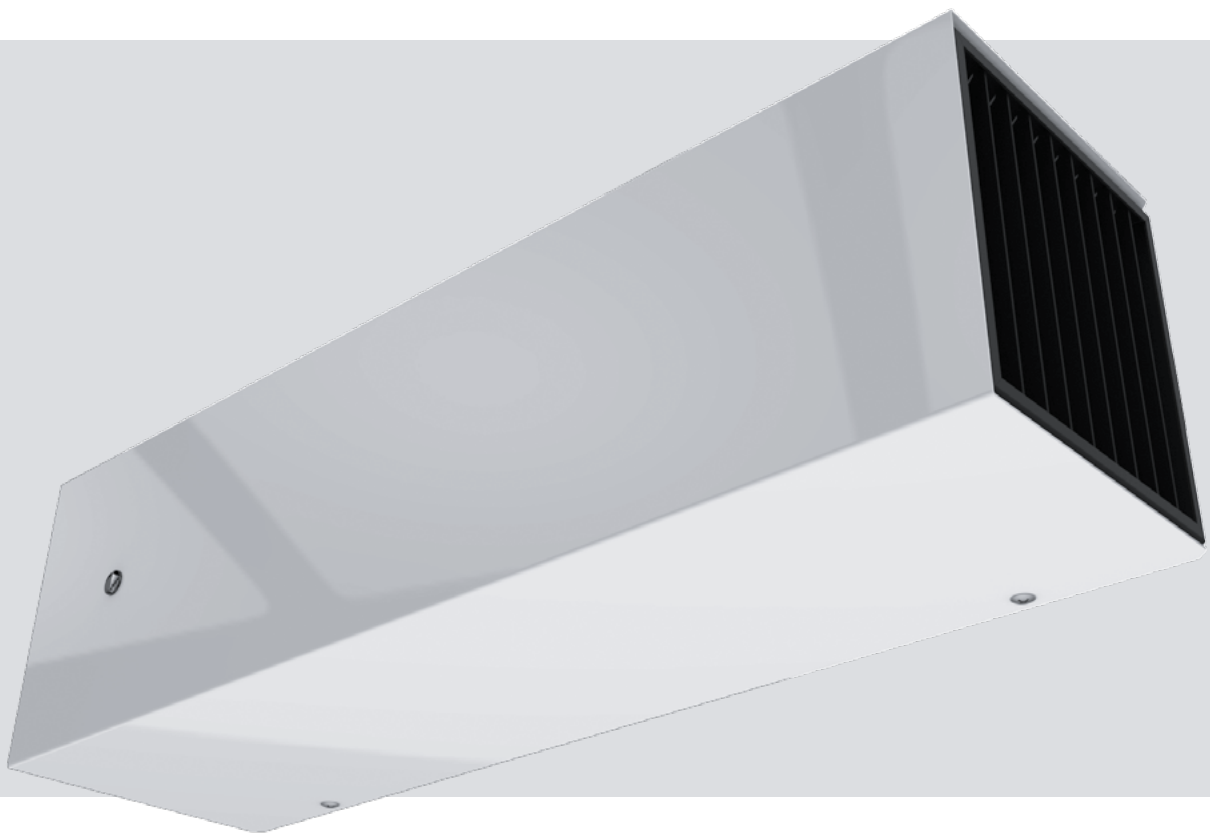


USER'S MANUAL

MEDIVENT BR
MEDIVENT BRT



UV air recirculation unit

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This user's manual is a main operating document intended for technical, maintenance, and operating staff.

The manual contains information about purpose, technical details, operating principle, design, and installation of the MediVent BR unit and all its modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

SAFETY REQUIREMENTS

- Please read the user's manual carefully prior to installing and operating the unit.
- All user's manual requirements as well as the provisions of all the applicable local and national construction, electrical, and technical norms and standards must be observed when installing and operating the unit.
- The warnings contained in the user's manual must be considered most seriously since they contain vital personal safety information.
- Failure to follow the rules and safety precautions noted in this user's manual may result in an injury or unit damage.
- After a careful reading of the manual, keep it for the entire service life of the unit.
- While transferring the unit control, the user's manual must be turned over to the receiving operator.

UNIT INSTALLATION AND OPERATION SAFETY PRECAUTIONS



- Disconnect the unit from power mains prior to any installation operations.



- Unpack the unit with care.



- The unit must be grounded!



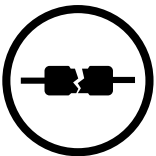
- While installing the unit, follow the safety regulations specific to the use of electric tools.



- Do not change the power cable length at your own discretion.
- Do not bend the power cable.
- Avoid damaging the power cable.
- Do not put any foreign objects on the power cable.



- Do not lay the power cable of the unit in close proximity to heating equipment.



- Do not use damaged equipment or cables when connecting the unit to power mains.



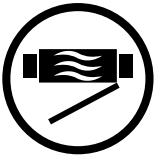
- Do not touch the unit controls with wet hands.
- Do not carry out the installation and maintenance operations with wet hands.



- Do not allow children to operate the unit.
- The unit is allowed to be used by children aged from 8 years old and above and persons with reduced physical, sensory, or mental capabilities or no experience and knowledge provided that they have been given supervision or instruction regarding safe use of the unit and understand the risks involved.



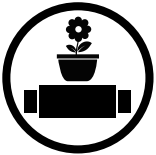
- Do not store any explosive or highly flammable substances in close proximity to the unit.



- Do not open the unit during operation.



- Do not block the air duct when the unit is switched on.



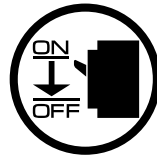
- Do not sit on the unit and avoid placing foreign objects on it.



- Do not operate the unit outside the temperature range stated in the user's manual.
- Do not operate the unit in aggressive or explosive environments.



- Do not wash the unit with water.
- Protect the electric parts of the unit against ingress of water.



- Disconnect the unit from power mains prior to any technical maintenance.



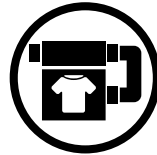
- When the unit generates unusual sounds, odour, or emits smoke, disconnect it from power supply and contact the Seller.



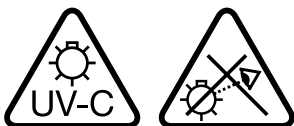
- Do not direct the air flow produced by the unit towards open flame or ignition sources.



- In case of continuous operation of the unit, periodically check the security of mounting.



- Use the unit only for its intended purpose.



**DO NOT SWITCH ON THE UNIT WITH THE HOUSING REMOVED!
UVC RADIATION IS HARMFUL TO EYES AND SKIN!**



**THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE.
DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE.**

PURPOSE

MediVent BR is an air recirculation unit of the closed type with forced air flow circulation, equipped with germicidal ultraviolet lamps. It is used for disinfecting the air in rooms with increased risk of spread of infectious agents: in medical, pre-school, school, industrial and public organisations, public catering and other premises with large concentrations of people.

Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, sticky substances, fibrous materials, coarse dust, soot and oil particles or environments favourable for the formation of hazardous substances (toxic substances, dust, pathogenic germs).

The unit is rated for continuous operation.



THE UNIT SHOULD NOT BE OPERATED BY CHILDREN OR PERSONS WITH REDUCED PHYSICAL, MENTAL, OR SENSORY CAPACITIES, OR THOSE WITHOUT THE APPROPRIATE TRAINING.

THE UNIT MUST BE INSTALLED AND CONNECTED ONLY BY PROPERLY QUALIFIED PERSONNEL AFTER THE APPROPRIATE BRIEFING.

THE CHOICE OF UNIT INSTALLATION LOCATION MUST PREVENT UNAUTHORISED ACCESS BY UNATTENDED CHILDREN.

DELIVERY SET

NAME	NUMBER
UV air recirculation unit	1 pc.
User's manual	1 pc.
Packing box	1 pc.

DESIGNATION KEY

Designation example: **MediVent BR 15x2 T**

MediVent BR is a UV air recirculation unit in a metal casing with low capacity for domestic and commercial use.	Series	_____
Power consumption of germicidal lamps [W] 7; 15		_____
Number of germicidal lamps [pcs] 1; 2		_____
Timer _ – without a timer T – timer with a real-time clock with an option of setting a daily schedule		_____

TECHNICAL DATA

The unit is designed for indoor application with the ambient temperature ranging from +10 °C up to +35 °C and relative humidity up to 70 %.

Hazardous parts access and water ingress protection rating:

Made according to protection class 1, type B;

Ingress protection rating against access to hazardous parts and water ingress is IP20.

The unit design is constantly being improved, thus some models may be slightly different from those described in this manual.

Room categories:

I – operative rooms, maternity wards, sterile areas of the premises, paediatric wards of maternity hospitals.

II – dressing wards, sterilisation rooms, wards and departments for immunocompromised patients, intensive care wards, non-sterile areas, bacteriological and virological laboratories, blood transfusion stations, pharmaceutical workshops.

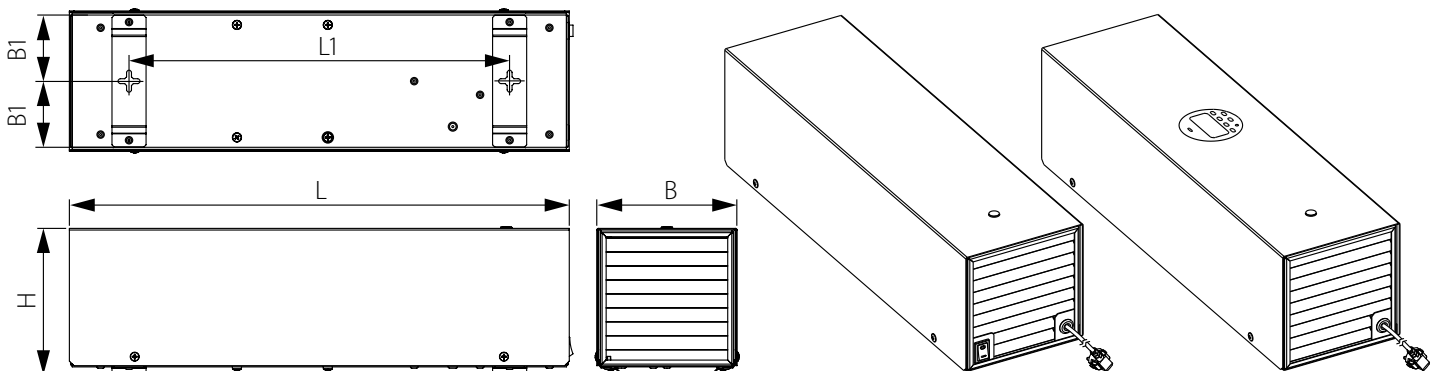
III – wards, rooms and other premises (not included in categories I and II).

IV – children's playrooms, school classrooms, industrial and public facilities with large concentrations of people during long stays.

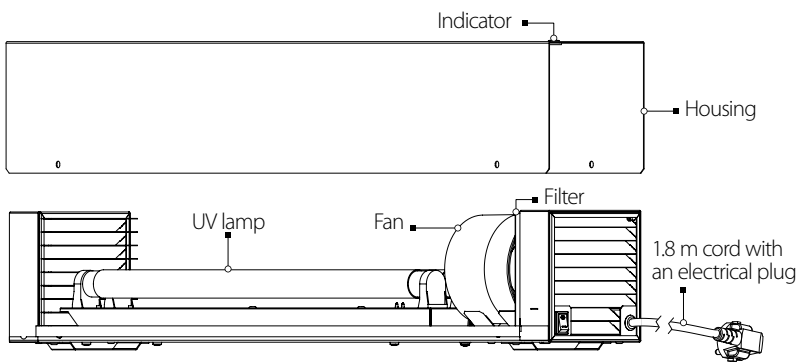
V – smoking rooms, public toilets and healthcare stairwells.



Model	Dimensions [mm]					Weight [kg]
	B	B1	H	L	L1	
MediVent BR 7x1	124	62	128	440	335	3.36
MediVent BR 7x1 T						3.54
MediVent BR 7x2						3.63
MediVent BR 7x2 T						3.8
MediVent BR 15x1	124	62	128	705	600	4.79
MediVent BR 15x1 T				735	630	4.81
MediVent BR 15x2				705	600	4.72
MediVent BR 15x2 T				735	630	4.98



DESIGN AND OPERATING PRINCIPLE




MediVent BR is a closed-type UV irradiator in which the bactericidal flux from the ozone-free lamps is distributed in the enclosed space of the irradiator casing, and the air is disinfected as it is moved by a fan through an area with an UV radiation source.

MediVent BR is a stand-alone unit, ready for use. The air recirculation unit consists of a casing, which consists of two main parts: a base and a protective housing.

Depending on the model, the air recirculation unit has one or two ozone-free germicidal lamps, which are mounted in cartridges fixed to the base.

The fan, which draws in air from the room via a filter, is installed at the base of the casing. There are protective grilles at the inlet and outlet of the air recirculation unit.

INSTALLATION

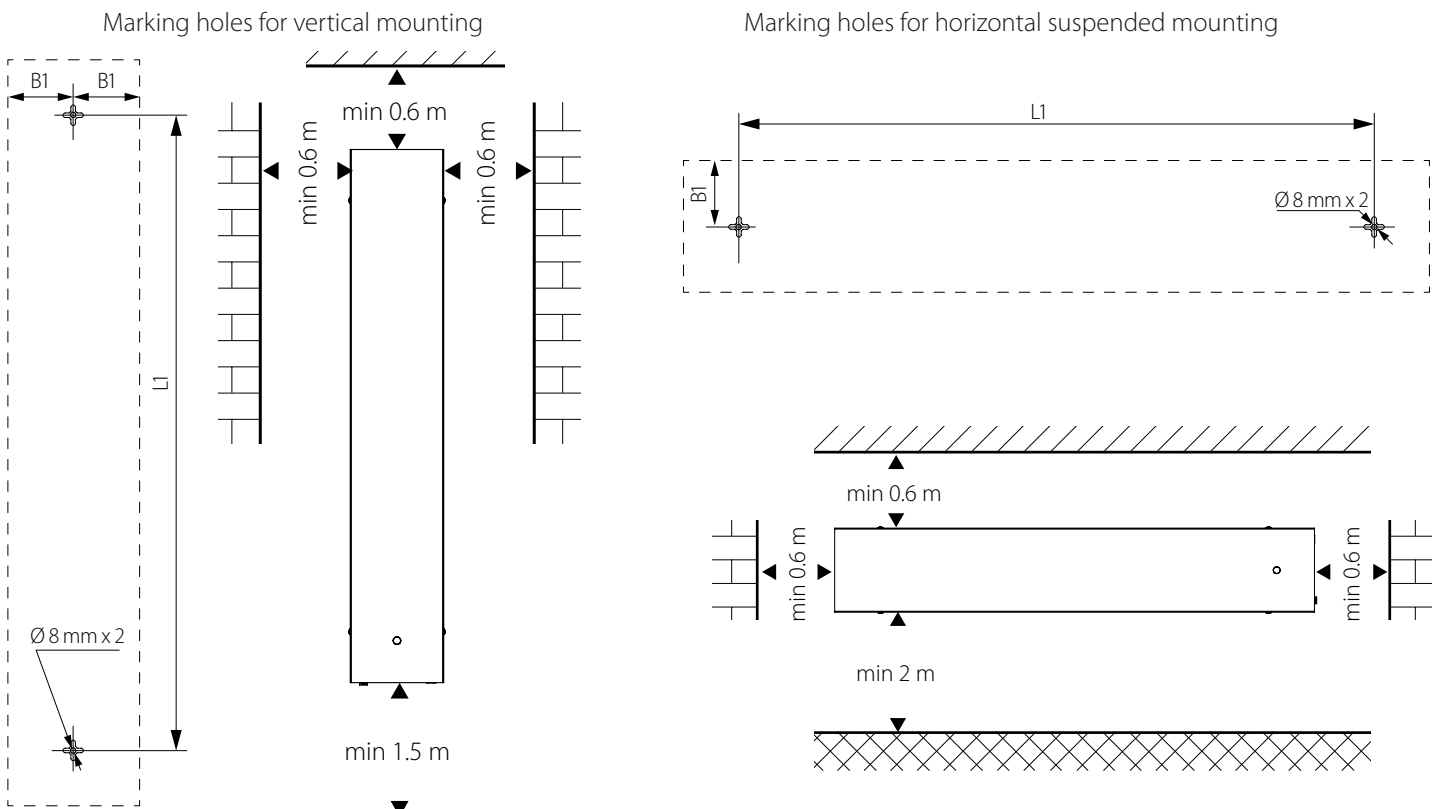


WHILE INSTALLING THE UNIT ENSURE CONVENIENT ACCESS FOR SUBSEQUENT MAINTENANCE AND REPAIR.

WARNING!
Do not place the air recirculation unit in places with stagnant air!
Provide unobstructed air intake and exhaust!

Suspended mounting

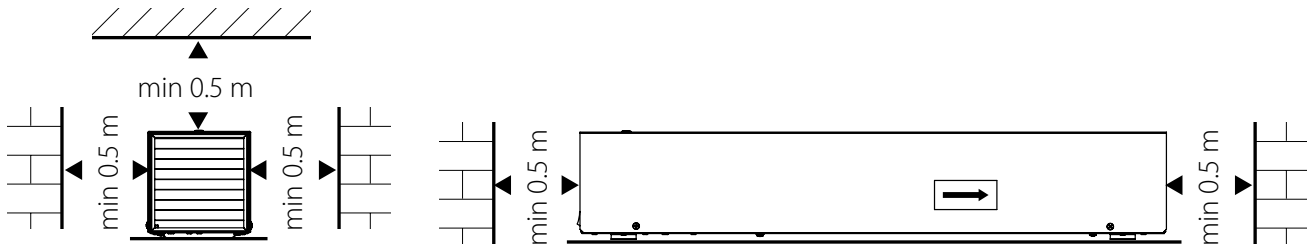
Mark the holes for the fasteners. Drill the holes in the wall and screw in self-tapping screws. Hang the air recirculation unit.



Fasteners for air recirculation unit mounting are not included in the delivery set and should be ordered separately. While choosing fasteners consider the material of the mounting surface as well as the weigh of the air recirculation unit, refer to the "Technical data" section. Fasteners for unit mounting should be selected by the service technician.

Mounting of the air recirculation unit on a horizontal surface

Place the air recirculation unit horizontally taking into account the minimum distances to surfaces.



CONNECTION TO POWER MAINS

- The unit is rated for connection to 1~230 V/50 Hz power mains. The connection is carried out using a cord with an electric plug.
- The external power input must be equipped with an automatic circuit breaker built into the stationary wiring to open the circuit in the event of overload or short-circuit. The position of the external circuit breaker must ensure free access for quick unit power-off. The circuit breaker is not included in the delivery set and can be ordered separately.

CONTROL

WARNING! After transportation at low temperatures or storage in a cold room, the air recirculation unit can be turned on only after it has been kept indoors for minimum two hours.

AIR RECIRCULATION UNIT WITHOUT A TIMER

In models without a timer, the air recirculation unit is turned on and off with the On/Off button. The air recirculation unit operation is indicated by a light indicator.

AIR RECIRCULATION UNIT WITH A TIMER

Clock setting

Before setting the schedule, you need to set the current day of the week and time. To do this, press and hold the **CLOCK** button and press the **WEEK** button until the value for the current day of the week lights up at the top of the display.

- SU – Sunday
- MO – Monday
- TU – Tuesday
- WE – Wednesday
- TH – Thursday
- FR – Friday
- SA – Saturday

HOUR for setting the hours and **MIN** for setting the minutes.

Holding down the **CLOCK** button switches the time format to 12/24.

Schedule setup

Press the **PROG** button to enter the schedule setting menu.

Use the **WEEK** button to select the days of the week on which the enable and disable rule will work.

It is possible to select several preset values, all days of the week or any single day.

Use the **HOUR** button to set the hours and the **MIN** button to set the minutes of the timer (the same as for the clock).

The first digit on the display in the timer programming mode is the sequence number of the program. There can be 16 of them in total.

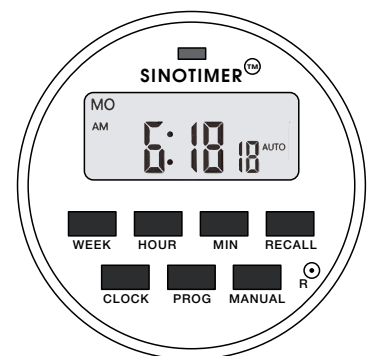
There are two modes for each of the programs – ON and OFF. Switching between modes is done with the **PROG** button. To exit the programming mode, press **CLOCK**.

In order to delete a separate program, you need to enter the programming mode, select the corresponding program and press the **RECALL** button.

The **MANUAL** button allows manually activating or deactivating the timer and consequently the air recirculation unit (when the timer is activated, the red light on the timer lights up and the "ON" segment (light bulb) is shown on the display, when the timer is deactivated the "OFF" segment is shown (the light bulb is crossed out) and the red light is off), or selecting the auto mode (according to the schedule) – the "AUTO" segment lights up on the display.

As in models without a timer, a light indicator of the air recirculation unit operation is provided on the casing.

To completely reset all settings, simply press the **R** button.



TECHNICAL MAINTENANCE



DISCONNECT THE UNIT FROM POWER SUPPLY BEFORE ANY MAINTENANCE OPERATIONS!

MAKE SURE THE UNIT IS DISCONNECTED FROM POWER MAINS BEFORE REMOVING THE PROTECTION



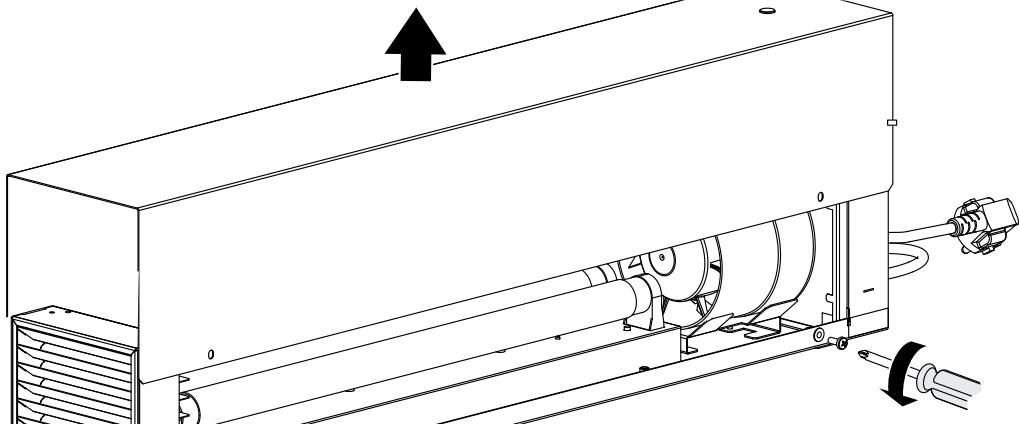
ONLY SUITABLY QUALIFIED AND TRAINED PERSONNEL WHO HAVE UNDERGONE THE REQUIRED TRAINING FOR THIS WORK ARE AUTHORISED TO CARRY OUT MAINTENANCE OF THE PRODUCT

Maintenance includes general cleaning of the unit and the following operations:

1. External inspection.

Before carrying out maintenance, it is necessary to carry out an external inspection.

To access the internal elements of the unit, it is necessary to remove the housing by loosening the fastening screws.



During the external inspection check the following:

- absence of mechanical damage affecting performance
- integrity of the germicidal lamp
- electrical contacts, no detached or loose elements of the system and the condition of the power cord and plug. (There should be no breaks on the surface of the cord through which current-carrying conductors could be seen, the cord termination must be firm and exclude movement in the termination hole. The pins of the mains plug must not be bent).

2.1 Cleaning lamps (once a month).

Disconnect power before removing lamps and allow them to cool for at least 15 minutes. Lamp bulbs should be wiped with a soft cotton cloth moistened with 96 % alcohol. After wet cleaning, wipe the lamp dry.

2.2 Cleaning the protective housing (when dirty).

Remove the housing and wash it with a warm water solution of liquid neutral detergent and leave to dry.

2.3 Cleaning the fan (once a year).

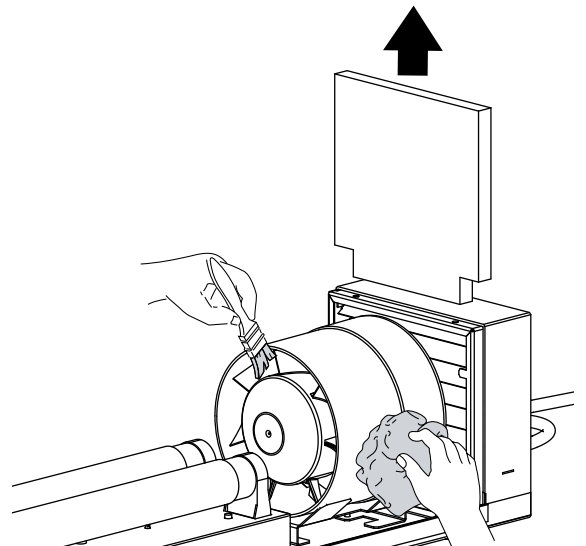
Clean the impeller blades and fan casing when they get dirty, but at least once a year. Use a soft dry brush or compressed air to remove dust from metal parts of the fan. Wipe the fan casing with a soft cloth soaked in a solution of water and a neutral liquid detergent. Avoid liquid dripping on the motor. Wipe the surfaces dry after wet cleaning.

3. Filter replacement (once every 4 months).

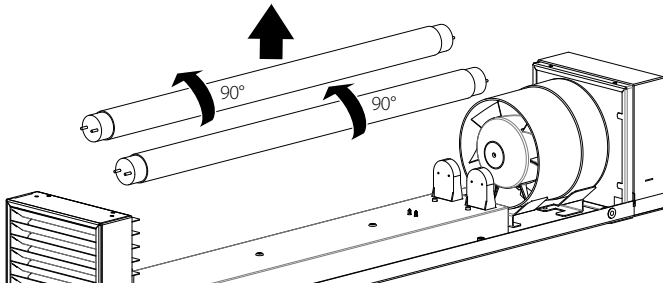
Remove the housing, remove the filter and rinse it under running water, dry it and put it place in its place. The grilles must be disinfected at the same time as replacing the filter.

Replace the filter as required, but at least every 4 months (3000 operating hours). For new filters contact the Seller.

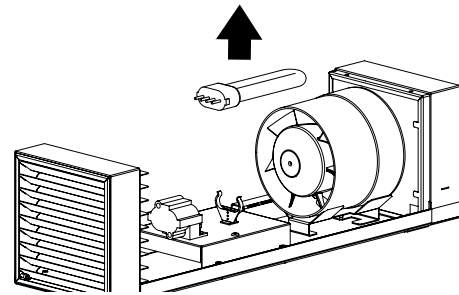
4. Replacement of lamps (as required or after the end of their service life ~8000-9000 hours of operation).



Remove the protecting housing.
 Carefully turn the used lamp counterclockwise until it clicks and remove it from the base.
 Insert a new lamp into the base by gently rotating it counterclockwise until it clicks.
 Assemble the unit in the reverse order.



Remove the protecting housing.
 Pull the lamp carefully out of the base.
 Insert the new lamp into the base until it clicks into place.
 Assemble the unit in the reverse order.



WARNING! If you notice a distinctive ozone odour, immediately disconnect the air recirculation unit from the power supply, instruct people to leave the room, turn on ventilation or open windows for thorough ventilation until the ozone smell disappears. If the ozone smell does not disappear when the air recirculation unit is switched on again, the ozone lamp must be replaced.

5. Disinfection (once a month).

Before switching on, the outer surfaces of the air recirculation unit, including the exhaust and supply grilles, must be treated with surface disinfectants.

TROUBLESHOOTING

PROBLEM	PROBLEM	POSSIBLE REASONS
When the air recirculation unit is turned on, the UV lamp does not light up, the fan does not start.	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot a connection error.
	The plug or cable is damaged.	Contact the Seller.
The UV lamp does not light up when the fan is running.	The UV lamp is out of order.	Replace the lamp.
	The control equipment of the lamp is damaged.	Contact the Seller.
Low air flow.	The filter or the fan is clogged.	Clean or replace the filter. Clean the fan.

If you cannot troubleshoot the problem yourself, contact the unit Seller.

STORAGE AND TRANSPORTATION REGULATIONS

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range from +5 °C to +40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors and chemical mixtures provoking corrosion, insulation, and sealing deformation.
- Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
- Follow the handling requirements applicable for the particular type of cargo.
- The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation and mechanical damage. The unit must be transported only in the working position.
- Avoid sharp blows, scratches, or rough handling during loading and unloading.
- Prior to the initial power-up after transportation at low temperatures, allow the unit to warm up at operating temperature for at least 3-4 hours.



DO NOT DISPOSE OF DEFECTIVE UV LAMPS IN THE HOUSEHOLD WASTE BIN, THEY MUST BE TAKEN TO A RECYCLING POINT!
THE PRODUCT IS DISPOSED OF SEPARATELY BY MATERIAL GROUPS IN ACCORDANCE WITH THE RELEVANT REGULATIONS

MANUFACTURER'S WARRANTY

The product is in compliance with EU norms and standards on low voltage guidelines and electromagnetic compatibility. We hereby declare that the product complies with the provisions of Electromagnetic Compatibility (EMC) Directive 2014/30/EU of the European Parliament and of the Council, Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council and CE-marking Council Directive 93/68/EEC. This certificate is issued following test carried out on samples of the product referred to above.

The manufacturer hereby warrants normal operation of the unit for 12 months after the retail sale date provided the user's observance of the transportation, storage, installation, and operation regulations. Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation, the user is entitled to get all the faults eliminated by the manufacturer by means of warranty repair at the factory free of charge. The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation. The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

The warranty repair does not include:

- routine technical maintenance
- unit installation/dismantling
- unit setup

To benefit from warranty repair, the user must provide the unit, the user's manual with the purchase date stamp, and the payment paperwork certifying the purchase. The unit model must comply with the one stated in the user's manual. Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismantled by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal components caused by the user.
- Redesign or engineering changes to the unit.
- Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in power mains.
- Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- Violation of the unit transportation regulations by the user.
- Violation of the unit storage regulations by the user.
- Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- Missing payment paperwork certifying the unit purchase.



FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.



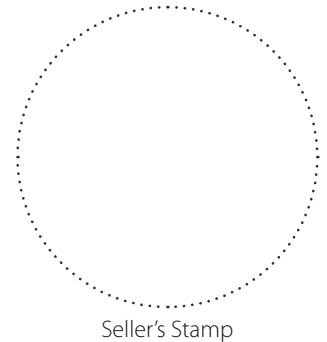
USER'S WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP.

CERTIFICATE OF ACCEPTANCE

Unit Type	UV air recirculation unit
Model	
Serial Number	
Manufacture Date	
Quality Inspector's Stamp	

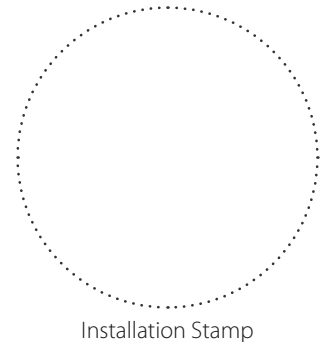
SELLER INFORMATION

Seller	
Address	
Phone Number	
E-mail	
Purchase Date	
This is to certify acceptance of the complete unit delivery with the user's manual. The warranty terms are acknowledged and accepted.	
Customer's Signature	



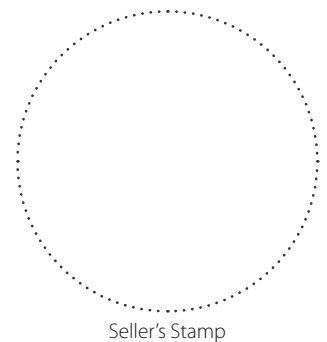
INSTALLATION CERTIFICATE

The unit _____ is installed pursuant to the requirements stated in the present user's manual.	
Company name	
Address	
Phone Number	
Installation Technician's Full Name	
Installation Date:	Signature:
The unit has been installed in accordance with the provisions of all the applicable local and national construction, electrical and technical codes and standards. The unit operates normally as intended by the manufacturer.	
Signature:	



WARRANTY CARD

Unit Type	UV air recirculation unit
Model	
Serial Number	
Manufacture Date	
Purchase Date	
Warranty Period	
Seller	





VENTS

