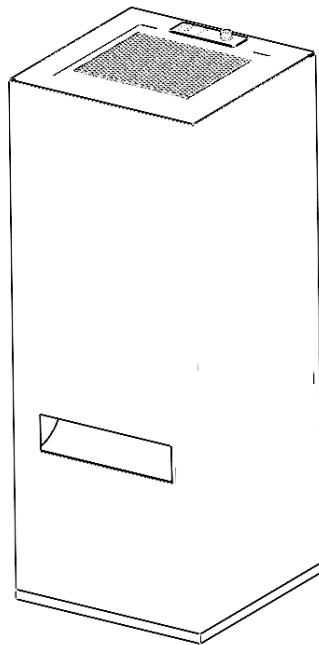




BONACAELI

## **AirVSAFE P1000 Operation and User Manual**



With Silver-Stabilised H<sub>2</sub>O<sub>2</sub> air wash, Pre-Filter and UV-C lamps

**PLEASE READ THESE INSTRUCTIONS CAREFULLY AND RETAIN  
FOR FUTURE REFERENCE**

## DISCLAIMER STATEMENT

This AirVSAFE unit has been designed and tested using the latest up-to-date scientific discoveries and research base on virus management. The AirVSAFE unit's functionality is designed to generate a sanitised, safer airborne environment to help owners and users manage and reduce virus (including COVID) infection risks in their venues. Owners and users are responsible for correct operation of the AirVSAFE unit as described in the instructions and undertake to do so at their sole risk and without any liability on BonaCaeli's part.

## **IMPORTANT WARNINGS**

**Failure to comply with the instructions listed below may result electric shock, fire or serious injury.**

This product should be used only in accordance with the specifications outlined in this manual. Usage other than as specified in these instructions may result in serious injury, risk of fire, electric shock and invalidation of warranty.

- **IMPORTANT:** The plug is intended to fit in a standard polarized 13 Amp socket outlet. Only plug the appliance directly into a proper electrical outlet. Do not use an extension lead.
- **IMPORTANT:** Children cannot recognize the hazards associated with the usage of electrical appliances. For this reason, always supervise children when they are near the unit. These appliances can be used by children aged from age 8 and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- **ALWAYS** unplug the AirVSAFE before moving, opening the inspection door, changing filters, cleaning or whenever the device is not in use. Be sure to pull by the plug and not the cord when un-plugging the appliance.
- **NEVER** drop or insert any object into any openings.
- **DO NOT** operate the appliance connected to an extension cable.
- **ALWAYS** keep the cord out of heavy traffic areas.
- **NEVER** put the cord near heaters, radiators or stoves.
- **DO NOT** cover cord with carpeting or similar coverings.
- **DO NOT** route cord under furniture or appliances.
- **DO NOT** operate any appliance with a damaged cord or plug, if fan motor fails to rotate, after the appliance malfunctions, or if it has been dropped or damaged in any manner. Contact Customer Service for assistance.
- **ALWAYS** use the appliance for indoor, domestic use only. Any other use, not recommended by the manufacturer, may cause fire, electric shock or injury to persons.

- **ALWAYS** use the correct replacement parts for the unit which are available from the manufacturer. Failure to observe this could affect the safety and performance of the unit and invalidate your warranty.
- **WARNING:** If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- **DO NOT** use outdoors or in areas of high moisture content, such as bathrooms or kitchens.
- **NEVER** block the air inlets and outlets.
- **DO NOT** attempt to repair or adjust any electrical or mechanical functions on this unit. Doing so will invalidate your warranty. Please consult the manufacturer for issues which cannot be solved with the included troubleshooting guide.
- **WARNING:** To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.
- **WARNING:** To avoid the risk of accidental strangulation from the power supply cord all children and vulnerable people must be supervised when in the vicinity of the product whether it is working or not.

## **TECHNICAL SPECIFICATIONS**

Product Name	AirVSAFE P1000
Size	420 x 420 x 1050 mm
Weight (Empty Tank)	49.4 kg
Weight (Tank Full)	57.4 kg
Fan Settings	Rotary Dial Control
Air Flow Rate (Max.)	510 m <sup>3</sup> /hr
Noise Level	54 – 63 dB(A)
Power Consumption (Max.)	170 W
Control	Manual
Rated Voltage	AC 230VAC, 50 Hz
Filter Type/Grade	Pre-filter, Pleated Panel, G4 Grade
Filter Size	289 mm x 289mm x 22mm
Filter Life	12 Months*
Bio Wash Fluid	12% Concentration Silver Stabilised Hydrogen Peroxide
Fluid Life	2 Months*
UV-C Bulb Connection	2G11
UV-C Lamp life	9,000h ≈ 1 year (Continuously)*
UV-C Wavelength	254nm

\* Under normal domestic operation

## **FEATURES**

The key elements of the AirVSAFE device contained within the device are as follows:

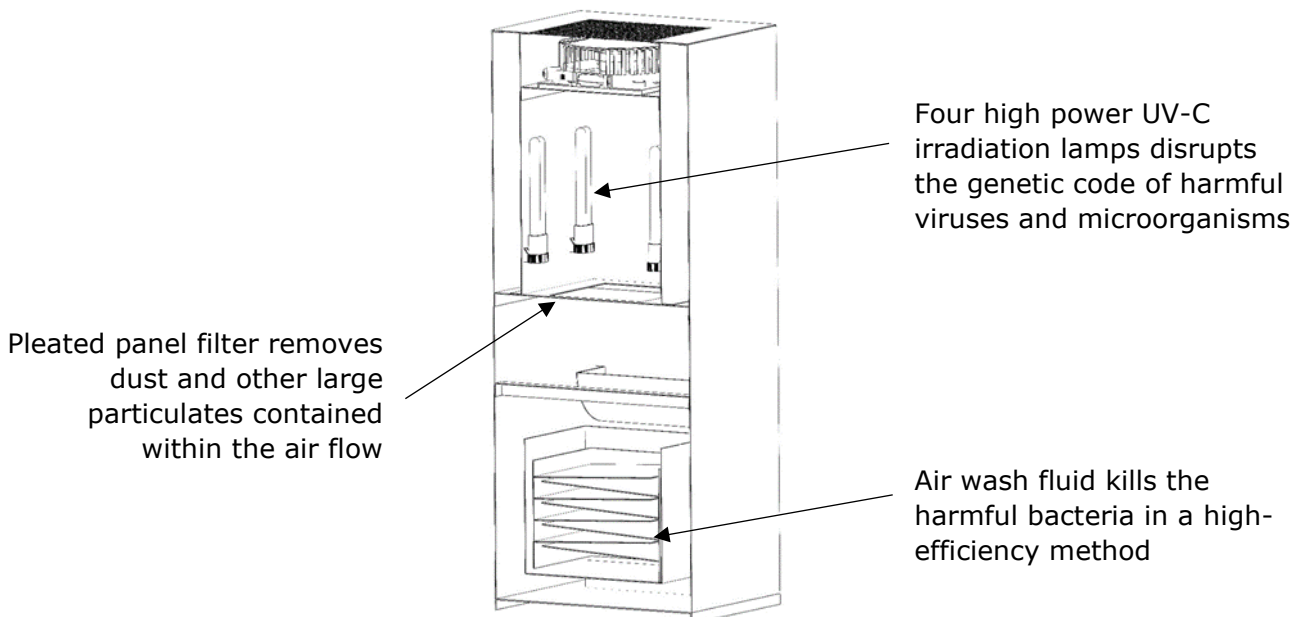
<b>Description</b>	<b>Quantity</b>
Cabinet Housing	1
LightBox	1
S&P PSB/2-190/060-230VAC VE Fan Unit	1
18W 2G11 UV-C Lamp	4
Fluid Tank	1
Tank Lid	1
BubbleMaze	1
Power Lead	1
Disposable Pleated Panel Filter- Grade G4	1
Charles Austen LD60DE Air Pump	1
Air Lines	2
Air Stones	2

## **TRIPLE-STAGE AIR PURIFICATION SYSTEM**

**Pre-Filter:** Captures initial dust and allergen particles.

**UV-C LightBox:** Destroys micro-organisms such as germs, viruses, bacteria and fungi (such as mould toxins).

**Air-washing treatment (BubbleMaze):** High-efficacy virucidal system which inactivates micro-organisms from the intake air flow.



## **BEFORE OPERATING THE UNIT:**

- Carefully remove the unit from its packaging, placing on a level, flat surface, checking for any damage to the exterior of the unit.
- Open the rear inspection door and locate fluid tank.
- Remove LightBox hatch plate by removing the six (6) nuts with an 8 mm spanner or socket, and carefully lift the plate away from the main box. Insert the four (4) UV-C bulbs into each of the lamp bases, ensuring the pins are engaged. Replace the plate to the main box and secure with the nuts until tight.
- Remove the lid from fluid tank and set aside.
- Add the supplied 2 litres of hydrogen peroxide concentrate to the tank following all safety guidelines below. The hydrogen peroxide concentrate is supplied in a separate package to the main unit.
- Add to the tank 6 litres of clean, cold tap water.
- Close inspection door.
- Uncoil supplied power lead fully and plug into socket on the rear of the door.
- Insert the three-pin plug on power lead into a domestic power supply and switch on mains supply.

**IMPORTANT - When moving the unit, always use the integrated castors keeping a firm grip on the top corners/edges of the casing. When not in use, switch off and unplug from the mains supply.**

## **OPERATING THE UNIT**

- Switch on the AirVSAFE unit using the red rocker switch on the controller to position 'I'.
- Increase fan speed by turning the dial clockwise and decrease by turning anti-clockwise. Note that the rotary dial does not allow for the fan speed to reach zero.



To power off the unit, turn the rotary dial fully anticlockwise and depress the red rocker switch to position 'O'.

## **SAFETY AND USER MAINTENANCE**

**WARNING** When performing user maintenance on the unit, ensure the unit is switched to the OFF position and the power lead is disconnected from the mains supply. Allow sufficient time to allow fan rotation to cease and bulbs to cool, approximately 1 hour.

Care should be taken when handling hydrogen peroxide:

- Use disposable gloves to prevent contact with skin.
- If hydrogen peroxide, whether in concentrated or diluted form, comes into contact with skin or eyes wash immediately and thoroughly with water.
- If accidentally ingested, seek medical attention, following all advice on the manufacturer's safety data sheet enclosed with the hydrogen peroxide package.

### **ADDING FLUID TO TANK**

Open the door to rear of unit and disconnect the two (2) airlines by removing the snap-grip clip at the reducer. Remove the lid of the fluid tank and pull airlines through the slot of the lid. Ensure the drain tap is set to the closed position and add the separately provided concentrated hydrogen peroxide solution (2 litres of 12% Huwa-San silver stabilised solution) using a funnel and tube. Dilute this solution with a further 6 litres of clean, cold tap water.

Replace the lid, threading the airlines through the slot in the lid, and placing securely on the tank so that no slippage occurs. Reconnect the airlines by inserting the free end of the reducer into the free end of the tubing and securing with the snap-grip clips.



## **DRAINING FLUID FROM TANK**

To drain fluid from the tank:

- Extend the drain tube from the base of the tank and place the end into a suitable receptacle.
- Rotate the tap until fluid begins to drain.
- Once the tank is fully drained, rotate the tap so that it is closed (handle perpendicular to tubing) and store the drain tube underneath the tank.

## **REPLACING FILTER**

- Disconnect the power source from the AirVSAFE and allow time for the fan rotation to stop completely.
- Open the door on the rear of the unit to allow access to the internal components.
- Remove the spent filter from the base of the LightBox and recycle.
- Remove all packaging from the filter and note the flow direction on the filter.
- Insert the filter into the opening at the base of the Light Box, with the flow arrow pointing vertically upwards.

## **REPLACING UV-C LAMPS**

- Disconnect power from the AirVSAFE unit and allow sufficient time for the UV-C lamps to cool for at least one hour.
- Open the rear access door and remove the rear access hatch of the lightbox using an 8 mm spanner or socket, placing the removed hatch plate on the floor.
- Remove the failed lamp by pulling firmly vertically upwards from the base and then out of the snap-fit clips.
- Replace with new lamp, placing first into the snap-fit clips and then firmly into the base, ensuring electrical connection.
- Recycle spent lamps according to the manufacturer instructions. DO NOT dispose in regular household waste.
- Replace the lightbox access hatch, ensuring a tight fit of all fasteners with socket tool to compress gasket seal. Ensure plate access hatch is reapplied in the correct orientation.
- Close AirVSAFE rear door and lock.

## **CLEANING**

### **FILTER AND INTERNAL CLEANING**

- Disconnect the power source from the mains.
- Allow time for the fan rotation to stop completely and UV-C lamps to cool to safe temperature, at least one hour.
- Open rear access door.
- Remove filter as detailed above.
- Use a vacuum cleaner with brush attachment to remove the accumulated dust on the inlet face of the filter and inside surfaces of the unit.
- Check general condition of filter and replace as above.
- Remove the LightBox access hatch plate using an 8 mm spanner or socket, place plate on floor.
- Remove UV-C bulbs by pulling firmly vertically upwards and then away from snap-fit clips, wipe any accumulated dust off of bulb using a soft, dry cloth and replace bulbs.
- Use a vacuum cleaner with brush attachment to remove the accumulated dust on the inside of the LightBox.

### **FLUID TANK CLEANING**

To clean the fluid tank, BubbleMaze and lid system, tap water should be used to rinse the components to remove any residue left from the spent hydrogen peroxide solution. This should be done each time before the fluid is replaced, and the external surfaces of the tank should be dried with a soft, dry cloth.

To do this, follow the procedure outlined in Sections: 'DRAINING FLUID FROM TANK' and 'ADDING FLUID TO TANK'.

### **DISPOSAL OF FLUIDS/ENVIRONMENTAL SAFETY**

Hydrogen peroxide at concentrations used within the unit is safe for disposal through normal domestic drains and does not require special chemical disposal.

After disposal of the solution, ensure hands are thoroughly cleaned.

If an internal leakage or spillage of hydrogen peroxide solution occurs, the spillage should be cleaned with an excess of water to dilute the solution. Refer to the manufacturer safety data sheet.

### **EXTERNAL SURFACES**

Use a clean, dry, soft cloth to wipe the external surface of the unit. DO NOT use gasoline, benzene, thinners, alcohol or other solvents or similar products while cleaning as they will damage the product.



## **STORAGE AND TRANSPORTATION**

The unit should be located on a solid level floor during operation. Movement of the unit can be safely achieved using the integrated castors.

To transport the AirVSAFE unit, disconnect the power supply and allow time for the fan rotation to stop. Drain all fluid from the tank using the guidance above. Close the door and secure the lock. The AirVSAFE can now be transported from its original location safely.

## **OPERATOR TROUBLESHOOTING GUIDE**

Before carrying out any of the following service checks, unplug the unit from the mains.

<b>Problem</b>	<b>Solution</b>
Insufficient air flow	<ul style="list-style-type: none"><li>• Check that the filters are clean.</li><li>• Check for any obstructions in the air inlet and outlet.</li></ul>
Unit will not start	<ul style="list-style-type: none"><li>• Check the power supply and electric fuse in 3-pin plug.</li><li>• Check that the inspection door and top cover are latched firmly in place.</li></ul>
Excessive noise	<ul style="list-style-type: none"><li>• Check for any foreign objects in contact with the fan.</li><li>• Blocked filter.</li><li>• Uneven positioning.</li></ul>
BubbleMaze system not functioning	<ul style="list-style-type: none"><li>• Ensure air line connections are secure at both ends.</li><li>• Check air lines for kinks or obstruction.</li></ul>
Air pump not functioning	<ul style="list-style-type: none"><li>• Check air lines for kinking or obstructions.</li><li>• Contact BonaCaeli product support.</li></ul>

## **SPARE PARTS**

Please contact the BonaCaeli for any spare part requirements.

## **DISPOSAL AND RECYCLING**

Please contact BonaCaeli to arrange collection and disposal.

## **AFTER SALES SERVICE**

Your product is guaranteed for a period of one year from the date of purchase. Within this period, we will undertake to repair or exchange this product free of charge (subject to availability), provided it has been operated in accordance with these instructions. Your rights under this guarantee are additional to your statutory rights, which in turn are not affected by this guarantee.

Should you require after sales information or assistance with this product in the first instance please contact us using the details below, quoting the model, serial number and date of manufacture which can be found on the data label affixed to the rear door.

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BonaCaeli is a trading name of BPP Technical Services Limited

For the latest version of this manual please check <https://bonacaeli.com/support/>