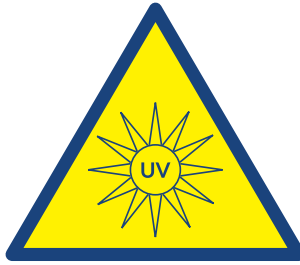


Vertex 222

(Filtered Far UV-C)

Technical & Installation Manual





CAUTION UV LIGHT

THE PRODUCT AS DESCRIBED HEREIN CONTAINS COMPONENTS THAT EMIT FILTERED FAR-UVC LIGHT.

DO NOT USE THE PRODUCT BEFORE CAREFULLY READING THIS MANUAL.

ALWAYS KEEP THIS MANUAL WITH THE PRODUCT AND CONSULT IT REGULARLY.

ATTENTION

Lumière UV émise
par cet appareil.

Évitez de regarder
directement la
lampe en cours
d'utilisation.



CAUTION

UV Light emitted
from this device.

Avoid looking directly
at the light.

IEC/TR 62471-2:2009

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1. USING THIS MANUAL – GENERAL

This manual (hereinafter referred to as the “**Manual**”) is intended to be used as work of reference for professional, well trained and authorised users to be able to safely install and use the product mentioned on the cover of this document (hereinafter referred to as the “**Product**”). The observation of the Manual does not dispense the user from the observance of the local safety instructions and regulations other than provided by the Manual. Such safety instructions and regulations must be observed at all time.

For information about specific adjustments, maintenance or repair jobs which are not dealt with in this manual, please contact your Product supplier or UV Medico A/S.

If you suspect that the Product is damaged or detect a potential or actual danger when using the Product, immediately discontinue use of the Product and contact your supplier of the Product.



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1.1. BASIC SAFETY INSTRUCTIONS

To minimise the risk of injury, the following basic safety precautions should be observed with each use of the Product:

Only operate the Product if you have read and understood the Manual and are aware of the content of all current legal regulations (ISO 15858 and TLVs® and BEIs® from the ACGIH).

Do not remove the sticker on the front of the unit until the Product is commissioned by a qualified installer.

Do not put any object in close front of the surface of the Product.

Do not put plastic or glass in front of the Product. It does not transmit UV.

Make sure the Product has an unobstructed path towards the area to be disinfected.

Do not use flammable substances near the lamp module.

- This is an electronic device. Do not use flammable or combustible gases or liquids, such as oxygen, hydrogen, or chemicals, near the Product. Failure to obey may result in fire or explosion.

Do not turn on any Product with a broken front glass.

If the front glass is broken, disconnect the Product immediately and contact an authorised installer.

Do not disassemble or modify the lamp module.

- Disassembly or modification may result in fire, electric shock, or injury.

Turn off the electrical power during lamp module maintenance.

Do not remove any safety labelling or parts.

Do not touch the lamp module during operation.

- Otherwise, it may result in fire, electric shock, or injury.

Ground the device or metal parts of the housing that are close to the lamp module.

- Otherwise, it may result in fire, electric shock, or injury.

Do not use the unit for purposes other than disinfection.

- The unit is designed for disinfection. Using it for any other purpose may result in unexpected accidents.

Avoid looking directly at the light.

2. DISCLAIMERS

UV Medico A/S with registered office at Søren Frichs Vej 50, 8230 Åbyhøj - Denmark, or any of its affiliates, does not accept any liability for material damage, including damage to the Product or personal injury caused by non-observance by the user of the safety instructions in the Manual or the applicable laws. As such UV Medico A/S shall among others not be liable for any damage or injury if the Product is used contrary to or for purposes other than its intended use, is installed, used, maintained or repaired negligently or contrary to the instructions mentioned in the Manual or on the Product; also in the case the Product is modified, and when safety devices and features are disregarded or overridden.

3. SAFETY INSTRUCTIONS AND WARNINGS

3.1. User manual

Every person using the Product must read and understand the contents of the Manual and familiarise themselves with it before any use of the Product, and must strictly observe the instructions set out herein. If you are an employee or are acting on behalf of another person, your employer/that person must instruct you in accordance with the Manual and ensure that all instructions set out herein are complied with.

Do not use the Product if that is not the case.

3.2. Intended use and installation

The Product is intended exclusively for air and surface disinfection. Using the Product for other purposes is contrary to its intended use and is done at own risk.

To ensure safe use of the Product, its installation, including all its safety features and devices, and its maintenance and repair, must be carried out correctly by a qualified installer. All of the Product safety features and devices must be mounted and may not be

removed but for the purpose of maintenance and repair.

The Product is not intended to be used by minors. Any use of the Product by minors, regardless of whether or not under the supervision of an adult, is at own risk.

3.3. Safety features of the Product

Each Product is equipped with the following safety features:

- Radar: to measure movement and distance to the occupants of the room.
- Multicolour LED: to signal the operation and state of the unit.

It is strictly forbidden to override these safety devices or to use the Product if the safety features are not fully present or disfunction.

The safety features should be regularly checked for their proper functioning, and if required, be immediately repaired or replaced.

The pictograms, warnings and instructions attached to the Product are part of its safety features. They must not be covered or removed and must be present and legible during the entire use of the Product.

Immediately replace or repair missing, damaged or illegible pictograms, warnings, and instructions.

3.4. Modification

No modification of the Product is allowed. All warranty and liability are void if any modifications are done to the Product.

4. GENERAL CHARACTERISTICS AND TECHNICAL SPECIFICATIONS

Vertex 222 has an IP66 rating, and is designed to emit Far UV-C radiation with a wavelength of 222 nm, in order to eliminate viruses, bacteria, fungi, and other pathogens, from air and surfaces.

Technical data

Light Source	Krypton chloride excimer lamp
Wavelength	222 nm
Output	460 mW (Typical)
Input voltage	90-264 V AC
Mode (Programmable)	Continuous / duty cycle/motion sensor
Max power consumption	120 W
Weight	4.5 kg (9.92 lbs)
Dimensions	167 x 136.5 x 530 mm (6.57 x 5.37 x 20.86 in)
Operating temperature	0° to + 40° C (32° to 104° F)
Ambient humidity	5-90% RH Non condensing
Materials	Aluminum, quartz glass

5. Understanding the unit's operation

LED	MEANING
No light	No power.
Red continuous	Error: no feedback from the Product light source.
Green continuous	Light source is on.
Blue continuous	UV off.
Flashing red	Safety button pushed
Red-blue-green (loop)	Recommended change of Far UV-C light source.

If the LED is red, contact your local UV Medico distributor.

6. INSTALLATION OF THE PRODUCT

Perform the following steps for the installation of the Product.

Outside every room where Far UV-C light is used, there must be information signs in clear line of sight.

Installation must be done according to the local regulations by a qualified installer.

6.1. Choose the appropriate location

Choosing the appropriate location is important for the proper functioning and safe use of the Product.

A DIALux simulation can help choosing the right position for optimal disinfection.

Install the Product in a protected area where the temperature does not fall below -10°C (14°F) and the humidity remains within the Product's specifications. The Product functions ideally in a temperature range from -10° to $+50^{\circ}\text{C}$ (14° to 122°F).

Select a Product mounting location that is close to surface/area that you want to disinfect.

6.2. Unboxing and inspection

Read and save all notices, warnings, and safety instructions received with the Product.

Open the box and carefully take the unit out of the box. Take the unit out of the plastic bag. Do not remove the protection label on the front of the Product. The protection label is intended to avoid unforeseen UV radiation. Make a visual inspection of the unit.

Do not power on the unit until installed by a qualified installer!



CAUTION: Do not touch the glass of the lamp without gloves. Doing so may result in damage to the lamp. Oil from fingerprints will permanently etch the glass of the lamp and weaken the structure.

6.3. Product installation

The unit must be attached to a surface by means of at least 4 mounting pins, near electrical wires with grounding.

The mounting pins and surface must be strong enough to hold 4 times the weight of the unit.

7. PRODUCT FAILURE

FAILURE	TO DO
Unit does not light up	Check incoming power. Check cable damage. Check if the Product is correctly installed.
Unit flickers	Check if the Product is correctly installed. If not, contact your local distributor.
White flash	Power cycle the unit.

If the failure is unsolved or recurring, please return the unit to an official UV Medico dealer/ service centre for repair or replacement (see point **10. REPAIRS**).

8. CLEANING AND MAINTENANCE

Clean the external surfaces with a soft cloth and non-aggressive cleaning agents only.

Before performing any maintenance always unplug the Product and disconnect the power supply.



CAUTION: Turn off and lock out ALL unit power before performing any cleaning. Do not wash the Product by immersion.

9. LIGHT SOURCE REPLACEMENT

UV Medico A/S recommends replacing the Far UV-C light source when LED signals red-blue-green (loop).

Contact your supplier/installer for replacement. The unit has no user-serviceable parts.

10. REPAIRS

If the Product is damaged, malfunctions, or for other specific inquiries, please contact your authorised UV Medico distributor.

11. RECYCLING & DISPOSAL

Our products can be disassembled into separate materials of four recycling categories for minimal waste: metal, plastic, electronics, and light bulbs.

If you have any problems to dispose of our products at the end of life, you are welcome to send them back to us for recycling and disposal according to local regulations.

Warranty

2-year warranty is given from invoice date regardless on the hours the unit is used.

NOTES:

UV222™ and its logo are registered trademarks of UV Medico A/S. All rights reserved. No part of this manual may be copied or published by means of printing, photocopying, microfilm or otherwise without the prior written consent of the manufacturer. This restriction also applies to the corresponding drawings.

The information given in this manual has been collected for the general convenience of our customers. It has been based on general data pertaining to construction material properties and working methods known to us at the time of issue of the manual and is therefore subject at any time to change or amendment, and the right to change or amend is hereby expressly reserved. The instructions in this manual only serve as a guideline for installation, use, maintenance and repair of the Product mentioned on the cover page of this document. This manual is to be used for the standard model of the Product of the type given on the cover page. Thus, the manufacturer cannot be held responsible for any damage resulting from the application of this manual to any other product.

This manual has been written with great care. However, the manufacturer cannot be held responsible, either for any errors occurring in this manual or their consequences.



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