

Disinfects contaminated rooms fast and efficiently

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Dolphin Care UVC Room Disinfecter

## Dolphin Care UVC Room Disinfectant – *the strongest solution in the market*

- The strongest UVC-irradiation effect
- Clinically tested and documented efficacy
- Total floor irradiation
- Effectively eliminates the RNA/DNA of viruses, fungi and bacteria all the way from the floor to the ceiling in a radius of 5 meters from the main unit
- Satellites to cover blind angles and small areas
- Easy and safe to operate



The main unit covers an area  
of 100 m<sup>2</sup>  
Each satellite covers an area  
of 16 m<sup>2</sup>

# Facts

UVC – a well-known and recognized technology

No-touch surface decontamination technologies that use ultraviolet light may be effective in enhancing the results of the effort spent to reduce the microbial burden and potentially achieving lower Healthcare-associated Infections HAIs rates, as aimed for in infection control strategies.

Hence, these data are important for hospitals that plan to adopt this technology as adjunct to routine manual disinfection; providing the goal is to eliminate surface bioburden and as a consequence, HAIs, hospitals will need to continue to improve in both hand hygiene and environmental disinfection.

*Source:* Evaluation of an Ultraviolet C (UVC) Light-Emitting Device for Disinfection of High Touch Surfaces in Hospital Critical Areas  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6801766/>

Hospital Acquired Infection – the most frequent adverse event in health-care delivery worldwide

Hundreds of millions of patients are affected by health care-associated infections worldwide each year, leading to significant mortality and financial losses for health systems.

Of every 100 hospitalized patients at any given time 7 in developed and 10 in developing countries will acquire at least one health care-associated infection.

In high-income countries, approximately 30% of patients in intensive care units (ICU) are affected by at least one health care-associated infection.

Newborns are at higher risk of acquiring health care-associated infection in developing countries with infection rates three to 20 times higher than in high-income countries.

*Source:* WHO : Health-care associated infections  
[https://www.who.int/gpsc/country\\_work/gpsc\\_ccisc\\_fact\\_sheet\\_en.pdf](https://www.who.int/gpsc/country_work/gpsc_ccisc_fact_sheet_en.pdf)

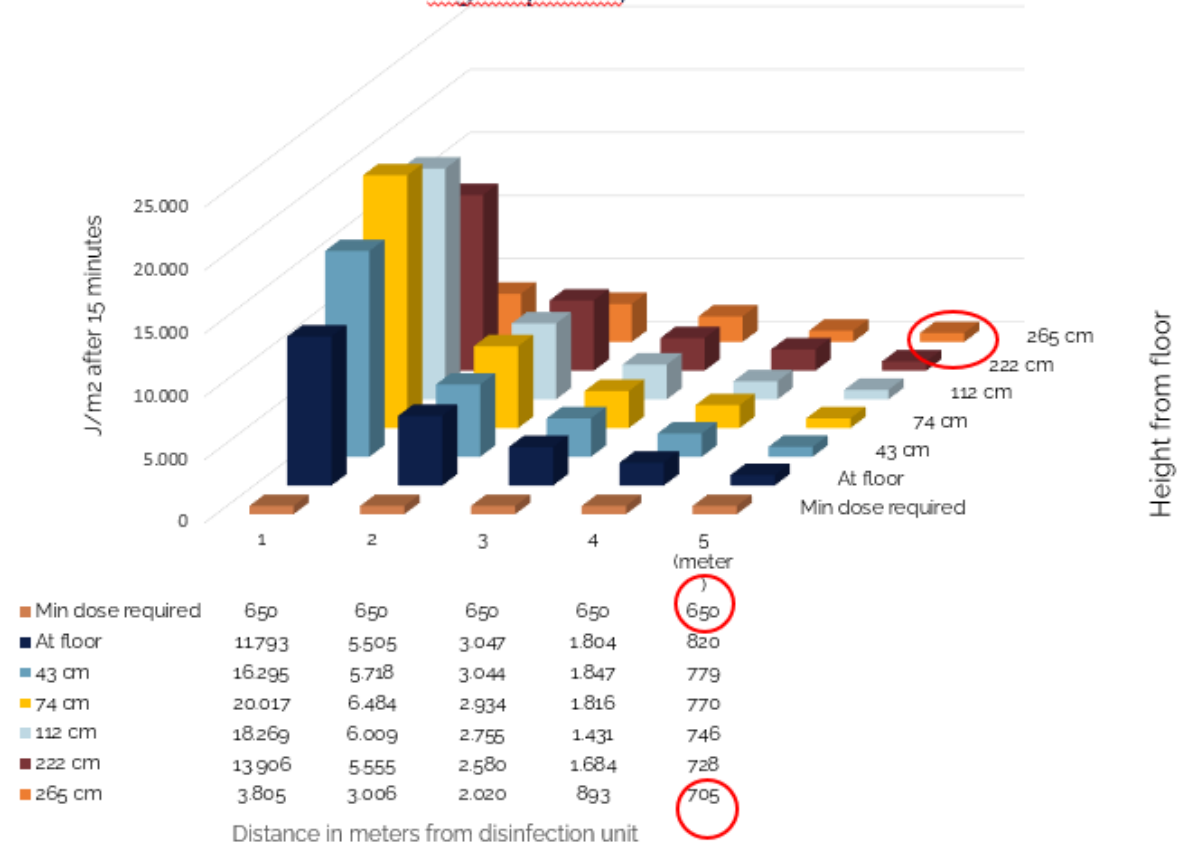
Strongest UVC-volume in the market

The unit has 13 UVC-lamps in total – 11 in the main unit and one in each satellite.

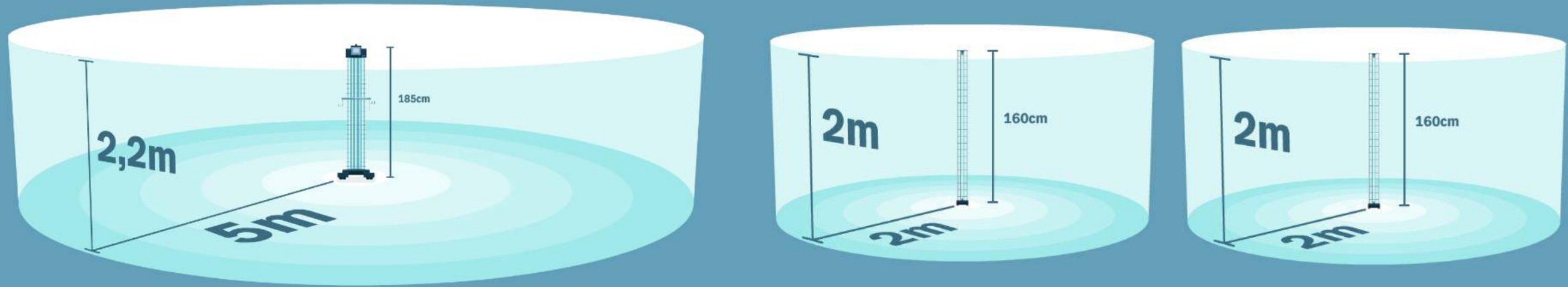
The lamps deliver the necessary effect for 365 days from putting them into operation.

The UVC-lamp in the bottom of the main unit secures that the floor is effectively disinfected whereas the large 10 UVC lamps secure disinfection in an area up till 100 m<sup>2</sup> from the floor to 220 cm in the height.

Measured dose (J/m<sup>2</sup>) after 15 minutes with disinfection unit at Rigshospitalet, Denmark



# Irradiation area

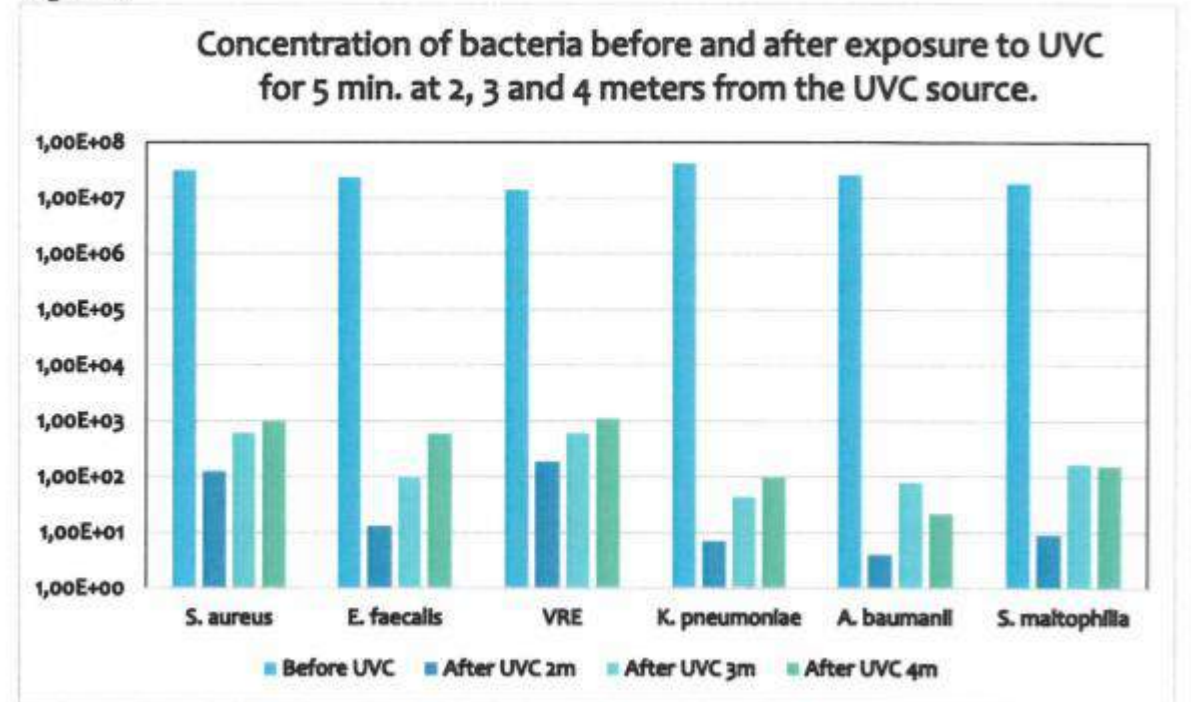


- The Dolphin Care UVC Room Disinfectant is clinically tested and has a documented effect from the floor up till 2,2 meter in the height
- Total floor irradiation with no blind spots
- The main unit delivers the necessary volume of UVC light –  $650 \text{ j/m}^2$  – up till 5 meters from the unit
- Each satellite has an irradiation radius of 2 meters from the unit
- The main unit is effective in an area up till  $100 \text{ m}^2$
- Each satellite is effective in an area up till  $16 \text{ m}^2$

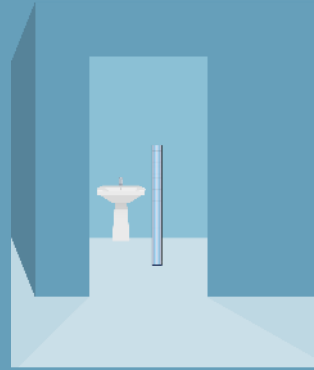
Tested by Copenhagen University Hospital, Rigshospitalet

- ✓ MRSA (METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS)
- ✓ ESBL PRODUCING GRAM-NEGATIVE BACTERIA (EXTENDED SPECTRUM BETA-LACTAMASE)
- ✓ MULTI-DRUG RESISTANT STRAINS OF PSEUDOMONAS AERUGINOSA (MDRPA)
- ✓ VRE (VANCOMYCIN-RESISTANT ENTEROCOCCI)

Figure 2



Source: Test report – Dolphin Care UVC Room Disinfectant, issued by MD Leif Percival Andersen, specialist in Clinical Microbiology and Head of The Laboratory of Hygiene, Rigshospitalet Copenhagen, Denmark



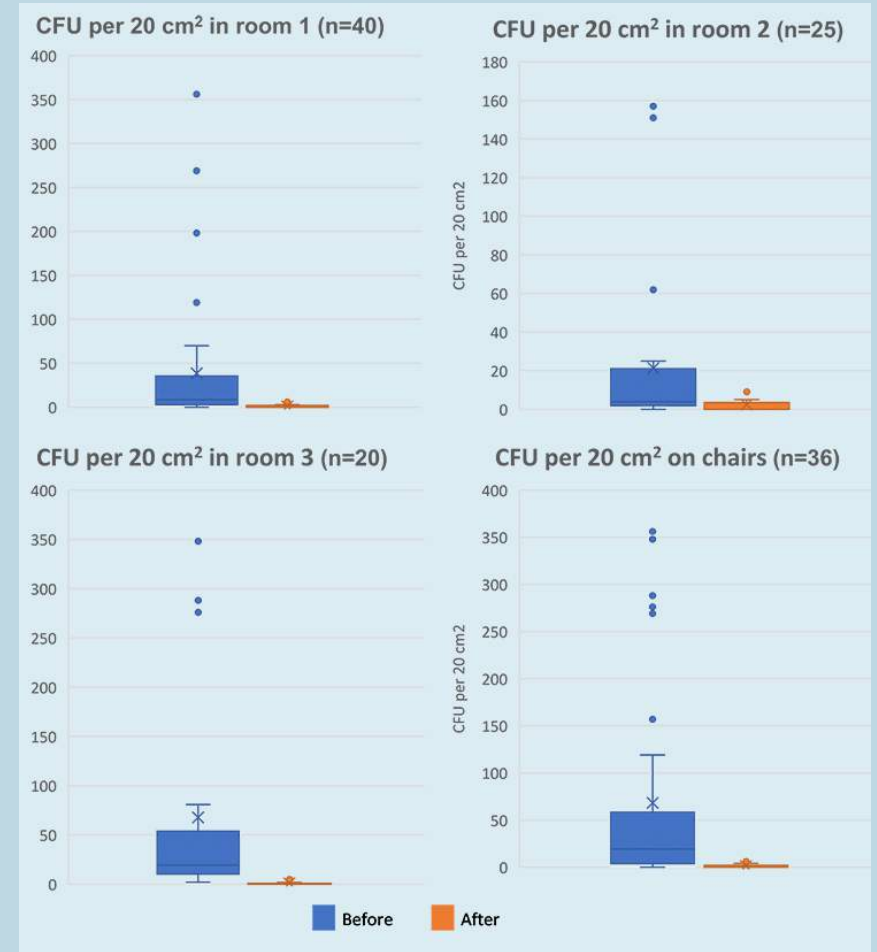
Two satellites cover blind angles and small rooms

The satellites are connected to the main unit and will run for the same period.

The use of satellites saves time as blind angles, toilets, entrances etc. are disinfected during the same process as for the main ward.

## Results from test in clinical environment

The units are standing still during the disinfection process which secures that no particles are stirred around but instead are eliminated effectively.



Source: Test report - Dolphin Care UV Room Disinfector, issued by MD Leif Percival Andersen, specialist in Clinical Microbiology and Head of The Laboratory of Hygiene, Rigshospitalet Copenhagen

Easy to use – fast turn-over of patient wards

1. Conduct the normal cleaning procedure
2. Make the room ready for disinfection
  - ✓ Remove beds, chairs and tables
  - ✓ Open the cabinet doors
  - ✓ Place the main unit in the center of the room
  - ✓ Place the satellites for irradiation of ie. blind angles, toilets or the entrance
  - ✓ Place the caution signs in front of the door/doors
3. Plug in the cable
4. Push the green start/stop button
5. Choose time interval and push OK
6. Leave the room and close the door(s)
7. Check the display if the disinfection has been proceeded correctly – indicated by ✓



### Disinfection **times**

- 30 minutes exposure for non-sporing bacteria and viruses
- 90 minutes for spore-producing bacteria and mycobacterium

The room can be used immediately after the end of the disinfection process



## CASE: Herlev Hospital, Denmark

At Herlev Hospital the hygiene team has been using the Dolphin Care UVC Room Disinfectant for more than 2 years in connection with out-break of hospital infections.

The hospital has had severe challenges with VRE and therefore the patient toilets are disinfected regularly by using the satellite units – 5 minutes per toilet.

The result is a significant reduction of VRE.

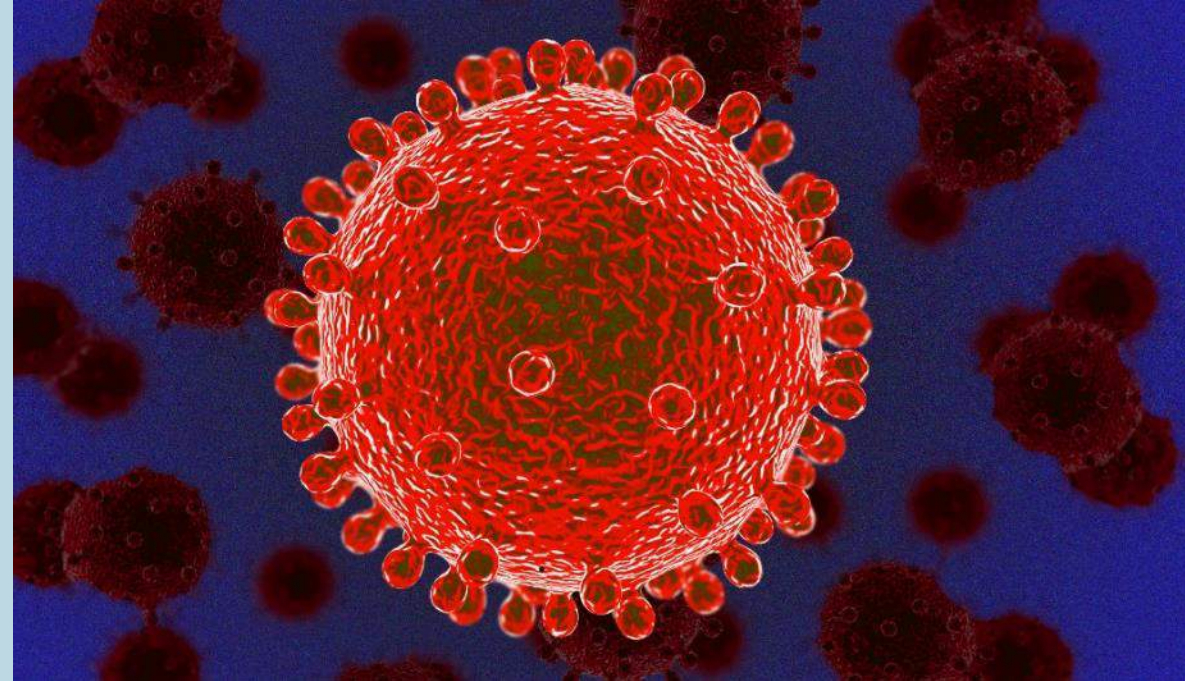


## CASE: Securing fast turn-over of Covid-wards

At the Copenhagen Regional hospital in Gentofte, they use the Dolphin Care UVC Room Disinfector at the respiratory department for Covid-19 patients.

After every patient, the room is disinfected for 20-30 minutes and the ward is ready for use for the next Covid-19 patient.

The process secures a fast turn-over of the Covid-19 wards, which otherwise could be a bottleneck during the pandemic.





# Contact information

Head-office

Dolphin Care ApS  
11, Unionsvej  
DK-4600 Koege

Tel: +45 7174 1379

Mail: [info@dolphincare.net](mailto:info@dolphincare.net)

WWW: [dolphincare.net](http://dolphincare.net)



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