AEROMAT mini

Window ventilator with optional turn lock.
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General Information

Target group of this documentation

- This documentation is intended for use by assembly companies and end users.
- All installation work described in this document is to be performed by experienced professionals only who have 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.
- All instructions on operation and maintenance described here are intended for end users.
- After the successful assembly, the installation company is committed to handing over the assembly instructions to the end user.

Intended use

- The AEROMAT mini is a passive air ventilator for installation in the top third of timber, PVC and aluminium windows and French doors.
- The AEROMAT mini in connection with motorised ventilation units is only conditionally suitable as an outlet for exhaust and supply air. An inspection of the entire system, according to the ventilation concept, must be carried out prior to installation.
- Ensure that the air channels are unobstructed:
  - Depending on the profile system and profile geometry, as well as blocking the rebate by hardware components, the volume flow can be reduced.
  - The performance of window system testing is recommended.
- Under extreme weather conditions, condensation may form in the air canal or in the groove of the hardware, depending on the particular installation situation. This is a physical effect and does not indicate a defect.
- AEROMAT mini is only to be used if it is in a technically sound condition, and no modifications may be made to the unit and/or its components.
- Keep ventilation openings free and do not block them with furniture or other objects.
- Only use AEROMAT mini with original accessories from SIEGENIA.
- In the event of a fault, have AEROMAT mini checked and repaired by experienced specialists only.
- For windows with concealed bottom and top hinges, the optional turn lock can only be installed horizontally in the top and in the locking side.

Improper use

- The AEROMAT mini may not be installed vertically at the bottom of the frame.

Dimensions

- All the dimensions in this documentation are specified in mm.
Function

The AEROMAT mini is a passive air ventilator for installation in the upper third of the window. The room is ventilated as the indoor and outdoor air pressures are equalised (pressure differential). Normally, air flows from outside into the room.

In event of wind pressure (e.g. storm) the self-regulating flow control reduces an excessive air flow or draught indoors.

You can also open and close the air inlet manually using the optional turn lock.
Installation of the AEROMAT mini

Assembly requirements

- We recommend the installation of 2 AEROMAT mini per window (depending on the size of the window).
- During installation, ensure that the air channels are unobstructed!

Installation steps

1. Frame: Position the AEROMAT mini

   - Screw the AEROMAT mini onto the frame.
   - with surface-mounted hinge side:
     - Top, horizontal
     - Locking side
     - on the hinge side between the pivots (top hinge, bottom hinge, corner hinge)
   - with concealed hinge side:
     - Top, horizontal
     - Locking side

   Note: The arrangement of 1 or 2 AEROMAT mini is freely selectable within the marked assembly area.

   Attention! The installation position of the AEROMAT mini is independent of the profile and hardware and must be checked for each window system before installation. The performance of window system testing is recommended.
2. Frame: Mark the installation position

- Mark the position of the unit and fixing holes

3. Sash profile: Transfer the marking of the unit position
4. Sash profile: Remove stop and centre seals

5. Frame: Drill fixing holes

- Drilling with jig
- Drilling without jig
6. Cut the recesses (only for timber windows)

- An appropriate timber protection treatment is necessary for all milled areas.

- Cutting with a milling jig
  1. Mark the position of the centre of the unit (62.5)
  2. Attach the milling jig to the centre of the unit marking on the sash profile.
  3. Use a router guide to cut a 18 mm deep and 4 mm high recess
     (spacer disc Ø 27 mm, milling jig Ø 8 mm)

- Cutting without a milling jig
7. Frame: Fix the AEROMAT mini

- Use two suitable sash lifter screws (not included in the scope of delivery) to install the AEROMAT mini
8. Frame: Remove stop and centre seals

- In order to maintain an unobstructed air flow through the window rebate, you must remove the stop and centre seals in the frame.
- For vertical installation of the AEROMAT mini, the recesses of the seals must be positioned below the AEROMAT mini.

Possible positions for the recess of the stop and centre seals

- The displayed recess of the stop and centre seals must be prepared 2x per built-in AEROMAT mini (e.g. on the locking side and on the hinge side).

Attention! The suitable position for the cable outlet of the stop and centre seals is dependant on the installation of the AEROMAT mini.
Installation of the turn lock

Assembly requirements

- The AEROMAT mini must be preassembled (installation AEROMAT mini, see page 6).
- A 90° limit stay must be installed for aluminium windows with SIEGENIA hardware and surface mounted hinge side.
- When using hardware made by third-party manufacturers, make sure that the turn lock does not collide with the sash before installation.
- For windows with concealed bottom and top hinges, the turn lock must be installed horizontally or vertically at the top of the locking side.

Installation steps

1. Mark the fixing holes (from the edge of the window frame to the centre hole: observe X dimension) and drill
2. Push the turn lock bracket under the sealing lip of the air outlet AEROMAT mini.
3. Fix the bracket using suitable sash lifter screws (e.g. 4 x 35 mm, not included in the scope of delivery)
4. Clamp turn lock into the bracket.
5. Attach operating sticker to the window near to the turn lock.
Operation of the turn lock

Open

Close

Care and maintenance

Cleaning

• Never use cleaning agents that are aggressive or contain solvents, or sharp-edged objects, as these may damage the surfaces of the casing.

• Never clean the unit with a high-pressure cleaner or steam-jet cleaner.

• Clean the AEROMAT mini and the turn lock with a cloth moistened with a mild soap solution or cleaning agent.
AEROMAT mini Installation and operating instructions

Technical specifications

<table>
<thead>
<tr>
<th>AEROMAT mini</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount of air (approx.) 1)</td>
<td>for 2 Pa  up to 2 m³/h 2)</td>
</tr>
<tr>
<td></td>
<td>for 4 Pa  up to 3 m³/h 2)</td>
</tr>
<tr>
<td></td>
<td>for 8 Pa  up to 5 m³/h 2)</td>
</tr>
<tr>
<td></td>
<td>for 10 Pa up to 6 m³/h 2)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>125 mm x 21.3 mm x 16.4 mm</td>
</tr>
</tbody>
</table>

Turn lock

| Dimensions (W x H x D)       | 125 mm x 18 mm x 22.5 mm |

1) measured according to DIN EN 13141-1
2) when installed in pairs independently of profile and hardware

Accessories

<table>
<thead>
<tr>
<th>Material description</th>
<th>Packaging unit</th>
<th>Material number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jig: drilling jig PVC/timber</td>
<td>1 unit</td>
<td>L4210080-522010</td>
</tr>
<tr>
<td>Jig: drilling jig LM</td>
<td>1 unit</td>
<td>L4210090-522010</td>
</tr>
<tr>
<td>Jig: routing template timber for 9 mm groove axis</td>
<td>1 unit</td>
<td>L4210070-522010</td>
</tr>
<tr>
<td>Jig: routing template timber for 13 mm groove axis</td>
<td>1 unit</td>
<td>L4210210-522010</td>
</tr>
<tr>
<td>Turn lock for AEROMAT mini</td>
<td>25 unit</td>
<td>L4210200-0V0040</td>
</tr>
</tbody>
</table>
Information concerning product 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 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.

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 damage resulting from defects are excluded from the product liability within the limits of the law. The product liability 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.

Feedback on documentation

We welcome your comments and suggestions on how to improve our documentation. Please email your comments to dokumentation@siegenia.com.
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