

# UV HALO

PORTABLE AIR PURIFIER AS8.1  
USER MANUAL

[www.bbtuvair.com](http://www.bbtuvair.com)



UV HALO may work  
in the presence of people



## DEAR CUSTOMER!

Thank you for purchasing the UV HALO AS8.1 or AS8.2 Air Purifier, this is "clean air technology" at its best. This product is packed with power and technology to provide fast and efficient clean air. We hope that you enjoy using your new unit!

Purifying the air you breathe is no longer a superfluous luxury. An increasing number of micro-organisms can be found in the air, including viruses, bacteria and moulds, and these make our air less healthy to breathe. We are increasingly made aware of how dangerous these micro-organisms could become for human beings. As these microorganisms cannot be seen with the naked eye and are spreading through the air, this hazard becomes even more pronounced. Research indicates that the air quality in enclosed spaces can be very poor indeed. Office areas, children's day-care centers, classrooms, old people's homes and family doctors' or dentists' surgeries are examples of areas where many people come together, and where the risk of infection through the air is correspondingly higher. Our houses are also much better insulated than they used to be, with the result that natural ventilation is steadily reduced. The quality of the air inside is therefore often poorer than we think. Poor air quality at home is not only responsible for diseases, but can also be the cause of headaches, respiratory irritation, insomnia and allergies.

With UV HALO device, you can disinfect the air up to 90% in areas up to 30 m<sup>3</sup>. In the case of larger areas, you can install several devices or turn on device for longer time. Viruses, bacteria, moulds and other micro-organisms that are present in the air are rendered harmless by the device and are removed from the air, together with pollen, dust and odours. You will quickly notice how the quality of the air has

improved, and will feel fitter and more comfortable. Your UV HALO is the ideal tool to keep the air around you safe and healthy.

## OPERATION

The air is drawn into the topside of the device using a ventilator, thereby creating air circulation in the room. The ventilator circulates 30 m<sup>3</sup> of air through the unit per hour. For the best results, it is recommended to keep your unit running 12-24 hours a day in the places with . After passing through the air inlet, the air is treated with UV-C radiation. The special Philips or BBT UV air ozone-free UV-C lamp in the unit generates an ultraviolet radiation with a wavelength of 253.7 nanometres. The UV-C light destroys viruses, bacteria, moulds and other primitive organisms. The radiation damages the DNA structure of micro-organisms and prevents their reproduction.

## AFTER THE UV-C TREATMENT

The integrated timer keeps an accurate record of the number of operating hours of the lamp. This will tell you precisely when to replace the lamp. In areas where more dust is present, the fixture must be cleaned more often. The air that is blown out from the outlet at the bottom of the unit has been disinfected to 95-99%. Clean air in your living environment is better for your health. Pure air not only increases the resistance of the body against diseases, but also reduces respiratory problems, or could prevent such problems completely. Anxiety and depression are reduced, or disappear completely. But the major effect is the prevention of diseases.

## ADVANTAGES OF THE UV HALO

- Disinfects and purifies the air up to 95-99%.
- Eliminates micro-organisms that are present in the air.
- Provides protection against diseases.
- Improves the quality of the air and promotes a comfortable feeling.
- Purifies the air in enclosed areas.
- Has a positive effect on your health.
- Strengthens the resistance of the body against diseases.
- Inhalation allergies are reduced or disappear.
- Anxiety and depression can be reduced, or disappear.
- Diseases can be prevented.

## PROPERTIES OF THE UV HALO

- Suitable for areas up to 30-50 m<sup>3</sup>.
- Flow air rate up to 30m<sup>3</sup> air per hour.
- Replacement of the UV-C lamp once a year.
- The unit indicates when the lamp should be replaced.
- Simple installation, usage and maintenance.
- Stand-alone system, wall mounted option and immediately ready-for-use through "plug and play".



## THE UV HALO IS EFFECTIVE AGAINST

- Viruses
- Bacteria
- Moulds
- House-dust mites
- Dust and particulates
- Cigarette smoke

- Odours

## THE UV HALO IS RECOMMENDED FOR THE FOLLOWING AREAS

- Schools
- Children's day-care centers
- Old people's homes
- Nursing homes
- Hotels
- Offices
- Copying areas
- Family doctor's surgeries
- Dental surgeries
- Veterinaries
- Animal shelters
- Kennels
- Lounges
- Bedrooms
- Hobby rooms
- Computer rooms
- Studies
- Play rooms
- Holiday homes
- Caravans
- Fitness areas
- Smoking areas
- Restaurants
- Hairdressers
- Beauty parlours
- Public toilets
- Pubs
- Meeting rooms
- Dressing rooms

T8 | UV-C | IP20 | 220-240 V |  | CE | 

G13

253.7 nm

IP20

50-60 Hz



CE



## READ ALL INSTRUCTIONS BEFORE USING YOUR UNIT

When using your AS8.1 or AS8.2 model, basic safety precautions should be observed, including the following.



## • TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY

1. Use the unit only for its intended use. This product can only be used according to the guidelines described in these instructions for use.
2. To protect against a risk of electric shock, do not immerse any part of the system in water or in any other liquids.
3. This appliance is NOT a toy. Keep children away from this device and from the cable.
4. This appliance is NOT to be used by children or persons with reduced physical, sensory or mental capabilities.
5. Children should be supervised at all times.
6. Never look directly at a burning ultra-violet light, as this may permanently damage your eyes.
7. To reduce the risk of an electric shock or damage to the unit, switch the off and unplug before cleaning or performing any maintenance to the unit.
8. Heed all warnings.

## • INSTALLATION SAFETY

**This device produces harmful radiation. Direct contact could impair the eyes and skin.**

1. No form of water or liquid should enter the unit. Should this occur, immediately switch off the unit and unplug it.
2. Do not place any heavy objects on the power cord as this may cause a fire and/or an electric shock.
3. Make sure the power cord is plugged firmly into the outlet. If the power is not plugged in correctly, this may cause a fire.
4. Do not touch the plug with wet hands, as this may cause serious injuries as well as never insert the plug / pull the plug from the socket when you are standing in water.
5. Do not block the air inlet of the unit, as this will reduce the airflow and result in poor performance and damage the unit.
6. Do not sit, stand or place heavy objects on the unit, as this may result in injury and/or damage to the unit.
7. Do not move the product while it is switched on as this may cause a fire and/or an electric shock. Always remove the plug from the socket before carrying out any maintenance or repair work on the unit.
8. Do not alter or modify the plug or cord of this unit as it could cause a fire or an electric shock.
9. Use the proper power cable and outlet, do not over-load the outlets with several cords simultaneously. Always comply with the electricity company's regulations with regard to any permanent connection to the mains. If there is any doubt regarding the connection, consult a recognized electrician or the electricity company. Always work with an earth leakage current circuit-breaker (residual current trip).
10. To protect against a risk of electric shock, do not

immerse any part of the system in water or in any other liquids.

11. Do not attempt to repair or replace any part of this equipment unless it is specifically recommended in this manual. The cable of the device cannot be replaced. The complete unit must be replaced if there is any damage to the power cable. Never remove the plug, but always leave the electrical unit intact. An electrical unit with the plug removed will no longer be covered by the guarantee. All other services should be referred to a qualified technician.
12. Plug the unit into a 220V AC outlet only, 50-60Hz, if unsupervised, it may cause an electric shock.
13. Do not use the device if any of the components are damaged.

## UV HALO DISINFECTION

UV HALO luminaires use ultraviolet light, destroy the DNA or RNA of all microorganisms that will be exposed and remove viruses, bacteria and fungi from the air. Covered UVC light does not reach the outside of the lamp. Thanks to stimulated circulation, the air passes through luminaire interior, where it is exposed to the light and cleaned, and then pushed outside. UV HALO luminaires may work in the presence of people. Only check the operation of the UV-C lamp through the air vents at the top of the unit. The openings will light up blue if the lamp is on.

## EXPOSURE METHOD

1. Determine where the device will be installed. When selecting a location for the device, please bear in mind that the unit must be able to circulate the air in the room freely and without obstructions. Also ensure that there is a power socket near the selected location. Install the device in a dry place.
2. Place the lamp in a disinfected room, if possible in a central place, to increase the effectiveness of disinfection. Remember that the disinfection efficiency in a given place decreases as the distance from the lamp increases. Never install the unit in an area subject to full sunlight.
3. Do not cover the luminaire fan, do not place any objects on the luminaire. In order not to disturb circulation, leave an empty space and do not put any objects within 0,5 m of the luminaire fan.
4. There may be people in the room. They can move freely and do not need protective clothing or glasses.
5. Do not open the luminaire covers during its operation. Secure the luminaire against uncontrolled opening by other people, especially pay attention to children.

6. Do not open the window while the luminaire is operating, as this will reduce the effectiveness of disinfection. We recommend ventilating the room after operating hours of the device.
7. We recommend using the product in rooms with unobstructed ventilation.
8. When switching on the device for the first time, you may notice a burning smell from the UV-C lamp for a short time. This odour is similar to the odour you notice when using a sun bed, and will disappear after a short time. This smell does not pose a threat to the users of the device.
9. Once the device has been switched off, the lamp will remain hot for approximately 10 minutes.
10. A small amount of visible blue light – which is a reflected light, does not contain UVC radiation and is safe for humans.

2. Remove the pipe clips from the device and fix them at the selected location with suitable screws and/or plugs.
3. Place the UV HALO in the fixed pipe clips and screw the brackets into place.
4. Insert the plug into the socket and check the operation of the UV-C lamp – only do this through the air vents at the top or bottom of the unit! Blue light can be seen through the air vents of the lid if the lamp is on.
5. Check the operation of the ventilator by holding your hand on the top the unit grid. If you feel an air flow, the ventilator is working.
6. Check if the display with countdown of UV-C lamp lifetime is working – numbers on the display will light on and will show 8000\*. The UV HALO can be set using the display on the front of the device. The display easily operated with just the one button – switch ON/OFF.
7. Switching off the device: it is not necessary to switch off the device during the day because it has been designed to operate 24 hours a day to avoid the formation of new micro-organisms. You can switch the device off by pressing ON/OFF button and removing the plug from the socket.

## INSTALLATION OF THE DEVICE

1. Remove the UV HALO together with the supplied pipe clips from the packaging and position the UV HALO with the pipe clips at the selected location so that you can mark where the pipe clips should be fitted onto the solid back wall (in case of wall-mounted option). In case of installation in vertical or horizontal position on the surface in the chosen place, please, use vertical holder or horizontal support stand accordingly for safety and comfortable usage.

### \* LAMP OPERATING TIME

'8000.': If you press the button once in the rest position, the operating hours will be displayed. The display will automatically start from the factory setting of the timer, i.e. 8,000 hours. The UV-C lamp operates at 100% radiation for up to 8,000 hours. After 8,000 operating hours, the UV-C radiation will weaken, and may be insufficient to obtain the desired results. If the device is switched off and then on again, the hour

counter will start counting backwards from the value it had when it was switched off.

'0000.': The display will indicate 0000 when the 8,000 operating hours of the lamp have expired. The actual time will be shown in the display, alternating with four numbers. The UV-C lamp must now be replaced.

## DISINFECTION EFFICIENCY

	Recommended floor volume, m <sup>3</sup>	Time of disinfection (min) with efficacy (*)	
		99% for areas for medical purpose, labs etc	95,0 % for areas like study or play rooms, smoking room, public toilets etc
AS8.1	Up to 30	60	45
	From 31 up to 50	80	60

\* The bactericidal efficiency is calculated by *S. aureus*.

\* The air flow is 30 m/h

\* The maximum volume (cubature) of the disinfected room: 50 m<sup>3</sup>

## OPERATIONAL SAFETY

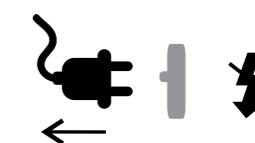
The UV-C light emitted by the lamp is highly harmful to humans and other living organisms, damages eyesight, skin and cell DNA. UV-C light degrades the DNA and RNA code in the cells of living organisms. After starting the luminaire no people or animals should be within the range of direct UVC rays. Damage to the luminaire will not affect your health while maintaining basic precautions. If the fluorescent lamps break, ventilate the room for 30 minutes and remove the contaminated parts, preferably with gloves. Place them in a sealed plastic bag and take to a local waste disposal facility for recycling. Do not use a vacuum cleaner to remove damaged parts.

## DISMANTLING / MAINTENANCE

During maintenance work, or when dismantling the device, always switch off the power supply by removing the plug from the socket. The device must be cleaned at least once a year. The special lamp must be replaced after 8,000 operating hours at the latest. Clean the aluminium interior with a soft cloth.



**POWER OFF**



1 | 8

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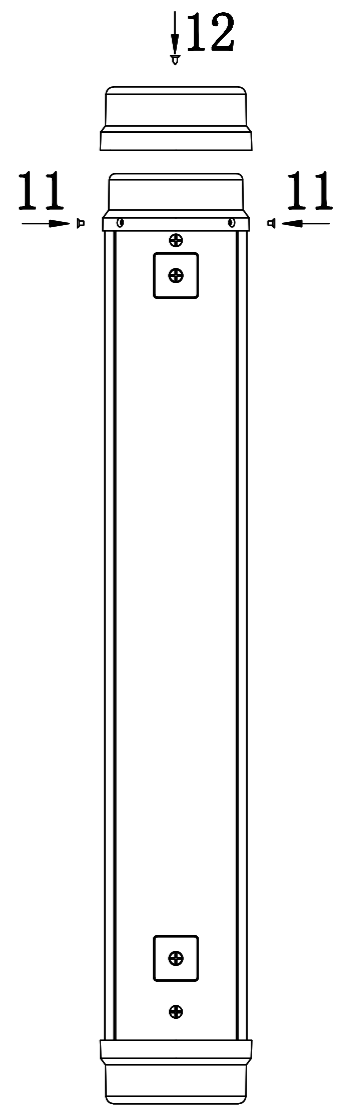
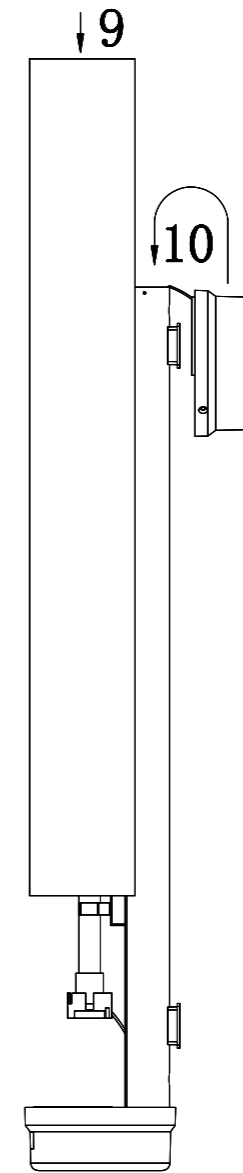
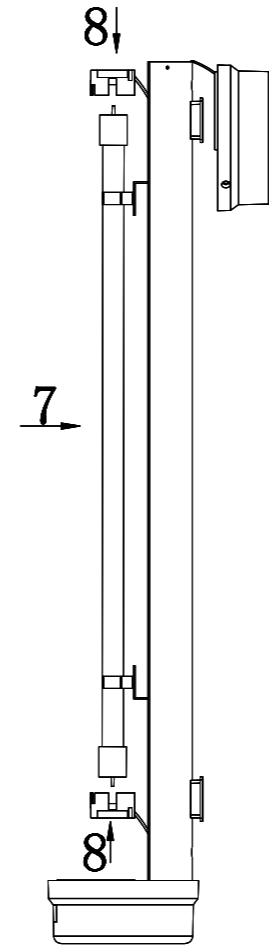
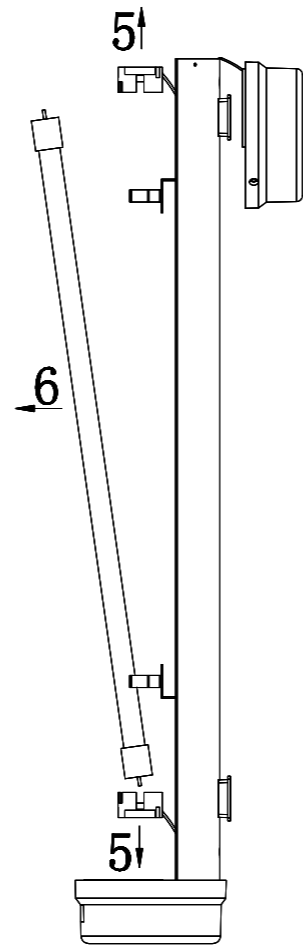
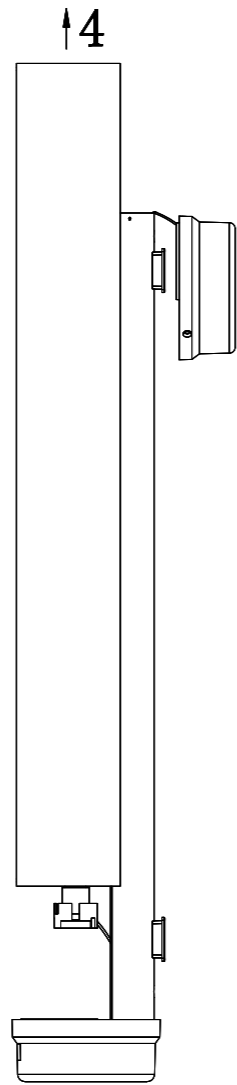
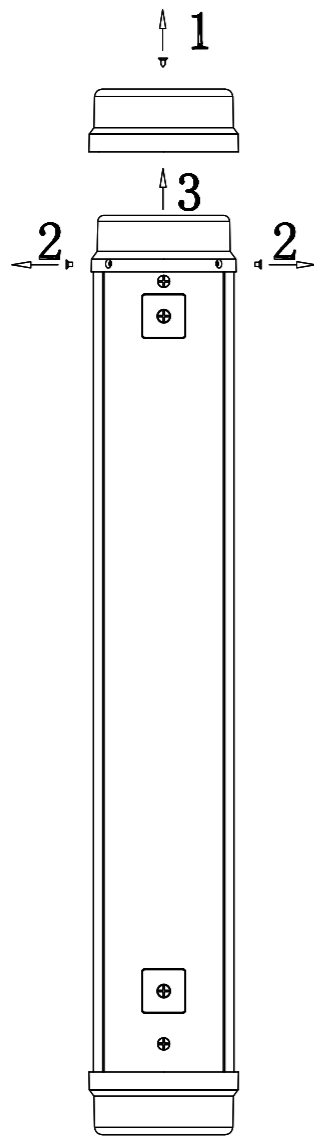
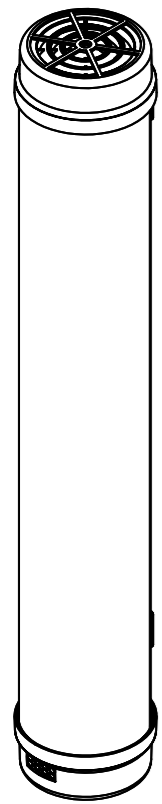
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4

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6

7



**1** TURN OFF the device and remove plug from the socket.

**2** Using a screwdriver, unscrew the 1 screw on the top of cup holder, and 2 screws from the cup holder on the sides of it. Remove the cup and screws. Be careful while removing the cup, do not disconnect the cables. Put the cup holder aside of the device.

**3** Carefully pull the UV-C lamp from the lamp fittings **(5)** then turn it by a quarter-turn to

enable you to easily remove the UV-C lamp from the lamp clip of the device. Clean the interior of the aluminium housing with a soft dry cloth.

**4** Carefully pull the UV-C lamp from the lamp fittings **(5)** then turn it by a quarter-turn to enable you to easily remove the UV-C lamp from the lamp clip of the device. Clean the interior of the aluminium housing with a soft dry cloth.

**5** Carefully insert the (new) UV-C lamp into the lamp clip pushing the UV-C lamp through. Turn the lamp by a quarter-turn to fix it more tightly into the lamp fittings **(8)**.

**6** Carefully install the plastic diffuser by slightly pushing it in the direction of bottom part of the device. Be sure that diffuser joints the aluminium housing by grooves tightly.

**7** Install the cup holder on the top of the device, be sure all cables are inside of it. Using a screwdriver,

tighten the 2 screws from the cup holder on the sides and 1 screw on the top of it.

**8** Insert the plug into the socket and check the operation of the UV-C lamp. Check the operation of the ventilator by holding your hand over the device. If you feel an air flow, the ventilator is working.

## TECHNICAL SPECIFICATIONS

- UV HALO system power 20 Watt
- UV-C ozone-free 253,7 nm lamp 15 Watt
- UV-C Dose 4.23 mJ/cm<sup>2</sup> (air flow 50 m<sup>3</sup>/hr)
- UV-C (W) output 15 Watt
- UV-C (%) after 8,000 hours 85 %
- Ventilator 12 Volt
- Max. area capacity up to 50 m<sup>3</sup>
- Max. throughput 30 m<sup>3</sup> of air per hour
- Dimensions of the device 610x17x15 mm
- Weight of the device

## REPLACEMENT ARTICLES

Article number: TUV 15W SLV/25 Philips T8 G13 (15 Watt) or

Article number: CUL15L BBT UV air T8 G13 (15 Watt)

## SET INCLUDED

UV-C air purifier – 1pcs

Wall mounting brackets set – 1set (2pcs brackets)

Manual – 1pcs

Cable – 1pcs

Packing box – 1pcs

\*Vertical base stand or horizontal support for UV HALO device supplies separately as an option.

## TERMS OF GUARANTEE

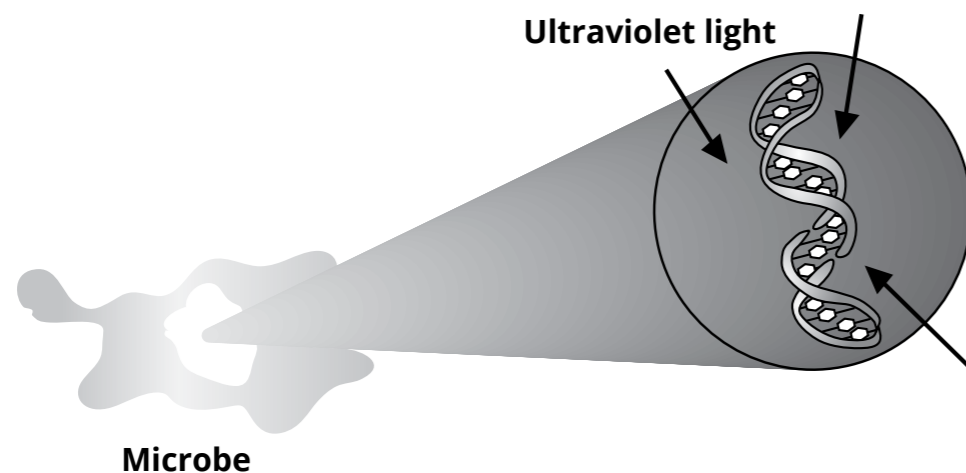
The guarantee for this product covers manufacturing faults for a period of 12 months following the date of purchase. The lamp is not included in this guarantee. Claims under the guarantee can only be considered if the product is returned post-paid together with a guarantee registration form and a valid purchase receipt. Repairs under the guarantee may only be carried out by the supplier. Guarantee claims that are caused by errors in the installation or in the operation of the device will not be considered. Defects originating from poor maintenance are also excluded from the guarantee. The supplier will not be held responsible in any way whatsoever for any damage caused by the incorrect operation of the product. The supplier will not be liable for any consequential damage caused by the breakdown of the device. Complaints regarding transport damage will only be considered if the damage was established or confirmed on delivery by the carrier or the postal authorities. A claim can only be made against the carrier or the postal authorities if this has been done.

## RECYCLE INFORMATION

The symbol of the barred bin printed on the product means that it must be collected separately from other rubbish when it will not be anymore in use. The user, at the end of the life of the product, will have to bring it to a proper rubbish collection center for electric and electrical devices. A differentiated refuse collection is environmentally friendly and it helps the recycle of the materials, any other collection procedure is unlawful and will be subject to the law in force.



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How UV-C works.

The molecular structure of the DNA is broken down rendering the microbe harmless.