

iV-Light





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Disclaimer

This documentation is a translation of the original German installation instructions. After completion of the installation it must be given to the user (tenant, owner, property management, etc.). The content of this documentation has been checked for compliance with the described hardware and software. Nevertheless deviations may still occur, therefore no guarantee of compliance can be provided. This documentation describes the functionality of the standard scope. The documentation does not purport to cover all details on all types of the product and cannot cover every conceivable scenario for installation and assembly. 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 find the latest version at www.inventer.eu/downloads

Version

1.0

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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 unit.

1.1 User information

Concept of safety 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 hazard! Measures to avoid the hazard.

A signal word indicates the severity of the potential hazard unless the preventative measures are taken.



WARNING indicates: Possible danger of serious injury or death.



CAUTION indicates: Imminent or possible risk of minor/significant injury.



CAUTION indicates: Imminent or possible risk of minor/significant injury due to electricity. Before carrying out any work on steps stressed with this symbol disconnect the power supply.



NOTICE indicates: Imminent or possible damage to property due to an adverse event/state.



Damage to property due to non-observance of required slope: Install the component with a slope to the exterior wall side to ensure that occuring condensate may drain away.



Damage to property, e. g. accumulation of algae, due to missing sealing tapes. When installing the unit attach all sealing tapes!

If you see this sign, ensure you observe the described measures to prevent possible hazards and/or damage.

Other symbols used in this documentation

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



Red frame surrounding: Graphic shows the interior wall.



Blue frame surrounding: Graphic shows the exterior wall.

1.2 Safety instructions

These installation instructions are part of the ventilation unit and must be permanently available. When handing the equipment/system to a third party, the installation instructions must be handed over also. Before performing any work on the system, read the installation instructions carefully and observe all information regarding installation and assembly contained in this section. Also note the safety instructions that precede the described handling instructions. Non-observance of safety warnings could result in injury and/or property damage.

Intended use

The ventilation unit is designed to ventilate dwellings and similar residential spaces. It is controlled via an inVENTer system controller.

General instructions

- Observe the relevant standards, regulations and guidelines, especially the applicable building codes and fire and accident prevention regulations issued by the respective trade association.
- Use the equipment/system exclusively for the applications that are described in this documentation and only in conjunction with components that are recommended, authorised and described by inVENTer GmbH in this documentation. Changes or modifications to the equipment/system are not permitted.
- Your ventilation unit is exclusively designed for use in ambient temperatures between -20 and 50 °C.
- Trouble-free and safe operation of the equipment depends on proper transportation, proper storage and installation as well as careful operation and maintenance.

Assembly and installation



- CAUTION: Installation of the system may only be performed by qualified personnel.
- Before starting work, you should have a ventilation concept from which the number of ventilation units, their position, the ventilation principle (cross ventilation, individual room ventilation, extraction) and the relevant controllers can be determined. The exact positioning of the units and controllers must be determined on-site and, if necessary, adapted to the local conditions by the user/planner. Installation is recommended in a suitable position in the upper wall area for optimal operation.



• **WARNING:** Install a pressure monitor in rooms with open flues. In any case air exchange must be assured to be sufficient for the ventilation units as well as the fire place. Consult your chimney sweeper and/or building planner before installation!



- **NOTICE:** The ventilation unit must not be used for drying out buildings. It must not be put into operation until after completion of the construction work. The ventilation unit must remain sealed against dust during the construction work (attached protective discs).
- **NOTICE:** Do not place the unit near radiators, room thermostats or in the immediate vicinity/ above sensitive paintings or furnitures.
- **NOTICE**: Observe the predetermined minimum distances on both sides of the wall and in front (see , page 15) to avoid the mixing of outdoor air and exhaust air, and to ensure access to the unit and its components.
- **NOTICE:** Install the wall sleeve outside airtight and inside vapour tight into the air resistance layer. Material must be provided by the customer. After installing the wall sleeve replace the wall structure as far as the wall sleeve and observe the necessary barrier levels in order to avoid the interruption of the thermal insulation composite system. Consult your planner!

USER AND SAFETY INSTRUCTIONS



- **NOTICE:** Install the wall sleeve with a slope of $1 2^{\circ}$ to the exterior wall in order to ensure that occurring condensate may drain away.
- **NOTICE**: The ventilation unit must not be installed in areas in which direct contact with water spray is possible.
- **NOTICE:** In order to prevent algae accumulation and a discolouration of the façade around the exterior closure observe all installation advices (apply all sealing tapes!). In vulnerable areas, apply a biocidal/water repellant treatment to the plaster surface around the weather protection grille before installing. Consult your planner!
- NOTICE: When installing components to (exterior) walls with insulation use insulation plugs
 to ensure safe fastening. These are not part of the scope of supply, but are available as an
 option.
- **NOTICE:** Exclusively use permanently elastic sealing compound for exterior/outdoor use to seal the joints between the façade and the weather protection grille.
- **NOTICE:** Your ventilation unit has scratch-sensitive plastic surfaces. Do not touch the inner cover with oily and/or dirty hands. Avoid contact with sharp or pointed objects, e.g. rings.

Wiring/Electrical connection of the fan



 CAUTION: Electrical connection of the system may only be performed by qualified personnel.



- NOTICE: Your ventilation unit operates with a safety extra low voltage (SELV) and an operating voltage of 6 16 V DC. The ventilation unit must therefore not be connected directly to the 230 V mains, but must always be connected via a controller.
- **NOTICE**: Laying of cables without a plaster-resistant sheath underneath the plaster/concealed may result in short-circuit and cable fire. Exclusively lay cables without a plaster-resistant cable sheath inside an empty conduit.
- **NOTICE**: Remove the cable sheath on the fan BUS up to the wall sleeve. This prevents malfunction of the ventilation unit due to cable breakage when the inner cover is inserted.
- The ventilation units must be synchronised when using multiple ventilation units controlled via multiple controllers (see installation and operating instructions for the controller). All of the controllers should be connected via a mains fuse in the building distributor.

If your equipment/system has a defect, contact your nearest distributor or our technical service.

Any kind of use other than the intended use will exclude all liability claims.

Improper use

Any use that is not mentioned in the intended use section, is considered to be improper.

Do not install the equipment in areas which...

- Contain (or may contain) strong oils or lubricants.
- Contain (or may contain) flammable gases, liquids or vapours.
- · Contain (or may contain) extreme dusts.
- Are exposed to ambient temperatures below -20 °C and above 50 °C.
- Contains obstacles that hinder access to, or removal of, the unit's components.

Qualified personnel

The equipment/system may only be installed, set up and operated in conjunction with this documentation and the documentation for the controllers.

Assembly and installation

Installation, electrical connection and set up of the equipment may only be performed by qualified personnel. Qualified personnel within the meaning of the safety notices in this documentation are persons who are authorised to install, put it into operation and identify equipment, systems and circuits in accordance with established safety procedures.

Conformity

The ventilation unit complies with the applicable technical safety requirements and standards for household and similar electrical appliances.

They are conform to the following European directives:

- 2014/30/EC: Electromagnetic Compatibility directive
- 2009/125/EC: Energy related products directive
- 2014/35/EC: Low voltage directive
- 2011/65/EC: Restriction of certain Hazardous Substances (RoHS) directive

2 System overview

The iV-Light ventilation system is designed to ventilate living rooms and bedrooms in singleand multi-family houses, hotels and guest houses, rooms in public facilities and work rooms in office buildings. It is suitable for installation in new buildings as well as for retrofitting in existing buildings. Installation is carried out in the exterior wall.

The ventilation unit iV-Light comprises a wall sleeve into which a thermal accumulator insert is installed, as well as an inner cover and a weather protection grille as an exterior closure. The thermal accumulator insert contains the ceramic thermal accumulator and inVENTron®. The flow-optimised design of inVENTron®, the two guiding vanes with embedded reversible fan Xenion®, ensures efficient capacity utilisation and an even flow through the thermal accumulator.

The standard length of the wall sleeve is 495 mm. For thicker walls, there is the option of ordering a wall sleeve with a length of 745 mm. Both versions can be trimmed on site.

It is controlled via one of the following inVENTer® system controllers¹):

sMove s4

sMove s8

MZ-Home

Components

- Inner cover incl. dust filter of class G4
- Thermal accumulator insert
- Wall sleeve

- Exterior closure
 - Sound and wind protection options available as accessory

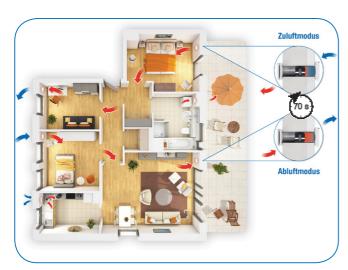
Models

• iV-Light ventilation units with Light weather protection grille and Light inner cover (both white)

n) The installation and operating instructions for the controller do not form part of this documentation and are supplied separately.

2.1 Function

The ventilation units of product range iV-Light are used to provide ventilation for living rooms and bedrooms. An integrated thermal accumulator in combination with the Xenion reversible fan and the guiding vanes ensures optimum heat recovery with maximum air flows in its class.



The ventilation unit operates on the principle of heat recovery by changing the direction of the fan. The integrated thermal accumulator charges itself with heat energy from the room's air as it flows to the exterior (extract air). After 70 seconds, each Xenion reversible fan changes direction. When the reversible fan changes direction, it releases the stored heat energy into the incoming outside air (supply air).

For this principle to work correctly and to ensure the room's pressure stability the incoming air and extract air volumes must match, i. e. two iV-Light ventilation units are required. These are operated in pairs in pushpull operation: One ventilation unit works in supply air mode while the other works in extract air mode at the same time.

iV-Light is not only characterised by a discreet and slim visual appearance. Due to the fan's sensor technology it also has a high pressure stability: high pressure built-up and an active speed control (integrated wind stabiliser) keep the air flow within the system nearly constant (max. 30 % deviation). The Xenion reversible fan thus fulfills the S3 classification in accordance with EN 13141-8.

In order to ensure the full functioning of the ventilation system throughout the entire year, an additional, flexible temperature sensor is integrated into the Xenion reversible fan. At the reversal moment, this measures the temperature of the flow rate at the reversible fan. If the temperature falls below +5°C, the reversible fan is automatically switched to extract air mode for 4 cycles. This allows the thermal accumulator to heat up again and prevents cooling of the interior due to cold drafts. During this phase, the mode that has been set on the controller is ineffective. Subsequently, the controller switches the ventilation unit back to the originally selected mode.

A multi-use dust filter of filter class G4 is integrated discreet and easy of access into the inner cover. It filters off reliably dusts as well as allergenic particles (such as pollen) from the ambient air before it can enter living spaces. Dust filters are season independent.

A decentralised ventilation system is based on the free movement of air between individual pairs of ventilation units. Therefore, internal doors must not have air-tight seals. Ensure adequate air transfer measures: An air gap of about 10 mm below the door, unscrew the hinges by 5 mm, use a ventilation grille or similar (cross ventilation).

The ventilation unit is controlled via one of the inVENTer® system controllers. Depending on the controller, operating modes and functions may be selected.

2.2 Control elements

sMove controller



The controllers from the sMove product range are electronic control unit for controlling the iV-Light ventilation units.

They are characterised by their timeless and slim design, and a simple touch-based operating concept.

The sMove controller is available in the s4 and s8 versions. s4 is used to control up to four iV-Light ventilation units. s8 is used to control up to eight iV-Light ventilation units.

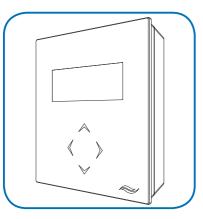
The connected ventilation units can be controlled in the following modes:

- Heat recovery
- Continuous ventilation

- Pause function
- Off (only sMove standard version)

Both versions are available in a flat and standard version: In contrast to the flat version, in addition to pause mode, the standard version provides the option to switch off the ventilation unit completely.

MZ-Home controller



The MZ-Home controller is an electronic control unit for controlling up to 16 iV-Light ventilation units.

It is characterised by Clust-Air technology (multizone control), simple installation, touch-based operation and its versatility.

The MZ-Home controller consists of a control unit and at least one (optional up to four) Clust-Air module(s). Each Clust-Air module can control up to four iV-Light ventilation units in different zones within the accommodation unit. This allows the MZ-Home controller to provide varied ventilation for up to four different areas (zones)

within the accommodation unit. For each zone, the operating mode and output level can be set manually or via a 7-day timer.

The connected ventilation units can be controlled in the following modes:

- Heat recovery
- Continuous ventilation

- Dehumidification
- Off/Pause function

The sMove and MZ-Home controllers can be expanded with additional sensors. An external interface allows the connection of a potential-free switching contact or integration into an existing home automation system via an analogue input.

For detailed information see the separate operating instructions of the controller.

3 Specifications

3.1 General specifications

Feature	Value
Operating range [°C]	-20 – 50
Extract air/Outdoor air	Free from aggressive gases, dust and oils
Air flow in reverse operation (push-pull) per unit [m³/h]	5 – 21
Extract air flow per unit [m³/h] (EN 13141-8)	10 – 42
Sound pressure level [dB (A)]	18 – 36
Standard sound level difference [dB]	34 – 47
Heat recovery [η' _w]	ø 0.82 / max. 0.86
Input voltage [V DC]	6 – 16
Power consumption [W]	1 – 3
Flow based electrical fan capacity [W/(m³/h)]	0.2
Protection class (EN 61140)	III
Type of protection (EN 60529)	IP20
Filter class (standard filter) (EN 779:2012)	G4
Air flow sensitivity at ± 20 Pa (EN 13141-8)	S3
Frost protection	Automatically due to push-pull operation (up to -20 °C)
Weight [g]	Max. 3.800
Conformity	C€

3.2 Specifications according to EC Directive ErP, regulation 1254/2014 [Germany] iV-Light ventilation unit, local demand controlled:

	Product fiche according to regulation 1254/2014 EU from 2014-07-11							
Pt.	Description	Data	Data					
а	Supplier's name			inVENTer GmbH				
b	Supplier's model identifier							
	050 1 10 15	cold		-85.671				
С	SEC class / Specific energy consumption [kWh/(m²a)]	average	A+	-42.513				
	, , , , , , , , , , , , , , , , , , , ,	warm		-17.789				
d	Typology		BVU					
е	Type of drive installed		2					
f	Type of heat recovery system		regener	ative				
g	Thermal efficiency of heat recovery	[%]	84					
h	Maximum flow rate [m³/h]		42	42				
i	Electric power input (incl. controller)	[W]	6	6				
j	Sound power level L _{wa} [dB (A)]			44				
k	Reference flow rate [m³/h]							
I	Reference pressure difference [Pa]							
m	Specific power input (SPI) [W/m³/h]	0.18						
n	Control factor	0.65						
0	Internal/external leakage rate [%]	n. a.						
р	Mixing rate [%]		n. a.	n. a.				
q	Position of visual filter warning		Controll	Controller				
r	Regulated supply and exhaust grille	s in the façade	no					
s	Internet address		www.inv	venter.eu				
t	Airflow sensitivity [%]		28.5					
u	Indoor and outdoor air tightness [m³	/h]	0					
٧	Annual electricity consumption [kWh	n/(m²a)]	1.05					
		cold	88.60					
W	Annual heating saved [kWh/(m²a)]	average	45.29	45.29				
		warm	20.48					

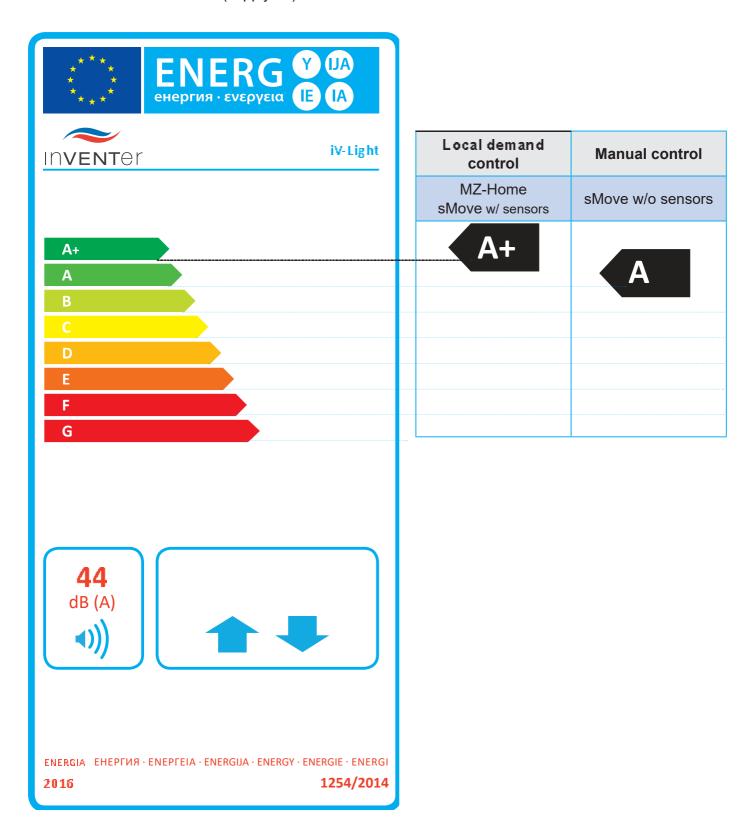
iV-Light ventilation unit, manual control

Pt.	Description Data				
а	Supplier's name	inVENT	er GmbH		
b	Supplier's model identifier		iV-Light		
		cold		-78.012	
С	SEC class / Specific energy consumption [kWh/(m²a)]	average	А	-36.847	
		warm		-13.265	
d	Typology		BVU		
е	Type of drive installed		2		
f	Type of heat recovery system		regener	rative	
g	Thermal efficiency of heat recovery	[%]	84		
h	Maximum flow rate [m³/h]		42		
i	Electric power input (incl. controller)	6	6		
j	Sound power level L _{wa} [dB (A)]	44	44		
k	Reference flow rate [m³/h]	29.4	29.4		
I	Reference pressure difference [Pa]		0		
m	Specific power input (SPI) [W/m³/h]	0.18			
n	Control factor	1			
0	Internal/external leakage rate [%]	n. a.			
р	Mixing rate [%]		n. a.		
q	Position of visual filter warning		Control	Controller	
r	Regulated supply and exhaust grilles	s in the façade	no		
s	Internet address		www.in	venter.eu	
t	Airflow sensitivity [%]		28.5		
u	Indoor and outdoor air tightness [m³/	/h]	0		
V	Annual electricity consumption [kWh	ı/(m²a)]	2.48		
		cold	84.69		
W	Annual heating saved [kWh/(m²a)]	average	43.29	43.29	
		warm	19.58		

3.3 Energy label according to EC Directive ErP, regulation 1254/2014 [Germany]

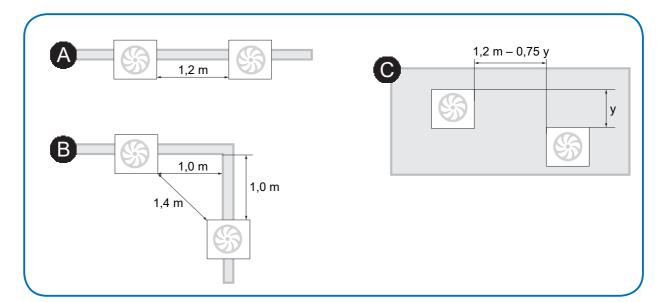
On the energy label you can find the following information from the product fiche:

- Energy efficiency class (Specific energy consumption class)
- Sound power level L_{wa}
- Maximum air flow (supply air)



4 Preparing for installation / installation position

- The installation position can be derived by the suggestion of the ventilation planning.
 The exact positioning of the units and controllers must be determined on-site and, if necessary, adapted to the local conditions. Consult your planner!
 Installation is recommended in a suitable position in the upper wall area for optimal operation (approx. room height 1.8 m [top edge of finished floor]).
- Do not place the unit near radiators, room thermostats or in the immediate vicinity/above delicate furniture, surfaces or pictures.
- The ventilation unit must not be installed in areas in which direct contact with water spray is possible.
- Observe the following minimum distances for the unit's wall opening:
 - 1 between two ventilation units in push-pull operation (pair) in the same room to avoid the mixing of outdoor air and exhaust air:



- 2 to adjacent components on the exterior wall (observe insulation/shutters): Protective grille Light: 250 mm from hole center / center axis circumferentially
- 3 to adjacent components on the interior wall:250 mm from hole center / center axis circumferentially
- 4 to frontal adjacent components: 300 mm for maintenance tasks

5 iV-Light ventilation unit

5.1 Construction

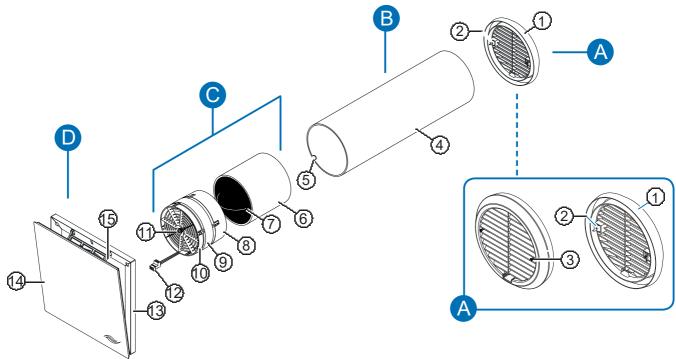


Figure 1: Overview of iV-Light ventilation unit

Components

- A Exterior closure:
 Light protective grille
 - 1 Protective grille
 - 2 Fastening claws (2 x, pre-assembled)
 - 3 Fastening srews (2 x, pre-assembled)
- **B** Wall sleeve
 - 4 Wall sleeve R-D160
 - 5 Recess for fan BUS (interior wall side)

- C Thermal accumulator insert (thermal accumulator and inVENTron)
 - 6 Thermal accumulator with insulation
 - 7 Thermal accumulator handle
 - 8 Standard guiding vane (broad)
 - 9 Xenion reversible fan
 - 10 Slim guiding vane
 - 11 Guiding vane knob
 - 12 Plug connection
- Inner cover Light V-220x220
 - 13 Inner cover base plate (incl. dust filter G4)
 - 14 Inner cover panel
 - 15 Connecting element

5.2 Dimensions

Designation	Depth/length [mm]	Width [mm]	Height [mm]
Wall thickness with render/ plaster [mm]	> 290		
Wall opening for wall sleeve	Wall thickness ¹⁾	Ø ·	180
Wall sleeve R-D160x495 (745)	495 (745)	Ø ·	160
Protective grille Light	43	Ø 200	
Inner cover Light V-220x220	722)	220	

¹⁾ incl. render, insulation, masonry and inner structure

Sectional drawing

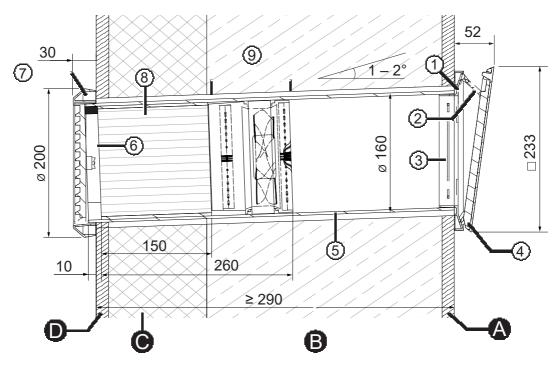


Figure 2: Sectional drawing iV-Light (side view)

- A Inner plaster/internal structure
- **B** Masonry
- 1 Inner cover base plate
- 2 Connecting element
- 3 Filter holder
- 4 Inner cover panel
- 5 Wall sleeve R-D160
- 6 Joint tape

- C Insulation
- D Render
- 7 Exterior closure: Protective grille
- 8 Thermal accumulator
- 9 inVENTron:

Xenion reversible fan embedded in guiding vanes

²⁾ opened, incl. socket

Exterior closure: Weather protection grille Light

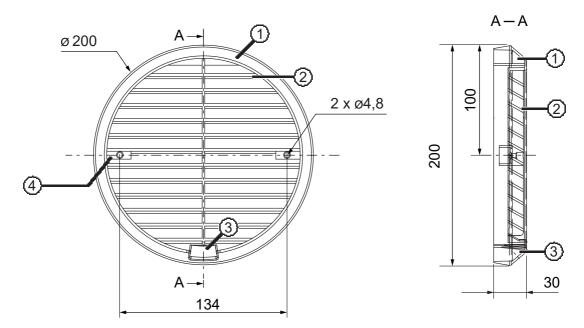
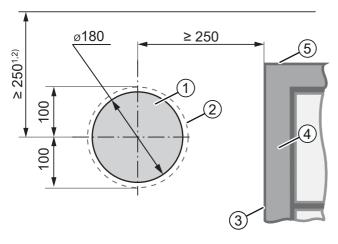


Figure 3: Dimension drawing: Protective grille Light

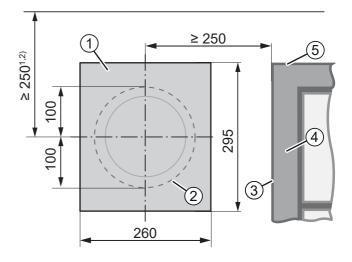
- 1 Frame
- 2 Louvres

- 3 Condensate drip
- 4 Fastening srews (2 x, pre-assembled)

Position of wall opening







Position of Simplex wall installation system

Figure 4: Dimension drawing: Wall opening for iV-Light (interior view)

- 1 Wall opening (Fig. 2, left) Simplex installation system (Fig. 2, right)
- 2 Position of weather protection grille (contour)
- 3 Outer edge of reveal (insulation with render)
- 4 Door/window frame
- 5 Bottom edge of reveal (lintel)

¹⁾ Minimum distance to adjacent components on the interior wall

²⁾ Minimum distance to adjacent components on the exterior wall

Inner cover Light V-220x220

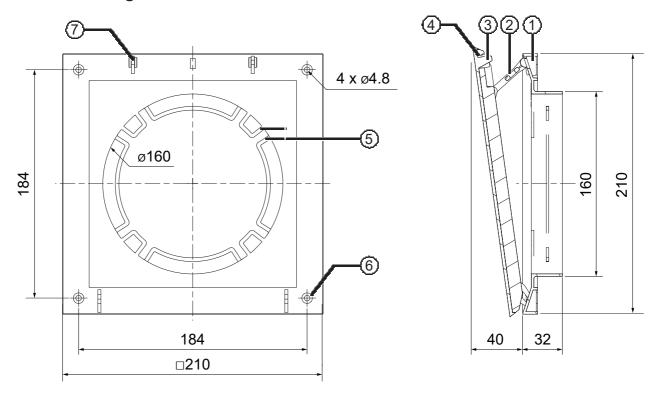


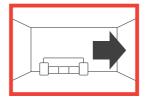
Figure 5: Dimension drawing: Light inner cover V-220x220

- 1 Inner cover base plate
- 2 Connecting element
- 3 Quick lock
- 4 Inner cover panel

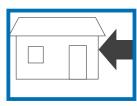
- 5 Filter holder
- 6 Fastening screw for interior wall (optional, [Ø 6 mm, 40 mm depth (4 x)])
- 7 Fastening for connecting element





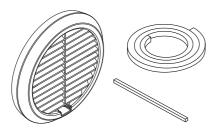


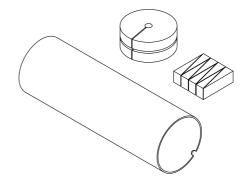


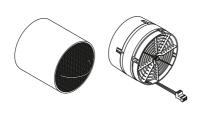


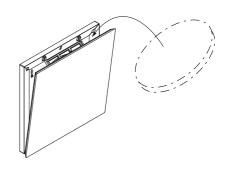
Exterior wall

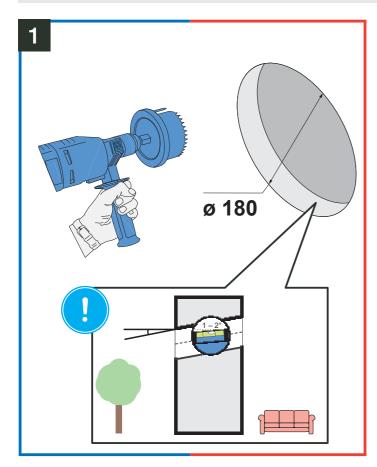


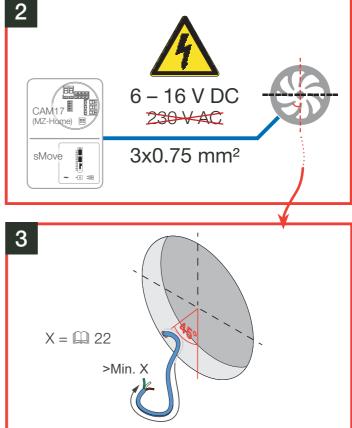


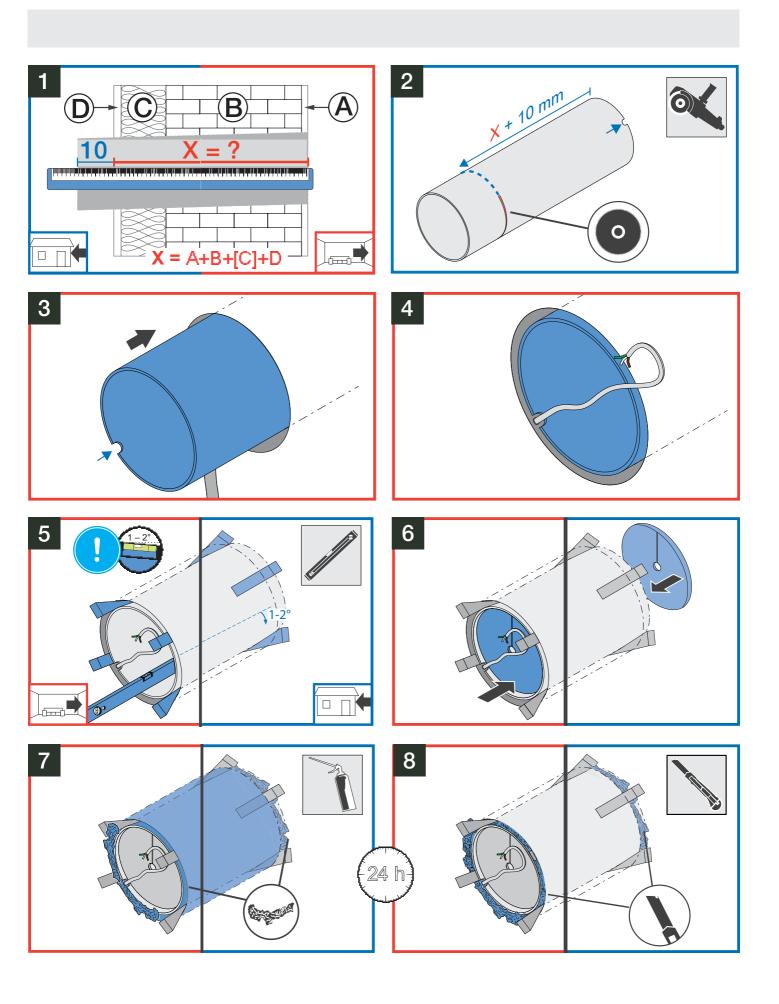


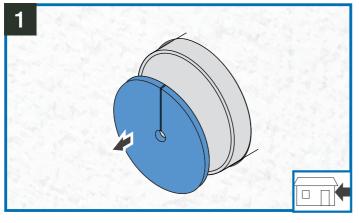


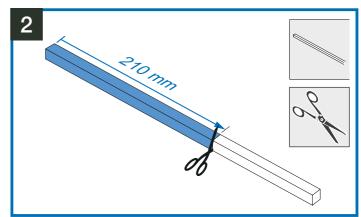


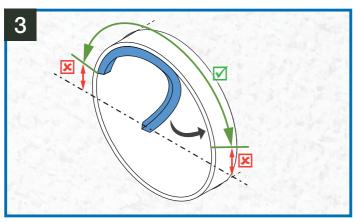


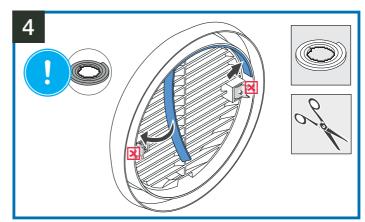


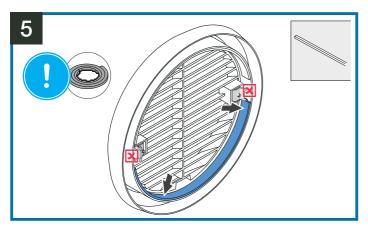


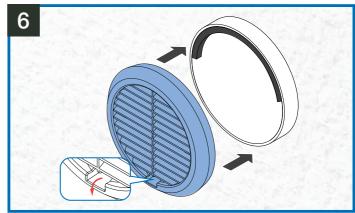


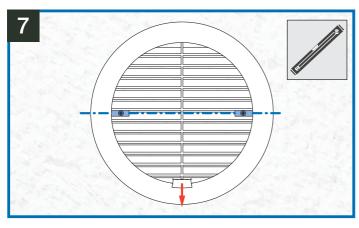


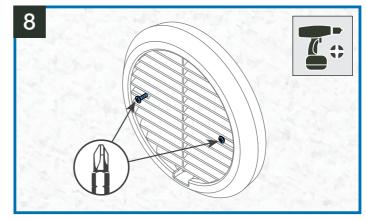


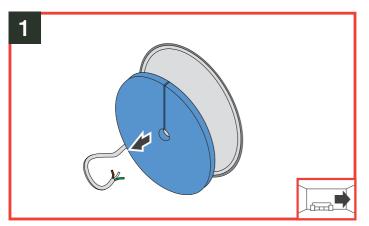


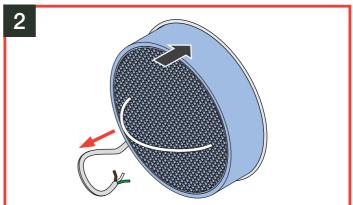


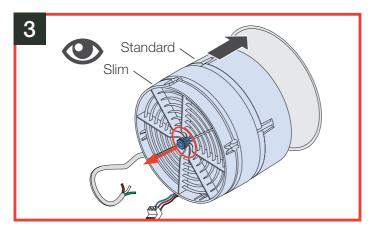


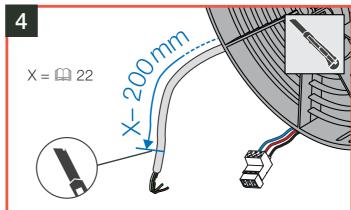


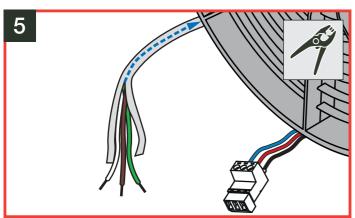


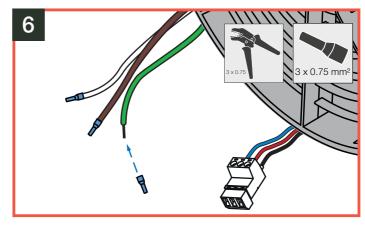


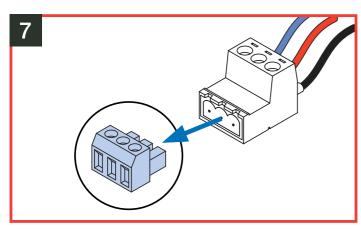


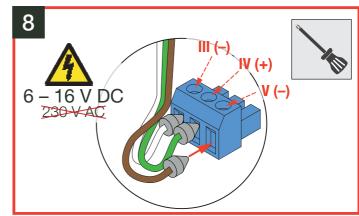


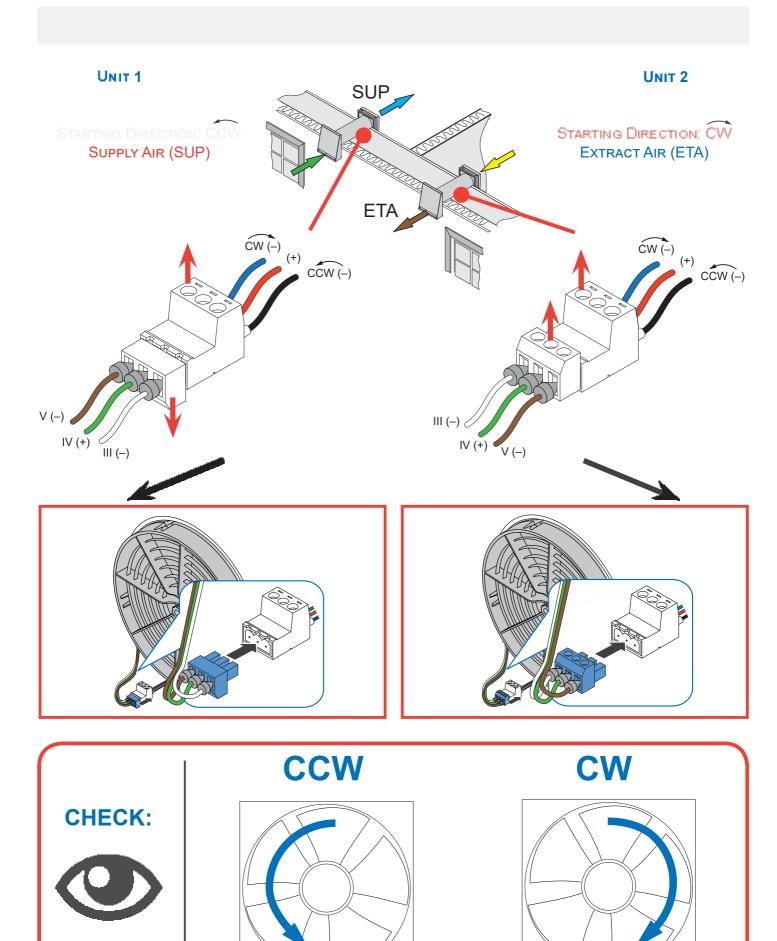


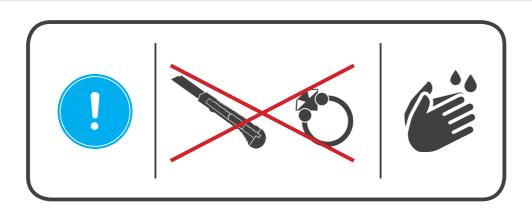


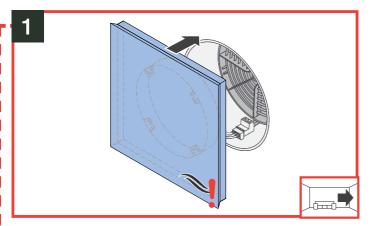


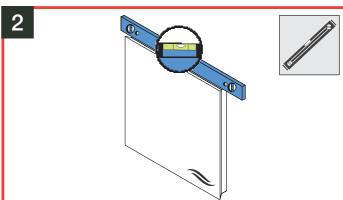


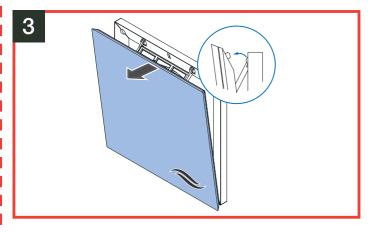


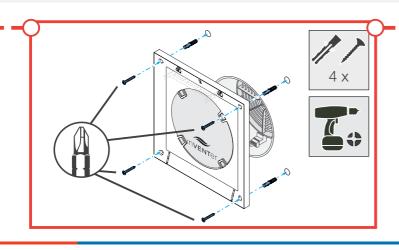


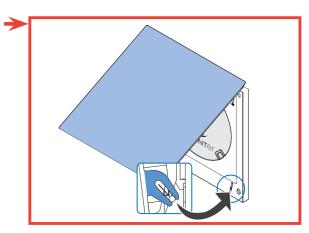












6 Troubleshooting and disposal

Troubleshooting

Malfunction	Possible cause	Remedy	
	No electrical power.	Check fuse.	
Fan failure	Installation error.	Check wiring for correct polarity. Check all connectors for correct fit. Check usage of wire end ferrules.	
	Fan defective.	Replace fan.	
	Controller/power supply defective.	Replace controller/power supply.	
Fan does not switch off.	Faulty controller.	Replace controller.	
	Inner cover closed.	Open inner cover panel.	
	Dust filter heavily soiled.	Clean/replace dust filters.	
Low air flow	Fans are not operating in paired mode.	Connect the first fan in extract air mode and the second paired fan in supply air mode.	
	Fan speed is too low.	Increase the output level.	
	Thermal accumulator is soiled.	Clean the thermal accumulator.	
	Foreign body in the fan.	Remove foreign body from the fan. Clean the ventilation unit.	
	Fan blades contaminated.	Clean fan blades.	
Noises	Thermal accumulator is not correctly positioned in the wall sleeve.	Slide the thermal accumulator out of the wall sleeve. Insert it again. Slide the thermal accumulator into the wall sleeve as far as the joint tape.	
	Fan speed very high.	Set a lower output level on the controller.	
	Installation owner	Make sure, that the fan's type plate is situated in direction of the thermal heat accumulator.	
Supply air is cold	Installation error.	Check the connector plug on the controller. The connector plug must be sitting firmly in the connector housing.	
	The controller is operating in continuous ventilation mode.	Select heat recovery mode on the controller.	

Disassembly

Disassemble the ventilation unit in the opposite sequence to the assembly sequence. You can subsequently dispose of your old unit. Please note the disposal recommendation outlined below.

Disposal



Dispose of the product in compliance with the applicable national regulations.

The products described in these installation instructions are largely recyclable due to their low-pollutant processing. Contact an electronic appliance disposal company to arrange environmentally friendly recycling and disposal of your old system. Ensure that each product's packaging is sorted correctly for disposal.

Recommendations for disposal can be found in the table below.

Product	Material	Disposal
Weather protection grille Light	ASA	Recyclable material collection
Reversible fan	PBTP / PA	Drop-off centre for electronic equipment
Guiding vanes	PC	Recyclable material collection
Wall sleeve	PPs	Recyclable material collection
Inner cover Light V-220x220	PS-SZ	Recyclable material collection
Thermal accumulator	Ceramics	Household waste
Dust filter	TPU / PES	Household waste

7 Guarantee and warranty

Warranty

Outside Germany, the national warranty provisions of the country in which the system is sold apply. Please contact the distributor for your country.

The warranty refers to the defect-free condition of the product at the time of purchase and covers all defects that were present at the time of purchase. Failure to observe the intended use will invalidate all warranty claims.

Manufacturer guarantee

inVENTer GmbH provides a five-year guarantee for all electrical components and the wall mounting sleeve, as well as a thirty-year guarantee on the heat accumulator's ceramic. This covers premature product wear. It affects in no way the applicable law.

Further information about the warranty is available at www.inventer.eu/warranty

8 Service

Claims

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

Warranty and guarantee claims

In the case of a warranty or guarantee claim, contact your local distributor or factory representative.

In all cases, return the complete unit to the manufacturer. The guarantee is an additional offer by the manufacturer and in no way affects the applicable law.

Accessories and spare parts

To order parts for your ventilation unit, contact your nearest factory outlet or our service staff.

Technical customer service

For technical support contact our service staff.



+49 (0) 36427 211-0

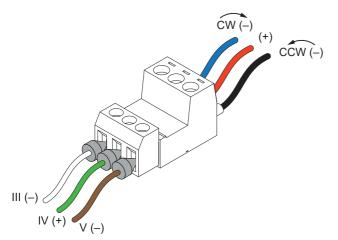
+49 (0) 36427 211-113 info@inventer.de

http://www.inventer.eu

Appendix 1: Terminal assignment: reversible fan

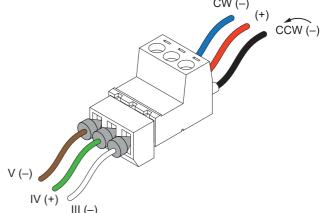
Plug (Cable from controller)							
Starting direction: Extract air			Starting d	irection: Supp	ly air	Socket (Cable fro	m fan)
Terminal	Signification	Colour	Terminal	Signification	Colour	Terminal	Colour
III (–)	GND (-)	White	V (–)	GND (-)	Brown	CW (-)	Blue
IV (+)	Operating voltage	Green	IV (+)	Operating voltage	Green	+	Red
V (-)	GND (-)	Brown	III (–)	GND (-)	White	CCW (-)	Black

Starting direction of reversible fan



Starting direction Extract air:

• The locking screws of the green BUS terminal's plug and socket are pointing to same direction.



Starting direction Supply air:

• The locking screws of the green BUS terminal's plug and socket are pointing to different directions.



HINT: When looking from the side, the connected plug forms an **"S"** like **"Supply"** when starting in Supply air direction.

Appendix 2: Wiring protocol

Ventila-	Floor	Area/room and position	Ventilation zone	Starting	direction
tion unit	1 1001	Area/100m and position	(CAM)	Supply	Extract
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
			<u> </u>	·	
17					
18					
19					
20					

Ventila-	Floor	Area/room and position	Ventilation zone	Starting	direction
tion unit	1 1001	Area/room and position	(CAM)	Supply	Extract
21					
22					
23					
24					
			I	· · · · · · · · · · · · · · · · · · ·	
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COMPANY DETAILS

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inVENTer GmbH

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