

USER MANUAL

BACTERICIDAL RECIRCULATOR

Antibact Air AA_-15(30)



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DEFINITIONS AND GENERAL INFORMATION

Bactericidal recirculator is a compact closed-type appliance using bactericidal ultraviolet light (UV radiation) for indoor air purification systems. The appliance is designed to operate both in the presence and in the absence of people in the disinfected room. The recirculator is safe for people, animals and plants. The product is designed to improve indoor air quality.

UV air purifiers inactivate and remove microorganisms such as viruses, bacteria, fungi and mould spores from indoor air in homes, offices and commercial buildings, providing better indoor air quality.

The use of ultraviolet bactericidal radiation is an effective preventive sanitary and anti-epidemic means aimed at suppressing the activity of microorganisms in the air and on surfaces.

WARNING! Do not look into open slots of the operating appliance, ultraviolet can harm your eyes.

WARNING! If you smell the ozone, turn off the appliance and ventilate the room. For further use of the appliance, please replace the ozone lamp.

DESIGNATION:

Bactericidal recirculators Antibact TM series Air AAV and Air AAH are designed for air disinfection in the rooms up to 165 m₃. It may be a room with a total area of 60 m₂ and standard ceiling height.

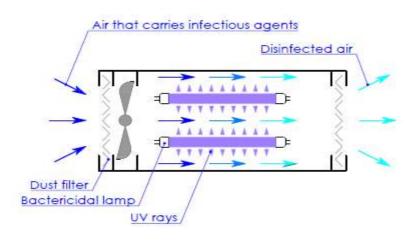
The main advantage of the Antibact Air AAV(H) recirculators is the continuous indoor disinfection in the presence of people.



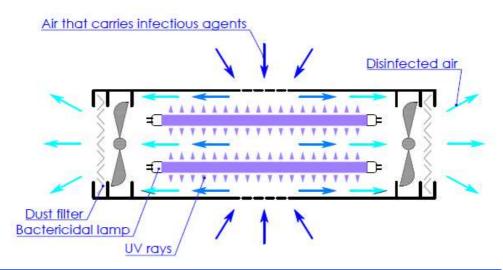
FEATURES:

- The Antibact Air recirculator is one of the systems to ensure the reduction of the spread of infectious diseases via airborne or droplets that conforms with mandatory current sanitary norms and rules for the arrangement and maintenance of rooms.
- The design of the appliance provides for its installation in the available air duct systems both in public places and at home.
- The airflow circulated through the irradiator is disinfected of viruses and bacteria by way of ultraviolet radiation with a wavelength of 253.7 nm.
- The Antibact Air recirculators contain ozone-free UV lamps to ensure safe operation of the appliance in the presence of people.
- Due to its modern design, the recirculator fits harmoniously into the interior of an apartment, house, office, commercial or residential premises and public places.

PRINCIPLE OF OPERATION ANTIBACT AIR AA_-15



PRINCIPLE OF OPERATION ANTIBACT AIR AA_-30





OPERATING OPTIONS

Recirculators are available in stationary and portable operating options.

STATIONARY OPERATION

- **1. Wall mount.** Installation on the wall in a horizontal or vertical position at a height 0.5-2.0 meters from the floor. The recirculator is equipped with a three-meter cable and a plug and is suitable for installation at any convenient height.
- 2. Floor. A metal stand is used for floor installation, must be ordered separately.

PORTABLE OPERATION

The design of the appliance ensures its portability. Portable recirculators can be installed horizontally (on a table, cabinet, etc.).

CAUTION! When installing the recirculator, make sure that the vents are at least 20 cm away from walls or surfaces so that the airflow is not restricted.

TECHNICAL DATA

	Antibact Air AA 15(30)-1	Antibact Air AA 15(30)-2	Antibact Air AA 15(30)-3
Recommended room area, up to	30(60) m ²	30(60) m ²	30(60) m2
Type of room	D, E	B, C, D, E	A, B, C, D, E
UVC radiation source	ozone-fr	ree bactericio	dal lamp
Number of lamps	1 pcs. 15(30) W	2 pcs. 15(30) W	3 pcs. 15(30) W
Service life of lamps		9000 hours	
Dominant wavelength		253.7 nm	
UVC power	4.9(12) W	9.8(24) W	14.7(36) W
Programmable timer	available		
Lamp operation indicators	1 pcs.	2 pcs.	3 pcs.
Dust filters	2(4) pcs.: 1(2) input + 1(2) output		
Electricity connection	three-me	eter cable wi	th a plug
Operating options	stationary and portable		
Absorbed power, up to	25(40) W	40(70) W	45(98) W
Power supply	220 V / 50 Hz		
Material		metal	
Weight	3.3(6.3) kg	3.5(6.6) kg	3. <i>7</i> (6.9) kg
Dimensions	126x127x	614 (126x127x	1214) mm

TYPES OF ROOMS						
Category	Type of room					
A (I)	Operating theatres, maternity, sterile zones, children's wards in maternity hospitals.					
B (II) Dressing wards, sterilization rooms, wards and departments for patients with weakened immune system, intensive care units, non-sterile areas, bacteriology virology laboratories, blood transfusion stations, pharmaceutical departments.						
C (III)	Wards, offices and other medical facilities not included in categories A, B.					
D (IV)	Playrooms for children, school classrooms, amenity rooms of industrial and public buildings constantly crowded by people.					
E (V)	Smoking rooms, public toilets and staircases of premises of medical institutions.					



TIMER

GENERAL CHARACTERISTICS

The electronic timer is used to turn ON / OFF the electrical appliance on the days specified by the user and programmed time intervals.

- 1.1. Power supply: 220V;
- 1.2. Input current: 16A;
- 1.3. Setting accuracy: 1 min;
- 1.4. Number of periods: 8 ON / OFF per day;
- 1.5. Hour format: 24-hour format:
- 1.6. Power supply: CR2032 battery;
- 1.7. The timer contains 15 combinations of programs for the user to select the desired days of the week.

AVAILABLE COMBINATIONS OF DAYS							
No.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	МО	TU	WE	TH	FR	SA	SU
2	MO						
3		TU					
4			WE				
5				TH			
6					FR		
7						SA	
8							SU
9	МО	TU	WE	TH	FR		
10						SA	SU
11	МО	TU	WE	TH	FR	SA	
12	МО	TU	WE				
13				TH	FR	SA	
14	МО		WE		FR		
15		TU		TH		SA	

FRONT TIMER PANEL BUTTONS DESCRIPTION

- 2.1. TIMER: view settings and programs;
- 2.2. MANUAL: select ON, AUTO, OFF;
- 2.3. CLOCK: set the day of the week and time;
- 2.4. DAY: set the day of the week;
- 2.5. HOUR: set the hour;
- 2.6. MIN: set minutes;
- 2.7. Reset timer settings;
- 2.8. LED ON: power indicator;
- 2.9. Press the 🔘 button to start setting.

TIMER SETTING

- 3.2. Press the TIMER button. The display will show $10^{N} 10^{-1}$
- 3.3. Press the DAY button to select one of 15 combinations of programs.
- 3.4. Press the HOUR and MIN buttons to set the hour and minutes to start the first period ($1^{\circ N}$).
- 3.5. After setting the start of the first period, press the TIMER button again, and the display will show
- 3.6. Press the DAY button to select one of 15 combinations of programs.
 The combination of days selected in each ON / OFF period of the program must be the same.
- 3.7. Repeat step three to set the time (hour and minute) of the end of the first period 1^{OFF} .
- 3.9. Repeat the setting procedure until all eight or only the desired number of periods have been completed
- 3.10. When the setting is complete, press the CLOCK button, and the timer will be ready to run programs.

SETTING DATE AND TIME

- 4.1. Press and hold the CLOCK button. Then press the buttons as follows:
- 4.2. the DAY button to set the day of the week; the HOUR button to set the hour; the MINUTE button to set minutes.
- 4.3. Press the TIMER button, and each of 8 programmed periods will display in turn.

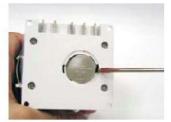
MANUAL CONTROL

- 5.2. Timer modes may be switched manually; automatic return to the program is available (only in the AUTO mode).
- 5.3. If the timer is ON (the red indicator flashes), you may turn it OFF by pressing the MANUAL button and switching the indicator from AUTO to OFF, and then back to AUTO. In this case, the timer will remain OFF until the next period (switching point) and will resume operating the program.
- 5.4. If the timer is OFF (the red indicator does not flash), you may turn it ON by pressing the MANUAL button and switching the indicator from AUTO to ON, and then back to AUTO. In this case, the timer will remain ON until the next period (switching point) and will resume operating the program.

BATTERY REPLACEMENT







RECIRCULATOR POWER SETTING - ON / AUTO / OFF

Power modes cannot be changed during program settings.

- 6.1. Press the MANUAL button to select one of the three modes.
- 6.2. Programs can only operate in the AUTO mode. If the AUTO mode is selected, the timer operates according to the settings. If the ON or OFF mode is selected, the timer does not operate and the programs are ignored. If the ON mode is selected, the power supply to the recirculator is always on, and the recirculator operates continuously. If the OFF mode is selected, the power supply is always off, and the recirculator does not operate.
- 6.3. When switching from the ON mode to the AUTO mode, the timer saves the ON mode settings until the next timer reset.



THE TIMER IS NOT WORKING

IMPORTANT! If, when the recirculator is connected to the mains, no information is displayed on the timer display, and the recirculator operates or does not operate at all, proceed as follows:

- 1. Wait one minute with the power on to charge the timer battery;
- 2. Press the round putton with a sharp object (e.g., a pen or a pencil), the timer will turn on and the recirculator with turn off (stop operating), if it has been operating before;
- **3.** For continuous operation of the recirculator, select the ON mode by alternately pressing the MANUAL button. After that, if necessary, set other timer settings.
- 4. If the above steps did not help, please contact the service centre.

Most often, such issue may occur after a long break in the operation of the recirculator when the power supply is disconnected. To avoid this, proceed as follows:

RECOMMENDATION. Do not unplug the recirculator. If you want to turn off the recirculator or vice versa, use the power modes OFF and ON on the timer, respectively. This will keep the battery charged, ensure stable timer memory, and prevent settings failure.

ANTIBACT AIR AAV(H)-15-X SERIES

AAV(H)-15-1



For rooms up to 12 m² Room category: D, E Number of lamps: 1 pcs. 15 W

AAV(H)-15-2



For rooms up to 21 m²
Room category: B, C, D, E
Number of lamps: 2 pcs. 15 W
each

AAV(H)-15-3



For rooms up to 30 m²
Room category: A,B,C,D,E
Number of lamps: 3 pcs. 15 W
each

ANTIBACT AIR AAV(H)-30-X SERIES

AAV(H)-30-1



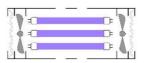
For rooms up to 25 m² Room category: D, E Number of lamps: 1 pcs. 30 W

AAV(H)-30-2



For rooms up to 40 m² Room category: B, C, D, E Number of lamps: 2 pcs. 30 W each

AAV(H)-30-3



For rooms up to 55 m² Room category: A,B,C,D,E Number of lamps: 3 pcs. 30 W each



UVC DISINFECTION TECHNOLOGY

Antibact Air AA_-15(30) recirculators apply bactericidal **ultraviolet radiation** in the UVC range (200-280 nm) for air disinfection.

Bactericidal lamps with the UV wavelength of 253.7 nm, which is the peak of maximum bactericidal sensitivity of microorganisms, are used for this purpose.

<u>UVC disinfection technology</u> is a physical method of disinfection, caused by photochemical reactions that lead to irreversible damage to the DNA and RNA of microorganisms. As a result, the microorganism receives a dose of UV radiation and dies instantly or loses its ability to reproduce (gets inactivated).

<u>Ultraviolet radiation</u> denotes electromagnetic rays with the range between X-rays and visible radiation (wavelength range from 100 to 400 nm).

BACTERICIDAL LAMP OPERATION INDICATOR FEATURES

When the recirculator is connected to the mains, there are three possible display options:

1

blue light:

the lamp is in working order;

2

- pink light:

the service life of the lamp has ended, the lamp needs to be replaced;

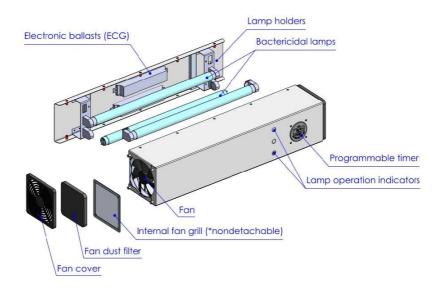
no light:

3

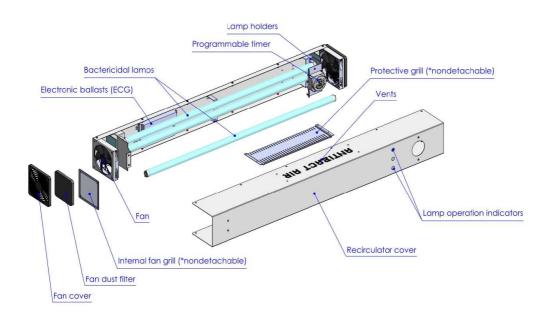
the lamp does not operate (the lamp is broken down, the contacts have come off the lamp holders, the trigger is out of order), contact the service centre.

RECOMMENDATION. If the indicator light does not flash, before contacting the service centre, please make sure that the lamp is installed in the lamp holders properly. For this purpose, open the base of the recirculator, remove the lamp and install it again in the lamp holders by rotating it until you hear clicking sound.

AA_-15-X SERIES DESCRIPTION



AA -30-X SERIES DESCRIPTION



BACTERICIDAL LAMPS OPERATION INDICATORS

The number of indicators depends on the recirculator model.

AA_-15(30)-1

AA_-15(30)-2 (2 bactericidal lamps)

AA_-15(30)-3(3 bactericidal lamps)

(1 bactericidal lamp)



One indicator corresponds to one lamp.

For example, if one lamp of the Antibact Air AAV-15-2 recirculator is broken down, the corresponding indicator does not flash while the other ones flash.



- bactericidal lamp operation indicator

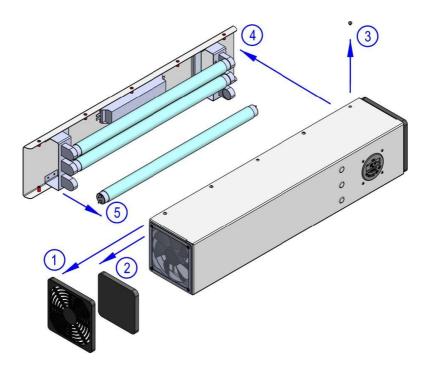


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ANTIBACT AIR AAV(H)-15-X SERIES USER MAINTENANCE

<u>User maintenance</u> is a prerequisite for operating the appliance to meet the warranty period guaranteed by the manufacturer.

Cleaning/replacement of dust filters and bactericidal lamps



Before starting the procedure, disconnect the appliance from the mains!

- 1) Disconnect the appliance from the mains. Pull the fan protective cover to remove it;
- 2) Remove dirty dust filters and rinse thoroughly under water or replace with new ones;

RECOMMENDATION: In rooms with increased pollution of dust, other small organic and mineral particles (e.g., poultry farms, pigsties, etc.), it is recommended to wash or change filters and clean the recirculator at least once a week.

- 3) Unscrew 10 screws on the recirculator body;
- 4) Pull the rear end cover of the recirculator to open it;

ATTENTION! Do not damage the electrical wires that connect the timer on the front end cover to the electronics on the opposite end cover. After disconnecting the body of the recirculator, keep its halves together, as there are connecting wires between them.

5) If necessary, replace the bactericidal lamp. To do this, rotate the lamp until you hear clicking sound and pull it out of the lamp holders, holding both ends. Then install a new lamp in the lamp holders by rotating it 45 degrees clockwise until you hear clicking sound;

The reasons for replacing bactericidal lamps are set out in the section "Bactericidal lamp operation indicator features" (p. 14)

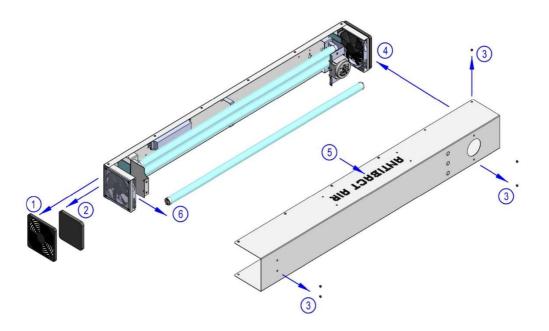
6) Assemble the recirculator body. To do this, repeat the procedure in reverse order.

ATTENTION! If the bactericidal lamp is broken, the visible drops of mercury must be collected with a rubber bulb or a cloth soaked in oil. Wear thick rubber gloves and carefully collect all the chips. Wash the area where the lamp broke with 1% potassium permanganate solution. Ventilate the room.

ANTIBACT AIR AAV(H)-30-X SERIES USER MAINTENANCE

<u>User maintenance</u> is a prerequisite for operating the appliance to meet the warranty period guaranteed by the manufacturer.

Cleaning/replacement of dust filters and bactericidal lamps



Before starting the procedure, disconnect the appliance from the mains!

- 1) Disconnect the appliance from the mains. Pull the fan protective cover to remove it;
- 2) Remove dirty dust filters and rinse thoroughly under water or replace with new ones;

RECOMMENDATION: In rooms with increased pollution of dust, other small organic and mineral particles (e.g., poultry farms, pigsties, etc.), it is recommended to wash or change filters and clean the recirculator at least once a week.

- 3) Unscrew 4 screws on the front of the recirculator cover and 12 screws on the sides of the body of the recirculator;
- 4) Pull the rear end cover of the recirculator body to open it;

Unlike AAV(H)-15-X, AAV(H)-30-X series have all wiring and electronic equipment located on the rear end cover of the recirculator. The front end cover can be removed freely.

- 5) Carefully remove dust from the vents (in the form of the inscription "ANTIBACT AIR") and the protective grill;
- 6) If necessary, replace the bactericidal lamp. To do this, rotate the lamp until you hear clicking sound and pull it out of the lamp holders, holding both ends. Then install a new lamp in the lamp holders by rotating it 45 degrees clockwise until you hear clicking sound;

The reasons for replacing bactericidal lamps are set out in the section "Bactericidal lamp operation indicator features" (p. 14)

7) Assemble the recirculator body. To do this, repeat the procedure in reverse order.

ATTENTION! If the bactericidal lamp is broken, the visible drops of mercury must be collected with a rubber bulb or a cloth soaked in oil. Wear thick rubber gloves and carefully collect all the chips. Wash the area where the lamp broke with 1% potassium permanganate solution. Ventilate the room.

RECURRING MAINTENANCE

<u>Recurring maintenance</u> is a prerequisite for operating the appliance to meet the warranty period guaranteed by the manufacturer.

To do this, proceed as follows:

- 1. Remove the external and internal dust filters and rinse under running water. If the filters are worn out (frayed, torn, with holes), replace them with new ones.
- 2. Wipe the bactericidal lamps thoroughly with cotton pads soaked in alcohol.
- **3.** Carry out wet sanitation by wiping the recirculator from dust with a damp cloth (outside and inside).
 - 4. Clean and lubricate the moving rotating parts of the fans.

The frequency of maintenance depends on the level of dust pollution in the room and the duration (amount of time) of operating the recirculator. For example:

- In living rooms, it is recommended to carry out wet sanitation every three months, wash filters and wipe lamps once a month, and lubricate fans once a year.
- In very dusty areas (e.g., poultry farms, pigsties, etc.), it is recommended to carry out wet sanitation once a month, lubricate fans once a year, wash filters and wipe lamps at least once a week.
- In case of continuous round-the-clock operation of the recirculator, it is necessary to lubricate fans at least once a month.
- In case of unusual noise coming from the recirculator, lubricate fans immediately.

LAMP OPERATION INDICATOR IS NOT FLASHING

If, when the recirculator is switched on for the first time, the lamp operation indicator does not flash, make sure that the bactericidal lamp is properly installed in the lamp holders.

For this purpose, unplug the recirculator, open the base of the recirculator, remove the lamp and install it again in the lamp holders by rotating it clockwise 45 degrees until you hear clicking sound.

If the above steps did not help, please contact the service centre.



COMMON MICROORGANISMS KILLED BY THE RECIRCULATOR

VIRUSES:

COVID-19, Avian Influenza H5N1, Swine Influenza, Influenza C Serotype, Influenza A (A/H1N1, A/H1N2, A/H3N1, A/H32 i A/H2N3) serotypes, Adano Virus Type III, Bacteriophage (E.Coli), Coxsackie A2, Infectious Hepatitis, Influenza, Rotavirus, Tobacco Mosaic, Caudovirales, Herpesvirales, Mononegavirales, Nidovirales, Picornavirales, Tymovirales.

BACTERIA:

Agrobacterium Lumefaciens, Bacillus Anthracis, Bacillus Anthracis Spores, Bacillus Mogatbeitiwin Sp.(veg), Bacillus Megathaflum Sp.(spores), Bacillus Paratyphosus, Bacillus Subtilis, Bacillus Suptilis Spores, Clostridium Tetani, Clostridium Botulinum, Corynebacterium Diphteriae, Desintery Eberthella Typhosa, Escherichia Coli, Leaionella Bozemanii, Leaionella Dumoffil, Legionella Gormanil, Legionella Longbeachae, Legionella Peumophila (Legionnaire's Disease), Leptospiracaunicola-Infectious, Jaundice, Leptospira Interrogans, Micrococcus Candidus, Pseudomonas Aeruginosa (Environmental Strain), Pseudomonas Aeruginosa (Lab.Stain), Rhodospirillum Rubrum, Salmonella Enteridis, Salmonella Paratyphi (Enteric Fever), Salmonella Species, Salmonella Typhimurium, Salmonella Typhosa (Typhoid Fever), Salmonella, Sarcina Lutea, Shigella Dysenteriae-Dysentery, Shigella Paradysenteriae, Shigella Sonnei, Spirillum Rubrum, Staphylococcus Aurous, Staphylococcus Epidermidis, Streptococcus Faecaila, Streptococcus Hemolyticus, Streptococcus Pyrogenes, Streptococcus Salivarius, Streptococcus Viridans, Vibrio Comma (Cholern), Vibrio Cholerae.

SPORES:

Firmicutes, Gram-positive Bacilli, Endospores, Exospores, Cysts, Bdellovibrio (Bdelocysts), Myxococcus (Myxospores), Conditiospores, Sporangiospores, Zygomycetes, Ascospores, Basidiospores, Aeciospores, Urediniospores, Teliospores, Oospores, Rhodophyta, Carpospores, Tetraspores.

YEAST FUNGI:

Bakery, beer and confectionery yeasts, Saccharomyces Cerevisisiae, Saccharomyces Ellipsoideus, Azotobacter, Actinobacteria, Anaerobacter, Heliobacterium, Clostridium, Saccharomyces Sp., Methylosinus.

FUNGI:

Blastocladiomycota, Chytridiomycota, Glomeromycota, Microsporidia, Neocallimastigomycota, Zygomycota, Ascomycota, Basidiomycota, Deuteromycota.

MOID:

Aspergillus Amstelodami, Aspergillus Flavus, Aspergillus Glaucus, Aspergillus Niger (breed mold), Mucor Mucedo, Mucor Racemosus (A&B), Oospore l_acris, Penicillium Chrysogenum, Penicillium Digitatum, Penicillium Expansum, Penicillium Roqueforti, Rhizopus Nigricans.

PROTOZOA:

Clorella Vulgaris (algae), Blue-Green Algae, E.Hystolytica, Giardia Lamblia (cysts), Nematode Eggs, Paramecium, Microspora, Mycobacterium Tuberculosis, Neissera Catarrhalis, Phytomonas Tumefaciens.

BACTERICIDAL LAMPS SERVICE LIFE LOGBOOK GUIDELINES

The nominal service life of the bactericidal lamp is 9000 hours.

Bactericidal lamps that have been used for 9000 hours must be replaced with new ones. For this purpose, it is necessary to keep track of the lamp operating time. During the lamp operation, the bactericidal flow decreases. To compensate for this, after the end of 1/3 of the nominal service life (3000 hours) increase the initially established duration of irradiation by 1.2, and after 2/3 of the period (6000 hours) - by 1.3. Records of the operating time of the recirculator and the change in its duration must be kept in the logbook. A sample logbook is provided below.

SAMPLE LOGBOOK

Date	Time turn on	Time turn off	Hours operated	Responsible person	Signature	Notes

TRANSPORTATION AND STORAGE

- **1.** Transportation is carried out in packaging in compliance with measures of protection against external damage and accordance with state standards for the transportation of goods.
- **2.** Transportation is possible at temperatures ranging from -25 °C to + 45 °C. After transportation in winter or after being stored in a cold room (t <5 °C), keep the recirculator at room temperature for 1-2 hours.
- **3.** Store the recirculator in manufacturer's packaging indoors at temperatures from +5 °C to +40 °C and relative humidity up to 80%. The air must not contain corrosive additives.

CERTIFICATES

Valid documentation confirming the requirements of quality and conformance to the State Standards of Ukraine guaranteed by the manufacturer:

Certificate of Conformity No	_
Valid from to	
Conclusion of the Ministry of Health of SE	-S Of
	.5 01
Ukraine No	
ORIGINO 140.	
Valid from to	
7 dila 110111101	
Declaration of Conformity No	
Valid from to	
Verification Certificate No	
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Valid from to	
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PACKAGE AND MODEL

RECIRCULATOR MODEL

"Δ	ntib	act" TM recirculator, series Antibact Air, type AA15-X, model:				
		Antibact Air AAH-15-1				
		Antibact Air AAH-15-2				
		Antibact Air AAH-15-3				
		Antibact Air AAV-15-1				
		Antibact Air AAV-15-2				
		Antibact Air AAV-15-3				
" Δ	ntih	act" TM recirculator, series Antibact Air, type AA30-X, model:				
		Antibact Air AAH-30-1				
	П	Antibact Air AAH-30-2				
	П	Antibact Air AAH-30-3				
	П	Antibact Air AAV-30-1				
		Antibact Air AAV-30-2				
		Antibact Air AAV-30-3				
1	Auxil	iary accessories:				
		a set of dust filters (4 pcs.)				
		dust filter pcs.				
		bactericidal lamp pcs.				
		metal stand for floor installation				
W	HA]	I'S IN THE PACKAGE:				
1.	Pad	cking box1pcs.				
2.	Red	circulator1pcs.				
3.	User Manual					
4.	Warranty Certificate					

ACCEPTANCE CERTIFICATE

Serial production household bactericidal recirculator No DKPP code, UKTZED code, article No. 26.60.13, produced subject to DSTU EN 60601-1:2015 "Medical electrical equipment. Part 1. General safety requirements and basic technical specifications", fit for service. Scope of application and sales of the object: for household and medical use.				
Packed by No				
Responsible person $_{ extstyle -}$	(name, surname, patronym	nic)	(signature) PLACE FOR SEAL	
Manufacture date _		_20		
Good working order of the appliance has been checked. I have no complaints about the appearance and supply package of the product				
		(3	signature of the Purchaser)	

WARRANTY

The warranty period is **12 months** from the date of sale. The date of sale is indicated by the trading company in the Warranty Certificate, which is attached separately.

The Warranty Certificate is an integral part of the User Manual.

A blank Warranty Certificate or its absence authorises the manufacturer to refuse warranty service for the product.

MANUFACTURER



"Antibact Air" TM®

"COMPANY "VOLT SERVICE GROUP" LLC

Production area: 40 Ushynskoho Street, Kyiv, 03151, Ukraine

Office address: 7 L. Pervomaiskoho Street,

Kyiv, 01133

tel.: +38 (044) 251-33-25

website: https://antibactair.com







