

UV GERMICIDAL AIR STERILIZER “ISTOK BREEZE”

Models:

ISTOK BREEZE 30

ISTOK BREEZE 60

ISTOK BREEZE 120

ISTOK BREEZE 1200



User manual

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INTRODUCTION

Congratulations on the purchase of your UV germicidal air sterilizer ISTOK BREEZE! You have chosen a modern and reliable device.

The UV air sterilizer ISTOK BREEZE is designed for indoor air disinfection with ultraviolet germicidal radiation which effectively destroys various airborne microorganisms (viruses, coronaviruses, bacteria, spores, etc.).

ISTOK BREEZE

The application of the ISTOK BREEZE air sterilizers is almost unlimited: households, waiting rooms, office rooms, elderly homes, hotel rooms, kindergartens and schools, industrial, commercial and sports facilities etc. everywhere, where many people are in a room with a high risk to get infected.

Please read this User Manual carefully in order to correctly set up the UV air sterilizer ISTOK BREEZE and use it to its full potential.

IMPORTANT NOTE! NEVER look directly at the UV Light while it is illuminated. Direct UV light can cause skin or eye damage.

DO NOT switch on the sterilizer with the cover removed! UV lamps must be covered at all times during operation.

IMPORTANT NOTE! Observe safety regulations while working with 230±20% V, 50Hz circuit.

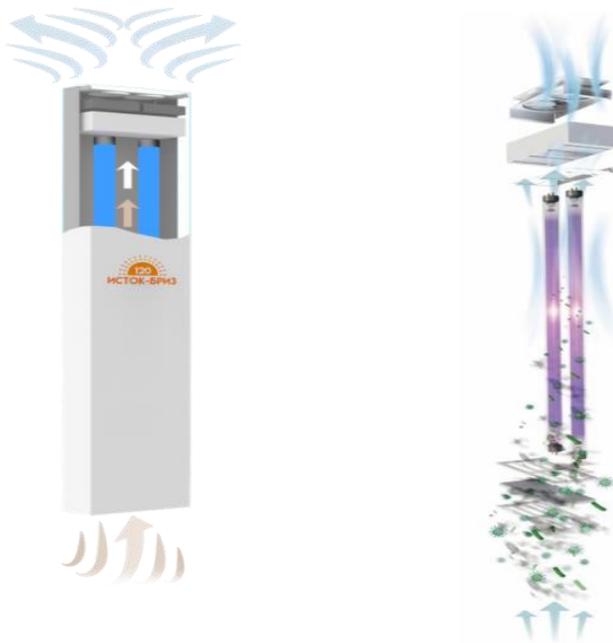
HOW DOES THE AIR STERILIZER ISTOK-BREEZE WORK

Ultraviolet light is scientifically proven to be a natural germicide. UV radiation effectively destroys a large variety of micro-organisms such as viruses, germs, bacteria and fungi in seconds by breaking molecular bonds in their DNA, rendering them unable to reproduce.

The UV air sterilizer ISTOK BREEZE is an airflow exchange chamber with built-in UV lamps and a fan equipped with a pre-filter and a control panel.

The room air sucked into the ISTOK BREEZE sterilizer first passes the pre-filter shutting out solid particulates such as dust and pollen, and then it is exposed to UV radiation inactivating airborne pathogens and microorganisms. As a result the source of infections and bad odour is removed and the clean healthy air is expelled out.

UV air sterilizers ISTOK BREEZE provide active constant circulating the entire volume of air in a room multiple times per hour, ensuring maximum efficiency of disinfection.



IMPORTANT SAFETY PRECAUTIONS

The air sterilizers ISTOK BREEZE are subject to all safety requirements for the operation of electrical equipment powered by 230±20% V, 50 Hz, including the following:

- Read this manual before using the appliance.
- To avoid fire or shock hazard, connect the appliance to a grounded electrical outlet.
- Do not use a power cord with inappropriate specifications for the appliance.
- Ensure that the power plug is easily accessible during use.
- DO NOT operate the appliance with a damaged cord or plug.
- Keep the cord out of heavy traffic areas. To avoid fire hazard, NEVER put the cord under rugs, near heat registers, radiator, stoves, or heaters.
- Always unplug the air sterilizer before moving it, changing filters or lamps, cleaning or whenever the air sterilizer is not in use. Be sure to pull by the plug and not the cord.
- Save the appliance from shocks and falling.
- To protect against electrical hazards, DO NOT immerse in water or other liquids. Do not use near water.
- Close supervision is necessary when the appliance is used by or near children, or by disabled people.
- NEVER drop or insert any object into any openings.
- Use appliance only as specified in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- DO NOT use outdoors.
- NEVER block the air openings or place on a soft surface such as a bed or sofa, as this could cause the appliance to tip over, blocking the air Intake opening.
- Keep the sterilizer away from heated surfaces and open flames.
- **NEVER** look directly at the UV Light while it is illuminated. Direct UV light can cause skin or eye damage. Do not switch on the sterilizer with the cover removed! UV lamps must be covered at all times during operation.
- DO NOT attempt to repair or adjust any electrical or mechanical functions on this appliance. All servicing should be performed by qualified personnel only.

Save this User manual!

TECHNICAL SPECIFICATIONS

Model	ISTOK BREEZE 30	ISTOK BREEZE 60	ISTOK BREEZE 120	ISTOK BREEZE 1200
UV radiation source	UV bactericidal lamps			
	1 x TUV15 T5	2 x UVC15 T8 G13	2 x UVC30 T8 G13	6 x UVC30 T8 G13
Wavelength	254 nm			
Airflow productivity	30 m ³ /h	60 m ³ /h	120 m ³ /h	1200 m ³ /h
Protection from direct UV light	Full			
Average lamp service life	9000 h			
Lamp service life counter	no	yes		
Lamp fault detection	no	yes		
Pre - filter	no	yes		
Display	no	yes		
Timer	no	yes		
Remote control	no	no	no	yes
Dimensions	442x76x76 mm	664,5x194x86,6 mm	1114,5x194x86,6 mm	1047x340x340 mm
Weight	1.5 kg	5.5 kg	8.5 kg	17 kg
Nominal operating voltage, frequency	230±20% V, 50 Hz			
Power consumption	20 W	50 W	75 W	240 W
Service life	5 years			
Operating conditions: Ambient air temperature	10-35°C			

Relative humidity	Maximum 80% at +25 °C
Maximum elevation	up to 2000 m
Designed for use in environments of pollution degree 2	

*Manufacturer retains the right to replace component units with analogues, installation of which does not change sterilizer's technical characteristics.

IN THE BOX

1. UV air sterilizer **ISTOK BREEZE 30** standard set:

Sterilizer ISTOK BREEZE 30	12 V AC power adaptor	Wall bracket
		
Screws for wall bracket		User manual
		

2. UV air sterilizer **ISTOK BREEZE 60** standard set:

Sterilizer ISTOK BREEZE 60	Power cord	Spare dust filters (11 pcs.)	User manual
			
Spare fuse 1,5 A, 250V	Screws with dowels	Movable stand (purchased as accessory)	
			

3. UV air sterilizer **ISTOK BREEZE 120** standard set:

Sterilizer ISTOK BREEZE 120	Power cord	Spare dust filters (11 pcs.)	User manual
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Spare fuse 1,5 A, 250V	Screws with dowels	Movable stand (purchased as accessory)	
			

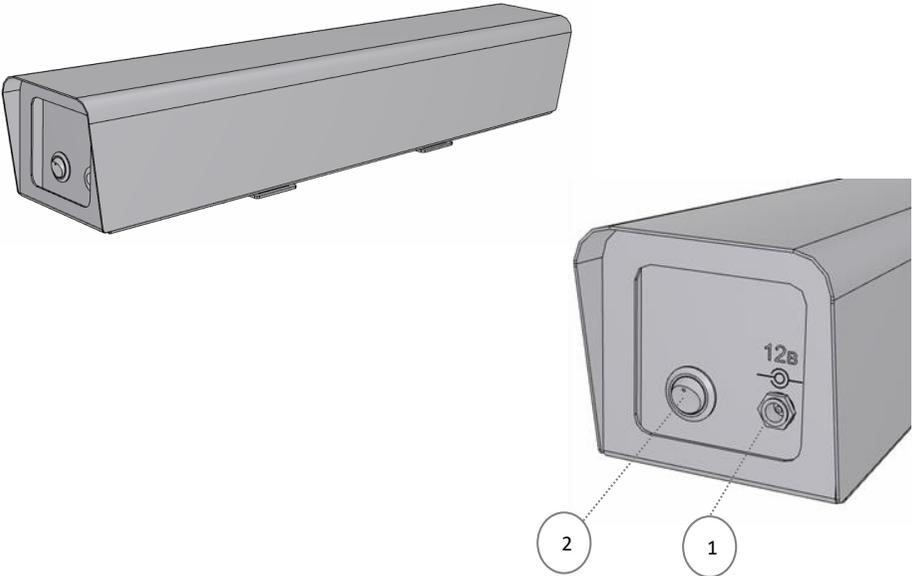
4. UV air sterilizer ISTOK BREEZE 1200 standard set:

ISTOK BREEZE 1200	Power cord	2 x Chassis
		
4 x Screws	Remote control	User manual
		

*The supplied accessories may differ from the illustration.

OVERVIEW

ISTOK BREEZE 20



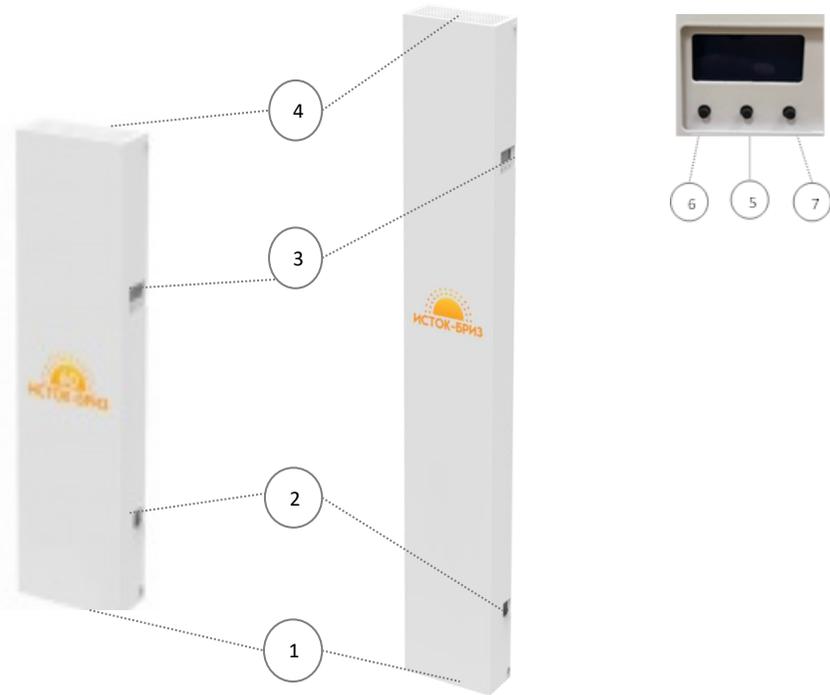
(1) Power inlet

(2) Power switch

ISTOK BREEZE 60

ISTOK BREEZE 120

Control panel



(1) Low grill - Air intake

(2) Power switch

(3) Display with control panel

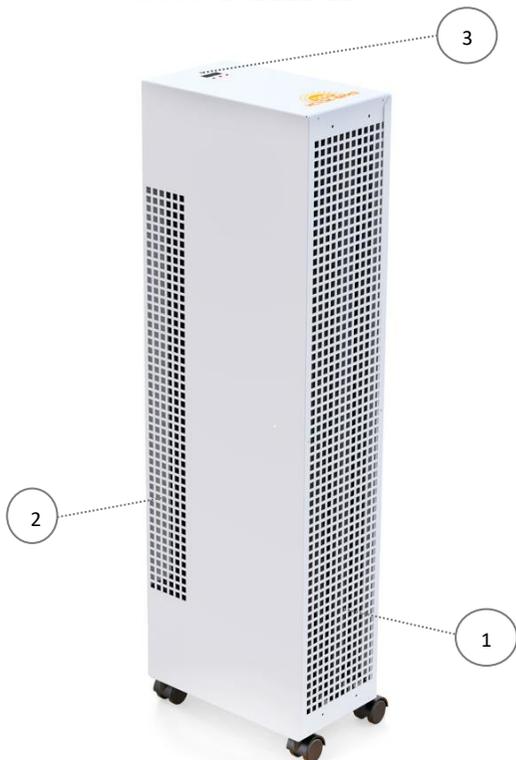
(4) Upper grill – Air outlet

(5) Switch between Timer and Airflow settings

(6) Timer/Airflow down button

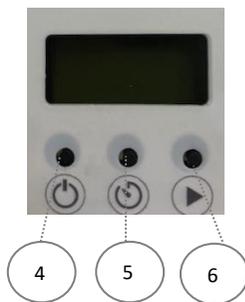
(7) Timer/Airflow up button

ISTOK BREEZE 1200



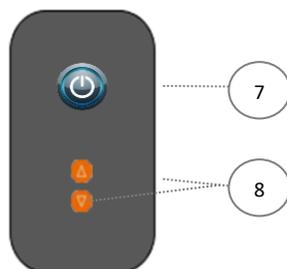
- (1) Air intake grill
- (2) Air outlet grill
- (3) Display with control panel

Control panel



- (4) On/Off button
- (5) Timer On button
- (6) Timer/Airflow setting button

Remote control



- (7) On/Off button 
- (8) Fan speed up/down buttons

GETTING STARTED

UNPACKING

Carefully remove the ISTOK BREEZE from the packing materials.

After transportation or storage, keep the sterilizer for at least 2 hours at room temperature before being connected to the mains and switched on.

INSTALLATION

Choose the sterilizer location so that the air intake and air outlet operate unimpeded, providing the best air circulation in the room. Avoid installing in corners of the room. Ensure no grilles are blocked.

Depending on the model place the sterilizer on the chosen place:

ISTOK BREEZE 30 could be placed either horizontally on the solid surface (e.g. desk, shelf, wall etc.) or vertically on the wall installed with the supplied wall bracket and the screws.



Figure 1 Attachment to the wall

ISTOK BREEZE 60/120 should be placed only vertically on the wall or on the movable stand (purchased as accessory).

Fix the sterilizer on the wall with the screws and dowels (supplied) with the appliance lower edge approximately 1,0 – 1,5 m from the floor. Ensure no grilles are blocked.

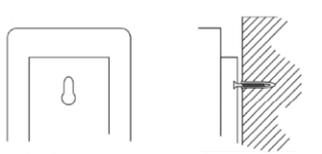


Figure 2 Attachment to the wall

When using the movable stand (purchased as accessory), assemble the stand as shown on the following picture (Figure 3) and attach the sterilizer to the stand with the screws.



Figure 3 - Assembly of the movable stand

ISTOK BREEZE 1200 should be placed horizontally on the wall or vertically on the floor on the supplied chassis.

Fix the sterilizer horizontally on the wall with the screws and dowels (not supplied) through the holes on the back of the appliance. Ensure the mount will support the sterilizer weight.



Figure 4 Attachment to the wall

To place the sterilizer on the floor, fix the chassis with the screws (supplied) through the holes on the bottom of the sterilizer as shown on the following picture (Figure 5)

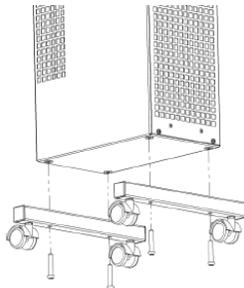


Figure 5 – Fixing the chassis

TURNING ON/OFF

To turn on ISTOK BREEZE 30:

Plug the power adaptor into a mains socket. Switch on the Power switch (2) on the front of the sterilizer.

After finishing the operation, switch off the Power switch (2) and unplug the power adaptor from the mains.

To turn on ISTOK BREEZE 60/120:

Plug the power cord into a grounded mains socket. Switch on the Power switch (2) on the side of the sterilizer. The Power switch (2) lights up red.

The display on the side of the sterilizer lights up with the welcome screen showing the sterilizer's model name:



The sterilizer automatically starts operating. Simultaneously for the first few seconds the sterilizer does self-testing, checking the lamps and the fan, and shows the results on the screen:



As soon as the self-testing is finished the display shows Lamp service life counter:



And the sterilizer keeps on working in the preset mode. The first time you turn on the air sterilizer ISTOK BREEZE 60/120 the preset mode is the maximum airflow: 60 m³/h for ISTOK BREEZE 60 and 120 m³/h for ISTOK BREEZE 120.

After finishing the operation, switch off the Power switch (2) and unplug the power cable from the mains.

To turn on ISTOK BREEZE 1200:

Plug the power cord into a grounded mains socket. The sterilizer beeps.

Switch on the sterilizer with the On/Off button (4) on the Control panel or button  (7) on the remote control.

The display on the top of the sterilizer lights up with the welcome screen showing the sterilizer's model name:

**BREEZE
1200**

The sterilizer automatically starts operating. Simultaneously for the first few seconds the sterilizer does self-testing, checking the lamps and the fan, and shows the results on the screen:

**Lamps OK
Fan OK**

*If case of the lamps failure an error message showing the error code is displayed on the screen.

**Lamps
Error222**

If case of the fan failure an error message showing the error code is displayed on the screen.

**Fan
Error 1**

See the error codes in the Appendix 1.

As soon as the self-testing is finished the display shows Lamp service life counter:

**Lamps
lifetime**

**0000h
of 9000h**

After finishing the operation, switch off the sterilizer with the Power On/Off

button (4) on the Control panel or button  (7) on the remote control. In case of a long non-use of the sterilizer it's recommended to unplug the power cable from the mains.

SETTINGS

AIRFLOW MANAGEMENT

The **ISTOK BREEZE 30** can operate only in one set mode 30 m³/h.

The **ISTOK BREEZE 60/120** can be programmed to run and disinfect the room automatically for a certain period of time throughout an hour depending on the room volume (m³).

To run Airflow management, use button (5) on the control panel to choose Airflow setting. With the buttons (6) or (7) set the room volume which you need to disinfect:

ISTOK BREEZE 60 - from 10 to 60 m³;

ISTOK BREEZE 120 - from 10 to 120 m³.

The following table shows the switching cycles depending on the set room volume:

ISTOK BREEZE 60			ISTOK BREEZE 120		
Room volume, m ³ (Airflow)	The sterilizer is running, min	The sterilizer is off, min	Room volume, m ³ (Airflow)	The sterilizer is running, min	The sterilizer is off, min
10 m ³	5 min	55 min	10 m ³	5 min	55 min
20 m ³	10 min	50 min	20 m ³	10 min	50 min
30 m ³	15 min	45 min	30 m ³	15 min	45 min
40 m ³	20 min	40 min	40 m ³	20 min	40 min
50 m ³	25 min	35 min	50 m ³	25 min	35 min
60 m ³	30 min	30 min	60 m ³	30 min	30 min
			70 m ³	35 min	25 min
			80 m ³	40 min	20 min
			90 m ³	45 min	15 min
			100 m ³	50 min	10 min
			110 m ³	55 min	5 min

			120 m ³	60 min	0 min
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The incorrect set room volume can result in reducing the lamps service life if the set airflow is too big or in ineffective disinfection if the set airflow is too small.

The sterilizer remembers the programmed airflow and every time you turn it on the appliance automatically starts working in the set mode.

In **ISTOK BREEZE 1200** airflow management is controlled with fan speed adjustment and turning-on/off schedule.

There are three fan speed options or airflow rates: low (400m³/h), medium (800m³/h), and high (1200m³/h). To change airflow rate press button (6) on the

Control panel or buttons (8)   on the remote control till the desired rate.

The **ISTOK BREEZE 1200** can be programmed to turn on and off automatically according to the set schedule.

To set schedule press Timer On button (5) several times till the following message appears on the screen:

**Schedule
Off**

With the buttons (4) and (5) choose the option you want. The first (left) figure refers to operation time, the second (right) figure refers to the downtime.

**Schedule
8/16**

When the schedule is on the letter “S” appears on the screen next to the airflow rate.

**Airflow
400 m³ S**

NOTE! The set schedule is still stored once the sterilizer is switched off and then turned on.

TIMER

The programmable timer allows you to run the air sterilizer at your convenience, for up to 12 hours, and automatically turns the power off when time is up, to help reduce energy costs.

To set the timer on the **ISTOK BREEZE 60/120**, press button (5) on the control panel to choose Timer setting. The message “Timer OFF” is displayed on the screen. With the buttons (6) or (7) set the desired operation time of the sterilizer from 10 minutes to 12 hours. The time changes by 10 minutes each time you press either of the buttons. The run time is then started automatically. The time appears on the screen.



Timer
1h 10m

When the timer is on the letter “**t**” appears on the display.



Airflow
60 m³ t

When the timer runs out the sterilizer stops working automatically. To turn it on press any button on the Control panel.

To set the timer on the **ISTOK BREEZE 1200**, press Timer On button (5) on the control panel to choose Timer setting. The message “Timer OFF” is displayed on the screen. With the Timer setting button (6) on the Control panel set the desired operation time of the sterilizer from 10 minutes to 12 hours. The time changes by 10 minutes each time you press either of the buttons. The run time is then started automatically. The time appears on the screen.



Timer
1h 10m

When the timer is on the letter “**t**” appears on the screen next to the airflow rate.



Airflow
400 m³ t

When the timer runs out the sterilizer stops working automatically. To turn it on press On/Off button (4) on the Control panel or button  (7) on the remote control.

CARE AND MAINTENANCE

CLEANING THE OUTSIDE PARTS

Use a soft, damp cloth to wipe the external surface of the air sterilizer.

To ensure a good performance of the sterilizer over time it is recommended to carry out annual maintenance in the specialized service center. If the air sterilizer requires maintenance, disconnect the appliance from the mains and contact your local ISTOK BREEZE dealer.

IMPORTANT NOTE! All maintenance and repair operations must be performed only by qualified and specially trained personnel.

REPLACING THE PRE-FILTER

IMPORTANT NOTE! Replacement must be performed only by qualified and specially trained personnel.

1. The sterilizer **ISTOK BREEZE 60/120** is supplied with 11 spare dust filters.

The performance of the sterilizer depends on the timely dust filter replacement. The dust filter at the bottom of the air sterilizer should be checked monthly and cleaned or replaced when it becomes clogged with dust. This maintenance operation is performed by the user

IMPORTANT NOTE! Always unplug the sterilizer from the mains before changing the dust filter!

To replace the filter:

1. Switch off the sterilizer and disconnect it from the mains power.
2. Unclip the lower grill (1), which is fixed with the magnet, pulling it downwards.
3. Take the grill out from the grooves and remove the dust filter.
4. Place a new filter.
5. Reverse the above procedures to reassemble.

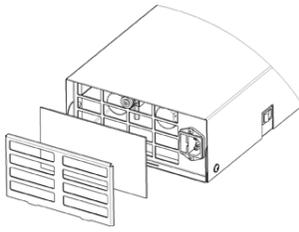


Figure 6 – Replacing the dust filter in ISTOK BREEZE 60/120

If the air sterilizer requires maintenance, disconnect the appliance from the mains and contact your local ISTOK BREEZE dealer.

All maintenance and repair operations must be performed only by qualified and specially trained personnel.

2. The sterilizer **ISTOK BREEZE 1200** is equipped with a carbon filter to shut out solid particulates such as dust and pollen.

The performance of the sterilizer depends on the timely carbon filter replacement. The carbon filter should be replaced at least once a year. If the sterilizer is used in dusty conditions the carbon filter should be replaced more often.

IMPORTANT NOTE! Always unplug the sterilizer from the mains before changing the carbon filter!

To replace the filter:

1. Switch off the sterilizer and disconnect it from the mains power.
2. Unscrew the two screws on the front part of the sterilizer and open the cover.
3. Gently remove the filter from the holder.
4. Place a new carbon filter in the holder.
5. Close the cover and fix it with the screws.

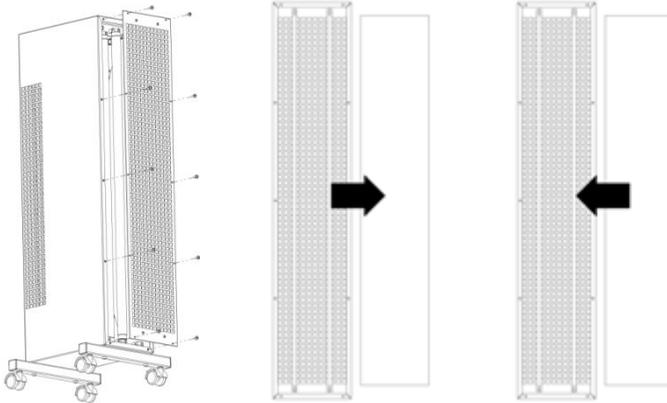


Figure 7 – Replacing the dust filter in ISTOK BREEZE 1200

REPLACING THE FUSE

IMPORTANT NOTE! Replacement must be performed only by qualified and specially trained personnel.

IMPORTANT NOTE! Always unplug the sterilizer from the mains before changing the carbon filter!

NOTE! Use the correct ampere rating when replacing the fuse:

Model	Fuse rating
ISTOK BREEZE 60/120	1,5 A, 250V
ISTOK BREEZE 1200	3,15 A, 250 V

1. Switch off the sterilizer and disconnect it from the mains power.
2. Disconnect the power cord from the DC input.
3. Unscrew the fuse holder cap next to the DC input with the flat-blade screwdriver.
4. Check the fuse and replace if necessary with a new one.
5. Screw the fuse holder cap back.

REPLACING THE UV LAMPS

IMPORTANT NOTE! Replacement must be performed only by qualified and specially trained personnel.

UV lamp replacement is necessary in case of a UV lamp failure or at the end of manufacturer specified service life.

Average lamps service life is 9000 hours. The sterilizer has the built-in lamps service life counter which appears on the display every time you turn on the appliance and shows how many hours of 9000 the lamps have already worked.

At the end of lamp service time (9000 h), the sterilizer informs you about it with the note “Replace lamps” on the display and 5 beeps.

IMPORTANT NOTE! Always unplug the sterilizer from the mains before changing the lamps!

NOTE! UV lamp is a glass product, please handle it carefully. Replace the lamps in clean cotton gloves.

To replace the lamps in **the ISTOK BREEZE 30**:

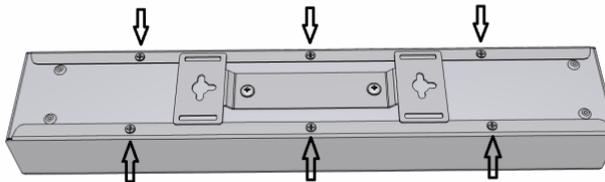


Figure 8 – Replacing lamps in Istok Breeze 30

1. Switch off the sterilizer and disconnect it from the mains power.
2. Unscrew the six screws at the lower part of the sterilizer and slide the back cover off.
3. Gently remove the expired lamp from the holders and clamps.
4. Remove the connectors from the expired lamp.
5. Attach the connectors to the new lamp.
6. Gently insert the new lamp in the holders and clamps.
7. Fix the back cover on the sterilizer with the six screws.

8. Recycle faulty lamps.

To replace the lamps in **the ISTOK BREEZE 60/120**:

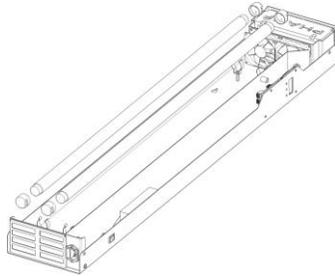


Figure 9 – Replacing lamps in Istok Breeze 60/120

1. Switch off the sterilizer and disconnect it from the mains power.
2. Unscrew the two screws at the lower part of the sterilizer and open the back cover.
3. Gently remove the expired lamp from the holders and clamps.
4. Remove the connectors from the expired lamp.
5. Attach the connectors to the new lamp.
6. Gently insert the new lamp in the holders and clamps.
7. Fix the back cover on the sterilizer with two screws.
8. Recycle faulty lamps.

To replace the lamps in **the ISTOK BREEZE 1200**:

1. Switch off the sterilizer and disconnect it from the mains power.
2. Unscrew the two screws on the front part of the sterilizer and open the cover.
3. Gently remove the expired lamp from the holder by turning it by 90 degrees.
4. Gently insert the new lamp in the holder by turning it by 90 degrees.
7. Fix the cover on the sterilizer with two screws.
8. Recycle faulty lamps.

IMPORTANT NOTE! Be careful when replacing the lamps. The sealed UV lamps contain a small amount of mercury. Do not dispose of the used UV lamps in your regular household trash. Disposal of any items containing mercury must be in accordance with your local hazardous waste disposal or recycling laws and regulations.

If the UV bulb breaks, do not vacuum or handle it with your bare hands. Sweep debris into a plastic bag and dispose properly.

After replacing the lamps it's necessary to **reset the lamps service life counter**:

1. Turn off the sterilizer if it's on.
2. Press and hold the button (5) on the control panel.
3. Keep holding the button (5) and connect the sterilizer to the mains.
4. The request "Lamps changed?" appears on the display.
5. Press the button on the control panel under YES.

TROUBLESHOOTING

If your ISTOK BREEZE has any of the following malfunctions, try to fix them using the information below:

Malfunction	Possible causes	Solution
The air sterilizer does not operate.	The sterilizer is not powered.	Make sure the air sterilizer is plugged into a working electrical outlet.
	The fuse fails.	Contact your service center or dealer to replace it.
UV lamps don't illuminate.	The lamps fail.	Contact your service center or dealer to replace the lamps.
	ECG (electronic control gear) fails.	Contact your service center or dealer to replace the ECG.
	The fuse fails.	Contact your service center or dealer to replace it.
UV lamp blinks but does not illuminate	The lamp fails.	Contact your dealer to replace the lamp.
Insufficient airflow at all fan speeds* * for ISTOK BREEZE 1200	The carbon filter is dirty.	Check and replace the filter.

DO NOT attempt to take apart the sterilizer or repair any of its electrical or mechanical functions, doing so may void your warranty and cause damage to the product and personal injury. Please contact your ISTOK BREEZE service center or dealer.

DISPOSAL

The symbol on the product or the packaging indicates that this product is not to be handled as ordinary household waste but has to be returned to a collecting point for the recycling of electric and electronic units.

Discard the old UV bulb at a hazardous waste collection site per local, regional and national laws and codes. For instructions regarding the proper disposal of old bulb(s) and to locate a collection depot in your community, contact your local waste management authority.



MANUFACTURER'S WARRANTY

Manufacturer guarantees conformity of UV germicidal air sterilizer ISTOK BREEZE 60/120/1200 to requirements of manufacturer's technical conditions.

The warranty period is 12 months from the sterilizer's sales date.

THE ERROR CODES IN ISTOK BREEZE 1200

If case of the lamps failure an error message showing the error code is displayed on the screen.

**Lamps
Error222**

Error code	Malfunction	Solution
100	One lamp fails in the left unit	Contact your service center or dealer to replace the lamps.
200	Two lamps fail in the left unit	
010	One lamp fails in the central unit	
020	Two lamps fail in the central unit	
001	One lamp fails in the right unit	
002	Two lamps fail in the right unit	
300 030 003 330 303 033, 333 999	The control card fails.	Contact your service center or dealer.

If case of the fan failure an error message showing the error code is displayed on the screen.

**Fan
Error 1**

Error code	Malfunction	Solution
1	The fan fails	Contact your service center or dealer.
2-9	Other failures	

