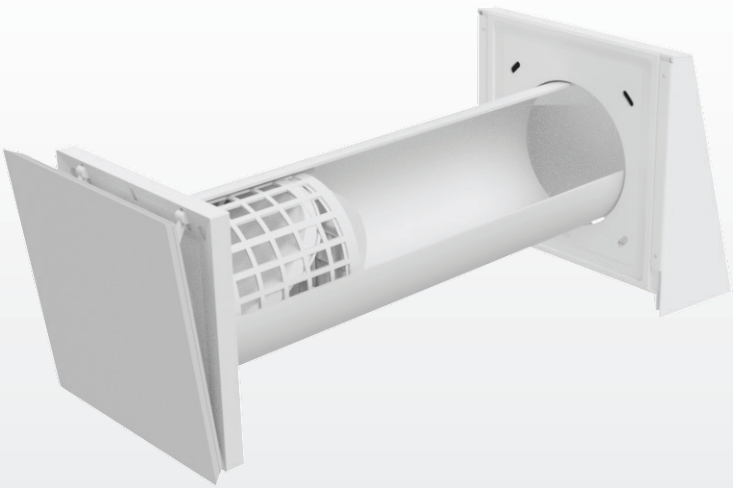
inVENTer

Installation instructions

aV100 ALD



Ventilation device

without heat recovery

www.inventer.eu

Trademarks, copyrights and industrial property rights

Disclaimer

This documentation represents a translation of the original German installation instructions. It must be passed on to the user (tenant, owner, property management, etc.) after completition of the installation.

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 range.
For reasons of clarity, the documentation does not contain all detailed information on all types of the product and cannot take into account every conceivable case of operation, installation and assembly.

The illustrations in this documentation may differ slightly from the design of the product you have purchased. The function remains the same despite the difference in detail.

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.**

Company Information

Publisher:

inVENTer GmbH
Ortsstraße 4a
D-07751 Löberschütz
Germany

Telefon: +49 (0) 36427 211-0
Fax: +49 (0) 36427 211-113
E-Mail: info@inventer.de
Web: www.inventer.eu

CEO: Annett Wettig
VAT ID number: DE 815494982
Jena District Court HRB 510380

Table of contents

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 occur, the safety note for the highest level is always used.

The safety instructions and warnings 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.

If you see these signs, follow the measures described
to avoid possible danger and damage.

Other symbols used in this documentation

In addition to the safety and warning instructions, the following symbols are used:

A **TIP**symbol indicates practical and useful tips for handing your ventilation device.

Additional **tools and aids** are required.

Red bar over a graphic: Illustration shows the outer wall.

Blue bar over a graphic: Illustration shows the outer wall.

► **Action required**: This prompts the user to perform a specific action.
⇨ **Check results**: Requires user to check results ofthe action performed.
! **Action focus**: To be taken into account in the corresponding assembly step.

1.2 Safety instructions

The operating instructions are part of your ventilation device and must be available at all times (see www.inventer.eu/downloads). When handing over the unit/system to third parties, the information on access to the installation instructions must also be handed over.
Be sure to read through the installation instructions carefully before carrying out any work on the device/system and observe all the instructions for installation given in this chapter. In addition, observe the safety instructions that precede the instructions described. Failure to observe the safety instructions may result in personal injury and/or damage to property.

Intented use

The external wall air diffuser aV100 ALD is used to supply fresh air in accordance with DIN 18017-3 or DIN 1946-6 in residential spaces and supplements the extract air device.

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

General information

- Observe the applicable standards, regulations and directives when carrying out work. In particular, also applicable building regulations, the fire protection ordinance and accident prevention regulations of the employers' liability insurance association.
- Only use the components in accordance with the applications described in this documentation. Modifications or conversions to the device are not permitted.
- The ventilation device was developed exclusively for use in ambient temperatures within -20 - 50 °C and the components of this installation variant may also only be used in this temperature range.
- Faultless and safe operation of the device/system requires proper transport, storage and assembly as well as careful maintenance.

Installation and assembly

- **CAUTION: The system may only be installed by qualified personnel.**
Before starting work, you should have a project plan showing the number of ventilation devices, the location of the ventilation devices and the ventilation principle (cross-ventilation, individual room ventilation, exhaust ventilation). The exact positioning of the individual devices and control units must be checked on site and, if necessary, adapted to the conditions on site with the involvement of the responsible planner or the user. For optimal functioning, it is recommended that the device be installed at an appropriate location in the upper wall area.

- **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.

- **NOTICE:** The ventilation device is not suitable for drying out buildings. Do not operate the device until all construction work has been completed.
- **NOTICE:** Contamination of components by e.g. plaster residues will damage the components! Seal the ventilation device/air outlets of the ventilation unit dust-tight during the entire construction work. Do not remove any thread locks until final assembly.

- **NOTICE:** Do not install the unit near room air thermostats or in the immediate vicinity/above sensitive pictures or furniture.
- **NOTICE:O**bserve the specified minimum distances on both sides of the wall and frontally to avoid unintentional mixing of different air volume flows and to ensure access to the unit and its components. A minimum distance of 1.2 m must be maintained between adjacent air openings. (🕮, page 11).
- **NOTICE:** The wall sleeve must be integrated into the building envelope (airtightness level) in accordance with the current state of the art, taking into account constructional and physical specifications ("RAL installation"). The material for this is to be provided by the customer.
- **NOTICE:** Install the wall sleeve with aslope of 1 - 2° to the outer wall to ensure that any condensation that may occur is drained off.
- **NOTICE:** Store components standing upright outside the wall sleeve and do not throw them to avoid damage and breakage of the components.
- **NOTICE:** To prevent algae from settling around the outer closures, the installation instructions must be followed exactly (apply all sealing tapes!). We recommend a biocide pre-setting/water-repellent pre-treatment of the façade surface around the exterior finishes. Ask your planner about this!
- **NOTICE:** When mounting components in (exterior) walls with insulation, use insulation anchors to ensure secure fastening of the components.
  Insulation anchors are not included in the scope of delivery, they are optionally available!
- **NOTICE:** Use only permanently elastic sealing compound suitable for outdoor use to seal the joints at all outdoor terminations!
- **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.

If your device has a defect, contact the factory representative responsible for you or our technical service.

Improper use

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

Do not install/operate the equipment in areas where the following may enter or occur:

- Environment with high oil or grease content.
- Flammable gases, liquids or vapours.
- Extreme dust exposure.
- Enviroment temperatures outside -20 – 50 °C
- Obstacles preventing access to or removal of components of the ventilation device.

The ventilation unit is not to be used as an opening to the outside and/or for the purpose of smoke discharge/
smoke extraction in basements without windows.

Qualified personnel

Qualified personnel in the sense of the safety instructions in this documentation are persons who are authorized to install, commission and label devices, systems and circuits in accordance with safety engineering standards.

2 System overview Ventilation device aV100 ALD

The external wall air diffuser aV100 ALD is used to supply fresh air in accordance with DIN 18017-3 or DIN 1946-6 in residential spaces and supplements the extract air device. It consists of an insert with adjustable inner panel, integrated wind protection and filter, as well as a wall sleeve and a freely selectable outer cover. The installation is made in the outer wall.

The ALD insert, including all filters and wind protection, is easily accessible on the inside. The air volume is regulated on the inner panel, where there is a mechanism for changing the opening angle. The filter integrated into the filter catridge ensures that no pollen or dust from outside enters the interior.

The standard length of the wall sleeve is 495 mm. For larger wall thicknesses, a wall sleeve with additional lenght can be ordered. Both versions can be shortened on site.

Components

- Inner panel (insulated / lockable)
- Filter cartridge incl. filter ISO Coarse (G1)
- Wall sleeve
- External closure[1)]
- Pollen filter (optional)

Models

The ventilation devices of the aV100 ALD product series differ in their external terminations. This documentation only contains information on the Basic and Plus variants of the ventilation device.

For information on the variants of the external closures, please refer to the separate installation instructions of the respective component.

- **Basic variant:** Ventilation devices aV100 ALD equiped with a square weather protection grille aV100 (in the further text referred as “Basic”).
- **Plus variant:** Ventilation devices aV100 ALD Plus (in further text referred as “Plus”) equipped with a rain-proof weather protection hood Flex aV100 (white/grey/anthracite/special colour).
- **Corner variant:** Ventilation devices aV100 ALD Corner (in further text referred as “Corner variant”) for integration of the external closure into the window reveal (white/grey/anthracite/nord/special colour).
- **Nodic variant:** Ventilation devices aV100 ALD Nordic (in further text referred as “Nordic variant”) for integration of the external finish into masonry brick walls (white/grey/anthracite/nord/special colour).

1) External closure “Flex aV100” made of aluminium

2.1 Construction

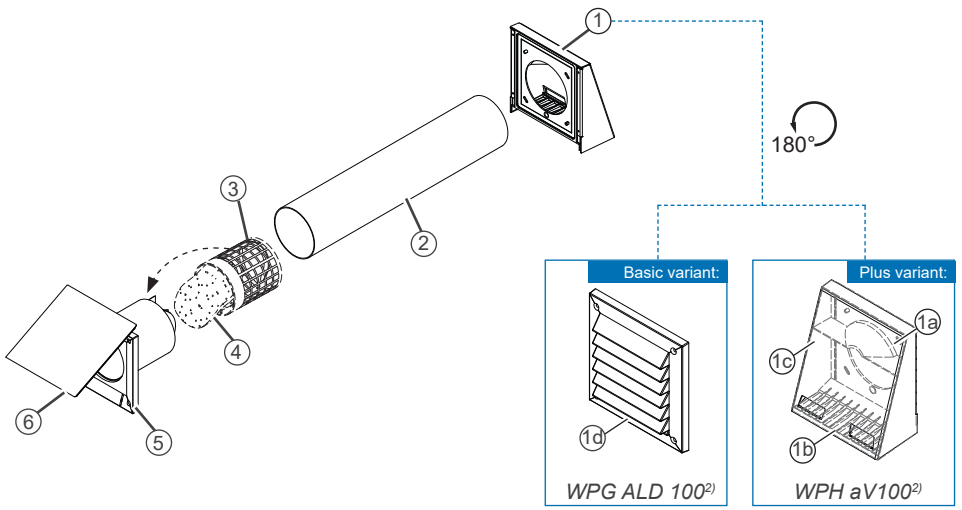


Figure 1: Overview ventilation device aV100 ALD Plus

Components

1 External closure[1)]
- 1a) Base plate WPH[2)] Flex aV100
- 1b) Drip edge
- 1c) Cover WPH[2)] Flex aV100
- 1d) Weather protection grille aV100

2 Wall sleeve
3 Filter cartridge with wind protection
4 Filter ISO Coarse (G1) (pre-assembled)
5 Inner panel base plate ALD100
6 Inner panel cover ALD 100

1) The description of the components of all other possible external closures can be found in the separate installation instructions of the respective external finish.

2) WPH= Weather protection hood | WPG= Weather protection grille

2.2 Functions

Exhaust devices and air vents

The ALDs are installed in the supply air room, which forms a room compound with the extract air device.

Due to the negative pressure generated by the extract air device, the outside air flows in automatically.

The fresh air outlets have a filter system to ensure minimum hygienic requirements and are equipped with a wind protection as standard.

The air volume is regulated in the lower area of the inner panel.

There is a mechanism for changing the opening angle.

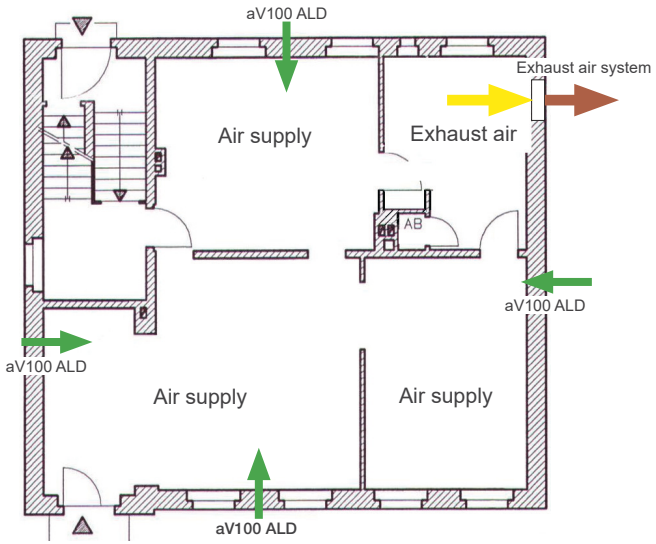


Figure 2: Installation example: Aventus extract air system in conjunction with aV100 ALD as fresh air supply

3 Preparing for installation

3.1 Installation Position

- The installation location can be derived from the positioning proposal of the ventilation planning. The exact positioning of the individual devices and control units must be checked by the customer and adjusted on site if necessary. **Consult the responsible planner about this!**
  For optimum function, it is recommended that the ventilation device is installed at an appropriate point in the upper wall area (e.g. 1.80 m UEFF [upper edge of finished floor]).
- Do not place the ventilation unit above radiators, room thermostats, sensitive furniture and/or pictures.

Minimum distances of the wall opening for the ventilation device:

- Minimum distances to components / building elements on the internal and external wall:

NOTICE: Malfunction due to incorrect positioning of the ventilation device.
- Note insulation thickness and possible shutters!
- Do not install near radiators!
- Observe minimum distance of 1.2 m to adjecent air openings!

- The aV100 ALD must not be covered by cabinets or porches The outside air must be able to flow in freely .
- Mantain a minimun circumferential clearence of 250 mm.
- Installation should be performed close to the ceiling to obtain better air distribution.

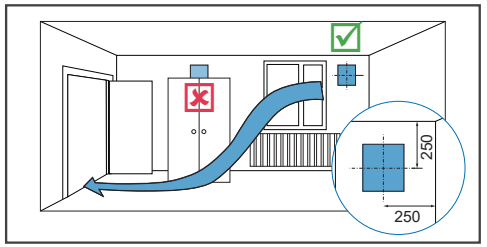


Figure 3: Installation Position aV100 ALD

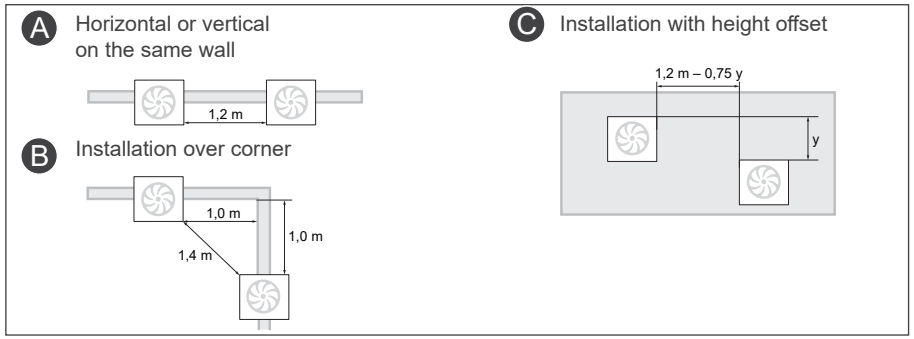
- Install the wall opening above a radiator.
  This ensures that the inflowing air is pre-heated when entering the interior.
- Position the ventilation device in such a way that the air does not flow directly into the occupied zone of the users. Maintain a distance of 1 - 1.2 m to the common area.
- To ensure that the device does not interfere with other ventilation and that its function is not interfered with by other ventilation processes, it must always be installed in its own wall sleeve.
- The velocity of inflowin air should be kept at minumim required in order to avoid cold draughts.

Minimum distances to components / building elements on the internal and external wall:

- to the inner- and outer wall:

Component closure	Distance from centre of hole at the		
	Outer wall [mm]	Inner wall [mm]	frontal [mm]
Weather protection grille ALD100	250	–	60
Weather protection hood Flex aV100	250	–	250
External closure Corner	250... 385 to soffit 250 (above, below, sideways)	–	–
External closure Nordic	250 circumferential		
Insert unit ALD100	–	250	250

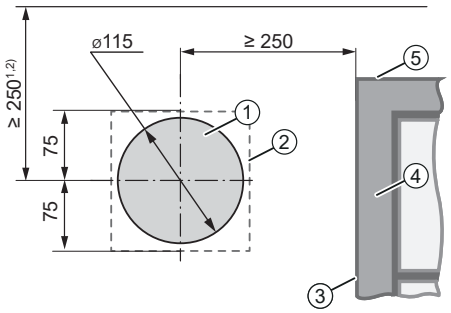
- between two ventilation devices (pair of devices) in a room:



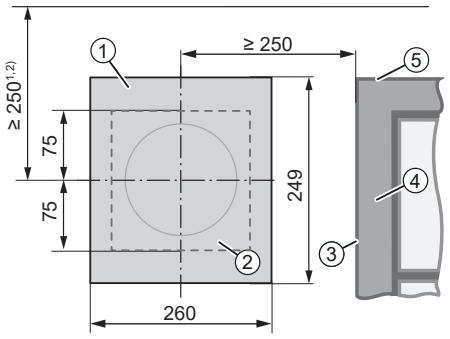
3.2 Position of the wall opening

For the positioning of the wall sleeve of other variants of your ventilation unit see the installation instructions of your special external termination.

Ventilation device Basic variant [weather protection grille aV100]

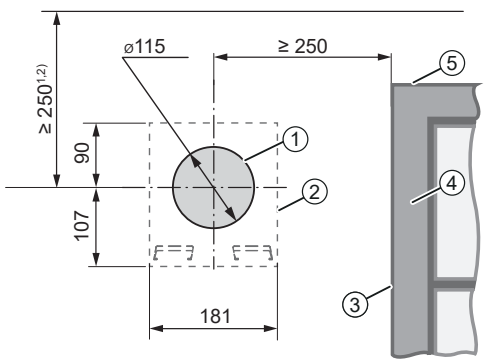


Position of the wall opening



Positioning wall mounting system Simplex

Ventilation device Plus variant [weather protection hood Flex aV100]



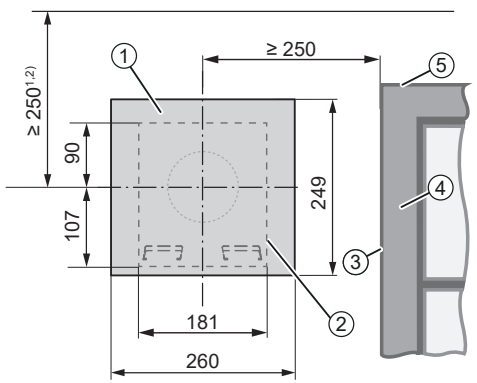


Figure 4: Dimensioned drawing of wall opening aV100 ALD (interior view) with weather protection grille aV100 [top] and weather protection hood Flex aV100 [bottom].

1 Wall opening (Fig. 4, left, above and below)
Wall installation system Simplex (Fig. 4, right)
2 Contour Weather protection hood [3)]
3 Soffit
4 Door-/Window frame
5 Bottom edge of lintel[4)]

[1)] Min. distance to adjacent components on the inner wall
[2)] Min.distance to adjacent building components on the outer wall
[3)] Recommendation: Fit weather protection hood at the same level
[4)] Consider insulation thickness and possibly roller shutters

3.3 Sectional drawings ventilation device

For the positioning of the wall sleeve of other variants of your ventilation device see the installation instructions of your special external termination.

Sectional drawing of aV100 ALD ventilation device, Basic variant

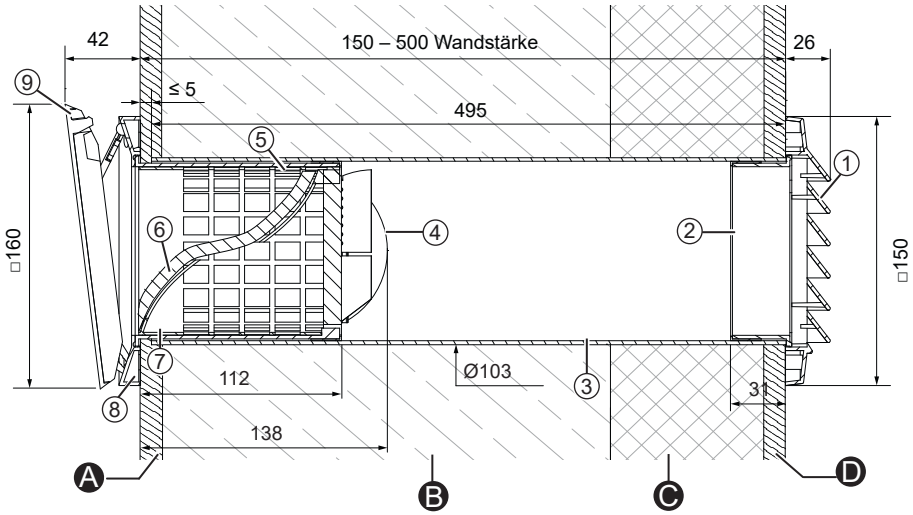


Figure 5: Sectional drawing of aV100 ALD ventilation device with weather protection grille aV100

A Interior plaster/ interior structure
B Masonry
C Insulation
D Exterior plaster

1 Weather protection grille aV100
2 Socket weather protection grille aV100
3 Wall sleeve R-D103
4 Wind protection
5 Filter cartridge
6 Dust filter ISO Coarse (G1)
7 Socket inner panel panel ALD 100
8 Inner cover base plate ALD100
9 Inner cover panel ALD 100

Sectional drawing of aV100 ALD ventilation device, Plus variant

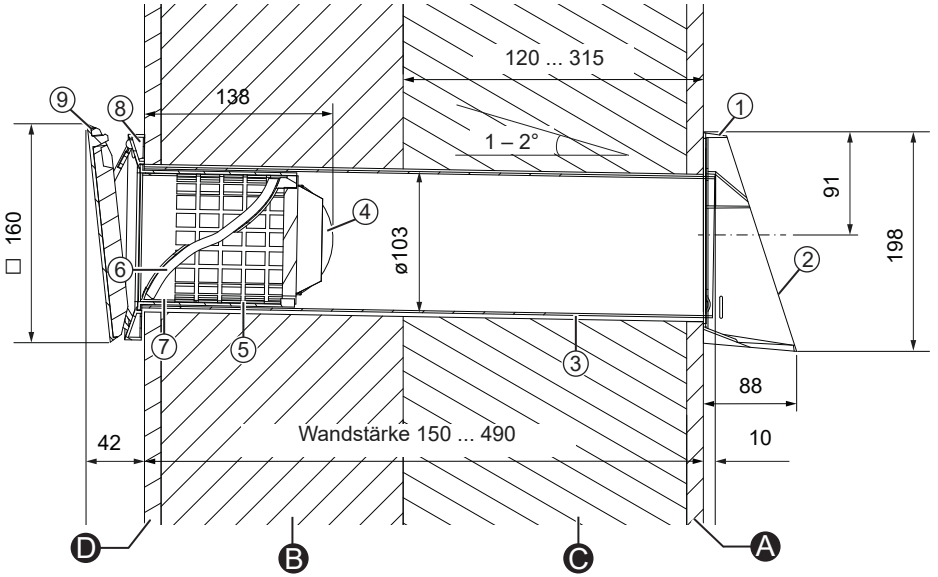


Figure 6: Sectional drawing of aV100 ALD ventilation device with weather protection hood Flex aV100

A Interior plaster/ interior structure
B Masonry
C Insulation
D Exterior plaster

1 Base plate WPH [1)] Flex aV100
2 Cover WPH [1)] Flex aV100
3 Wall sleeve R-D103
4 Wind protection
5 Filter cartridge
6 Dust filter ISO Coarse (G1)
7 Socket inner panel panel ALD 100
8 Inner cover base plate ALD100
9 Inner cover panel ALD 100

[1)] WPH: Weather protection hood

3.4 Dimensional drawings of the components

Weather protection grille aV100

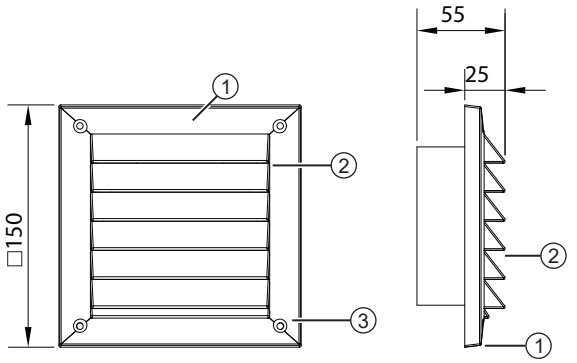


Figure 7: Dimensional drawings weather protection grille aV100

1 Frame
2 Slats
3 Fixing hole outer wall (4x)

Weather protection hood Flex aV100

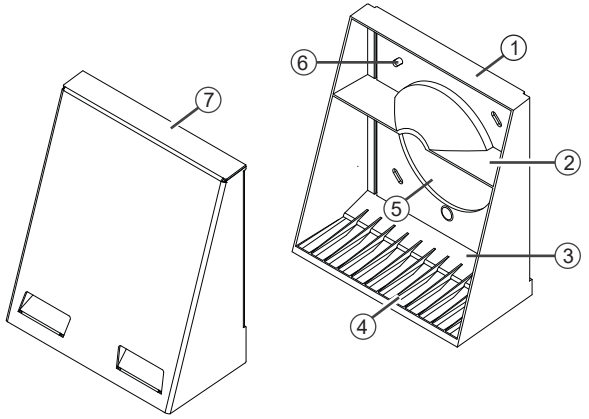


Figure 8: Weather protection hood Flex aV100

1 Weather protection hood base plate
2 Air volume flow guide
3 Drip edge top
4 Protective grid
5 Opening wall sleeve
6 Fixing hole outer wall (4x)
7 Weather protection hood cover

Inner panel

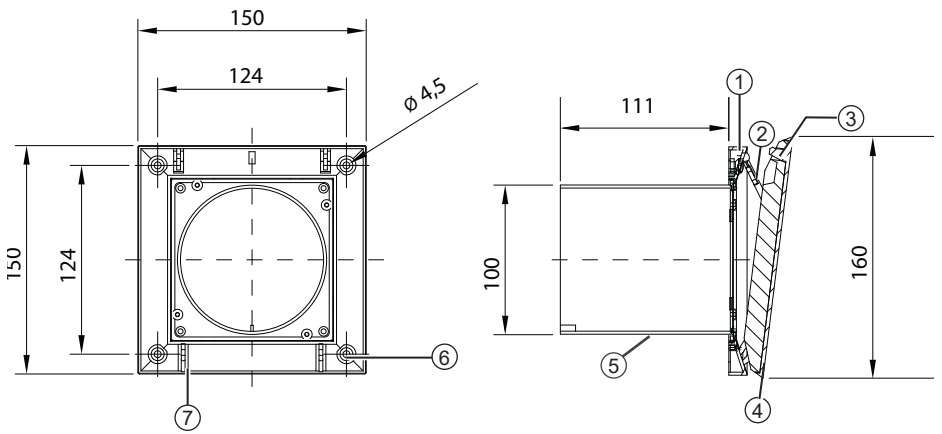


Figure 9: Dimensional drawings inner panel panel ALD 100

1 Inner cover base plate
2 Connecting element
3 Snap-in hook
4 Cover inner panel
5 Insert unit
6 Fixing hole inside wall (optional)
7 Fastening cover inner panel

3.5 Dimensions

Designation	Depth/ Lenght [mm]	Wide [mm]	High [mm]
Opening wall sleeve	Wall thickness[1)]	Ø115	
Wall sleeve R-D103x495	495	Ø103	
Weather protection grille aV100	55	150	
Weather protection hood Flex aV100	20 – 88	181	198
Inner panel ALD 100	180[2)]	160	160

1) with exterior rendering, insulation, masonry and interior rendering 2) open, incl. socket

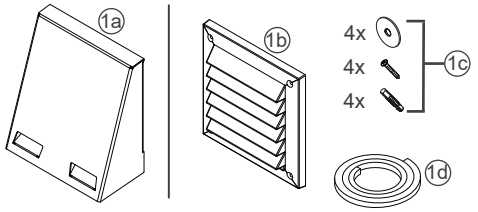
4 Installation and assembly

Read this chapter carefully before installation to avoid installation errors. The installtion and connection of the ventilation device must be carried out by qualfied personnel.

4.1 Check the scope of supply

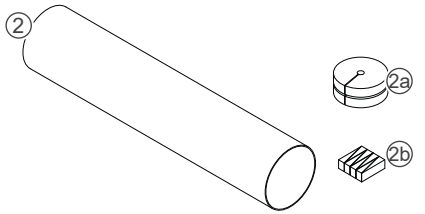
Check the delivery for completeness and transport damage upon receipt, using the delivery note. Report missing items immediately

These assembly instructions describe the standard version of the product.
For the scope of delivery of the external closure variants, please refer to the separate available installation instructions of the respective system component.

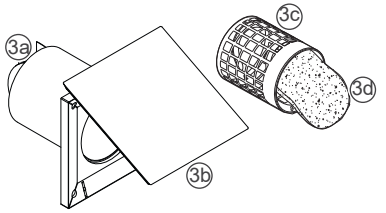


1 External closure
1 a: WPH [1)] Flex aV100
1 b: WSG[2)] aV100
1 c: Mounting elements outer wall
1 d: Sealing strip guide 10 mm

The weather protection hood Flex aV100 is available in different colours and must be ordered according to the desired colour.



2 Wall sleeve R-D103
2 a: Styrofoam discs
2 b: Mounting wedges set



3 Inner panel ALD 100
3 a: Inner panel base plate
with insert unit (pre-assembled)
3 b: Inner panel cover
3 c: Filter cartridge
3 d: Dust filter ISO Coarse (G1)

1)WPH= Weather protection hood 2)WPG= Weather protection grille

4.2 Create wall opening

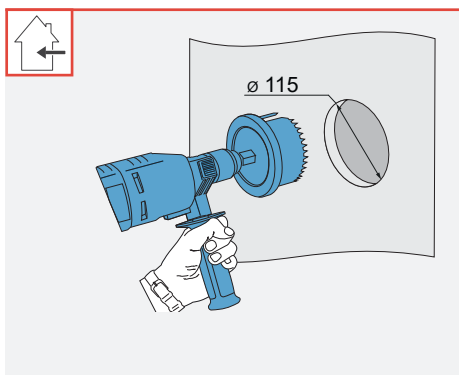
CAUTION:
Falling masonry when creating the wall opening
can lead to physical injuries and /or damage to property!
- Install protection against falling masonry on building exterior.
- Remove objects from the inmediate vicinity of the building´s exterior.

In new buildings/constructions we recommend the use of the optional Simplex D103 wall mounting system, D120 wall block, or Woodplex for timber post and beam construction.

Observe the minimum deistances and the installation position of the ventilation device.
If uncertain, consult your planner before installation!

Create the wall opening through core drilling

Drill with core drill attachment or milling drill Ø 115 mm



Requirements:
- The masonry must be dry and in a load-bearing condition.
- No load-bearing elements in the position of the drill hole.

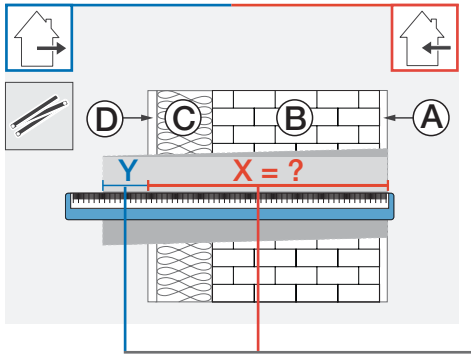
► Create a Wall opening, Ø 115 mm, at the mounting location of the ventilation device.

The wall sleeve must have a slope of 1 – 2° to the exterior wall side. Alternatively the drilling can be carried through with a slope.

⇨ The wall opening for the ventilation device has been created.

4.3 Installing the wall sleeve

Measuring tape, angle grinder, spirit level, non-pressing 2K polyurethane foam, cutter, mounting wedge set and styrofoam discs.

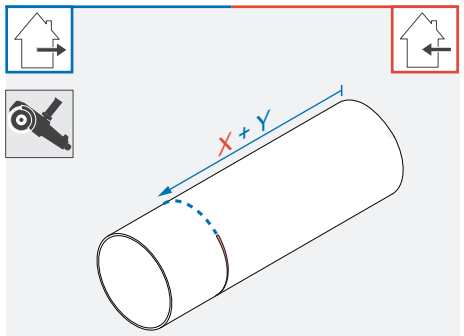


Requirements:
- The wall opening Ø 115 mm is finished.

► Determine the exact thickness X:
D = Exterior rendering, incl. other superstructures if applicable.
C = Insulation, if necessary inl. air gap (optional)
B = Masonry, incl. relining if necessary.
A = Interior plaster.
Y = Protrusion of the wall sleeve in the outer area (depending on the installation situation exterior rendering or masonry)

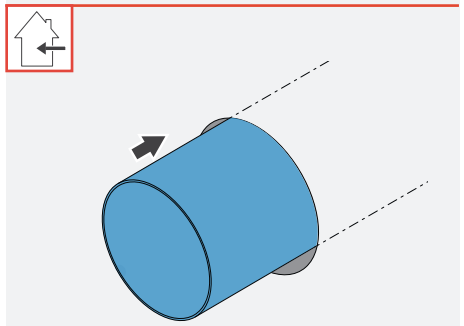
		X in [mm] =	Y in [mm] =
External closure \ Inner cover		ALD100	ALD100
aV100 ALD		A + B + C + D	0
Flex aV100		A + B + C + D	10
Corner		A + B + 10	10
		A + B + 10	UBP + 10 (for installation with sub-structure panel UBP)
Nordic	double-skin Masonry (clinker)	A + B + 5	C + D - 200 (min. 30 mm)
	single skin Masonry (ETICS[1)])	A + B + 5	C + D - 95 (min. 30 mm)

[1)] ETICS: External thermal insulation composite system



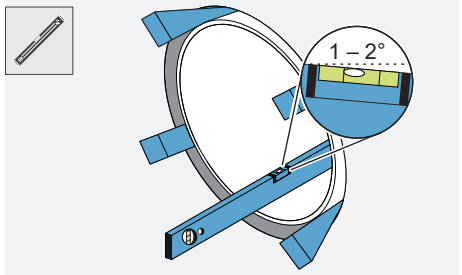
► Cut the wall sleeve to the determined dimension **X** + a protrusion of **Y** on the exterior wall.

► File the edges.



► Remove the styrofoam discs from the wall sleeve.

► Insert the wall sleeve into the wall opening so it is flushed with the interior wall.
Note the thickness of the plaster.

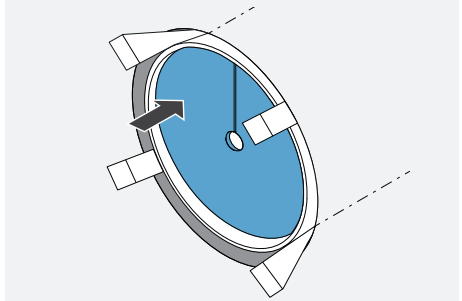


NOTICE: An accumulation of condensation-water in the wall sleeve.
leads to damage to the exterior wall and masonry and the building structure!
- Insert wall sleeve with a slope of 1 - 2° to the outer wall.

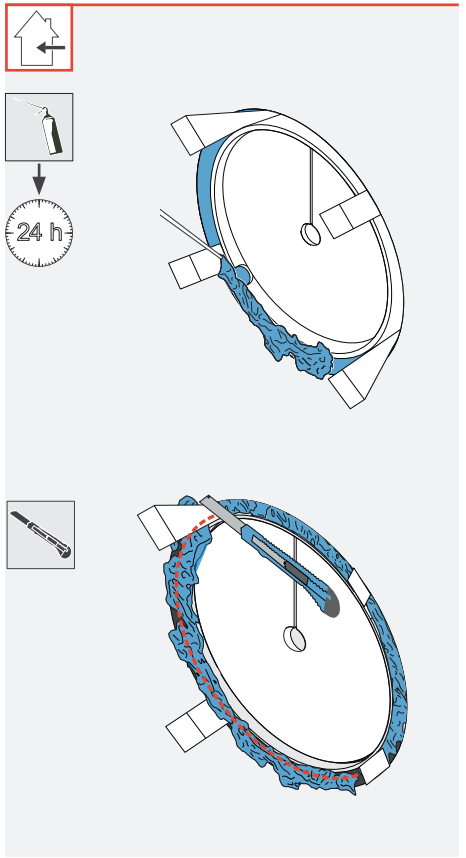
► Attach the wall sleeve inside and outside with the mounting wedges so that there is a slope of 1 – 2° to the exterior wall.

► Check the angle of the wall sleeve using a spirit level.

NOTICE: Contamination of components by e.g. plaster residues will damage the components of the wall sleeve!
- Before foaming the free space between the wall sleeve and the masonry, insert Styrofoam discs.



► Insert the styrofoam discs into the wall sleeve from the inside and outside.



► Foam-seal the gap between the wall sleeve and masonry all the way around with non-pressing 2K polyurethane foam.

► Depending onthe inner panel to be used, cut off the excess, hardened mounting foam and protruding mounting wedges as follows:

- Flushed to the inner wall
- Flushed to the outer wall

⇨ The wall sleeve set is installed.

4.4 Installing the external closure: ventilation device Basic and Plus variants

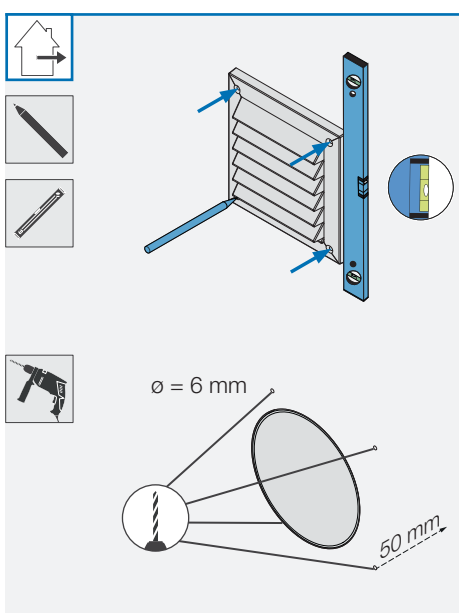
The assembly of any interior termination variants is not part of this documentation! It can be found in the installation instructions for the respective external closure.

NOTICE
Installing on an unfinished exterior wall leads to damage to the exterior wall!
- Only install the external termination once the exterior wall is finished and fully dried .

NOTICE
Penetration of condensation water and/or algae accumulation around the weather protection hood leads to damage to the masonry/exterior wall and/or discolouration of the façade!
- Attach sealing tape to the external closure before installing the external closure.
- Before installation, carry out a biocidal/water-repellent pre-treatment of the surface around the weather protection bonnet (consult your planner!).

Weather protection grille aV100

Spirit level, pencil, power drill with Ø 6mm drill bit, cordless screwdriver, anchors



Requirements:
- The exterior wall is completed and even.
- The wall sleeve set is installed.

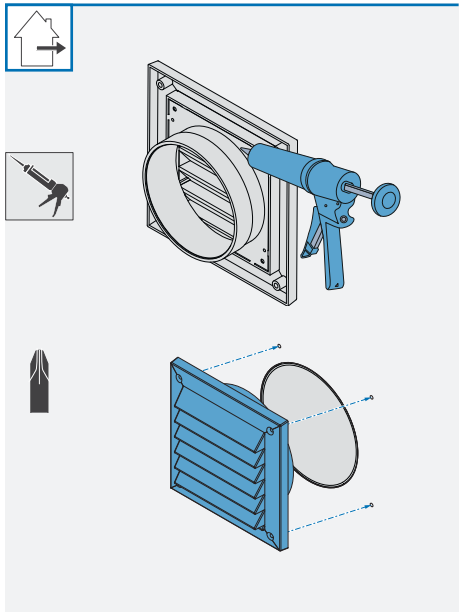
► Insert the weather protection grille into the wall sleeve from the outside.

► Level the weather protection grille with a spirit level.

► Mark the four drill holes.

► Remove the weather protection grille from the wall sleeve again.

► Drill the four holesØ 6 mm, min 50 mm deep Insert the wall anchors.



► Apply permanently elastic external sealing compound over a large area on the outside wall side of the spigot and on the base plate.

NOTICE: Damage to masonry/external wall due to misaligned condensate drain!
- The condensate drain must be directed towards the floor.

► Slide the weather protection grille onto the projecting wall sleeve.

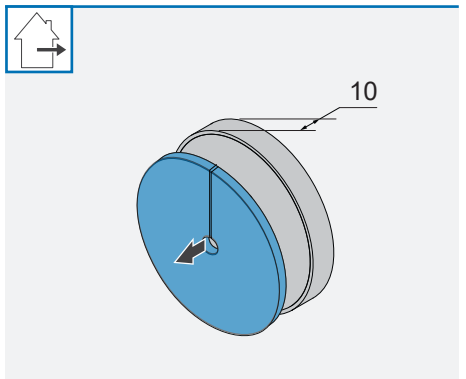
The slope of the condensate drain is directed towards the floor and positioned away from the wall.

► Screw the prepared weather protection grille to the outside wall

⇨ The weather protection grille is installed.

Installing the weather protection hood Flex aV100

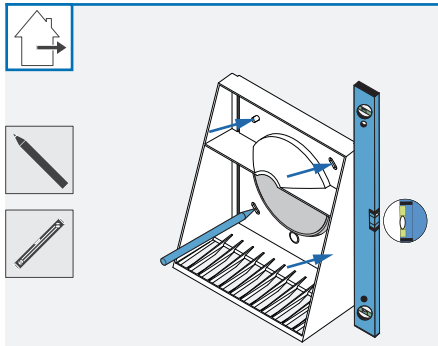
Spirit level, pen, cordless screwdriver, dowel, stop tape, sealing tape 10 mm, screws, saw



Requirements:
- The exterior wall is completed and even.
- The wall sleeve with Ø 100 mm matching your ventilation device is installed.
- The projection of the wall sleeve on the outer wall is 10 mm!

► Remove the styrofoam disc on the outside wall side from the wall sleeve.

Ensure that the outer wall projection of the wall sleeve is a maximum of 10 mm, otherwise the base plate of the weather protection hood cannot be fitted.

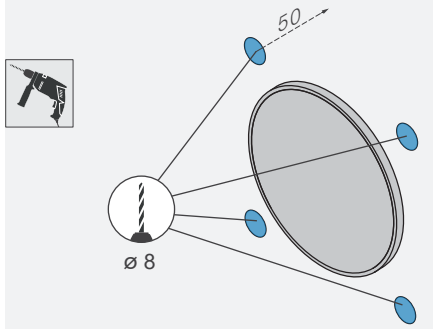


► Slide the base plate onto the projecting wall sleeve.

The protective grille is directed towards the floor.

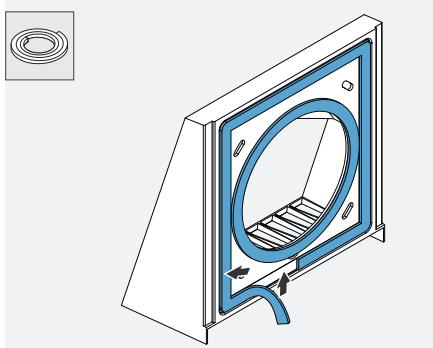
► Level the base plate inner panel with a spirit level.

► Mark the four drill holes.



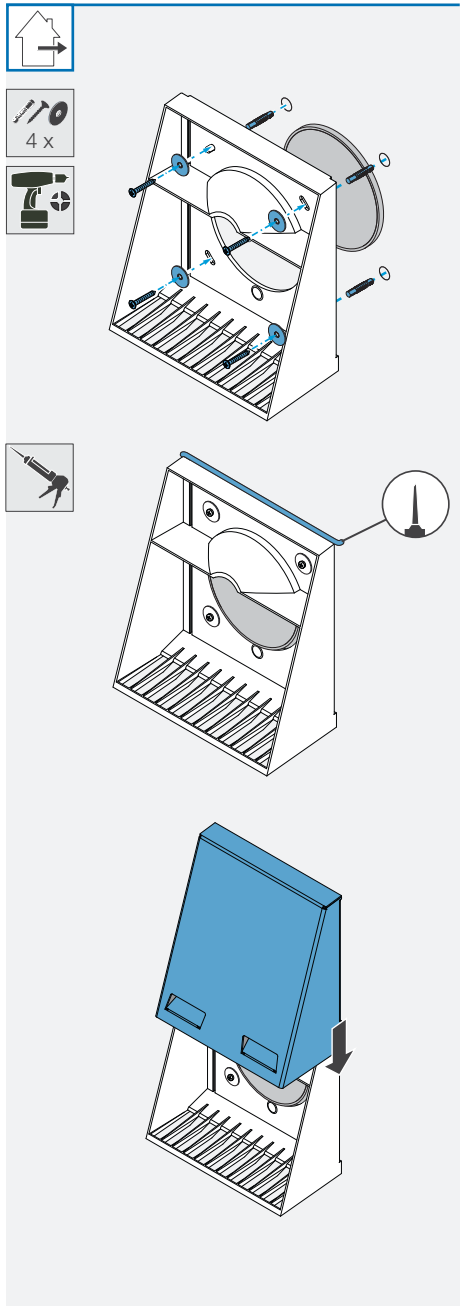
► Drill the four holes Ø 8 mm, min 50 mm deep

TIP: Do not apply the sealing tape until immediately before installing the base plate. This prevents the sealing tape from swelling too much and makes installation easier.



► Fasten the sealing tape, 9 mm, on the outside wall side and circumferentially on the base plate:
- flush with the opening for the wall sleeve
- along the guide on the outer edge.

• Do not seal the fixing holes!
•The sealing tape must not protrude from the inner channel of the wall sleeve opening.



► Insert the wall anchors into the boreholes.

► Screw the base plate weather protection hood into the wall anchors with 4 screws.

TIP: When attaching the base plate of the weather protection hood to external walls with insulation or when using the Simplex wall installation block/wall installation system, use insulation plugs/anchors for fastening. These are not included in the scope of supply, they are available as an option.

NOTICE: IF the joint between the base plate and the outer wall is not sealed properly, the cover cannot be fitted.
- Seal only the upper joint between the base plate and the outer wall.

► Seal the upper joint between the base plate and the exterior wall with permanently elastic exterior sealant.

► Place the cover on the base plate from above.

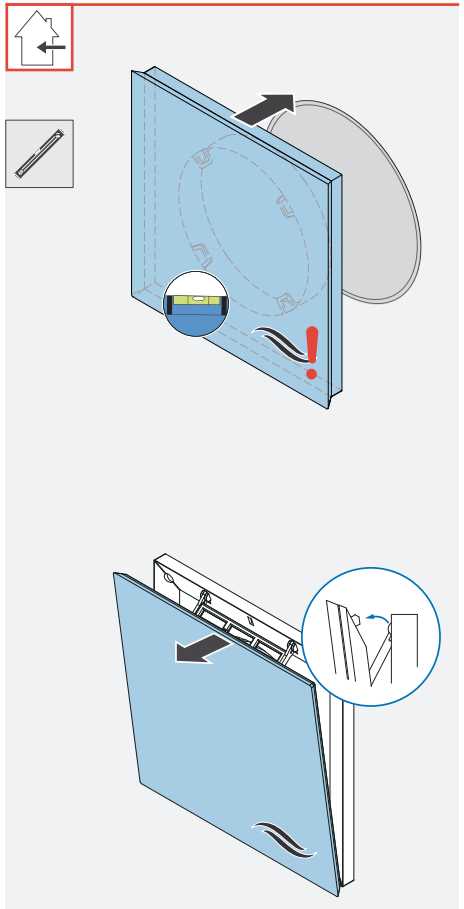
► Pull the cover down as far as it will go.

The guides on the cover hook behind the base plate.

⇨ The weather protection hood Flex aV100 is installed.

4.5 Installing inner panel ALD100

Spirit level



Requirements:
- The exterior wall is completed and even.
- The wall sleeve set is installed.

► Slide the pre-assembled inner panel into the wall sleeve.

The inVENTer logo is located at the bottom right.

► Level the base plate inner panel with a spirit level.

TIP: If the inner panel does not fit tightly enough in the wall sleeve, it can optionally be screwed to the inner wall. To do this, use the 4 corner holes in the base plate inner panel.

► Pull the top edge of the cover forwards until you feel the catch hook unhook.

⇨ The inner panel is fitted.

5 Technical Data

5.1 General specifications

Feature	Value
Operating range [°C]	-20 – 50
Extract air/outdoor air	Without aggresive gases, dust and oils
Reference air flow [m³/h]	7 – 15 [Basic variant] 7 – 15 [Plus variant]
Reference air flow [m³/h]	14 – 22 [Basic variant] 14 – 22 [Plus variant]
Standard sound level difference [dB]	33 – 49 [Basic variant] 34 – 48 [Plus variant]
Standard filter class ISO 16890 EN 779: 2012	 ISO Coarse G1
Comformity	CE UKCA

6 Scope of supply

Standard components

All standard components are also available as spare parts. Further accessories and spare parts can be found in the separate accessories overview. Contact your local distributor to order components for your ventilation system.

Component	Product Number
aV100 ALD	1002-0029
aV100 ALD Plus incl. WPH white, RAL 9016	1002-0030
aV100 ALD Plus incl. WPH grey, RAL 9006	1002-0031
aV100 ALD Plus incl. WPH anthracite, RAL 7016	1002-0045
aV100 ALD Plus incl. WPH special colours	1002-0033
aV100 ALD Corner	1002-0034
aV100 ALD Nordic	1002-0046
External closure Basic variant / Plus[1]: Weather protection hood incl. sealing tapes	
Weather protection grille aV100, white – RAL 9010	1508-0096
Weather protection hood Flex aV100, white – RAL 9016	1508-0207
Weather protection hood Flex aV100, grey – RAL 9006	1508-0208
Weather protection hood Flex aV100, anthracite – RAL 7016	1508-0209
Weather protection hood Flex aV100, special colours	1508-0210
Wall sleeve with Styrofoam discs and mounting wedges	
Wall sleeve R-D103x495	1506-0099
Wall sleeve R-D103xdesired lenght	1506-0131
Inner cover	
Inner panel ALD 100, white	3008-0085

Accesories

Component	Product Number
aV100 Wall mounting set	1001-0159
Flimmer filter aV100 ALD	1004-0165
Pollen filter aV100 ALD	1004-0163
Dust filter aV100 ALD	1004-0164
Simplex incl. WEH R-D103x495	1506-0107
Wall mounting block WEB D120	3008-0080

[1] The product number of other external closures can be found in the separate installation instructions of the respective external closure.

7 Troubleshooting

Troubleshooting

Fault	Possible cause	Remedy
Air flow / volumen	Air volume flow too low	Move the cover to a larger opening
	Air volume flow too strong	Move the cover to a smaller opening for a short time. ! The inner panel must not be permanently closed.
Noises	Foreign body in the ventilation device	Remove the foreign body from the ventilation device

8 Warranty and guarantee

Warranty

The warranty covers all defects that were present at the time of purchase. Observe the intended use in order to maintain the warranty claim.

Outside Germany, the national warranty regulations of the country in which the system is sold apply. Contact the dealer of your home country.

Guarantee:

inVENTer GmbH gives a 5-year guarantee for the wall sleeve. This covers premature product wear.

Warranty and guarantee claim

For information on the guarantee provisions, see www.inventer.de/garantie./guarantee.

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.

9 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, dealer or factory representative.

Accesories and spare parts

To order components for your ventilation device, contact your dealer or factory representative.

Technical customer service:

For technical advice, please contact our technical service staff:

+49 (0) 36427 211-333 service@inventer.de

inVENTer GmbH
Ortsstraße 4a
D-07751 Löberschütz
www.inventer.eu

Product Number 5012-0015
Version: 1.0 – 09/2022