

# AERO

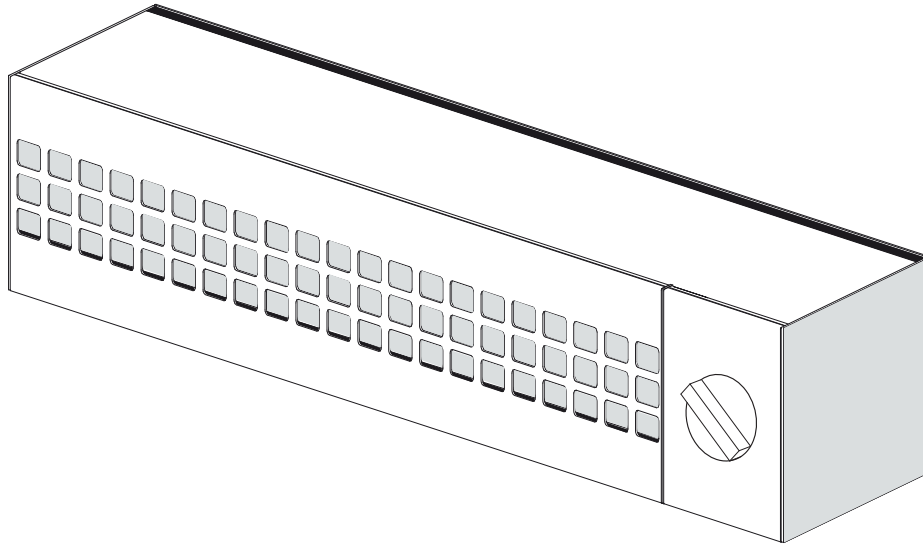
## AEROMAT 150

Sound absorbing ventilator.

Window systems

Door systems

Comfort systems



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## Target group of this documentation

This documentation is intended for use by specialists only. All work described in this document is to be performed by experienced professionals with training and practice in the installation, commissioning and maintenance of ventilation units. Safe and proper assembly of this unit is not possible without expert knowledge.

## Correct use

- The AEROMAT 150 is intended for installation in the exterior windows/walls of permanent structures in accordance with our installation and design documents as well as the specifications of our assembly instructions and is only suitable for the ventilation of enclosed rooms.
- Do not use the AEROMAT 150 in environments with corrosive or explosive atmospheres (dust, vapour or gas).
- Use the AEROMAT 150 only with genuine accessories from SIEGENIA.
- Observe the safety regulations for operating electrical equipment and, if necessary, for ladders, steps and work overhead or at certain heights.
- Use the AEROMAT 150 only when it is in a technically sound condition.
- Do not modify the unit's components in any way.
- Ventilation openings must be kept free and must not be blocked by other equipment, furniture or objects.
- Please do not put any objects on top of the unit.
- In the event of a fault, only have the AEROMAT 150 repaired by experienced specialists with training and practice in the repair of ventilation units.
- Any use of this product that is not in accordance with its correct use, or any adaptation of or modification to the product and its associated components for which the express consent of SIEGENIA has not been obtained, is strictly prohibited. SIEGENIA accepts no liability whatsoever for any material losses or injury to people caused by failure to comply with this stipulation.

## Safety notices

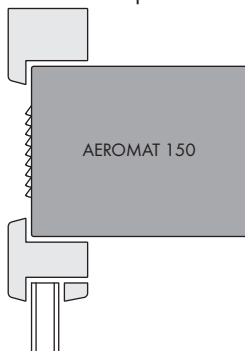
### Type DK

- This unit can be used by children aged 8 and above as well as by people with physical, sensory or mental difficulties or with a lack of experience and knowledge as long as they are supervised or have been instructed in how to use the unit safely and understand the resulting risks. Children must not play with the unit. Cleaning and user maintenance must not be carried out by children without supervision.
- Electrically operated unit. Risk of fatal injury from electric shock or fire.  
To prevent personal injury or damage to property, always comply with the following instructions:
  - Work on a 230 V AC mains power supply may only be performed by a qualified electrician.
  - If the mains connection cable for the unit is damaged, it must be replaced by SIEGENIA, the company's customer service department, or similarly qualified personnel in order to prevent personal injury or damage to property.
  - All-pole safety isolation is required if the customer is routing the network connection cable.
  - All work on the 230 V AC mains power supply must be carried out in compliance with the current German VDE regulations (e.g. VDE 0100) and any relevant country-specific requirements.
  - Relevant country-specific regulations must be strictly followed for all work carried out on the voltage supply system or house wiring system.
  - Should a solid object or any liquid get inside the unit, stop operation immediately and disconnect the AEROMAT 150 from the mains power supply:  
Check whether the AEROMAT 150 is damaged  
If necessary, repair work can be performed by experienced professionals

## Installation

### Prerequisites for installation

- The position from which the outdoor air is drawn in must be selected in such way that any nearby emission sources have as little impact as possible on the quality of the air being drawn in.
- Installation option: Installation in impost



### Installation sequence

1. Carefully remove AEROMAT 150 from the packaging. We recommend placing the unit on a soft surface (e.g. cardboard or blanket) during installation.
2. Type DD: Close the plate on the front to prevent contamination (e.g. dust) from entering the unit during installation.
3. Install the AEROMAT 150 in its intended installation position and seal it in accordance with the installation directives applicable on site.
4. Check AEROMAT 150 for cleanliness prior to starting it up. If necessary, clean the unit thoroughly as described in our operating and maintenance instructions.

## Mains supply

The AEROMAT 150 is connected directly to the 230 V AC mains power supply using an external switch.

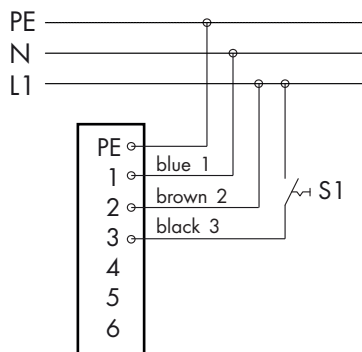
**⚠ WARNING Exposed electrical components.**  
**Risk of fatal injury from electric shock or fire.**

- › Work on a 230 V AC mains power supply may only be performed by a qualified electrician.
- › All work on the 230 V AC mains power supply must be carried out in compliance with the current German VDE regulations (e.g. VDE 0100) and any relevant country-specific requirements.
- › Switch off or unscrew the fuses.

**Important:** If the AEROMAT 150 is connected directly to the 230 V AC mains power supply, a mains isolator must be installed by the customer.

- › Wire the circuit according to this circuit diagram

### Connection Type DK



### Switch assignment

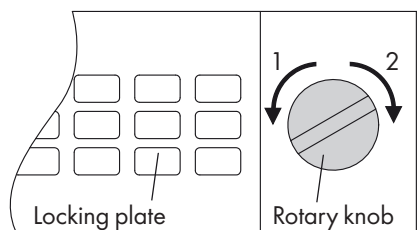
S1	Opening and closing of the locking plate
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## Unit function

### Pressure differential operation

- The room is ventilated as the indoor and outdoor air pressures are equalised (pressure differential). As this happens, the air normally flows from outside into the room.
- The air flow into the room varies as the wind pressure changes with the weather.

## Operation



**Type DD:** The rotary knob allows you to open and close the locking plate. You may continuously adjust the required airflow between both end positions of the rotary knobs.

**Type DK** (with 5-wire connecting cable): The locking plate may only be opened and closed by external switches, e.g. AF1, or controlled via external units.

**Cleaning**

**⚠ WARNING Cleaning the unit!**

- › Switch off all poles of the mains cable.
- › If required, clean the outer parts of the AEROMAT 150's casing using a suitable cloth, which has been moistened with a mild soap solution or washing-up liquid.
- › Never use cleaning agents that are aggressive or contain solvents, as these may damage the surface of the unit.
- › When cleaning the unit, prevent liquid from entering the casing.
- › Never clean the unit with a high-pressure cleaner or steam-jet cleaner.

**Accessories**

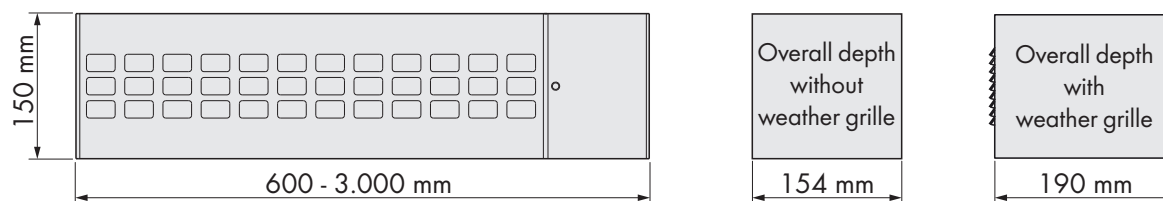
Please indicate the desired lengths for the aluminium profiles (see order form AEROMAT 150).

Designation	Material no.	Use
Flush switch AF1, single, white	128032-001	Type DK
Surface-mounted casing for switch AF1, white	149027	
Aluminium profile 20 x 20 x 2 mm, white (RAL 9016)	aer.winkel 20x20x2	Types DD, DK
Aluminium profile 20 x 20 x 2 mm, silver (EV 1)		

**Technical specifications**

Specification for a AEROMAT 150	Type DD	Type DK
Sound absorption ( $R_{w1,q}$ )	44 dB	44 dB
Sound absorption in accordance with DIN EN ISO 20140-10 ( $D_{n,e,w}$ )	51 dB	51 dB
Air throughput (measured at 10 Pa pressure differential, 1200 mm ventilator length and with weather grille 910 CW-1)	approx. 60 m <sup>3</sup> /h	approx. 60 m <sup>3</sup> /h
Electrical connection	-	230 V~; 0.01 A
Protection class I	-	✓
U-value (calculated in accordance with ISO 6946)	2.7 W/m <sup>2</sup> K	2.7 W/m <sup>2</sup> K
Cable outlet on the operating side of the ventilator, unit cable approx. 1.5 m	-	✓
Surface EV1 silver or RAL 9016 white coated (RAL special colours available on request)		

**Dimensions**



Depending on the type, the required space increases due to operating elements on the unit.

## Liability

### Intended use

Any use of this product that is not in accordance with its correct use, or any adaptation of or modification to the product and its associated components for which our express consent has not been obtained, is strictly prohibited. We accept no liability whatsoever for any material losses or injury to people caused by failure to comply with this stipulation.


### Product liability

Our products are guaranteed – subject to correct installation and proper use – for a period of one year from the date of receipt by a company (according to our general terms and conditions) or as otherwise agreed, and for a period of two years for end consumers, in accordance with statutory provisions. As part of our ongoing improvements, we reserve the right to replace individual components or entire products. Consequential losses resulting from defects are excluded from the warranty within the limits of the law. The warranty shall become void if modifications that are not authorised by us or have not been described in this documentation are performed on the product and/or individual components, or if the product and/or individual components is/are dismantled or partly dismantled, and the defect is due to the changes made.

### Disclaimer of liability

The product and its components are subject to stringent quality controls. As a result, they function reliably and safely when used correctly. Our liability for consequential losses and/or claims for damages is excluded, except in the case of wilful misconduct or gross negligence, or where we are responsible for injury to life, physical injury or damage to health. Strict liability under the German Product Liability Act (Produkthaftungsgesetz) remains unaffected. Liability for the culpable violation of significant contractual obligations also remains unaffected; liability in this case is limited to losses that are specific to the contract and that could have been foreseen. The above regulations do not imply a change in the burden of proof to the detriment of the consumer.

### EU Declaration of Conformity

 We, SIEGENIA-AUBI KG, declare under our own responsibility that the product complies with the provisions of Directives 2004/108/EC and 2006/95/EC of the Council of the European Union.

### Environmental protection

Although our products do not fall within the scope of the German Electrical and Electronic Equipment Act (ElektroG), SIEGENIA will continue to meet the requirements of this Act and will endeavour to completely eliminate the use of substances that are hazardous to the environment as soon as this becomes technically feasible. Electrical products should not be disposed of as household waste.

### Feedback on documentation

We welcome your comments and suggestions on how to improve our documentation. Please email your comments to [documentation@siegenia.com](mailto:documentation@siegenia.com).

# **SIEGENIA®**

brings spaces to life

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