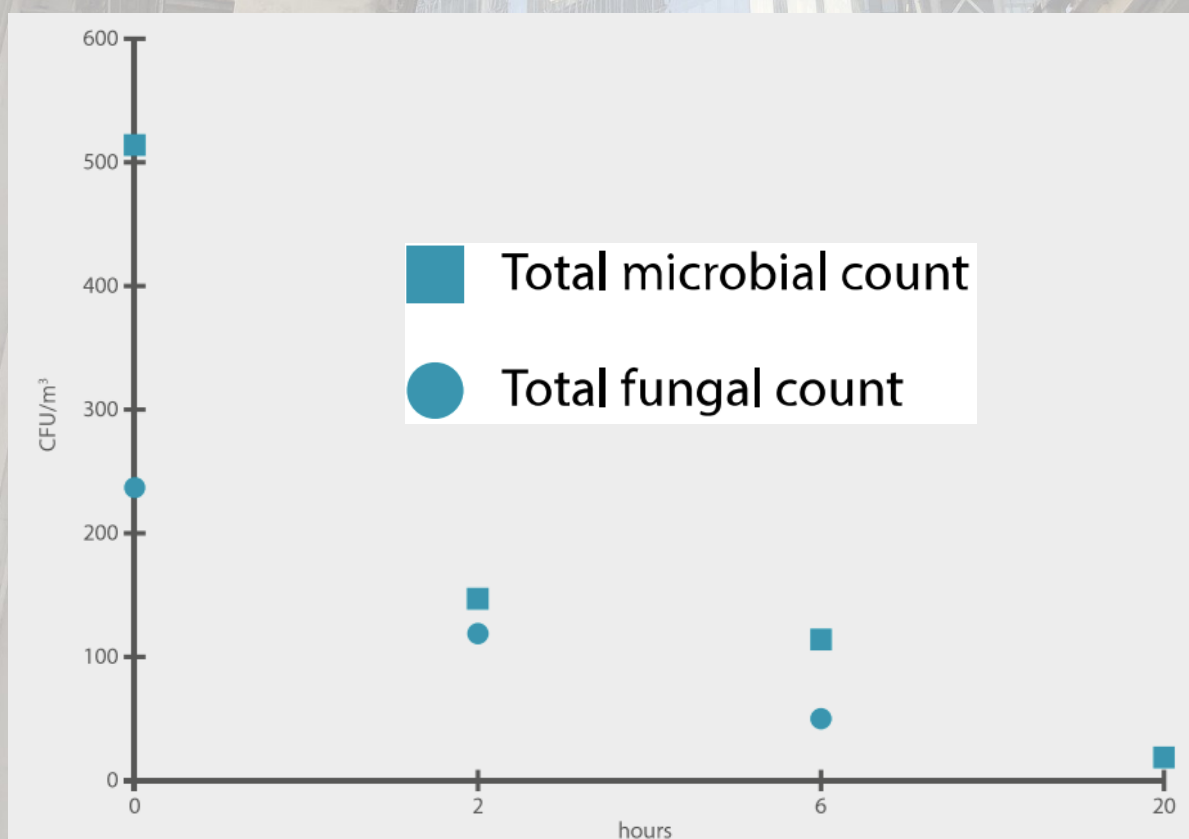
RMADS installed in a well known restaurant chain

## White Paper

### UVC Air Disinfection - Scientifically Verified

The Rfusion type R Air (2x 55W TUV disinfection lamp) makes use of this same principle to treat indoor air and because of its aerodynamic design and vertical structure it samples in a laminar mode of flow in the middle of the air column above the crowds.

In a study executed by the IBPR (Pro Waław Dabrowski Institute of Agriculture and Food Biotechnology) in Poland, our apparatus exhibits an almost immediate effect on the microbial air quality, by a reduction of 71 and 49 % of respectively total microbial and fungal count after 2 hours of operation in a setup of 1.3 fold treatment of indoor air volume per hour (See Figure 1). After 20 hours the reduction in viable count were reduced with 98% and 93% of the initial burden respectively.

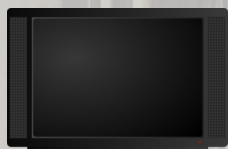


Total microbial and fungal counts upon sampling of 1m<sup>3</sup> of indoor air (MAS-100 ECOTM air sampler, MBV), after growth on media

# Market Applications



Office buildings  
Multi tenant buildings  
Warehousing, Manufacturing  
Hotels



TV studios  
Film sets



Restaurants  
Bars  
Clubs



Hospitals  
Surgeries  
Dentists  
Vets



Gyms  
Health Spas  
Changing rooms



Shops  
Banks  
Grocery stores



Transportation Hubs  
Airports  
Train and Bus Stations  
Trains and Buses

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