



***Sustainably Enhancing Indoor Environments***



# **USER MANUAL**



**PURIZONE**

**ENGLISH | ESPAÑOL | DEUTSCH | FRANÇAISE**

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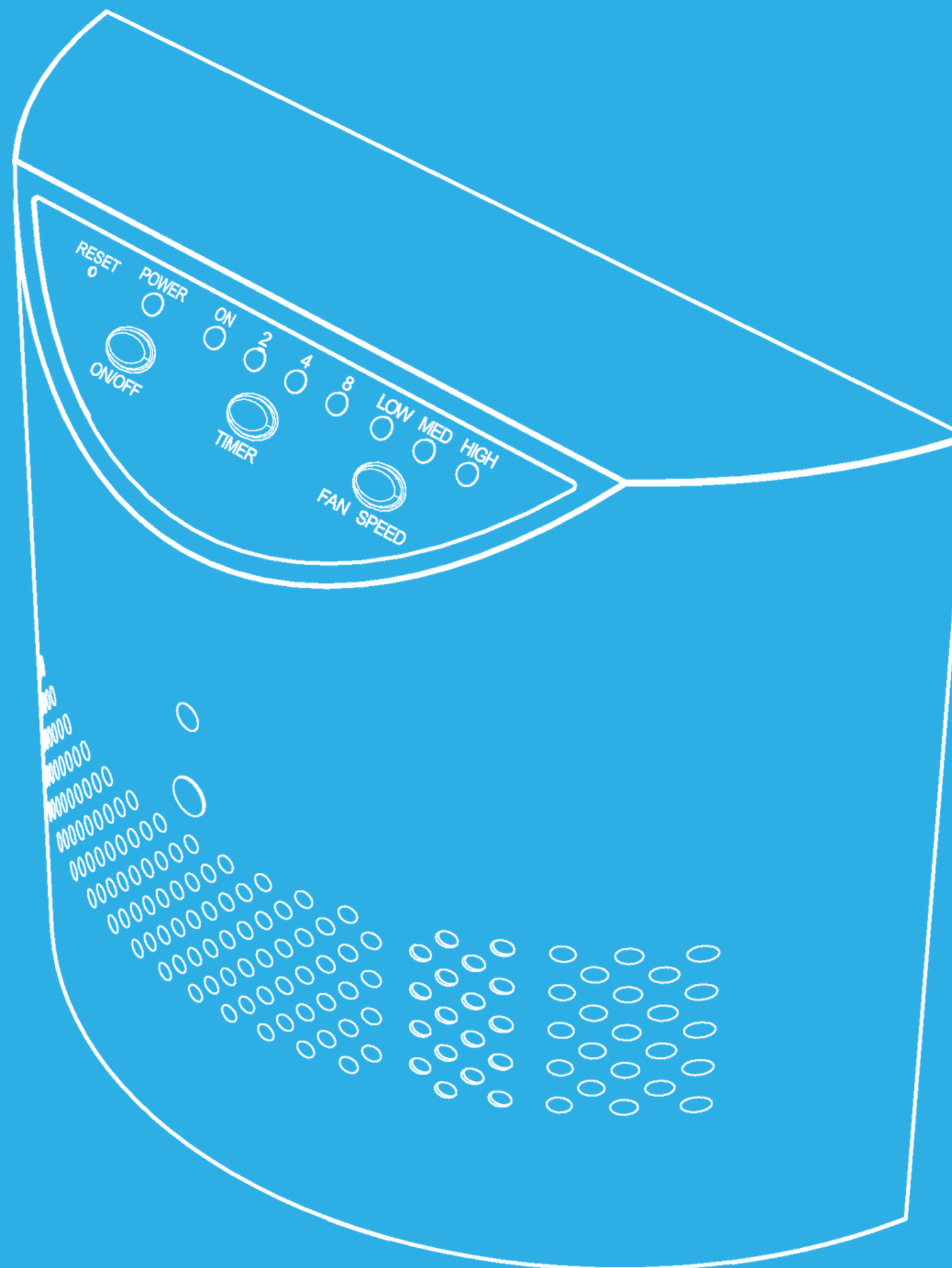
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# 01. INTRODUCTION

This user manual is produced to facilitate the safe and trouble-free operation of the Biozone Scientific (BSG) PURIZONE. **The product is designed and manufactured in strict adherence to technical standards, incorporating cutting-edge technologies and quality components. Moreover, it is produced in complete compliance with the most rigorous quality standards.**

To enhance the product's lifespan and ensure a safe and effective operation, you must follow the instructions outlined in this user manual and perform regular maintenance tasks. The technical data and specifications provided in this user manual are current, but it's important to note that the manufacturer retains the right to implement any necessary changes.

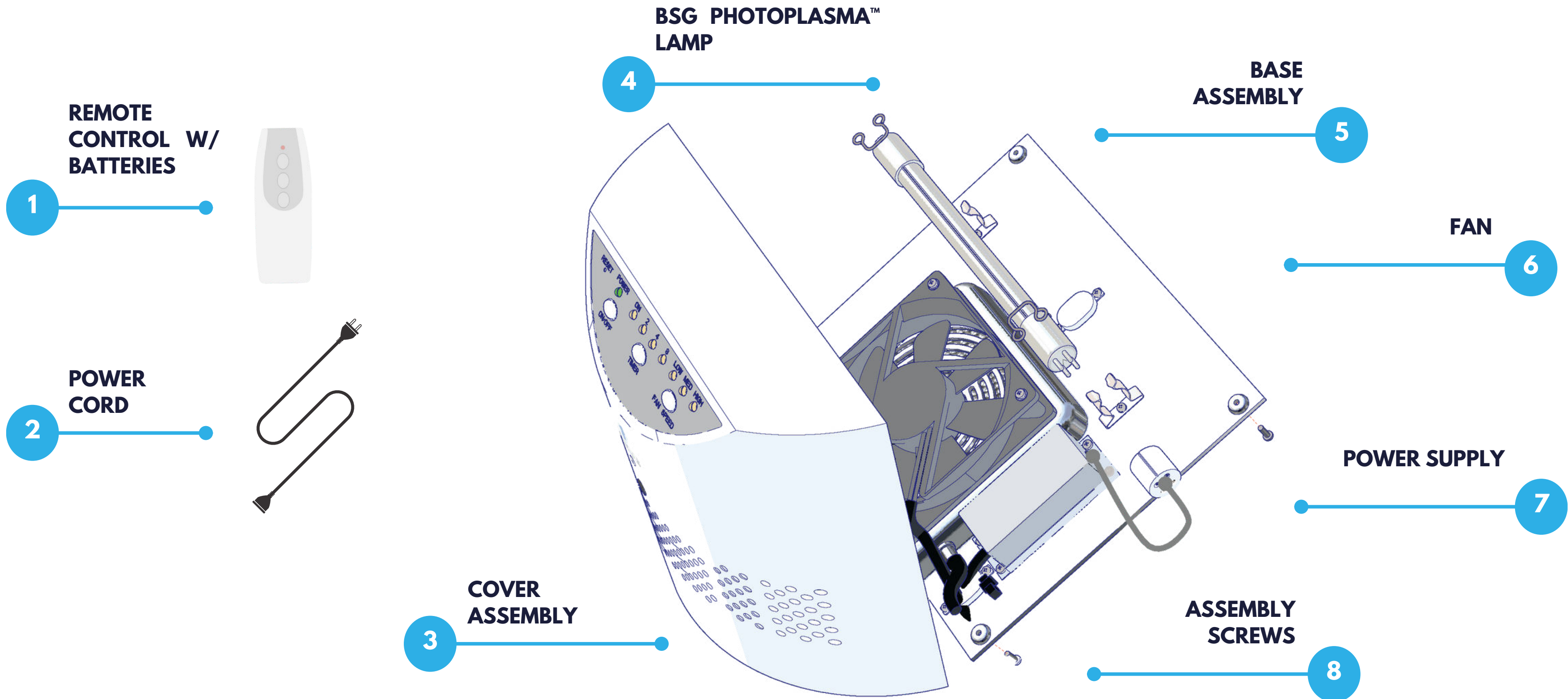


**CAUTION: DO NOT USE THE DEVICE UNLESS YOU HAVE THOROUGHLY READ AND UNDERSTOOD THIS USER MANUAL.**



**PLEASE NOTE:** The drawings in this manual are for illustration purposes only and may not perfectly match the actual product. The original operation manual is in English, and other languages are translated versions from the English original.

# 02. INCLUDED PARTS LIST





# 03. DEVICE DESCRIPTION

The PURIZONE® is completed portable and can be used in any **occupied space subject to sizing guidelines** for odour control, cleaning and freshening the air.

The BSG PURIZONE® is the result of the extensive research and sustained product developments. BSG has more than a decade of experience in designing and manufacturing its products.

The PURIZONE® is highly effective and safe to use and fully complies with the criteria of the world's most respected certification bodies. Certificates issued to this effect are listed in section 09, Warranty and Certifications section of this manual.

Every PURIZONE® unit has undergone a strict quality/control regime. However, if the unit malfunctions, follow the instructions in the Troubleshooting section of this manual. If the problem persists, please contact your local distributor.

BSG products are designed to be user-friendly with a high degree of functionality, ease of operation and simple installation. User feedback is important for the continuous development of our products. We value your opinion and greatly appreciate your feedback, which you can send to: [info@bsg-uv.com](mailto:info@bsg-uv.com)



For more information, visit our home page at: <https://bsg-uv.com/> and discover:

- BSG solutions for other applications such as garbage rooms, ice-machines etc.
- Contact information for importers and distributors



# 04. BSG TECHNOLOGY - PHOTOPLASMA™

The PURIZONE is an excellent tool designed to eliminate unpleasant odours at their source whilst cleaning and freshening the air.

When properly used, the PURIZONE significantly reduces bacteria and other harmful micro-organisms in the air and on surfaces. The Mini Powerzone® does not just mask odour with chemicals or perfumes; it actually destroys the odours leaving a cleaner, more pleasant environment.

BSG's advanced Photoplasma™ technology is designed to sustainably enhance indoor environments. It goes beyond conventional cleaning methods by harnessing combination of negative ions, hydroxyl radicals, singlet oxygen, ultraviolet light and ozone.

The elements of Photoplasma™ quickly and actively break down the structure of contaminants by a chain of reactions. Eventually the contaminants are decomposed and converted to harmless molecules such as carbon dioxide and water vapour.

In essence, BSG's Photoplasma™ advanced technology brings the holistic benefits of the outdoors, where nature's cleansing mechanisms thrive, directly into our indoor spaces. It ensures a sustainably enhanced, healthier, and more refreshing living environment.



# 05. INSTALLATION

To ensure the safety of the user, people in the area, and/or animals; follow these instructions carefully and observe all warnings.

## **BEFORE USE**

Inspect the device for damage that may have occurred during transportation. If the unit was damaged, do not connect it to the power supply. In the event of damage, immediately inform the supplier where the unit was purchased.



**The PURIZONE unit must be connected with the included adaptor.**

# 06. DEVICE USE

## OPERATION FEATURES

- Photoplasma™ lamp life monitor
- 4-level time selection
- 3-level fan speed
- Portable infrared remote controller (range up to 19 feet / 6 meters)

## POWER AND “LAMP LIFE” RESET

1. The ON/OFF button switches the device:
  - ON - Standard mode (Unit power on, light indicators on)
  - ON - Night mode (Unit power on, power indicator LED intermittently flashes green)
  - OFF (Unit power off)

2. The Power light shows whether the device is powered and operating normally and also indicates when the accumulated lamp life reaches 9,000 hours (1 year) and needs replacement. The Power LED has the following modes:

**STEADY GREEN: NORMAL OPERATION**



**GREEN FLASH: NIGHT MODE**



**STEADY RED: REPLACE LAMP**



**FLASHING RED: CONTACT BSG FOR SERVICE**



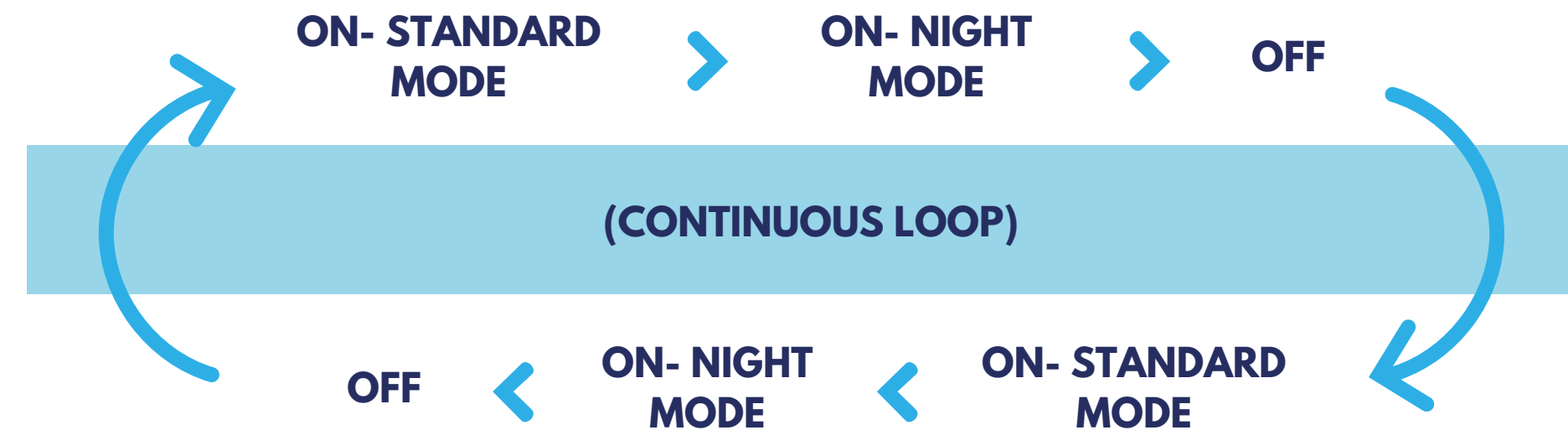
3. Whenever a new Photoplasma™ lamp is installed, the “Lamp Life” RESET button MUST be pressed to reset the timer within the microcontroller. The timer will only register lamp life while the unit is powered on.

# 06. DEVICE USE

A. When the new Photoplasma™ lamp is installed correctly and “Lamp Life” RESET is pressed, the power light will flash 2 times in red colour then turn to green colour and begin to operate normally.

B. If the red light keeps flashing, it indicates that the “Lamp Life” RESET button has not been pressed. Re-install the Photoplasma™ lamp and press the “Lamp Life” RESET button until the Power light turns to green colour.

4. The ON/OFF button controls the cycle of the operation. The control sequence is in the following manner:



## TIMER

1. The timer light indicates the four preset timer options (ON, 2, 4 and 8 hours). When the indicator light is in the ON setting, the unit will operate continuously until it is turned off by the user. (Switching ON the unit with “2” hours preselected accesses a test mode and the unit will turn off after 2 minutes.)

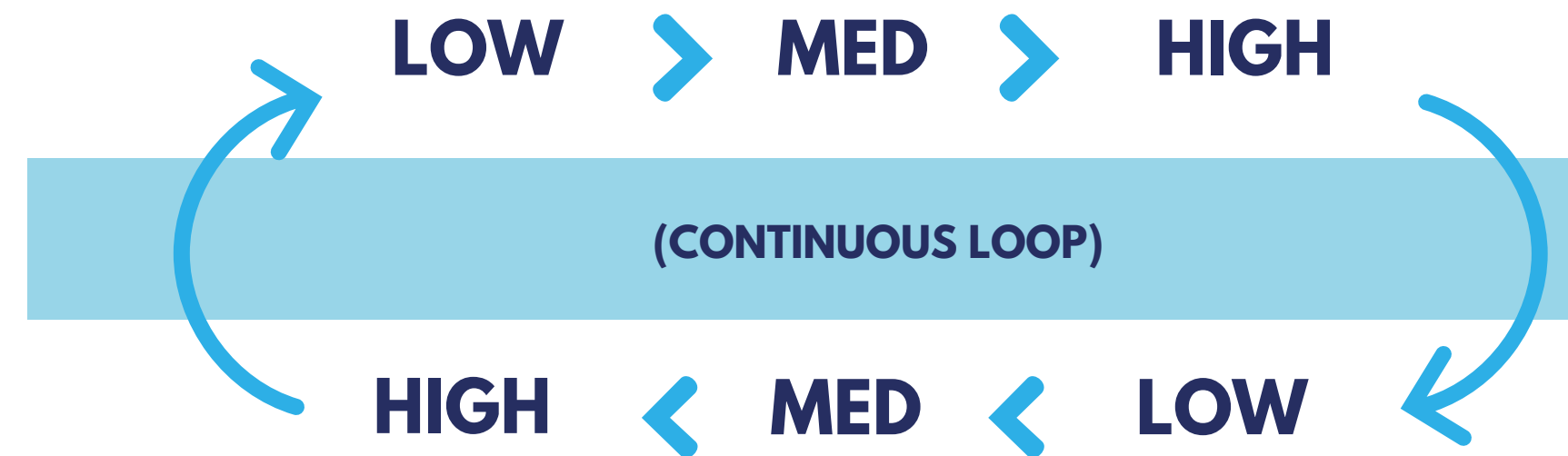
# 06. DEVICE USE

2. The TIMER button sets the operating period. Once the preset time is reached, the unit will turn off automatically. The control sequence is in the following manner:



## FAN SPEED

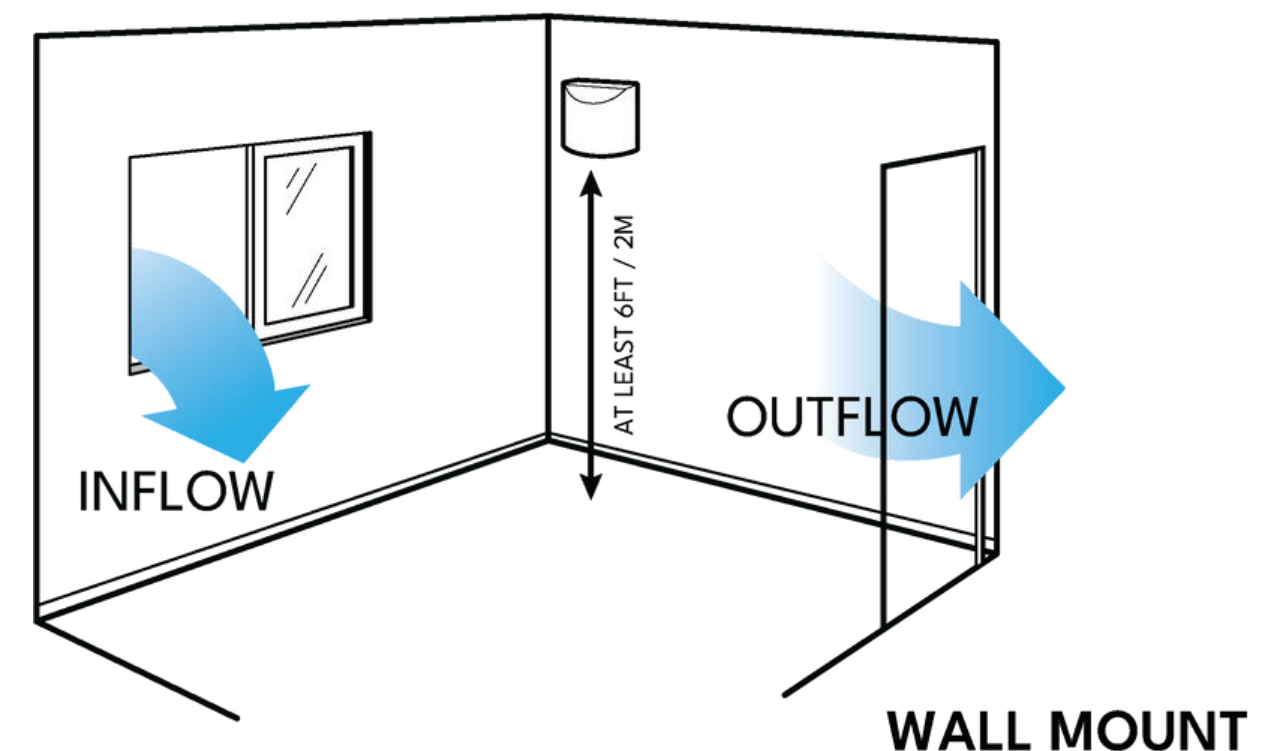
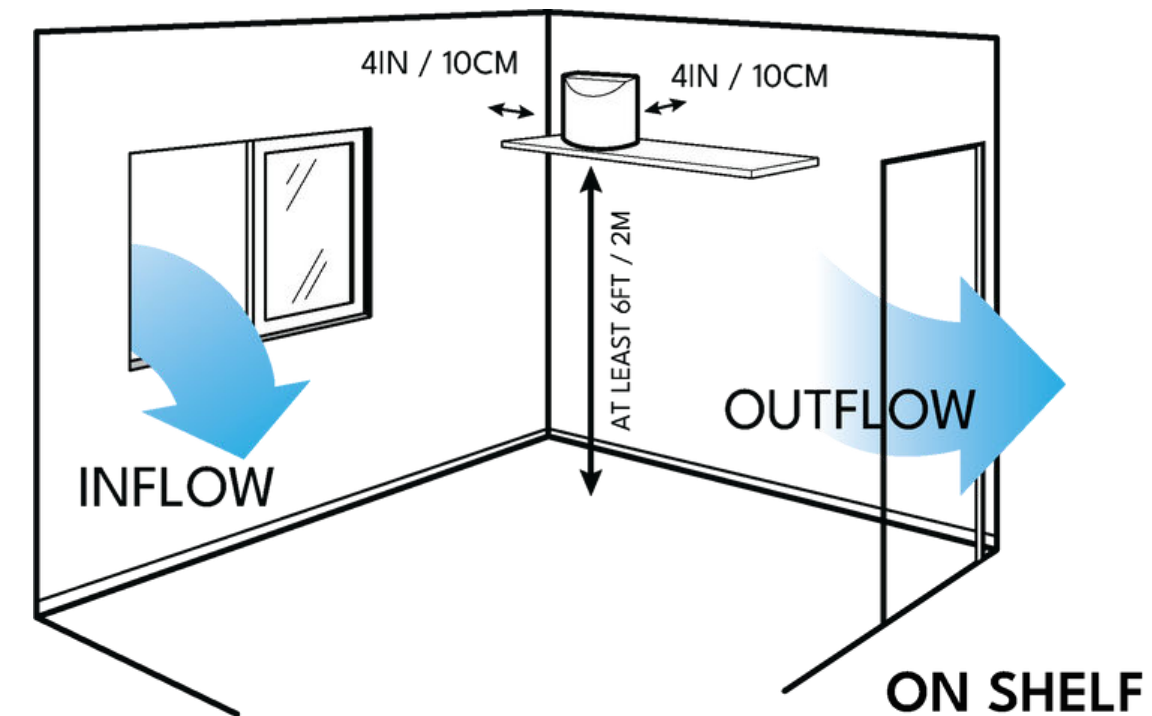
1. The FAN SPEED button controls the fan speed which in turn controls the flow of Photoplasma™. The control sequence is in the following manner:



# 06. DEVICE USE

## OPTIMUM RESULTS CAN BE ACHIEVED IF YOU:

- Place your unit as high as possible.
- Place your unit near an air duct or fan for maximum circulation.
- Place your unit in a heavy traffic or odorous area, i.e., kitchen, utility room, near litter tray/box, anywhere with smoke or odour sources, etc.
- Do not place your unit directly in the face of a person or pet.
- Do not place your unit so airflow to the fan is blocked.
- Do not place your unit on a metal surface.





# 07. LAMP CLEANING AND REPLACEMENT



**ATTENTION:** Avoid touching the glass portion of the lamps with bare fingers. Use gloves or a cloth to handle the lamps. If the glass is touched, use isopropyl alcohol to wipe the glass surface clean.

1. Disconnect the power supply from the device.
2. Allow 10 minutes for the lamps to cool.
3. Unscrew the back panel of the unit. The Photoplasma™ lamp is mounted on this panel.
4. Unplug the lamp connector from the lamp.
5. Remove the lamp from the lamp clips.
6. Wipe the lamps with alcohol to clean the glass surface.
7. Place the cleaned lamp or new lamp into the lamp clips.
8. Connect the lamp connector observing the correct orientation of the pins.
9. Ensure that the lamp connector wires do not interfere with the back panel closing.
10. Close and screw the back panel in place.
11. Press the “Lamp Life” RESET button and then turn the unit on. (Power LED will return to green colour indicating normal operation.)

Disposing of the lamps according to local hazardous waste disposal laws. The lamps are disposed of at the same facilities as household fluorescent bulbs or compact fluorescent lamp bulbs. The lamps contain mercury.

## Replacement Parts

Contact your sales representative for replacement of lamps and other components. Use of parts other than those supplied by the original manufacturer will void warranty.

- Lamp for model PR05: BSG Photoplasma™ Lamp #10-08010
- Lamp for model PR10: BSG Photoplasma™ Lamp #10-08025
- Lamp for model PR20: BSG Photoplasma™ Lamp #10-08050
- Lamp for model PR30: BSG Photoplasma™ Lamp #10-08100



# 08. TROUBLESHOOTING



**ATTENTION:** Servicing the PURIZONE requires a qualified maintenance professional. Disconnect power before cleaning or servicing the PURIZONE.

ISSUE	CHECK
Lamp not lit BUT fan works	<ul style="list-style-type: none"><li>• Open the PURIZONE cover and check that the lamp connectors are properly installed.</li><li>• Replace lamp.</li></ul>
Lamp not lit AND fan not working	<ul style="list-style-type: none"><li>• Power supply plugged in.</li><li>• Center lock switch turned on.</li><li>• Power outlet is working.</li><li>• Power cord is undamaged.</li></ul>
Weak airflow	<ul style="list-style-type: none"><li>• Vent end caps are clean.</li></ul>

**If the PURIZONE unit does not function after checking these items, please contact your supplier.**

# 09. WARRANTY AND CERTIFICATIONS

## WARRANTY

BSG provides a standard 1-year warranty on its products. Warranty coverage starts from the date of purchase.

## WARRANTY CONDITIONS

- The appliance is guaranteed against defects in material and workmanship under normal use and appropriate voltage for one year from the purchase date.
- Warranty does not apply to any appliance that has been tampered with, altered, subjected to misuse, abnormal voltage input, power interruption, electric shock, negligence, accident, force majeure, or if the serial number has been altered, effaced, or removed.
- Failures due to improper or unreasonable usage, maintenance, accident, improper packing, unauthorised tampering, alteration, or modification will not be covered under warranty as determined by BSG.
- Any unsanctioned repairs of the interior or exterior finish of the casing, control plate, knobs, accessories, or consumable parts will void warranty.
- Replacement lamps are excluded from warranty coverage; BSG Photoplasma™ lamps are covered by a 1-year prorated warranty.
- Any repairs or replacements of defective parts by BSG will be covered under warranty.
- Transportation or shipping costs to or from the repair facilities are not covered under warranty.
- Warranty is valid only when using BSG replacement lamps and parts.
- BSG engineers will determine whether the product will be repaired or replaced at their sole discretion.

# 09. WARRANTY AND CERTIFICATIONS

## WARRANTY

Please note that this warranty supersedes any other written warranty, whether expressed or implied, written or oral, including a warranty of merchantability or fitness for a particular purpose. The manufacturer's maximum liability shall not exceed the actual purchase price paid for the product. Additionally, the warranty will be considered void if the label bearing the serial number has been removed or defaced.

## WARRANTY RETURN PROCESS

1. Contact your supplier for specific return instructions and to receive your RMA (Return to Manufacturer Authorisation) number. Any return not labelled with an RMA number will be systematically refused.
2. Pack the product in its original box and in the same manner you received it or as similar as possible. Label the outside of the box with your RMA number.

3. Return the product with proof of purchase. Any return not including a proof of purchase will be systematically refused.
4. Label and ship the unit, freight prepaid to the address provided with your RMA number.

## CERTIFICATIONS



# 10. FAQs

## Q1. CAN THE PURIZONE UNIT BE MOUNTED ON A WALL?

A1: There are holes in the back of the unit for mounting.

## Q2. WHAT SIZED SPACE CAN THE PURIZONE BE USED IN?

A2: The suitability of the PURIZONE for different room sizes is determined by various factors, such as the BSG Photoplasma™ output, airflow, number of odour sources, and more. Sizing information is available on the <https://bsg-uv.com> website and in the datasheet.

## Q3. CAN THE PURIZONE UNIT BE USED IN A PERMANENTLY OCCUPIED SPACE?

A3: Yes, as the unit has various settings and can be switched on and off, usage of the device is fully controlled by the user. In addition, the levels of Ozone produced by the lamp are below the specified EU Regulations (Article EH40: Workplace Exposure Limits).

## Q4. HOW DO I KNOW WHEN TO REPLACE THE LAMP?

A4: The Photoplasma™ lamp installed in the PURIZONE unit has a life span of 9000hrs. As the PURIZONE unit can be turned on & off / used as required, the replacement period for the lamp should be calculated by determining the average time the unit is used per day.

Care Home Example –

- if the PR Unit is switched on during the period that the reception team are in the office, calculate the average for the year = 12 hours per day x 365 days = 4,380 hrs
- It can be estimated that the lamp should be replaced after 2 years

# 11. SAFETY GUIDELINES

## CONDITIONS OF USE

### USAGE SAFETY



**CAUTION:** Carefully read all safety warnings and instructions. Failing to adhere to these warnings and instructions may result in severe injury or, in extreme cases, even death.

In the following safety warnings and instructions, the terms "device" or "product" refer to the **PURIZONE**.

### ELECTRICAL SAFETY

- Ensure the plug fits the socket. Using original plugs with matching sockets reduces the risk of electric shock.
- Refrain locating device such that it is touching grounded elements such as pipes, heaters, boilers, and refrigerators. There is a higher risk of electric shock if the grounded device is exposed to rain, comes into direct contact with a wet surface, or operates in a moist environment. Water getting into the device drastically increases the risk of device damage and electric shock.
- Do not touch the device with wet or damp hands.
- Use the cable solely for its intended purpose. Never use it to transport the device or to forcibly extract the plug from a socket. Ensure the cable remains clear of heat sources, oil, sharp objects, or moving components.
- Compromised or tangled cables heighten the potential for electric shock.

- If you find yourself using the device in a damp environment as an unavoidable necessity, it is advisable to incorporate a residual current device (RCD). The use of an RCD significantly diminishes the risk of electric shock.
- Do not operate the device if the power cord exhibits damage or displays signs of wear. A deteriorated power cord should be replaced by a qualified electrician.
- To prevent the risk of electric shock, avoid submerging the cord, plug, or the device itself in water or any other liquids. Likewise, do not use the device on wet surfaces.
- Take precautions to shield the device from moisture, as exposure may lead to an elevated risk of electric shock.

### SAFETY IN THE WORKPLACE

- Ensure that your workspace is clean and well-lit. A cluttered or poorly lit workspace can increase the risk of accidents. Exercise foresight, pay attention to ongoing activities, and apply common sense when operating the device.
- If you come across any damage or irregular operation, promptly turn off the device and report the issue to a supervisor without delay.
- If there are any uncertainties regarding the correct operation of the device, contact the manufacturer's support service for guidance.
- Only the manufacturer's authorised service point should undertake repairs on the device. Do not attempt any repairs on your own.
- In the event of a fire, use a powder or carbon dioxide (CO<sub>2</sub>) fire extinguisher designed for use on live electrical devices to extinguish it.



# 11. SAFETY GUIDELINES

- Please retain this manual's QR code for future reference. If you transfer the device to a third party, ensure the QR code is passed on along with it.
- Keep the device out of reach of children and animals.

## PERSONAL SAFETY

- Do not operate the device when tired, unwell, or under the influence of alcohol, narcotics, or medications that could significantly impair your ability to use the device safely.
- The device is not intended for use by individuals, including children, with limited cognitive and sensory capabilities, or by those lacking relevant experience and knowledge, unless they are under the supervision of someone responsible for their safety or have received proper instruction on device operation.
- Only physically fit individuals, who have received appropriate training, are familiar with this manual, and have been educated in occupational health and safety, should handle the device.
- While working with the device, exercise common sense and remain vigilant. Lapses in concentration during device operation can result in injury.
- To prevent accidental activation of the device, ensure that the switch is set to the OFF position before connecting it to a power source.
- The device is not a toy. Children must be supervised to prevent them from engaging in play with the device.

## USE GUIDELINES

The device is designed to purify the air and remove odours. The user is liable for any damage resulting from unintended use of the device.

## SAFE DEVICE USE

- Do not use the device if the ON/OFF button or timer malfunctions.
- Ensure the plug is disconnected from the socket before making any adjustments, replacing consumables, or setting the device aside. These precautions minimize the risk of unintentionally activating the device.
- When not in use, store the device in a secure location, away from children and individuals who are unfamiliar with the device and have not read the user manual. Inexperienced users can pose a safety risk when handling the device.
- Maintain the device in good condition. Before each use, inspect it for any general damage, with particular attention to cracked parts or elements, as well as any other issues that might affect safe operation. If damage is detected, send the device for repair before using it.
- Keep the device out of reach of children.
- Device repairs or maintenance should only be carried out by qualified individuals using original spare parts to ensure safe usage.
- To preserve the device's operational integrity, avoid removing factory-fitted guards and refrain from loosening any screws.
- When transporting and handling the device from the warehouse or storage to the destination of use, adhere to the occupational health and safety guidelines applicable in the country where the device will be used.

# 11. SAFETY GUIDELINES

## SAFE DEVICE USE

- Do not move, adjust, or rotate the device while in operation.
- Regularly clean the device to prevent the buildup of stubborn grime.
- Avoid obstructing the air intake and outlet.
- The device is not a toy, and children should not perform cleaning and maintenance tasks without supervision from an adult.
- If any treated room has a suspected Photoplasma™ level higher than normal level, leave the room and wait 20 minutes.
- It is prohibited to modify the device's structure to alter its parameters or construction.
- Keep the device away from sources of fire and heat.
- Do not overload the device.
- Avoid covering the ventilation openings.
- Individuals with impaired sense of smell should refrain from using the device.
- Before turning on the device, ensure there is sufficient open space around it.
- Under no circumstances should you directly inhale Photoplasma™ emitted from the device's outlet. Inhaling high concentrations of Photoplasma™ over a short period or low concentrations of Photoplasma™ over an extended duration may pose serious health risks or even be life-threatening.
- Do not use the equipment for therapeutic purposes.
- Do not look at Photoplasma™ lamps when lit; UV light may damage eyes.
- Avoid operating the device on a metal surface.



**ATTENTION! Despite the safe design of the device and its protective features, and despite the use of additional elements protecting the operator, there is still a minor risk of accident or injury when using the device. Stay alert and use common sense when using the device.**