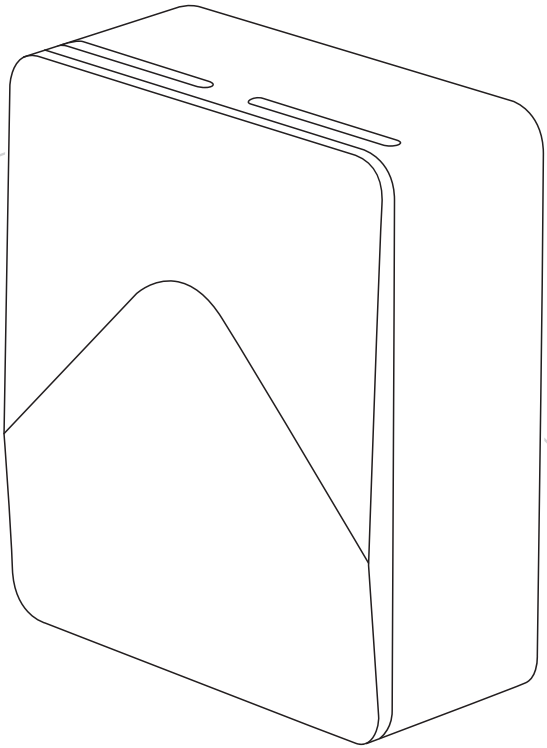

TION.

User Manual

Compact ventilation unit
Tion Breezer 3S

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Dear Customer!
Thank you for your purchase of the Tion Breezer 3S compact ventilation unit.

1. GENERAL

The Compact Ventilation Unit Tion Breezer 3S ("the device" in what follows) is designed for active supply of considerable volumes of outside air into the building. This involves the following:

- fresh air is continuously supplied by a silent fan from outside in a controlled flow;
- a filter set cleans the air of the main contaminants;
- the intake air can be heated to a preset temperature (depending on the version);
- the device is compatible with the MagicAir system (section 5.4).

Before using the device please read the User Manual and warranty conditions carefully, and check the completeness of the packing list and the appearance of the device.

PLEASE NOTE:

- The device is not intended for heating premises.
- The device is not designed as a medical device.

Developed by:

«Tion Smart Microclimate» JSC, Russia, 630090, Novosibirsk, Inzhenernaya 20.

Manufactured:

Russia. 633009, Berdsk, Zelenaya roshcha 7/4.
Assembled in Russia

For more details about the product, manufacturer, sales and service center adress and contact information please visit:
tion.global

Sales office: Novosibirsk, Inzhenernaya St., 20, 630090,
Tel.: +7 (383) 383-00-64.

2. PACKING LIST

Delivery set	Package option		
	Tion Breezer 3S	Tion Breezer 3S Special	Tion Breezer 3S Lite
Construction	+	+	+
Coarse filter of Class G4	+	+	+
High-efficiency E11 (H11) filter	+	+	+
Adsorption catalytic filter AK-XL	+	–	–
Heater	+	+	–
Remote control	+	+	+
User manualRC bracket	+	+	+
AAA batteries, 2 pcs.	+	+	+
Power cord, 3 m	+	+	+
Quick Start Guide	+	+	+
User Manual	+	+	+
Warranty card	+	+	+
Mounting template	+	+	+
Anchor bolt, 4 pcs. (for attaching the device)	+	+	+
Anchor bolt, 2 pcs. (for fixing the remote controller mounting bracket)	+	+	+

The packing list of the device is given in the Warranty Card.

The device supplies considerable volumes of air into the premises by means of a designated low-noise fan, cleans it from the principal types of contaminants and performs air heating if necessary. It is recommended for use in all regions, especially in locations with unfavorable environmental conditions and low winter temperatures. The device can be used in both domestic and office premises.

Tion Breezer 3S in the Lite configuration is recommended for use in regions with warm climate. Both Tion Breezer 3S Lite and Tion Breezer 3S Special versions are recommended for use in environmentally clean regions. To ensure enhanced air cleaning, Tion Breezer 3S Lite or Special configurations should be outfitted with an additional AK-XL filter.

The Tion Breezer 3S Lite can be upgraded to Tion Breezer 3S configuration upon the user's request. Please contact any authorized Service Center of the Manufacturer to install optional heater system and AK-XL filter (at additional cost).

The filters are available from the official "Tion" online store tion.global or from authorized dealers.

3. SAFETY REQUIREMENTS

1. The device should be installed in a location that ensures free and safe access.
2. Do not use in premises with indoor temperatures below 5°C or above 40°C.
3. Do not use in premises with relative humidity above 80% at 20°C.
4. Avoid direct sunlight.
5. During a lightning storm, turn the device off and unplug it from the mains supply.
6. The device should be disconnected from the power supply system prior to maintenance or scheduled servicing by pulling out the plug, or, if concealed wiring is used, it should be disengaged by the power supply switch (section 6.4.2).(section The user is not authorized to perform any repairs or alterations to the device design.
7. No foreign objects or water should be allowed to get into the device.
8. The device must not be operated if the power supply cord insulation or any part of the housing are damaged.
9. A protective bar must be installed on the ventilation duct from the outer (street) side.
10. If any damage or possible signs of malfunctioning are detected, pull the plug out of the power socket, or disengage the power switch in the case of concealed wiring (section 6.4.2), and contact an authorized Service Center for advice on further operation of the device.

4. TECHNICAL PARAMETERS

Package option	Tion Breezer 3S	Tion Breezer 3S Special	Tion Breezer 3S Lite
Maximum power consumption, W	1450	1450	30
Permissible outdoor temperature range, °C	-40 ... +50	-40 ... +50	0 ... +50
Air flow rate*, m³/hr	30/45/60/75/90/140	30/50/70/90/110/160	30/50/70/90/110/160
Maximal sound pressure level**, dB	19/23/29/35/40/47	19/23/29/35/40/47	19/23/29/35/40/47
Power supply	230 V ±10%, 50 Hz	230 V ±10%, 50 Hz	230 V ±10%, 50 Hz
Weight, kg	9,5	9	8,5
Overall dimensions (H × W × D), mm	528×453×203	528×453×203	528×453×203
Assigned lifetime, years	5	5	5
Guarantee period, years	2	2	2
Compatibility with MagicAir	+	+	+
Compatibility with Bluetooth devices	+	+	+

** Device performance depends on the operating conditions.*

*** These values are measured in accordance with the GOST 23337-2014 standard at 18.5 dB background noise.*

5. SCHEMATIC DIAGRAM AND OPERATING PRINCIPLE

5.1. Construction

The layout of the device with the service panel removed (Tion Breezer 3S) is shown below.

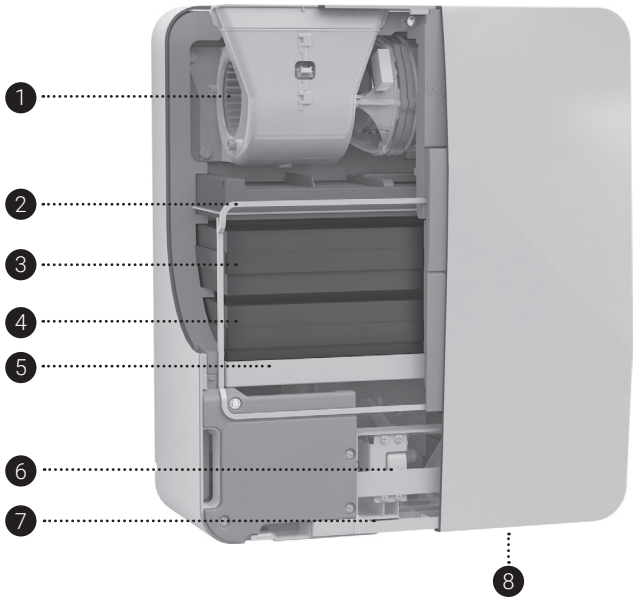


Figure 1. Device layout

1. Fan unit
2. Heater
3. Adsorption catalytic filter AK-XL
4. High-efficiency E11 (H11) filter
5. Coarse Class G4 filter
6. Air flap
7. Prefilter
8. Control button

5.2. Operating principle

The device is attached to the wall with a drilled air duct leading to the street. The air from outdoors enters the device through the air duct. The air duct is protected by a thermal insulator, and the slope of the channel prevents rain water from penetrating into the device. A flap is located at the device inlet (Fig. 1, Pos. 6). It protects against air penetrating into the room, if the device is either turned off or operating in the recirculation mode (drawing air from inside the room). The air is drawn into the room by a fan (Fig. 1, Pos. 1). If necessary, the inlet air can be heated up with a heater (Fig. 1, Pos. 2). The air is cleaned inside the device. The schematic of the operation is shown in Fig.2.

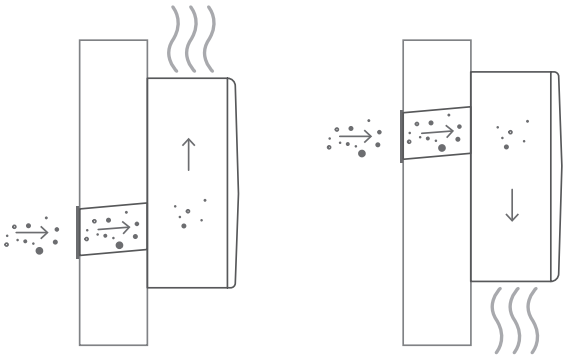


Figure 2. Device operating principle

The prefilter traps coarse dust particles in the recirculation and mixed operating modes.

The coarse class G4 filter (Fig. 1, Pos. 5) entraps coarse and medium-sized particles of dust, lint, soot and allergens with efficiency up to 90% (for particles with sizes above 10 um). It extends the service life of the high-efficiency E11 (H11) filter.

The high-efficiency E11 (H11) filter (Fig. 1, Pos. 4) entraps the finest particles of dust, allergens, bacteria, viruses and mold spores with efficiency above 95% for air flow rates below 120 m³/hr. The E11 filtration grade is the air cleaning standard for medical facilities. Only E11 grade filters can entrap hazardous microorganisms (lower class filters cannot stop them).

The AK-XL adsorption catalytic filter (Fig.1, Pos. 3) deep-cleans the air, removing the major components of exhaust fumes, industrial emissions, odors and smoke.

The AK-XL adsorption catalytic filter can be optionally replaced by AK-XXL model with extended service life. After the AK-XXL filter is installed the device will clean the air from harmful substances in concentrations even as high as 10 times above maximal permissible levels. Strong unpleasant odors are removed as well.

Aside from the outside air supply mode, the device can function in recirculation and mixed modes.

In the recirculation mode the air duct flap closes the air channel to the outside, and the air is taken into the device from indoors through the prefilter unit (Fig.1, Pos.7), where it gets cleaned. The heater automatically goes off in recirculation mode.

The mixed mode of Tion Breezer 3S ensures air intake from indoors and from outdoors in equal ratios. The air is cleaned by a set of filters and, if necessary, can be heated to a preset temperature. In this mode the device does not act as a heater for the room. Mixing indoor and outdoor air decreases power consumption in winter and ensures additional air cleaning in the room.

PLEASE NOTE: The mixed mode can be used at inlet air temperature above 0°C. First and second fan speed are disabled in this mode.

5.3. Controls

The user interface of the device contains the following elements, ensuring control over working parameters and set points:

- Control button with LED indication,
- Remote control (RC),
- MagicAir software (section 5.4),
- Sound notifications.

5.3.1. Control button

The command button is located on the device casing (Fig. 1, Pos. 8). This button switches the device between operating and standby modes, performs connection to the MagicAir base station and remote control unit. The color of the button indicates the current operating mode of the compact ventilation unit according to the Table below.

No.	Operating modeIndication	IndicationOperating mode
1.	Glowing yellow	The device is connected to power mains and is in Standby mode
2.	Glowing light-green	Normal functioning without connection to MagicAir system.
3.	Glowing dark-green	Normal functioning with MagicAir system
4.	Glowing blue	Automatic functioning with MagicAir system
5.	Blinking blue during connection	Connecting to MagicAir system
6.	Blinking red and blue until update is complete. Firmware update result:	Software update
7.	Blinking green	Update successful
8.	Blinking red	Critical error during device operation, or failure of the update process.

5.3.2. Remote control

The remote controller unit (RC) is used for manual remote control of the device.

Controller button functionsBefore first startup of the device, and if RC is not functioning, install new batteries as follows.

1. Open battery compartment lid;
2. Insert two AAA 1.5 V batteries (included), making sure to observe polarity;
3. Reinstall compartment lid, pushing it until it clicks.

PLEASE NOTE: The batteries supplied with the device may have shorter lifespan.

Connecting RC and the device:

1. Place RC within 1 m away from the device;
2. Press and hold for 5 s the command button on the lower panel of the device until the indication changes to blinking blue;
3. Turn on RC by pressing any button;
4. Press and hold for 5 s the buttons [POWER] and [DISP] of the RC unit until "PAIR" is displayed on the LCD.

If pairing was successful, the indication on RC will change to the indication of the operating mode; otherwise "NPAIr" is displayed on RC screen. If "NPAIr" is displayed, repeat the connection, switching on RC with its any button. If "nocon" is displayed, repeat the connection procedure, as described above. If reconnection fails again, contact the Service Center.

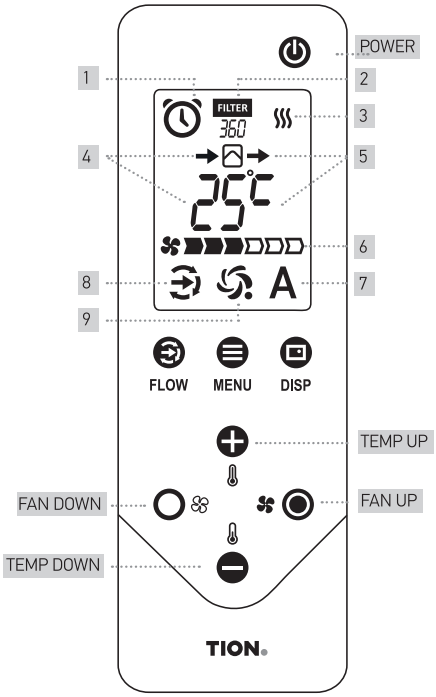


Figure 3. Remote control

Pos. in Fig.3	Notation
1	Timer is on or is adjusted right now
2	Days before filter replacement.
3	Heater is off / Heater is on
4	Inlet temperature
5	Outlet temperature
6	Fan speed (1, 2, 3, 4, 5, 6)
7	Automated control with MagicAir
8	One arrow (→) – outside air supply mode, three arrows (↻) – recirculation mode, four arrows (⇄) – mixing mode
9	The device is connected to MagicAir

Remote Control button functions

POWER	Switching Operation/Standby mode
DISP	Switching display modes
MENU	User menu
FLOW	Selecting flap position
TEMP UP	Increasing intake air temperature
TEMP DOWN	Decreasing intake air temperature
FAN UP	Increasing air flow
FAN DOWN	Decreasing air flow

Key combinations on RC invoke additional functions

Combination	Description
Press [DISP], [MENU] and [FLOW] and hold for 5 s	Sound ON/OFF
Press [DISP] and [MENU] and hold 5 s	Connecting to MagicAir system
Press [MENU], [DISP], [FAN UP], [FAN DOWN] for 5 s	Reset to factory settings
Press [POWER] and [DISP] for 5 s	Connecting RC and the device

5.3.3. Sound signals

Sound signals indicate certain functions performed by the device. The meaning of these sound notifications is given in the table below. If desired, sound notifications can be switched off completely: press simultaneously the [DISP], [MENU] and [FLOW] buttons on the remote control unit.

Sound signals are disabled when the device is under MagicAir system automated control (p. 5.4).

Sound signal description	Notation
Single beep	“Success”/”Enabled”/Button press confirmed
Two beeps at short interval	”Disabled”/ unavailable fan speed
Four beeps at short interval	Filter replacement counter reset
Six beeps at short intervals	Reset to factory settings

5.3.4. Standby mode

When the device is turned off using the RC or via MagicAir system, it enters the Standby mode. In the standby mode the device does not perform its operating functions (the flap is closed, the fan is off and the heater is off).

Device activation (switching from standby to active mode) is accompanied by a single beep, device deactivation by a double beep (in manual control mode, if sound signals are enabled). All user configured values are retained upon switching between modes.

If the device was in active mode before being disengaged using the switch button on the side panel or by disengagement from the power supply, its re-engagement will bring it into standby mode.

5.3.5. Air Flow Settings

Six air flow rate steps are provided. The air flow rate is adjusted manually (using MagicAir software or remote control) or automatically with MagicAir system (section 5.4).

The "turbo" mode is used for enhanced, rapid aeration in a room after a longer period of not being used by people.

Pressing [FAN DOWN] or [FAN UP] on the Remote Control decreases/increases the air flow, if no other settings are being adjusted at the same time (section 5.3.6).

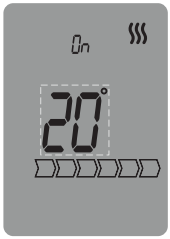
The device may automatically decrease the fan speed to ensure proper air heating up to the target temperature. Should this happen, any attempt to boost the fan speed above the available limit will result in a double beep signal. To regain the operating mode with all flow steps available, wait for a higher outer temperature, reduce the target temperature for heating or turn the heater off.

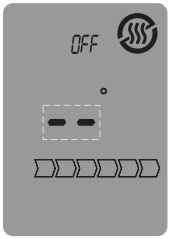
5.3.6. List of adjustable parameters

The device settings are adjusted manually (using MagicAir software or remote control) or automatically under MagicAir system control. Parameter adjustment with MagicAir is described in section 5.4.

To adjust the parameters from the remote control, press [MENU] to go to Menu screen. In the menu mode switch between parameters with the [FAN DOWN] and [FAN UP] buttons of RC. When selecting a parameter, its icon on the LCD display will start blinking. If the parameter value can be set, then one pressing of the [TEMP DOWN] or [TEMP UP] buttons changes its value by one unit of measurement. To change the parameter value by several units, press and hold the [TEMP DOWN] or [TEMP UP] buttons for more than one second, until the desired value is reached.

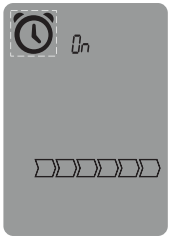
The parameter list in the menu mode operates on a loop, which means when the last parameter is reached, an attempt to jump to the next one will cycle back to the first parameter in the list. Parameters and their display order are described below. Detailed description of adjustment of all parameters is given in the next sections (5.3.7 to 5.3.12).

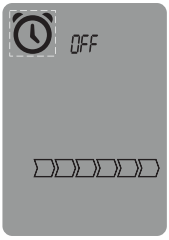




1. *Heater coil status (ON/OFF)*

2. *Clock setting (24 hour format)*

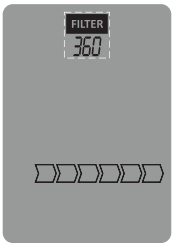




3. *Timer adjustment*

If the appliance is under control of the MagicAir system, timers are automatically disabled

4. *Start-up and shutdown time adjustment for Timer [ON] mode*



5. *Days before filter replacement.*

To save settings go to the next parameter pressing [FAN UP], [FAN DOWN] buttons or press [MENU] to exit the Setting mode. A single beep will sound, confirming the changes on RC have been saved and updated.

All parameters keep the configured values upon switching to and from Standby mode, and in case of the power supply outage.

PLEASE NOTE: To ensure that the configured parameters are stored into memory, do not disconnect the device from power supply for 10 minutes after finishing adjustment from RC.

Pressing the [DISP] button switches the information to be displayed on the remote control display. Available options: inlet air temperature, outlet air temperature, current time (Fig. 4).

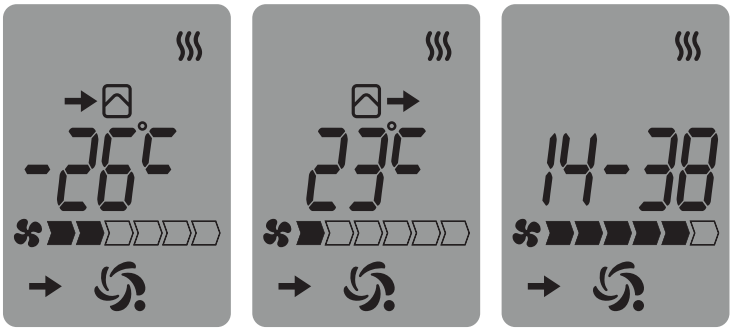


Figure 4. Information displayed on RC

5.3.7. Resetting to default settings

The parameters can be reset to factory settings. During this operation, all user configurable settings are replaced by factory set values. To reset to default settings, press simultaneously and hold for 5 s the buttons [MENU], [DISP], [FAN UP], [FAN DOWN] on the remote control. The default settings are listed in the following Table.

№	Parameter	Default value
1.	Fan speed	No. 2
2.	Flap position	Air flow
3.	Heating temperature, ºC	20
4.	Heater	ON
5.	Start by timer	OFF
6.	Start-up time by timer	17:00
7.	Shutdown time by timer	8:00 AM
8.	Current time	12:00 AM
9.	Days before filter replacement	360 days
10.	Confirmation sounds	ON

5.3.8. Setting target air heating temperature

The target temperature of the outlet air is adjusted manually (using MagicAir software or from the remote controller) or automatically by the MagicAir system (section 5.4).

If the heater is off (section 5.3.9), then pressing the buttons [TEMP DOWN] or [TEMP UP] will display "H-OFF" on the LCD (Fig. 5).

Target temperature adjustment range: from 0°C to +30°C. The new target temperature is attained in 1-5 minutes.

Factory setting: +20°C.

Using the [TEMP DOWN] or [TEMP UP] buttons on the RC, select the required target heating temperature.

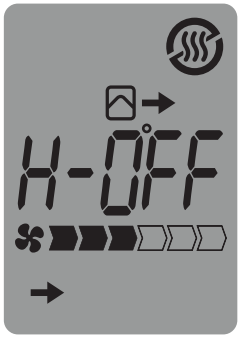


Figure 5. "Heater off" indication

PLEASE NOTE:

- The outlet air temperature measurement has a tolerance range of ±3°C.
- If the outdoor air temperature drops below -40°C, the device enters the Standby mode**. The warning message "EC02" (section 7.2) will be displayed on the remote control, and the flap will close. Should this happen, to start the device for normal operation switch to Standby mode and turn on the device again a few seconds later.

** Except for Tion Breezer 3S Lite configuration.*

*** If you are using the Tion Breezer 3S Lite version, then turn the device off in case of condensate or frost formation. It is recommended to resume operation only after the temperature of the device warms up to room temperature and traces of frosting disappear. To prevent frosting or condensate formation in the future, contact any authorized Service Center of the Manufacturer to upgrade the installation with a heater (at additional cost).*

5.3.9. Turning air heating on/off

The device can heat air up to a preset temperature. The heater can be turned on and off* by the remote control or via MagicAir software.

To turn off the heater, go to the parameter "Heater ON/OFF" pressing [MENU] button on the remote controller (section 5.3.6). Press [TEMP DOWN] or [TEMP UP]. The "H-OFF" warning will be displayed and a single beep issued, and heating temperature adjustment will be disabled. To switch the heater on follow the same steps. Target temperature will be displayed.

PLEASE NOTE:

- **The device is not intended for heating premises!**
- It is not recommended to turn off the heater if the inlet air temperature is below 0°C, as this may lead to freezing of the device, its decreased performance as well as a higher noise level.
- Under increased humidity conditions in the room, for a certain range of outlet air temperatures, condensate may accumulate on the external surfaces of the device. In this case, turn on the climate control system and, if necessary, increase the target temperature.

** Except for Tion Breezer 3S Lite configuration.*

5.3.10. Current Time

Time adjustment can only be performed manually (using control panel or remote control), if MagicAir system (section 5.4) is not connected. If the device is controlled by the MagicAir system, the current time is replaced by MagicAir time settings.

The "current time" set point is used in the timer function (section 5.3.11).

To adjust the parameter, select it with [MENU] button (section 5.3.6). Press the [FAN DOWN] or [FAN UP] buttons to switch between hour and minute adjustment. To decrease/increase the selected value by 1 press [TEMP DOWN] or [TEMP UP] (press and hold the corresponding button to increase the selection speed).

Once the maximal hours or minutes value is attained, further pressing of the corresponding button will cycle back to the minimum value.

5.3.11. Timer

The timer is used for turning the device on and off (switching to/from Standby mode) at a predefined moment.

Timer can be adjusted only from remote controller. To set up timer, select "Timer ON/OFF" with the [MENU] button. Press the [TEMP DOWN] or [TEMP UP] buttons to enable/disable the timer. The timer mode is displayed as "ON" / "OFF" indication:

After selecting the "timer on" mode ("ON" indication) press [FAN UP] to go to timer adjustment.

Press the [FAN DOWN] or [FAN UP] buttons to switch between hour and minute adjustment. To decrease/increase the selected value by 1 press [TEMP DOWN] or [TEMP UP] (press and hold the corresponding button to increase the selection speed).

To adjust the turn-off time press [FAN UP] once again. Next press [FAN DOWN] or [FAN UP] to select between hours and minutes. To decrease/increase the selected value by 1 press [TEMP DOWN] or [TEMP UP].

If maximal hours value is attained (23 h), then subsequently pressing the [TEMP UP] button will cycle the parameter back to the minimal value (00 h).

When switched on by timer, the device will be engaged with the same settings as at the moment of timer activation.

If the appliance is controlled by MagicAir (p.5.4), all previous timer setting are disabled.

5.3.12. Configuration of filter replacement alert schedule

The user adjustable filter replacement alert function helps keep track of proper filter maintenance.

The filter replacement alert message can be set in manual mode (with MagicAir software or from the remote control).

After the alert is set, the countdown function is activated from the user defined value down to zero. The counter records the time only when the device is turned on and operating (the fan is blasting air in).

This parameter is factory preset to 360 days

To adjust the parameter, select it with [MENU] button (section 5.3.6).

Press the [TEMP UP] button to increase the parameter value by +30 days, the [TEMP DOWN] button to decrease by -30 days.

Once the counter reaches the value 30 days, a warning message "FILTER" with indication of days before planned filter replacement will be displayed on the control panel.

After the counter reaches zero, the warning message "FILTER" and air flow rate indication on the LCD display of the remote control will start blinking. The device should then be switched off and the filters replaced, as described in section 7.1).

To reset the counter for a new 360 day cycle after filter replacement, go to the configuration mode, then simultaneously press the [TEMP UP] and [TEMP DOWN] buttons on the control panel and hold for at least 2 s The "FILTER" message will disappear from the LCD display.

PLEASE NOTE: Do not reset the counter without replacing filters. Operating the device with used filters may decrease performance, increase fan noise and cause device failure.

Resetting to default settings

5.3.12. Device shutdown, power off

To switch the device off for a short period, press the control button on the control panel or remote control. The fan will turn off and the flap will close. If a fault occurs during flap closure (flap remains open), a double beep will sound. In this case turn the appliance on and then off again. If the problem persists, contact the Service Center.

PLEASE NOTE: If you plan to turn the device off for a longer period, press first the control button on the lower panel or remote control and wait 1 minute (till the flap is closed), then turn off the power switch on the right panel and pull the power cord out of the socket. Failure to do so will lead to incomplete closure of the flap, and air from outside will be drawn into the room.

PLEASE NOTE: If the device is left off with closed flap for a prolonged period of time under negative outdoor air temperatures, it is possible that its working parameters may deviate from nominal values after it is turned on again, for example with increased noise and decreased performance. To resume operation in such conditions do the following:

- switch the device into Standby mode;
- wait for the device to warm up to room temperature;
- turn on the device with the control button on the lower panel or remote control.

5.4. Functioning with MagicAir

5.4.1. Device connection

When the "Tion Breezer 3S" compact ventilation unit is used with the MagicAir system:

- MagicAir base station can independently control the intensity of air flow according to the CO_2 level in the room;
- the user can set the intake air heating temperature and adjust the ventilating intensity (using a mobile application).

To connect a device to the initialized MagicAir base station, open the MagicAir application, press "Add new device" and follow the instructions. If connection is successful, the device issues a single beep and the control button is highlighted in dark green (section 5.3.1). The connection process lasts a maximum of 1 minute. If connection fails, the device issues a double beep and the control button is highlighted in light green.

After a successful connection, the MagicAir logo will appear on the remote controller. On a connected device, time adjustment from the remote controller is disabled (time settings are then taken from the MagicAir system).

To connect the device to a smartphone enable Bluetooth on the smartphone, launch the MagicAir application and press "Direct connection" in the item selection menu. Press "+" in the new window and follow instructions.

In the Direct control mode you can turn the device on and off, adjust the fan speed, select the air intake mode, switch heater on/off and set up heating temperature.

PLEASE NOTE: Only one of two control modes is enabled simultaneously via Bluetooth: either from RC (section 5.3.2), or via "Direct connect" mode of the MagicAir mobile application.

5.4.2. Control mode

After connection to the MagicAir system you can use either manual or automatic device control mode.

In the automatic mode you can control the maximum/minimum fan speed, switch the heater on/off and set up heating temperature.

The automatic mode can be switched on by the designated mobile application MagicAir and through web interface on the site magicair.tion.ru by moving a slider. In automatic mode sound indications and timer are disabled. The automatic control sign is shown on the RC display.

In the manual control mode you can turn the device on and off, adjust the fan speed, select the air intake mode, switch the heater on/off and set up heating temperature

To switch to the manual control mode do one of the following:

- move the slider in the MagicAir application to the "Manual control" position.
- press twice any button on the RC (except for [TEMP DOWN], [TEMP UP], [DISP] buttons). The automatic control sign will disappear from the LCD screen.

6. GETTING STARTED

6.1. Unpacking and Preliminary Examination

Remove the transportation packaging and examine the device carefully to make sure it has no damage caused by improper transportation or storage. If you notice any damage, please call the Vendor's service center for advice on further device operation or its disposal.

If the temperature of the housing of the device before installation is below 10°C (after storage or transportation in cold environment), first keep the device for 2 hours in a warm room inside the packing film to bring its temperature up to room conditions. Failure to do so may cause the device to break down, damage its plastic parts during installation or lead to condensate formation.

Depending on the factory sealing procedure, the device filters may be supplied in protective plastic packaging.

Before first startup of the device:

1. Remove maintenance panel (Fig. 6).
2. Take out from the casing all filters for the present version.
3. Unwrap every new filter from the protective plastic film.
4. Install each filter into the device.
5. Reinstall the maintenance panel.

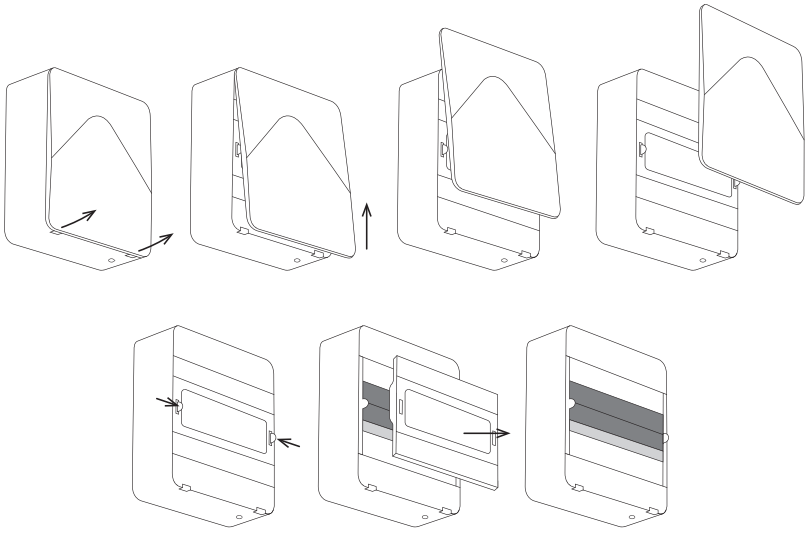


Figure 6. Dismantling the maintenance panel

PLEASE NOTE:

- If the device is turned on with plastic film on the filters, this may cause damage and render the warranty void.
- When new, the device may have the characteristic odor of plasticware. Such an odor most likely comes from the shipping package. Take out filters and turn on the device at 5th or 6th speed for several hours. If an odor persists, please contact the Service Center.

6.2. Placement guidelines

Select the location for the device taking into account the safety requirements (section 3) and the dimensions of the device. At least 50 mm clearance from the floor, walls and furniture items must be provided. Ensure at least 100 mm clearance from ceiling. The distance between the window jamb and central point of the opening in the outer wall must be at least 500 mm. The device may be positioned at any height, since it can be controlled by a remote control unit. The composition of the wall behind it must allow for a ventilation duct to be drilled. There must be no service lines (electric wiring, heating or water supply pipes, etc.) in the drilling area.

6.3. Installation

1. Make sure that the device will be freely accessible in the planned location and there is enough space in front of the maintenance panel to perform maintenance.
2. Follow the detailed installation guidelines on the mounting template.
3. The back panel of the device must firmly fit to the wall, along its entire surface.
4. The factory warranty covers only devices mounted by the Manufacturer's certified installation experts.

PLEASE NOTE: Correct installation of the device is crucial for ensuring both its proper operation and for the warranty obligations. Make sure that the installation expert fills in the warranty card with all required data on installation.

6.4. Power supply

The device shall be connected to power supply before operation. The device can be connected either by a power cord with plug, or using concealed wiring.

Power parameters: AC 230 V, 50 Hz, single-phase, with protective grounding. The power capability of the line must be at least 2 kW.

After connection to the power supply the device goes into standby mode (section 5.3.4).

6.4.1. Connecting using power cord with plug

The device is supplied with a power cord. Plug the connector of the cord into the mating connector on the rear panel of the device casing. Plug the device into the electrical network.

Power cord is supplied with the device. This power cord can be replaced with a substitute cord of other length and/or color, conforming to the following requirements:

- the plug must meet the standard CEE 7/7 (Fig.7),
- the connector must correspond to IEC 320 C13 female (Fig.7),
- cord cross section must be at least 1 mm².

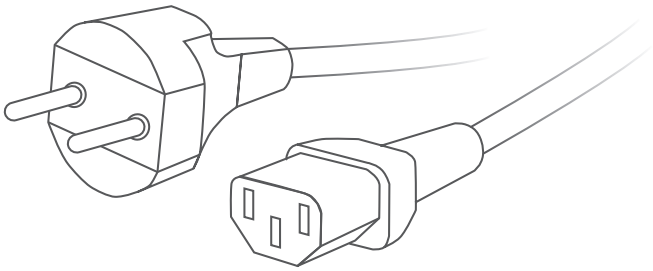


Figure 7. Connector and plug of the power cord

6.4.2. Concealed wiring

With a concealed (flush) wiring connection, the power-supply line is laid inside the walls or structural units of the building.

The electrical connection must be performed in accordance with the technical requirements of your country.

After mounting connect the device to the electrical network.

PLEASE NOTE:

- According to electrical safety rules, concealed wiring must allow for the possibility of complete disengagement from the electrical network.
- If you do not have sufficient experience with such work, to avoid electric shock hazards and device damage, request service from a qualified electrician.

7. MAINTENANCE

Maintenance of the device consists in scheduled replacement of filters in accordance with their natural wear.

The prefilter under permanent operation in the recirculation mode must be cleaned at least once a month. Prefilter can be vacuum-cleaned and washed. Before use, dry it carefully.

If G4 filter is cleaned on a regularly scheduled basis, it should be replaced at least once a year, depending on the operating conditions. Please clean the filter at least every three months. To clean the filter, take it out of the device casing, vacuum-clean, wash with water and dry it.

Replacement of the E11 (H11) filter must be performed at least once a year. However if the prefilter G4 is cleaned and/or replaced on a correctly scheduled basis, the replacement of the high-efficiency E11 (H11) filter can be scheduled once every two years (depending on the operating conditions).

PLEASE NOTE: Do not use any detergents for filter cleaning. Do not wash or flush the high-efficiency E11 (H11) filter and adsorption-catalytic AK-XL filter. Do not strip or twist G4 filter during cleaning. Be careful and avoid damaging the filtering surface of the filter while cleaning!

The AK and AK-XXL adsorption catalytic filters must be replaced at least once a year, depending on the operating conditions.

It is possible to manually adjust the schedule of filter replacement, programming the countdown timer to indicate the scheduled date (section 5.3.12): for example, a 30-day alert can be configured as a reminder to perform regular cleaning of G4 filter or prefilter.

7.1. Filter replacement

The filters should be replaced after their natural lifetime expires, or if optionally the high-efficiency E11 (H11) filter is replaced with an adsorption catalytic AK-XXL filter.

1. Shut down the device with the control button or from the remote controller and pull the power cord out of the socket.
2. Remove maintenance panel (Fig. 6).
3. Pull out the old filter and insert the new filter until it stops in position.
4. Reinstall the maintenance panel.
5. Put the used filter into a package and dispose of it.

No special measures for filter disposal are needed.

7.2. Troubleshooting

Should an abnormal situation occur, the device will automatically switch to standby mode, the control button blinks in red, and an error code is indicated on the LCD display (Fig. 8).

In case of "EC-01", "EC-02" or "EC03" indications, please make sure that the outdoor air temperature does not exceed the value indicated in specifications (section 4).

Figure 8. Example of error indication

If the outer air temperature conforms with the specified range, please contact the service center by phone, as indicated on the Warranty Card. If the temperature is beyond the specified range, please wait until it reaches the required level (warms up/cools down), and switch on the device.

If the "EC-04" indication is displayed, increase the target temperature (p. 5.3.9). If the indication remains on, please contact the Service Center.

If the "EC-11" indication is displayed, please unplug the device for several seconds and plug it in again. If the indication remains on, please contact the Service Center.

If any other error code is displayed, disconnect the device from power supply for several seconds and turn it on again. If the indication remains on, please contact the Service Center.

PLEASE NOTE: If turning the device off and on resets the user settings, contact the Service Center.

8. STORAGE, TRANSPORTATION, DISPOSAL

Before being commissioned for use, the device should be stored and transported in the factory packaging. The device may be stored and warehoused in non-heated rooms at temperatures from –20°C to +40°C and with relative humidity up to 80% at +20°C.

If filters are stored separately from the device, the following guidelines should be observed:

- the filters must be stored in a dry room, protected from direct sunlight, at a distance at least 1 m from heating devices, at temperatures not exceeding +30°C and with relative humidity not exceeding 80%;
- do not store filters in a room where chemicals emitting intense odor are stored.

Provided that these rules are carefully observed, the filter storage life is unlimited.

During transportation of the device and filters, ensure protection against shocks, falls and adverse climatic factors.

Upon expiration of the planned service life please discontinue the use of the device and contact the Service Center of the Vendor to get advice as to the possibility of further use of the device or its disposal.

9. WARRANTY

"Tion Smart Microclimate" JSC, Tion Company Group, would like to thank you for your choice.

The planned service life of the Tion Smart Microclimate JSC device is 5 years, subject to the installation and operation guidelines. The warranty period is 2 years* from the purchase date, provided that operating instructions are properly observed.

Before placing the device into operation, please read carefully the User Manual, warranty terms and inspect the completeness of the packing list and the appearance of the device.

Should any objections arise as to the incompleteness of the packing list and/or appearance of the device, please notify the Vendor at purchase.

If the package appears damaged during shipping please unpack the device and examine its intactness promptly. Shipping damage to the device must be recognized by the Carrier in written form to ensure proper processing of claims for damage reimbursement.

Warranty conditions

The warranty is valid only if a duly filled-in warranty card, sales receipt, cash voucher or other document is presented, which certifies the purchase of the device and the purchase date.

- If the purchase date cannot be ascertained, the warranty period starts from the device's manufacture date in accordance with consumer protection legislation.
- The warranty terms cover manufacturing or design defects of the device. The warranty liabilities include performing repair work either at a Service Center, or at the Purchaser's site (at discretion of the service office).
- The warranty does not cover scheduled maintenance with filter replacement, or any cases of device misuse violating the requirements of this User Manual.

The warranty service obligation is void in the following cases:

- if the warranty sticker on the device rear panel is not intact;
- if there is evidence of non-authorized installation, repair, dismantling, device alteration or treatment in non-authorized service centers;
- if the serial number of the device is not legible (wiped off, erased, corrected or destroyed);

** If not otherwise specified by the regulations of the country where warranty liabilities are to be administered.*

- if the device was damaged by natural disasters (fire, inundations, etc.) or other causes beyond the control of the Vendor (Manufacturer) and Purchaser;
- if the device bears mechanical damage (chipping, cracks, etc.) due to the application of excessive force, corrosive chemicals or elevated temperature or if any of these have caused device failure;
- if the failure is caused by incorrect connection to the power mains;
- if failure and/or damage is caused by foreign objects, liquids, insects or their products, etc., getting inside the device casing;
- if the device was not duly stored.

Dear Customers,

To claim the fulfillment of warranty obligations for the device please contact the device Vendor.

Tion Smart Microclimate JSC hereby confirms its obligations to satisfy the warranty conditions imposed by current legislation, in the case of detected device defects due to Manufacturer's fault. Tion Smart Microclimate JSC reserves the right to deny warranty terms, should the aforementioned conditions not be duly fulfilled.

tion.global

Service office e-mail : service@tion.global

ACCEPTANCE CERTIFICATE

Compact ventilation unit Tion Breezer 3S corresponds to Technical Specifications TU 3646-006-66248641-2017 and is acceptable for operation.

Manufacturing date _____

QC stamp

Version 1.4.1.S

FOR NOTES

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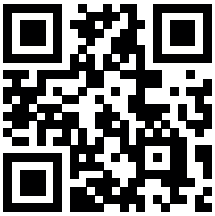

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