



UVGERMI
ULTRAVIOLETS DE HAUTE TECHNOLOGIE

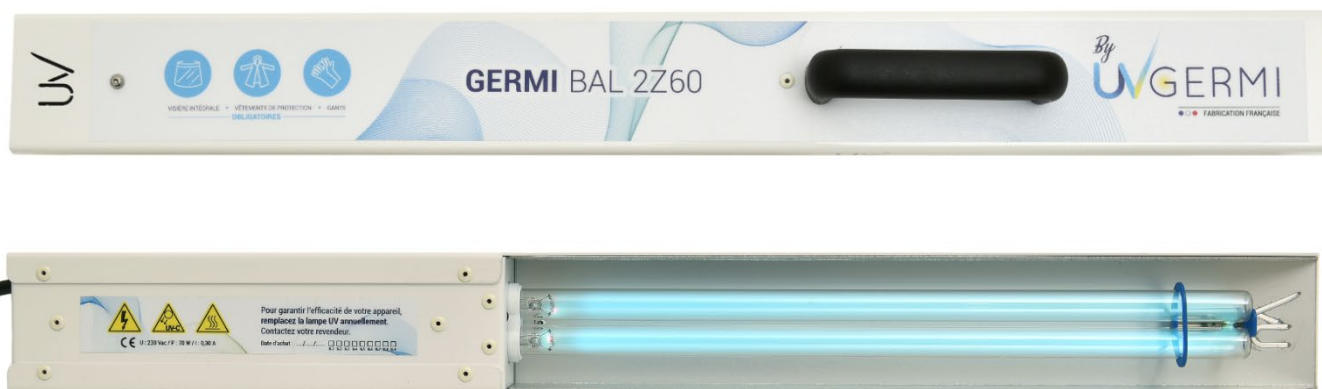
*The specialist in microbiological surface
treatment using ultraviolet light.*



MADE IN France

UVGERMI BAL 2Z60 PORTABLE LAMP

INSTRUCTIONS DE SERVICE



MANUFACTURER: UVGERMI Z.A. de la Nau 19240 Saint Viance - France
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1. SAFETY INSTRUCTIONS

In this notice, the paragraphs relating to safety that should be the subject of great attention on your part are materialized by the symbol **DANGER** or the words **CAUTION!** and **Warning** :



Warning of a risk of serious bodily accidents.

ATTENTION !

A risk that could cause damage or malfunction of the appliance.

Warning

Important information about regulations or regulations to be complied with.

Eyes and skin exposed to direct or indirect UV rays, even for short periods of time, can suffer significant damage. Always turn off UV lamps during various maintenance operations. If you need to control UV lamps while in operation, wear a full-face protective mask and protective gloves.



Before use, put on all the personal protective equipment necessary for the use of a partially open UVc light source.



The operator using the UV lamper should not have any part of the body uncovered in order to avoid exposure of the eyes and skin to UVc radiation.



The eyes and face must be protected by a full-face visor in accordance with EN 166 – 2C 1.2 (Protection against UV radiation).

Hands must be protected by gloves according to EN 407 (contact heat resistance level 1). The operator must wear clothing with long sleeves.



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The GERMI BAL 2Z60 UV hand lamp should only be used for the purpose for which it is intended.

2. AREA OF USE

The GERMI BAL 2Z60 is a portable device dedicated to the decontamination of dry and inert surfaces.

3. CONCEPTION

3.1 Structure

The device is made of anodized aluminum.

The power-on box is integrated into the device.

3.2 Lamp

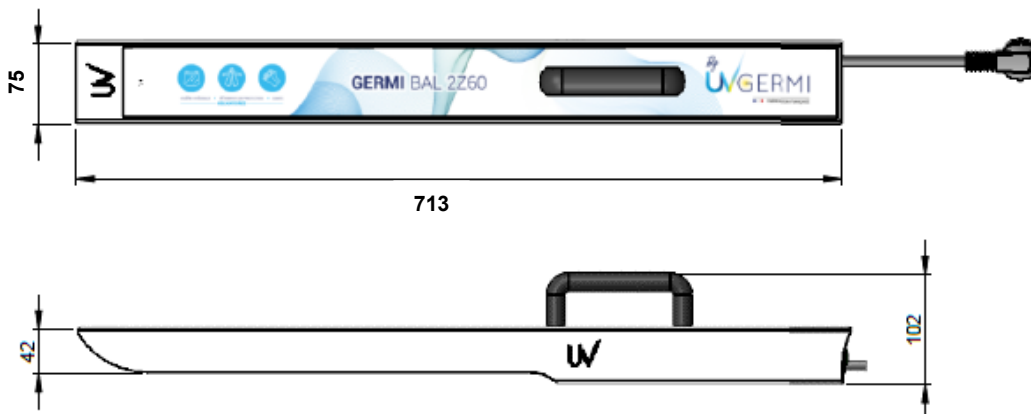
Electric power: 60 W

Germicidal power: 19 W

Lamp life: 1 year

4. GENERAL DESCRIPTION

4.1 Overview and dimensions



The overall dimensions of the device are as follows:

- Length: 705 mm
- Width: 72 mm
- Height: 48 mm

Device weight: 940 g

4.2 UV Lamp Type

- UVGERMI ref: 14000134;
- Connectors: 4 pins – ceramic;
- UV emitter with low-pressure mercury vapor (non-ozone generating);
- UV lamp life: 1 year;
- Luminous flux loss at 254 nm: 20% at 9000 hours.

4.3 Technical characteristics

ELECTRICAL POWER:

- Power supply: 230V single-phase, 0.3A, 50Hz;
- Maximum power: 69 W.

LIGHTING THE LAMP:

- Switch with indicator light activated when the lamp is powered on.

5. ELECTRICAL CONNECTION

The decontamination lamper has a power cable with a 230 V single-phase socket (2 poles + ground).

The device therefore connects like a conventional household appliance.

The line to which the outlet is connected must be protected by a 16A 30 mA RCD.

6. OPERATION

Step 1 :



Before use, put on all the personal protective equipment necessary for the use of a partially open UVc light source.



The operator using the UV lamper should not have any part of the body uncovered in order to avoid exposure of the eyes and skin to UVc radiation.



The eyes and face must be protected by a full-face visor in accordance with EN 166 – 2C 1.2 (Protection against UV radiation).

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Step 2: Point the hand lamp parallel to the surface to be decontaminated, with the lamp side pointing towards the surface.

Step 3: Plug in and turn on the device

Step 4: Hold the device in front of the surface section to be decontaminated, respecting the required exposure times. These times depend on the distance between the lamp and the surface and the desired rate of abatement. Only the part of the surface on which UV rays are visible is treated.

For example, the table below gives the exposure times to be respected in order to eliminate the **Corona virus SARS (a strain that appeared in Asia in 2002)** for different distances to the surface and several levels of abatement. These times were determined from the information available in the bibliography.

Desired level of abatement	Dose UVc (mJ/cm ²)	Exposure duration(s)			
		Lamp against the surface	Lamp 5 cm from the surface	Lamp 10 cm from the surface	Lamp 20 cm from the surface
90 %	24	2	4	7	12
99 %	48	3	8	14	24
99.9 %	72	5	12	21	36

Desired level of abatement	Dose UVc (mJ/cm ²)	Exposure duration(s)			
		Lamp at 40 cm from the surface (1)	Lamp 50 cm from the surface (1)	Lamp 75 cm from the surface (2)	Lamp 100 cm from the surface (2)
90 %	24	30	40	100	150
99 %	48	60	80	200	300
99.9 %	72	90	120	300	450

(1): with a maximum beam width of 30 cm

(2): with a maximum beam width of 40 cm

Step 5: Shift the lamp to another part of the surface to be treated and repeat step 4 until you cover the entire surface.

7. PREVENTIVE AND CORRECTIVE MAINTENANCE



The appliance must be turned off before performing any maintenance work.



7.1 MAINTENANCE PREVENTIVE

Radiation losses occur when deposits appear on the UV lamp. These deposits can be created by the presence of dust or by handling the lamp without protective gloves.

To keep the lamp clean, it is recommended to clean it regularly with a soft cloth slightly soaked in alcohol.

7.2 CORRECTIVE MAINTENANCE: UV lamp replacement

Loss of efficiency occurs when the UV lamp is at the end of its life, after one year of operation. You need to change the lamp even if it is still working.

Lamp replacement

<div data-bbox="515 571 643 680" data-label="Image"> </div> <div data-bbox="652 571 928 676" data-label="Text"> <p>ATTENTION !! Avant toute intervention sur l'appareil, veillez à ce qu'il soit hors tension BE CAREFULL !! Before any intervention on the steriliser disconnect it from the main power supply</p> </div> <div data-bbox="948 571 1075 680" data-label="Image"> </div> <div data-bbox="549 734 1043 779" data-label="Text"> <p>Ne pas mettre les doigts sur le quartz de lampe, utilisez les gants fournis avec l'appareil.</p> </div>	<div data-bbox="287 907 663 949" data-label="Text"> <p>1 - Unscrew the lamp holder</p> </div> <div data-bbox="868 873 1292 1079" data-label="Image"> </div>
<div data-bbox="287 1198 622 1238" data-label="Text"> <p>2 - Disconnect the lamp</p> </div> <div data-bbox="868 1164 1292 1370" data-label="Image"> </div>	<div data-bbox="287 1489 734 1532" data-label="Text"> <p>3 - Remove the lamp holder and</p> </div> <div data-bbox="868 1456 1292 1697" data-label="Image"> </div>
<div data-bbox="287 1769 722 1843" data-label="Text"> <p>4 - The lamp must be taken to a recycling bin</p> </div> <div data-bbox="798 1747 1292 1993" data-label="Image"> </div>	

Warning

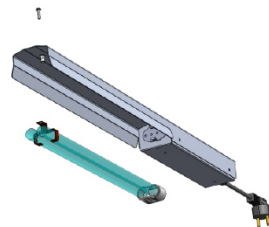
When replacing the UV lamp, be careful not to put your fingers on it. Cleaning the UV lamp with alcohol will remove any traces of perspiration from the fingers.

Note : A defective UV lamp must be disposed of in accordance with the regulations in force. It should not be disposed of at the same time as domestic or industrial waste (the UV lamp contains mercury content).

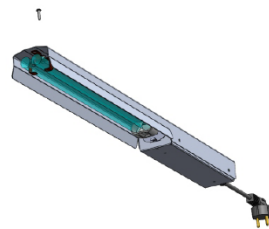
UVGERMI has a recycling channel and we accept to receive your used lamps in appropriate packaging and on which the defective nature of the lamps is indicated.

Lamp reassembly

1 - Place the holder on the lamp

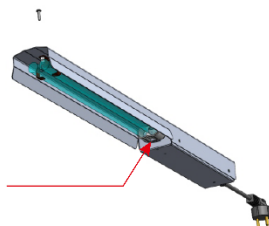


2 - Place the lamp on the connector

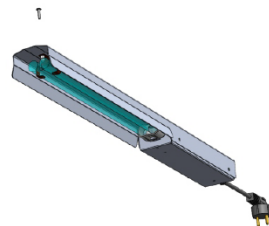


3 - Slide the lamp toward the connector and connect the lamp

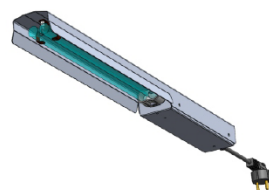
Lamp connector



4 - Secure the lamp retaining piece



5 - The device is ready to operate



8. OPERATIONAL INCIDENTS



The appliance must be de-energized before performing maintenance work.

FAILURE	POSSIBLE CAUSES	SOLUTIONS
The lamp does not turn on	1- The lamp is not powered.	1- Check the electrical connection to the mains
	2- The lamp is poorly connected.	2- Unplug/reconnect the lamp connector.
	3- The lamp is out of order	3- Replace the UV lamp. (See chapter "Replacing the UV lamp").
	4- Other.	4- Contact UVGERMI Service

9. SPARE PARTS LIST

Parts List	Quantity	UVGERMI Reference
60 W lamp	1	14000134

10. GUARANTEE

The warranty of the BAL 2Z60 UV hand lamp is exercised under the following conditions:

Outer Envelope:

- 5 years (materials) except in cases of use in a very corrosive environment or environment.

Warranty exclusions :

- Damage caused by handling after transport and delivery, an operator or another third party not affiliated with UVGERMI;
- Failure to comply with use and maintenance instructions;

Electrical:

- 2 years for all electrical components except the UV lamp (< 9000 h).

Warranty exclusions :

- Electrical components are not guaranteed against power surges and lightning strikes;
- Modifications and additions of components;
- Use of spare parts that are not of UVGERMI origin;
- Failure to comply with operating and maintenance instructions;

Warning

In the event of the use of parts other than those recommended by UVGERMI, in particular for consumables such as UV lamps, the performance of the device can no longer be guaranteed.

UV lamps are not guaranteed against breakage.

Defective parts must be returned, specifying the type and serial number of the device, to UVGERMI who will proceed with an exchange after technical expertise.

- The shipping costs will be shared between the dealer and UVGERMI.
- The warranty takes effect on the date of invoice.
- In the event of non-compliance with the instructions for use, UVGERMI cannot be held liable and the guarantees cannot be implemented

11. RECYCLING

A defective UV lamp must be disposed of in accordance with the applicable regulations. It should not be disposed of at the same time as domestic or industrial waste (the UV lamp contains mercury content).

You can return it to the manufacturer (or seller) or drop it off at a recycling centre.

Our devices are built to last, but when they are considered out of service, they can be dismantled and their components recycled.

For the take-back of this professional electrical and electronic equipment at the end of its life, please comply with the local regulations in force.





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