INVENTER

Operating instructions

Aviant

Extractor fan

www.inventer.eu

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Disclaimer

This documentation represents a translation of the original german operating instructions. After completition of installation it must be passed on to the user.

The contents of this documentation have been checked for conformity with the hardware and software described. Nevertheless, deviations cannot be excluded, so that no guarantee can be given for complete conformity.

This documentation describes the functionality of the standard scope. For reasons of clarity, the documentation does not purport to cover all details on all types of the product and cannot cover every conceivable scenario of operation, cleaning and maintenance. The illustrations in this document may differ slightly from the design of the product that you have purchased. The same functionality is ensured despite any design deviations.

This documentation is updated regularly. Necessary corrections and appropriate supplements are always included in subsequent editions. You can also find the latest version at **www.inventer.eu/downloads.**

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1 User and Safety instructions

Thank you for purchasing this high quality product from inVENTer!
This section provides an overview of the basic safety precautions for safe and proper operation of your ventilation system.

1.1 User information

Safety and warning instructions

The safety and warning instructions in these installation instructions have a uniform structure and are marked with a symbol on the left side of the instruction. A signal word in front of the text also indicates the hazard level. If several hazard levels exist, the highest level safety instruction is always used. The safety and warning instructions contain the following information:

SIGNAL WORD
Type and origin of the hazard.
Possible consequences of the danger!
- Measures to avoid hazard.

The signal word indicates the severity of the potential hazard unless the preventive measures are taken:

DANGER means: Imminent danger of serious injury or death.

WARNING means: Possible danger of serious injury or death.

CAUTION means: Direct danger or minor/significant injury.

NOTICE means: Direct or possible risk of property damage due to an adverse event/state.

Other symbols used in this documentation

A **TIP** symbol indicates practical and useful tips for handling your extractor fan.

► **Action required:** This prompts the user to perform a specific action.
⇨ **Check results:** Requires user to check results of the action performed.
All graphics represent the interior wall.

1.2 Safety instructions

The operating instructions are part of your Aviant ventilation unit and must be available at all times (see www.inventer.eu/downloads). When handing the system to a third party, the information regarding access to the operating instructions must be handed over also. Before carrying out any work on the system, read this documentation carefully and observe all the instructions for operation and maintenance given in this chapter. Also note the safety instructions that precede the described handling instructions.

Non-observance of safety instructions could result in injury and/or property damage.

Intented use

The Aviant extractor fan (hereinafter referred to as “Aviant”) is used to ventilate rooms with external windows.
Modifications or conversions to the device are not permitted. The Aviant complies with the technical safety requirements and standards of electrical appliances for domestic use. The full text of the EU Declaration of Conformity is available at the following Internet address:
https://www.inventer.eu/downloads.

Faultless and safe operation of the device requires proper operation and maintenance.

- **DANGER:** The Aviant must not be used in locations where direct contact with splashing water is possible over a long period of time and/or where the device is exposed to direct jets of water.

- **WARNING:** For the joint operation of a ventilation device with fireplaces, securing measures must be taken to prevent the occurrence of negative pressure in the building.The decision as to which measures should be carried out is made by the responsible chimney sweep and/or building planner.

- **CAUTION:** The Aviant must not be operated and cleaned by children and/or persons who, due to their physical, sensory or mental capabilities, inexperience or lack of knowledge, are not safely able to do so, unless they are supervised by a person responsible for their safety or have been instructed by him/her on how to operate the ventilation unit. Small children must be supervised so that they do not play with the device.
- **NOTICE:** The device has plastic surfaces that are sensitive to scratches. Do not touch components with oily and/or dirty hands. Avoid contact with sharp or pointed objects.
- **NOTICE:** The fan of the ventilation unit must not be immersed in water or sprayed directly with water.
- Ensure that there is sufficient air supply in the room.

If your device has a defect, contact your factory representative or our technical service.

Use contrary to the intended purpose leads to the exclusion of any liability claims.

Improper use

Any use that is not mentioned in the chapter intended use is considered improper use.

In particular, do not operate the equipment in areas where the following may enter or occur:
- Environment containing strong oils or lubricants.
- Flammable, aggressive and corrosive gases, liquids or vapours.
- Ambient temperatures outside the range of 5 – 50 °C
- Possible obstacles preventing access or the removal of the fan.

2 System overview

The Aviant is an innovative extractor fan with a contemporary design. It improves the basic ventilation in your rooms and enables continuous ventilation to reduce humidity and odours in wet rooms (WC/bath/shower room/laundryroom).

The Aviant is installed in a wall sleeve. On the facade, an external closure hides the components of the ventilation unit. The Aviant is connected directly to the 230 V mains.

The Aviant is controlled and set up using the "inVENTer Mobile" application software or directly on the Aviant control panel. You can download the app free of charge from the Google Play Store (Android) or the App Store (iOS).

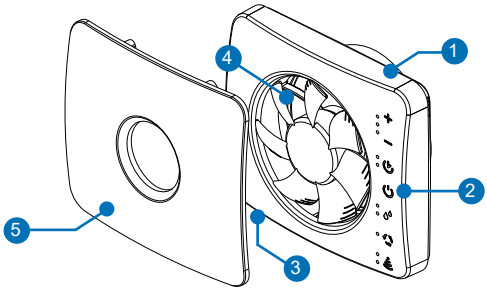


Figure 1: Aviant extractor fan with cover

1 Fan housing
2 Control panel
3 ON/OFF switch
4 Fan
5 Inner cover (magnetic)

2.1 Functions

- Humidity sensor (Automatic humidity monitoring):
  Increase of the air flow volume to dissipate peak humidity loads. The intensity of the air flow volume can be adjusted via the app or on the control panel.

- Air quality sensor:
  Increase of the air flow volume when the air quality in the interior deteriorates. The intensity corresponds to the selected maximum when activating the humidity sensor.

- Run-on Function:
  After the switch-off pulse (humidity sensor, light sensor or external switching contact as pulse generator), the fan continues to run until the end of the run-on time. Subsequently, it is checked whether the limit values (determined by the sensor system) are still exceeded. If this is the case, a new run-on cycle begins.
  If the limit values are complied with, the Aviant switches off automatically.

- Switch-on delay:
  Activation takes place exclusively via an external switching contact as a pulse generator. After the switch-on pulse, the fan does not start immediately, but the switch-on delay is activated. After the switch-on delay has elapsed, the fan starts up.
  The intensity of the air flow volume can be set via the app or on the control panel.

- Continuous Ventilation
  Continuous/permanent ventilation. The intensity of the air flow volume can be set via the app or on the control panel.

- Automatic Basic Ventilation Cycles:
  Once a day, the ventilation unit runs automatically for 60 minutes if it has not been activated in the meantime. The function is not active if the ventilation device is set in continuous operation (permanent ventilation).
  Note: The sensors are switched with priority. If the Aviant was activated in the meantime by means of sensors, the basic ventilation cycle is shifted back accordingly.
  The intensity of the air flow volume can be set via the app or on the control panel.

The following factory settings are active when the fan is first started up:
- Automatic Basic Ventilation Cycles
- Humidity monitoring with an air flow volume of approx. 90 m³/h when activating the sensor
- Switch-on delay: 2 Minutes
- Run-on Function: 15 minutes with an air flow volume of approx. 72 m³/h

3 Operation on Aviant´s control panel

All functions of the extractor fan can be set directly on the control panel of the fan.

The function indicator lights up in different colors depending on the active function:

No indicator light
Continuos ventilation / Off

Blue indicator light
Permanent: Activated by humidity sensor.
Flashing: Run-on function activated. High humidity levels detected.

Green indicator light
Activated by air quality sensor.

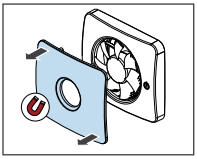
Violet indicator light
Automatic basic ventilation cycles
(1 x daily without use)

Yellow or Orange indicator light
Permanent: Run-on function active
Flashing: Switch-on delay active, the flashing becomes faster towards the end of the switch-on delay.

Red indicator light
Connection error. Touch the Function icon or start the “inVENTer mobile” application again.

Quick overview

To access the control panel, first remove the Aviant's magnetic inner cover.



To access the programmable functions press the following icon:

All programmable function icons light up:

To activate the desired function:
Press the icon whose function is to be changed.
Only the selected function icon lights up to indicate what settings can be changed.

Set the desired parameters for this function by repeatedly pressing the respective symbol button.

The function selection is terminated by pressing the icon twice.

If the symbol lights up permanently on the control panel, the ventilation unit is already paired with a mobile device and cannot be controlled on the control panel. First disconnect the Bluetooth connection. The symbol goes out and operation on the control panel is possible.

3.1 Humidity sensor

The sensor continuously measures the air humidity.
If the air humidity rises very sharply within a short time (humidity peak), e.g. when showering, the fan operates at the set speed. If the humidity level before the start of the humidity load peak is reached again, the fan switches off or the time delay starts, if set.

Set sensor sensitivity

► Touch the icon to activate the control panel.
► Touch the icon .

⇨ The set sensor sensitivity is displayed.

High		Low	
Medium		Inactive	

► Touch the icon again for 2 seconds.
⇨ The sensor sensitivity can be changed.

► Press and hold the icon until the desired sensor sensitivity is displayed:

High		Low	
Medium		Inactive	

► Touch the symbol twice to apply the changes.

Set the air flow volume when activated by the humidity sensor and the air quality sensor

In this menu item, the air flow volume is set when the Aviant is activated by the humidity sensor, as well as the air quality sensor.

► Touch the icon to activate the control panel.
► Touch the icon .

⇨ The +/- indicator light becomes active.

► Touch the + / - icon to increase/decrease the air flow rate in humidity-related operation (unit is activated by humidity sensor) and active air quality sensor:

► Touch the symbol twice to apply the changes.

⇨ The air flow volume when activated by the humidity sensor and when activated by the air quality sensor is set.

3.2 Light and Air quality sensor

The light sensor is used to automatically monitor changes in light. The air quality sensor monitors indoor air quality to quickly remove unpleasant odours when needed.

► Touch the icon to activate the control panel.
► Touch the icon.
⇨ The active sensors are shown:

Light sensor	Both active
Air quality sensor	Both inactive

► Touch the icon again for 2 seconds.
⇨ The sensors can be activated/deactivated.

► Touch the icon repeatedly until the desired sensor combination is active:

Light sensor	Both active
Air quality sensor	Both inactive

► Touch the symbol twice to apply the changes.

ⓘ The air flow volume when activated by the light sensor corresponds to the air flow volume in run-on function.

ⓘ The air flow volume when activated by the air quality sensor corresponds to the air flow volume when activated by the humidity sensor.

3.3 Run-on time and switch-on delay

Set run-on time

After the fan switch-off pulse, the fan continues to run for a selected period of time, if set.
This run-on is activated when the switch-off pulse is triggered
- through humidity sensor;
- through the light sensor;
- by means of an external sensor.

ⓘ The run-on time always occurs for all shutdown options. The selection of only one option, e.g. run-on following an activated humidity sensor, is not possible.

After the end of an run-on cycle, the fan checks whether the limit values (determined by the sensors) are still exceeded. If this is the case, a new run-on cycle begins, at the end of which the shutdown requirements are checked again. If the limit values are complied with, the Aviant switches off automatically.

The run-on time can be set to 15 minutes or 30 minutes on the control panel. If no run-on time is set, the fan switches off immediately.

► Touch the icon to activate the control panel.
► Touch the icon.

⇨ The currently set run-on time is displayed:

15 minutes	30 minutes

► Touch the icon repeatedly until the indicator light with the desired run-on time lights up:

15 Minutes

30 Minutes

► Touch the icon twice to apply the changes.

⇨ The run-on time is set.

Set air flow volume in run-on function and when activated by the light sensor

In this menu item, the air flow volume is set during the run-on time and when the Aviant is activated by the light sensor.

► Touch the icon to activate the control panel.
► Touch the icon.

⇨ The +/- indicator light becomes active.

► Touch the + / - icon to increase/decrease the air flow volume during the run-on time and when activated by the light sensor:

► Touch the symbol twice to apply the changes.

⇨ The air flow volume during the run-on time and when activated by the light sensor is set.

Set switch-on delay

ⓘ The switch-on delay can only be activated via an external switching element.

After the switch-on pulse, the fan does not start immediately, but the switch-on delay is activated. After the switch-on delay has elapsed, the fan starts.

The delay time can be set to 2 minutes or 4 minutes exclusively via the app.

► Touch the icon to activate the control panel.

► Touch the icon for 2 sconds.

⇨ Both indicator lights flash three times:

► Touch the icon twice to apply the changes.

⇨ The switch-on delay is activated/deactivated.

3.4 Permanent operation

Permanent operation is used to achieve permanent venting (continuous ventilation). If the Aviant is in permanent operation, all sensors as well as the run-on function and switch-on delay (if set) are active.

ⓘ Automatic ventilation once a day does not take place in permanent operation.

ⓘ When permanent operation is deactivated, no automatic basic ventilation takes place. The automatic basic ventilation is activated or deactivated separately, exclusively through the app.

Activate/deactivate permanent operation

► Touch the icon to activate the control panel.

► Touch the icon until the indicator light
- lights up:

⇨ Permanent mode is activated.

OR

- goes out:

⇨ Permanent mode is deactivated.

Set the air flow volume in permanent operation.

► Touch the icon to activate the control panel.
► Touch the icon .

⇨ The +/- indicator light becomes active.

► Touch the + / - icon to increase/decrease the air flow volume in permanent mode:

► Touch the symbol twice to apply the changes.

⇨ The air flow volume in permanent operation is set.

3.5 Resetting the Aviant to factory settings

► Touch the icon to activate the control panel.

► Touch the icon for 5 seconds.

⇨ The Aviant is reset to factory settings.

4 App “inVENTer Mobile”

The app "inVENTer Mobile" (in the further text "App") is the free app of inVENTer for the operating systems Android and iOS for controlling and programming the system.

NOTICE: Connect the Aviant to your mobile end device exclusively via the inVENTer Mobile App. Direct pairing via Bluetooth LE leads to installation errors and the Aviant must be reset.

Installing the "inVENTer Mobile" app

Technical requirements:

- Mobile device with Android or iOs operating system
- Bluetooth LE

The operating systems and their versions are updated continuously. You can find more information directly in the Play Store (Android) or App Store (iOs).

You can also download the app directly here:

ANDROID APP ON Google play

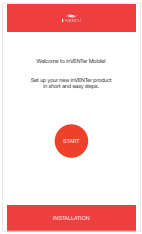
Download on the App Store

4.1 Add Aviant to the app

► Download the "inVENTer Mobile" app to your mobile device (mobile phone or tablet with Android or iOS operating system).

⇨ After successful installation of the app, the corresponding icon appears on the display screen.

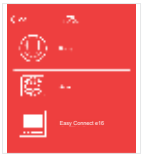
To connect the app to the Aviant, Bluetooth must be enabled and the app must be granted location sharing. Enable Bluetooth and location on your mobile device if these features are disabled.



► On the display screen of your mobile end device, touch the icon of the "inVENTer Mobile" app.

⇨ The start screen appears.

► Press the START button.



⇨ A selection window appears with devices that can be paired with your mobile device.

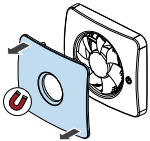
► Select the "Aviant" button here.

⇨ A prompt to connect to the extractor fan appears on the mobile device screen.

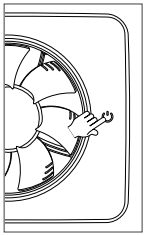
Alternatively:
If you have already installed the inVENTer Mobile App on your mobile device and have already connected devices, you can add your Aviant to the device list by selecting the "+" button.

4.2 Pair Aviant with the app

ⓘ To use the app, a Bluetooth connection must first be established between the controller and the mobile device. Note the Bluetooth range.

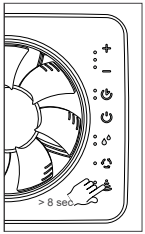


► Remove the magnetic inner cover of your Aviant to be able to reach the control panel.



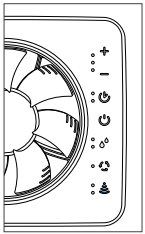
► Touch the function display icon ⏻ on the control panel of your Aviant.
⇨ The symbols of all adjustable functions light up:

Run-on timer Switch-on delay | Humidity sensor | Continuous ventilation | Light and Air quality sensor



► Touch the icon for at least 8 seconds.
⇨ The icon on the control panel starts blinking, the Bluetooth connection can be established.

► While the icon is flashing on the Aviant, press the "Connect" button on your mobile device.



⇨ Your Aviant and the mobile device connect.

⇨ The symbol on the control panel lights up permanently.

► A message will appear to indicate the completion of the connection.

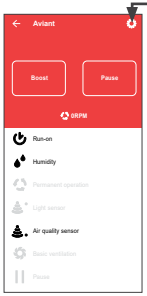
⇨ The Aviant appears on the display screen, indicating that it is connected and available.
⇨ The Bluetooth icon lights up blue.

⇨ You have activated the App and may configure your Aviant.

► Touch the "Aviant" button.
⇨ The Start menu opens.

4.3 The Start menu of the App

All settings can be made menu-driven.



Settings: Change product name and reset to factory settings.

Quick selection area:

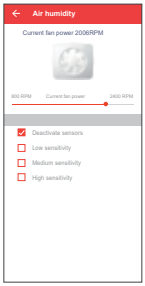
- Quick setting of the boost or pause time; display of the remaining boost or pause time.
- Display of the current fan speed.

Settings menus:

- Activate/deactivate functions (black: function active/ grey: function not active).
- Set the setting parameters of the individual functions:
  e.g. sensor sensitivity, air flow volume, function intervals.

4.4 Menu setting in the app

By pressing the button, the settings menu of the selected function opens.



Display currently set function-parameter

Adjustment range air flow volume

Setting range of other parameters, varies depending on the selected function menu:

- Enable/disable the function
- Sensor sensitivity
- Set run-on time, switch-on delay, pause times, boost times

ⓘ

- During operation with the app, there must be a Bluetooth connection between the Aviant and the mobile device. Note the range.
- The following functions can be set exclusively via app:
  - Boost function (maximum air flow volume for a defined period of time).
  - Automatic basic ventilation cycles.
  - Pause the Aviant, and
  - Set the pause duration.
- The air flow volumes of the humidity and air quality sensor are interconnected. Therefore, they cannot be set independently of each other. If the air flow volume is changed in one of the two setting menus, an adjustment to the same value is automatically made in the other. This applies equally to the air flow volume of the light sensor and run-on time.
- For certain functions, e.g. run-on time, the app offers more selection options than operation on the control panel.

5 Cleaning and care

CAUTION: Rotating parts on the fan lead to injuries.

- Before working on electrical equipment, disconnect all affected equipment from the power supply (switch at the bottom left of the control unit).

CAUTION:
Cleaning by children and persons with limited abilities may result in injury to parts of the body and/or malfunction of the ventilation system!

- The Aviant must not be operated and cleaned by children and/or persons who, due to their physical, sensory or mental capabilities, inexperience or lack of knowledge, are not safely able to do so, unless they are supervised by a person responsible for their safety or have been instructed by him/her on how to operate the ventilation unit.

The Aviant is virtually maintenance-free. The necessary cleaning and maintenance work can be carried out by the user after a short instruction.

The measures and intervals listed here are recommendations by inVENTer GmbH to maintain the functional and performance capability of your Aviant.

Depending on your needs and/or air quality, your personal cleaning schedule may vary from these recommendations.

Interval	Assembly	Maintenance measure
Monthly	Fan housing	Clean the surface with a damp cloth.
Semiannual	Fan unit	Remove the fan unit from the fan housing and clean it with a damp cloth.

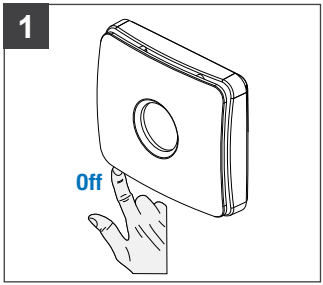
Cleaning agents:

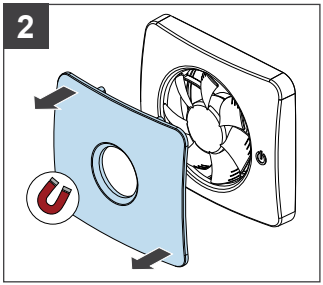
The Aviant extractor fan has a plastic surface that is sensitive to scratches. Do not use cleaning agents containing sand, soda, acid or chlorine to avoid damaging the surface.

A commercial dishwashing detergent in warm water can be used to clean the surfaces.

NOTICE Malfunction/no function of the ventilation unit due to damage of the fan (water penetrating).

- The fan of the ventilation unit must not be immersed in water or sprayed directly with water.


1
Off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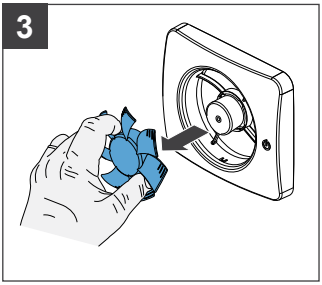
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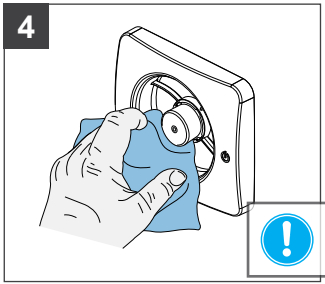
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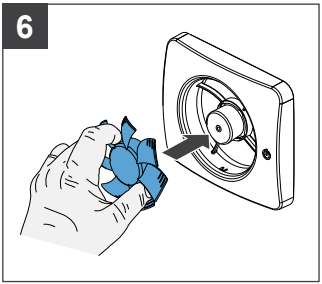
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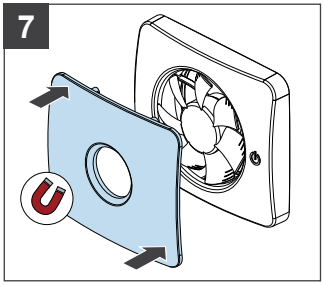
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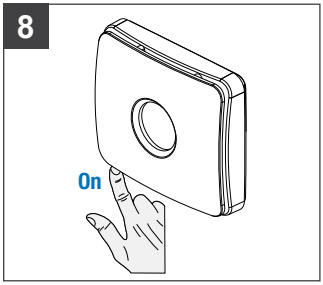
8
On

6 Accesories and spare parts

Component	Oder number
Accesories	
Wind screen insert WSE R-D100	1004-0173
Spare part	
Inner cover (magnetic)	3006-0324

7 Warranty and guarantee

Warranty
Outside Germany, the national warranty regulations of the country in which the system is sold apply. Contact the distributor of your home country.
The warranty covers all defects that were present at the time of purchase. Observe the intended use in order to maintain the warranty claim.

Manufacturer guarantee
inVENTer GmbH provides a five-year warranty for the Aviant extractor fan. This covers premature product wear. Information on the warranty conditions can be found at www.inventer.eu/guarantee.

Warranty and guarantee claim
In the event of a warranty or guarantee claim, contact the dealer or factory representative responsible for you. In any case, send the complete unit back to the manufacturer. The warranty claim is an additional offer by the manufacturer and does not affect applicable law in any way.

8 Service

Complaints
Check the delivery for completeness and transport damage upon receipt, using the delivery note. Complain about missing items immediately, at the latest within 14 days, to your supplier, distributor or factory representative.

Accesories and spare parts
To order components for your ventilation unit, contact your factory representative or our service staff.

Technical customer service:

For technical advice, please contact our technical service staff:

+49 (0) 36427 211-0
+49 (0) 36427 211-13
info@inventer.de
www.inventer.eu

Disposal
Dispose of the product in accordance with the applicable national regulations. Contact a disposal company for electronic equipment for an enviromentally friendly recycling and disposal of your old system.

The disassembly required for disposal is performed in reverse order of assembly (📖 Aviant installation instructions [www.inventer.eu/downloads]).

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We accept no liability for printing errors.

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