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# CLEAN AIR MAKES THE DIFFERENCE

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EMERGENCY QUARANTINE ROOM



## WHAT WILL YOU GET FROM CLEAN AIR

- > Less Nosocomial Infections
- > Less (MRSA, TBC, etc) outbreaks due to preventive isolation
- > Reduced stay in hospital and hygiene measurements
- > Protection of staff & employees

*„Virobuster can provide a valuable contribution to reduce an infection significantly“*

*Dr. Ron Hendrix, Dutch NOS news, 26 Mai 2008*





# REASONS TO CHOOSE VIROBUSTER

## > SUSTAINABLE

Lasting reduction of micro organism in HVAV systems

## > EFFICIENT

Eliminates more than 99 % of fungi, spores, bacteria and viruses

## > EASY APPLICATION

Modular and « Plug & play » solution

## > ECOLOGICAL

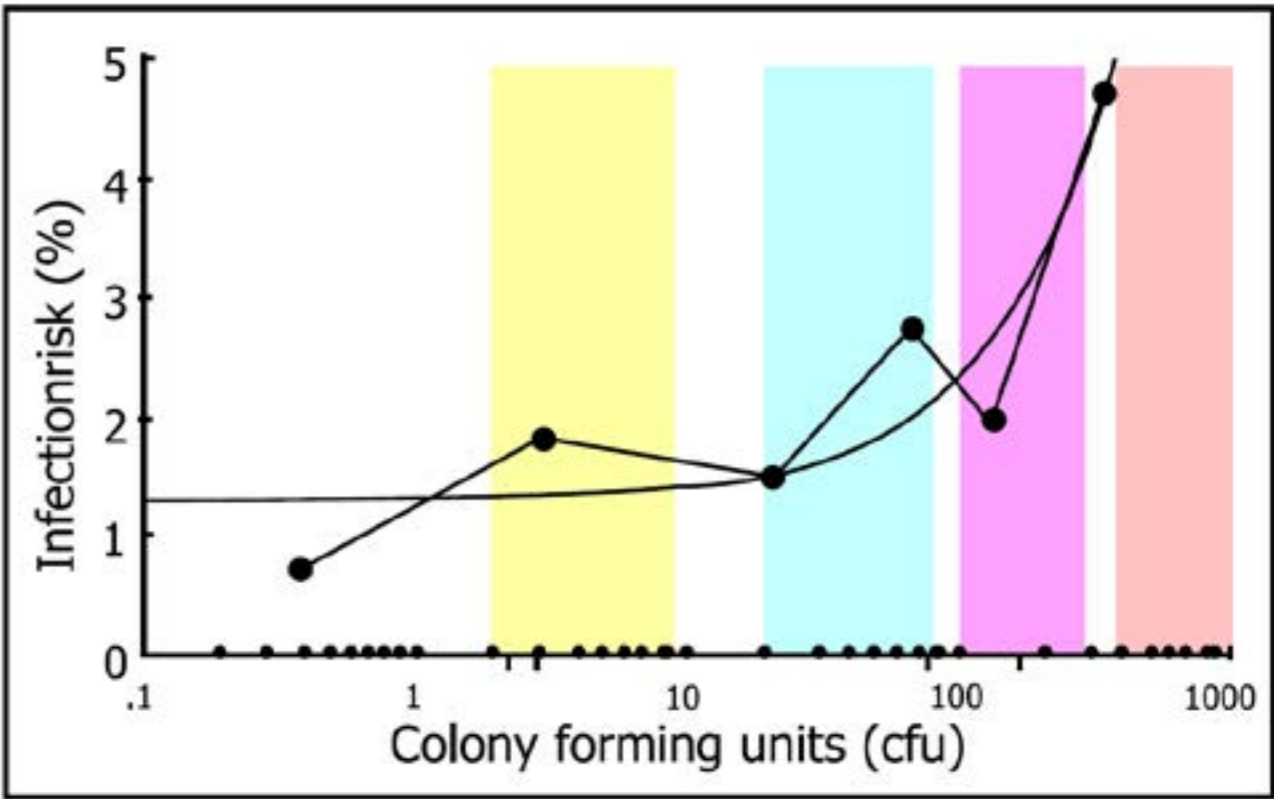
No use of chemicals, no organic waste, no ozone production

## > ECONOMIC BENEFIT

No need for customized manufacture and upgrading existing HVAC systems



*“The air is the only thing left dirty, and these opportunities give us a chance to also optimalize these last aspects also”*  
*Dr. Marc Eijsink, - Dutch NOS news, 26 Mai 2008*

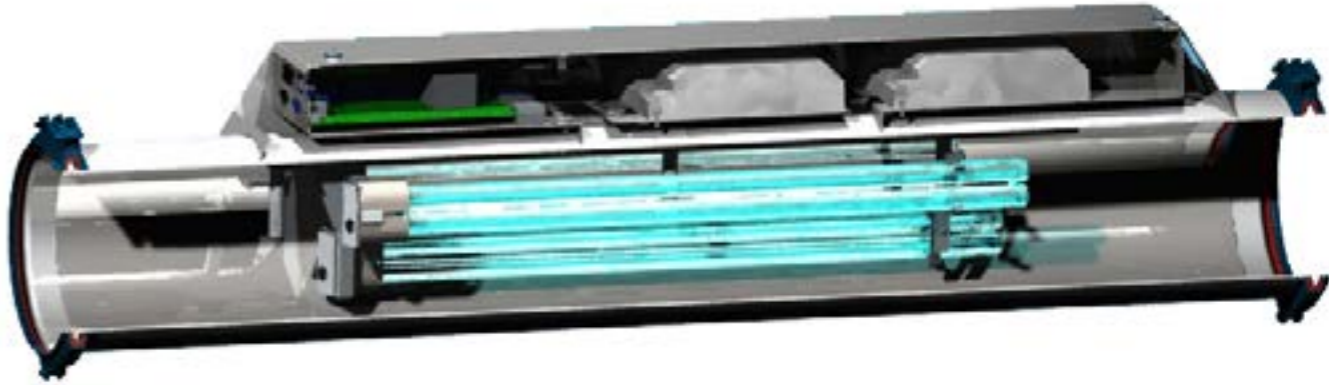




*STOP the micro organism reproduction  
NEUTRALIZES their damage potential*

## HOW DOES IT WORK

- > DNA is blocked by UVC (254nm)
- > Cell division of micro organism is prevented
- > An infection is prevented

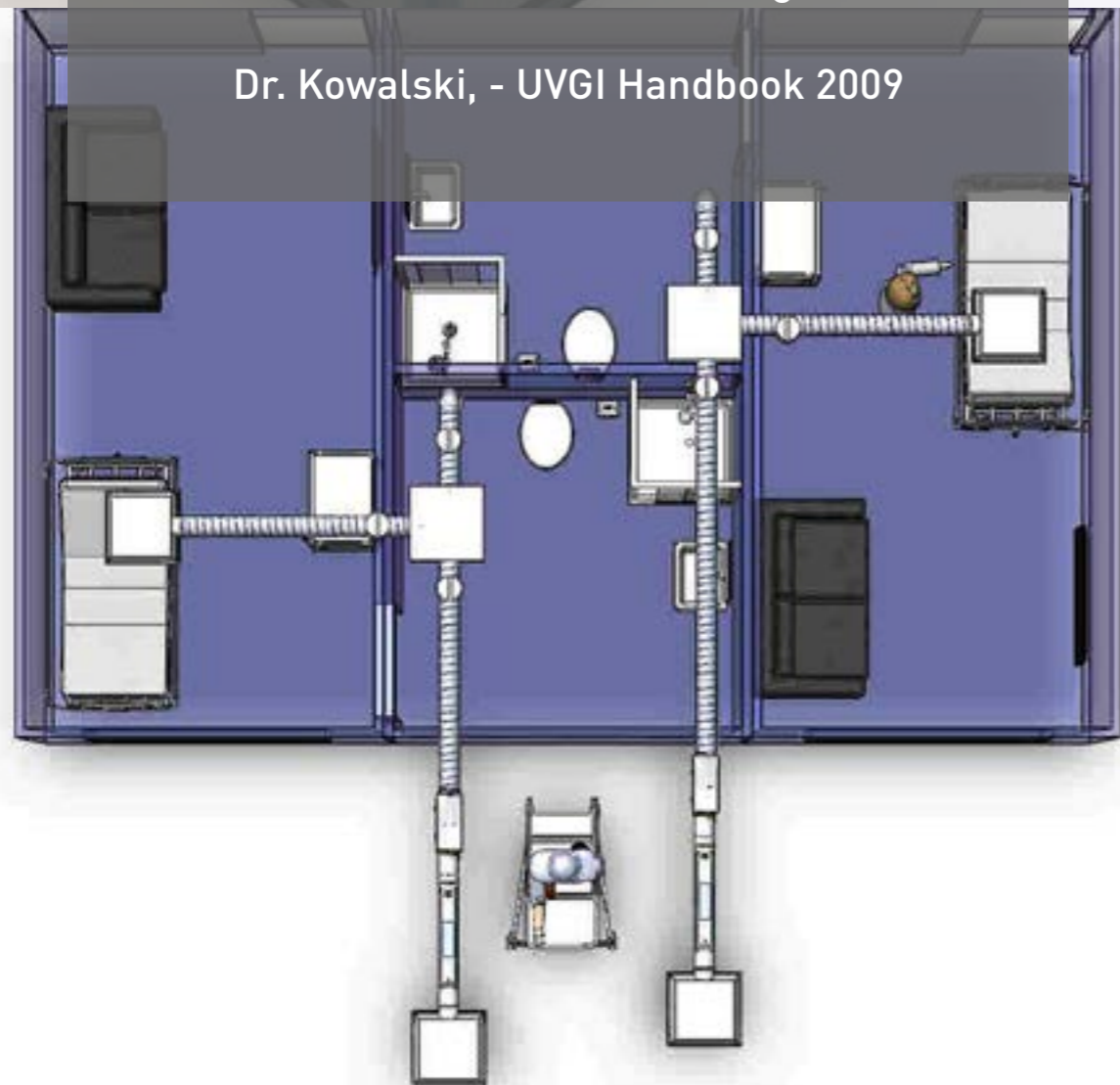






“VIROBUSTER® has taken the lead in research and development in air sterilisation technologies”

Dr. Kowalski, - UVGI Handbook 2009



## USE IN PRACTICE

### EMERGENCY ISOLATION/QUARANTINE ROOM


VIROBUSTER® proofed its application in all health care spaces. A short overview

#### Isolation room

The fact that a VIROBUSTER® solution can be used “on demand” for both maximum patients - as well as environmental protection (individually or together), means big energy and maintenance savings compared to conventional solutions.

- > Hybrid Concept
- > Same investment, more rooms possible
- > Lower running costs
- > Virus safety by means of proven UVGI Technology
- > Bi-Directional flow possible
- > Lower running costs



Product	Art.Nr.	Description	Pricing
	500000721	STERITUBE (15-35°C)	EUR 2.500,-
	The package consists of a Steritube, a fan and a (error/hours) control box (prices are ex-VAT, FOB)		
<b>Technical specifications</b>			
<ul style="list-style-type: none"> <li>• Dimension</li> <li>• Electric power</li> <li>• Pressure drop</li> </ul>		230 x 180 x 1003 mm (LxWxH) 190 Watt 150 m <sup>3</sup> /h - 2 Pa 300 m <sup>3</sup> /h - 13 Pa	
<ul style="list-style-type: none"> <li>• Airflow</li> <li>• Biological reduction</li> <li>• Maintenance</li> </ul>		150 - 400m <sup>3</sup> /h > 90 % (Bacillus Subt. Spores) 9.000 hrs (lamps en ART*)	
Fan		<ul style="list-style-type: none"> <li>• 45 Watt</li> <li>• 75 - 380 m<sup>3</sup>/h</li> <li>• 220 - 0 Pa</li> <li>• 34 - 58 dB(A)</li> </ul>	



*VIROBUSTER® is a Born Global Firm™*

*Dr. Paula Englis, - "Born Global Firms" 2011*

## CASES



The former Westfriesgasthuis changed 5 normal rooms into 5 hybrid rooms by just adding 5 Steritubes to the existing air ducts.

### ACHIEVED ADVANTAGES:

- > Easy implementation
- > Virus safety
- > Use on demand

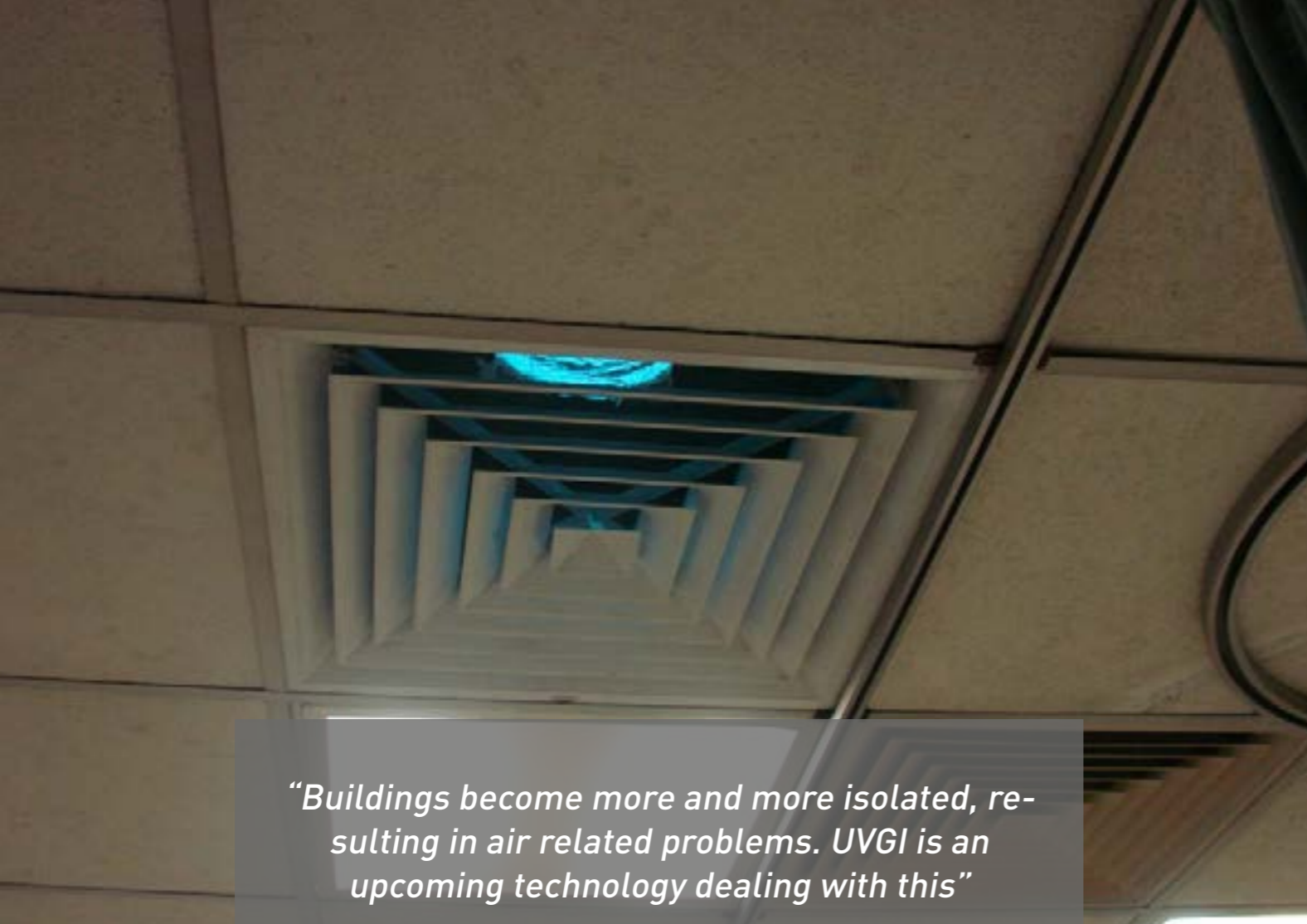


VIROBUSTER® installed in several spaces additional safety measurements by means of clean air inlet (new born mother-child rooms) and clean air outlet (MRSA contaminated dialyse patients)

### ACHIEVED ADVANTAGES:

- > Safety fro patients and staff
- > Improved outbreak control
- > Clean air request on-demand





*“Buildings become more and more isolated, resulting in air related problems. UVGI is an upcoming technology dealing with this”*

*Prof. Andre Doree*



## CASES



Foshan State Hospital executed several burn wound rooms with clean air by Virobuster. The clean air prevented the isolated burn wound patient to develop wound infection

### ACHIEVED ADVANTAGES:

- > Less or no cross-contamination
- > Less use of antibiotics
- > Less lying days

### medisch centrum alkmaar

The Medical Centre in Alkmaar requested a room which should be prepared for isolation and quarantine patients. The possibility of bi-directional flow provided the use of a Steritube as an independent system which even provided with its own fan enough positive or negative pressure.

### ACHIEVED ADVANTAGES:

- > Both isolation and quarantine in one system
- > Independent and self-controlling HVAC System
- > Safe concept and low running costs



## ABOUT THE COMPANY

### Virobuster International GmbH

Virobuster have been confirmed to be very effective and practical in the medical market

Many scientific publications, recommendation letters and press articles have been published which makes the Virobuster UVPE the first worldwide Evidence Based UV Technology.

The company established cooperation's with several partners in all interesting market segments to meet the worldwide request.

- > Scientific proven
- > Worldwide accepted
- > Standard product



### FROM MEDICAL TO INDUSTRY

The reduction of fungi, bacteria and viruses does have a significant impact on the air quality and would be beneficial for several segments:

Processing a product under clean air circumstances prevents a biological false start, meaning a much longer shelf life remains. With other words: Clean air can make the difference in shelf life.

### FROM MICRO ORGANISM TO EMISSION REDUCTION

Virobuster developed next to micro organism reduction, also a technology to reduce emissions like odours.

We call it the Odourtube !

[info@odourtube.com](mailto:info@odourtube.com) • [www.odourtube.com](http://www.odourtube.com)



**“OUR AIM**  
*Innovations for higher product quality VIROBUSTER® UVPE technology enables air quality to be improved significantly without the use of additives, with a level of efficiency that is unparalleled and using a method that is not only compatible with existing hygiene measures but also free of emissions and safe for humans, animals and the environment.”*





# Medical Applications



**VIROBUSTER® INTERNATIONAL GmbH**

Köhlershohner Straße 60 • DE-53578 Windhagen  
Tel +49-(0)2224-818 780 • Fax +49-(0)224-818 500  
[info@virobuster.com](mailto:info@virobuster.com) • [www.virobuster.com](http://www.virobuster.com)

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