DECENTRALIZED HOME VENTILATION LG 100

COMFORT VENTILATION

AUSTRIA

Deutsches Institut für Bautechnik DIBt

EPREL according to Regulation (EU) No. 1369/2017

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PICHLER

Systematic ventilation.

With its flexible mounting options and connection variants the decentralized compact ventilation unit LG 100 offers an optimum solution for every situation. Depending on the design of the housing, the following installation variants are provided for selection: Installation of the ventilation unit in the exterior wall (flush-mounted approach), installation on the inner side of an exterior wall (surface-mounted approach), or installation in a suspended ceiling (ceiling approach). The flush-mounted approach can be optionally implemented as single-room or multi-room application.
With the LG 100 ventilation unit the ventilation concept can be created very flexibly and, if required, further rooms can be integrated via the KomFlex® air duct system.
By means of small, adjustable sliding elements, the supply air and extract air volume flows that are led via the front cover of the unit can be regulated.
The used air is extracted from the living areas, and fresh, filtered outdoor air is supplied again. In this process, the high-quality enthalpy exchanger allows for efficient heat and moisture recovery and ensures a well-balanced room humidity and a pleasant room climate.

Highly efficient and low noise EC radial fans allow for extremely energy-saving and low-noise operation.
In the switched-off state, the outdoor and exhaust air openings are automatically closed mechanically.
The integrated sensors record the VOC and eCO2 concentration of the extract air and, in automatic mode, allow for an operation depending on the room air quality.
The decentralized compact ventilation unit LG 100 is operated easily and intuitively via push button directly at the unit or via the Pichler App. To make this possible, one of the unit's standard features is the WLAN connection.
Optionally you can additionally connect an external control unit via cable connection.

Optionally: Different designs and colours of the design front available on request, standard colour RAL 9003.

Area of application

The unit is ideally suitable for the controlled home ventilation of small to medium-sized residential units.
The variant variety offers the perfect solution for any mounting conditions.
For new buildings, for instance, the flush-mounted approach is especially suitable, allowing to “hide” the ventilation unit almost flush with the exterior wall.
Apart from the aeration and ventilation of the room in which the unit is installed, additional supply air and extract air rooms can be connected.

For renovations in existing buildings, we recommend the surface-mounted installation type. This type of installation only requires two core drillings (Ø 142 mm).
As an alternative, the unit can also be mounted on the ceiling. A suspended ceiling of 200 mm hides the built-in frame and the pipes.

System solution for residential building

BENEFITS

- Decentralized ventilation unit with optional multi-room connections
- Flush-mounted, on-wall or ceiling variant
- Intelligent humidity control
- Silent and efficient comfort ventilation
- High acoustic insulation
- Two-stage outdoor air filtration
- Without condensate drainage by enthalpy exchangers
- Cover flaps for outdoor air/exhaust air
- VOC/eCO2 multi-sensor for room air quality measurements integrated
- Comparison of the outdoor air quality with the room air (optional)
- Allocation of the operating & maintenance expenses by individual apartments
- Installation into the exterior wall makes it possible to dispense with risers
- No penetration of fire compartments in residential buildings
- WLAN connection
- Operation via the Pichler App

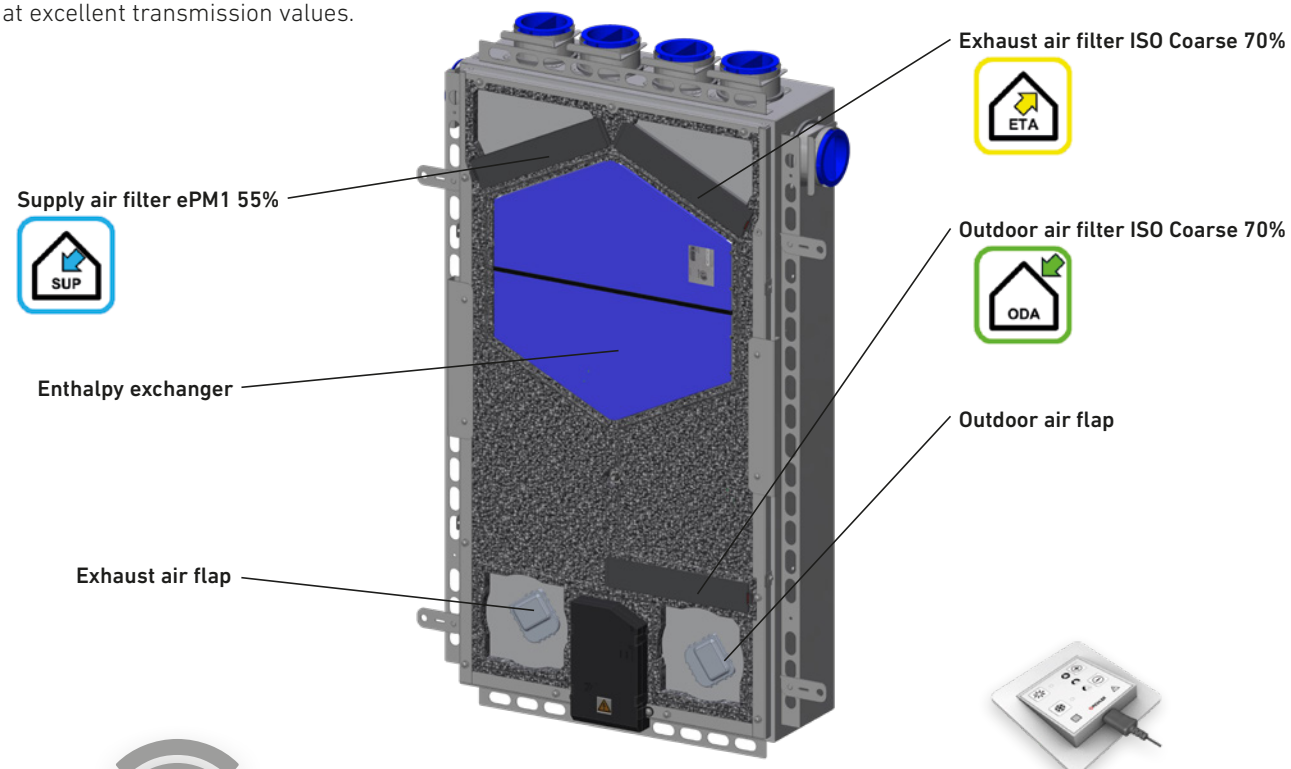
Special features

ENTHALPY EXCHANGERS

are recuperative energy exchangers not only recovering heat, but also humidity and in this way providing for a balanced room climate throughout the year. This is enabled by a special polymer membrane which allows for vapour diffusion, but at the same time prevents the formation of bacteria (hygiene-certified in compliance with VDI 6022). The enthalpy exchanger does not produce any condensate and it convinces by its long lifetime at excellent transmission values.

FILTER

A special focus is placed on the filtration of the outdoor air. The outdoor air is filtered in two stages so as to create filter change intervals that are as long as possible and nevertheless provide for a high separation efficiency. Even with a higher fine dust pollution, effective and efficient filtration is therefore ensured.



WLAN / PICHLER APP

The ventilation unit can be easily integrated into the home network and controlled via the Pichler App. Download in the Apple iOS store and Google Play store.
To ensure a stable WLAN connection of the LG 100 it may be required to boost the WLAN signal by using WLAN repeaters or to establish a mesh network.

GET IT ON Google Play

Download on the App Store

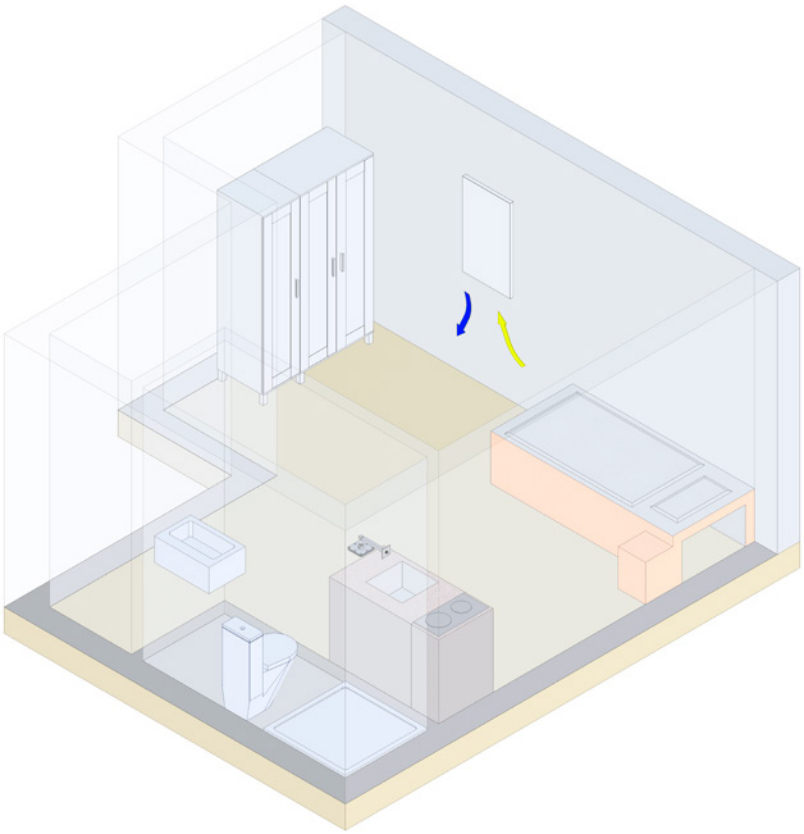
CONTROL

The demand-driven volume flow control is based on the continuous measurement of the room air quality. When the VOC or eCO2 concentration rises, the volume flow is automatically increased. If outdoor temperatures are very low, depending on the design either the pre-heating battery is activated or the supply air volume flow is reduced.

OPERATING CONTROL UNIT MINI (OPTIONAL)

If operation via Pichler App and by means of the push button on the unit is not sufficient (e.g. in the case of ceiling mounting), you can optionally connect the wired operating control unit MINI. It is easy to handle, makes it possible to adjust the ventilation levels and displays the operating status, a necessary filter change and possibly occurring faults. It is installed on a flush-mounted socket.

Flush-mounted fitting – single-room application (recommended operating volume flow: 25 – 60 m³/h)

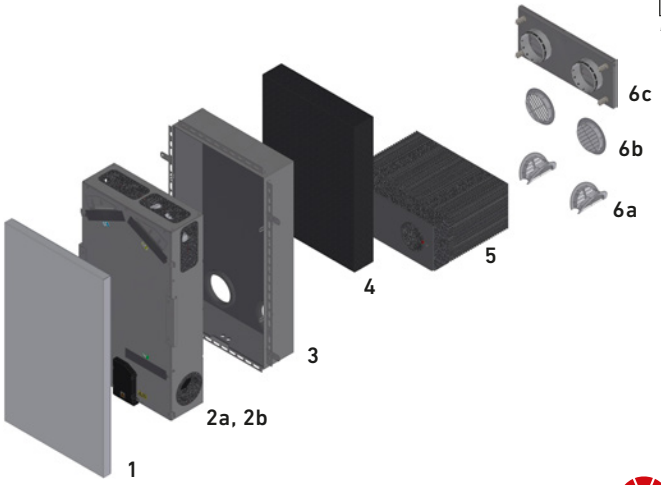


THE FOLLOWING ARTICLES ARE COMBINED FOR SINGLE-ROOM APPLICATIONS AS A STANDARD

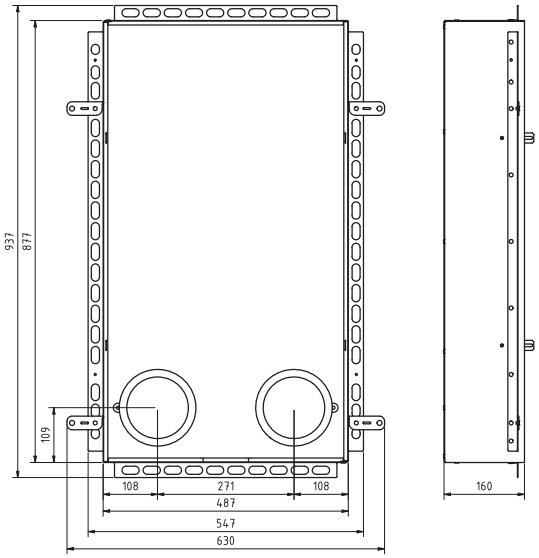
The flush-mounted housing (3), the EPS compensating insulation (4) and the EPP wall duct element (5) are already required in the shell construction phase. The remaining articles are installed at a later time in the completion phase.

	Item	Item number
1	Design front, RAL 9003, other variants and colours – see page 20	08LG100UPAPDF1A
2a	Compact ventilation unit LG100 without housing	08LG100UPF
2b	Compact ventilation unit LG100 without housing with pre-heating battery	08LG100UPFV
3	Flush-mounted housing, single-room application	08LG100UPGERA
4	EPS compensating insulation, 100 mm	08LG100UPAGD1A
5	EPP wall duct element	08LG100UPWD
6a	Plastic grille NW 170, white, mountable from the inside	10DF140B
6b	Plastic grille NW 155, white, mountable from the outside	10TU125B
6c	Outer wall element NW 125; steel sheet galvanized RAL 9003*	08LG100AWE1A

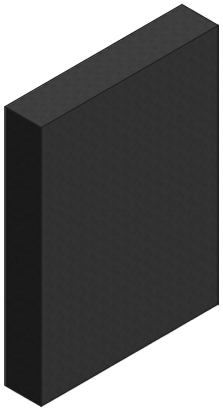
) Other designs and colours on request

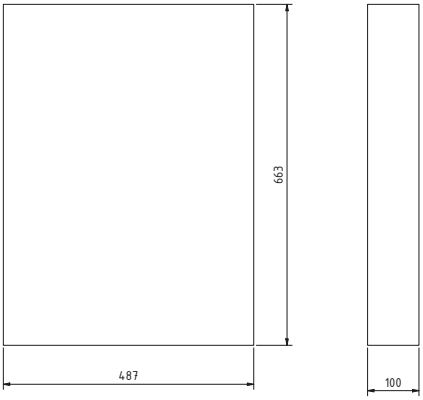


FLUSH-MOUNTED HOUSING, SINGLE-ROOM APPLICATION (3)

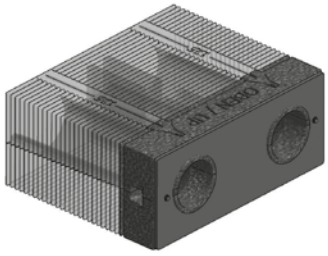


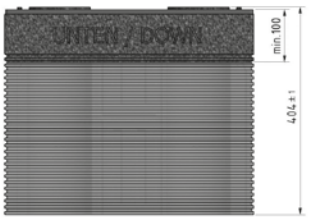
EPS COMPENSATING INSULATION (4)



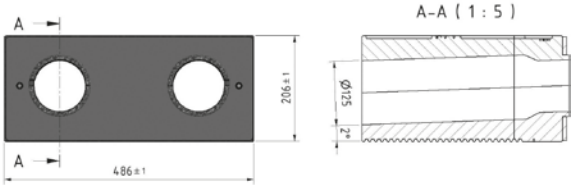


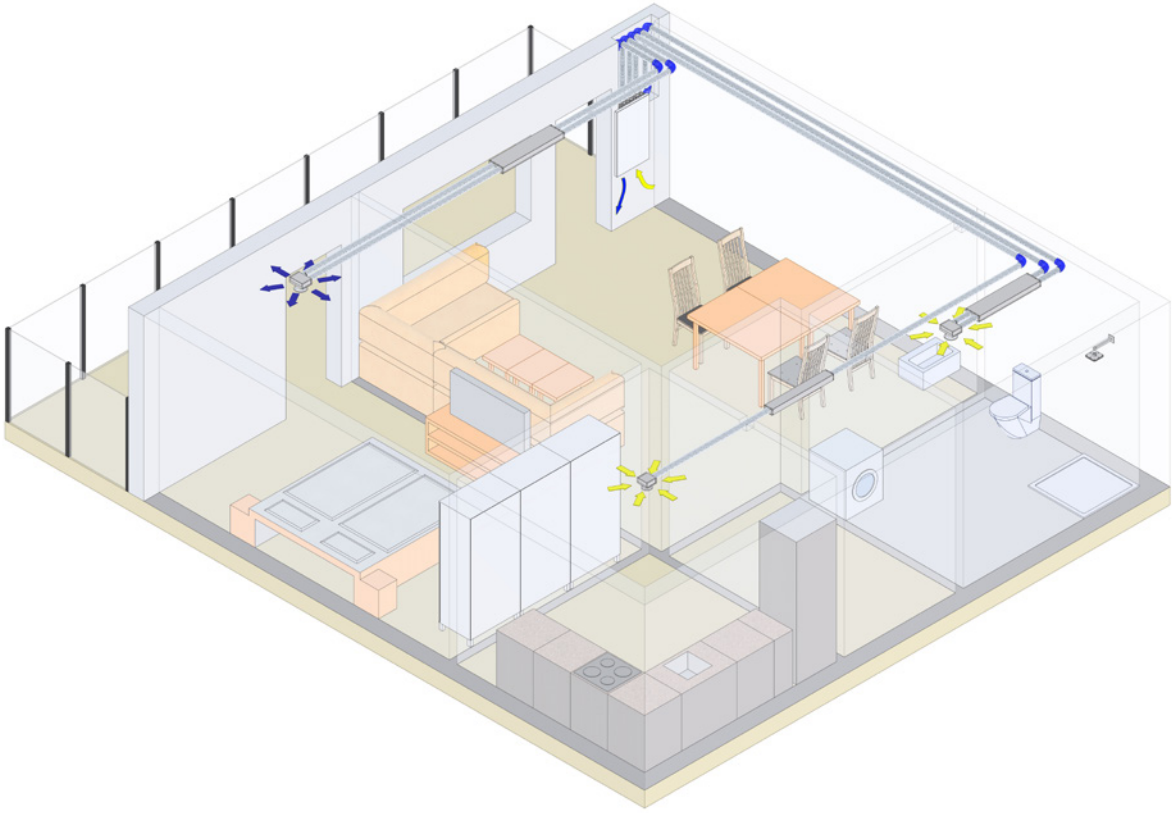
EPP WALL DUCT ELEMENT (5)





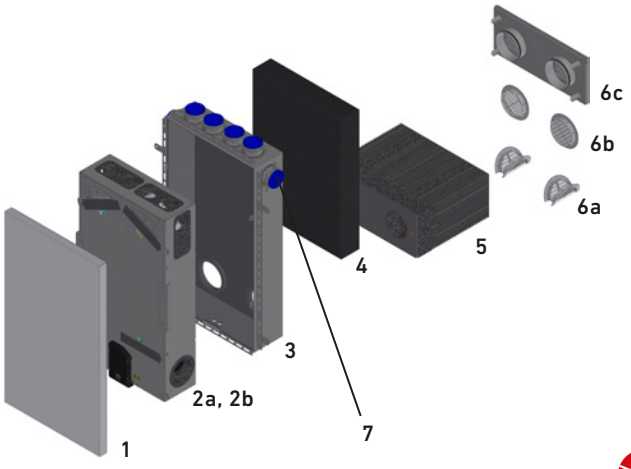
Can be shortened to a minimum of 100 mm





THE FOLLOWING ARTICLES ARE COMBINED FOR MULTI-ROOM APPLICATIONS AS A STANDARD

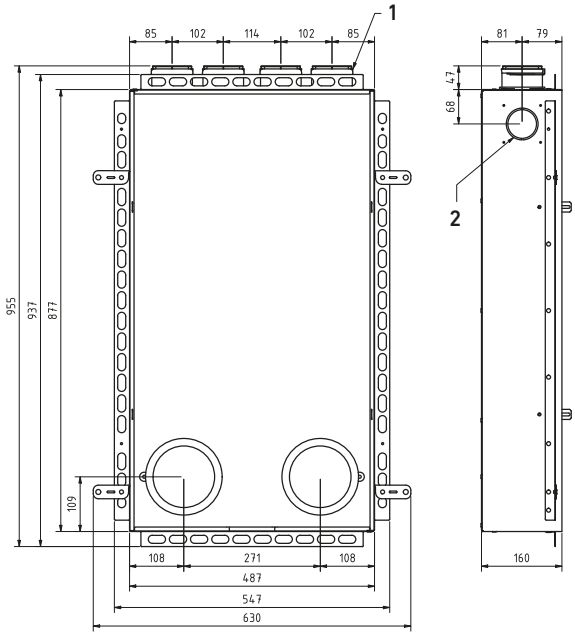
The flush-mounted housing (3), the EPS compensating insulation (4) and the EPP wall duct element (5) are already required in the shell construction phase. The remaining articles are installed at a later time in the completion phase.
The connection of individual or several rooms to the ventilation unit is carried out using the KomFlex® air duct system. For multi-room applications we recommend the installation of flat sound absorbers.



	Item	Item number
1	Design front, RAL 9003, other variants and colours – see page 20	08LG100UPAPDF1A
2a	Compact ventilation unit LG100 without housing	08LG100UPF
2b	Compact ventilation unit LG100 without housing with pre-heating battery	08LG100UPFV
3	Flush-mounted housing, multi-room application	08LG100UPGMRA
4	EPS compensating insulation, 100 mm	08LG100UPAGD1A
5	EPP wall duct element	08LG100UPWD
6a	Plastic grille NW 170, white, mountable from the inside	10DF140B
6b	Plastic grille NW 155, white, mountable from the outside	10TU125B
6c	Outer wall element NW 125; steel sheet galvanized RAL 9003*	08LG100AWE1A
7	1 pc. Expansion set multi-room application for an additional KomFlex® air duct	08LG100UPESETA

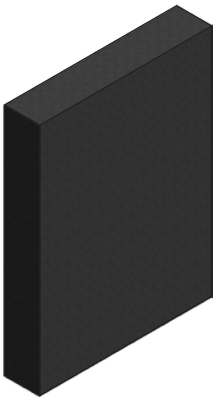
) Other designs and colours on request

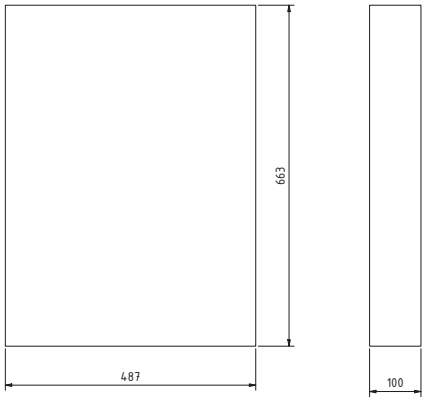
FLUSH-MOUNTED HOUSING, MULTI-ROOM APPLICATION (3)



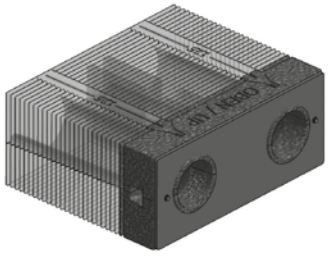
1 KomFlex 75 (4x)
2 Preparation for the expansion set multi-room application 08LG100UPESETA (2x)

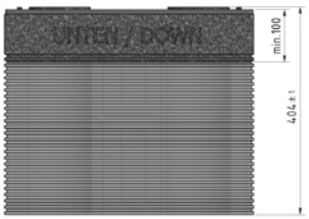
EPS COMPENSATING INSULATION (4)



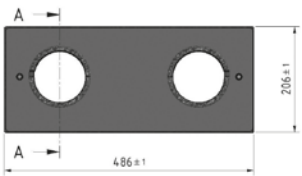


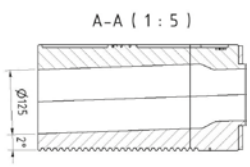
EPP WALL DUCT ELEMENT (5)



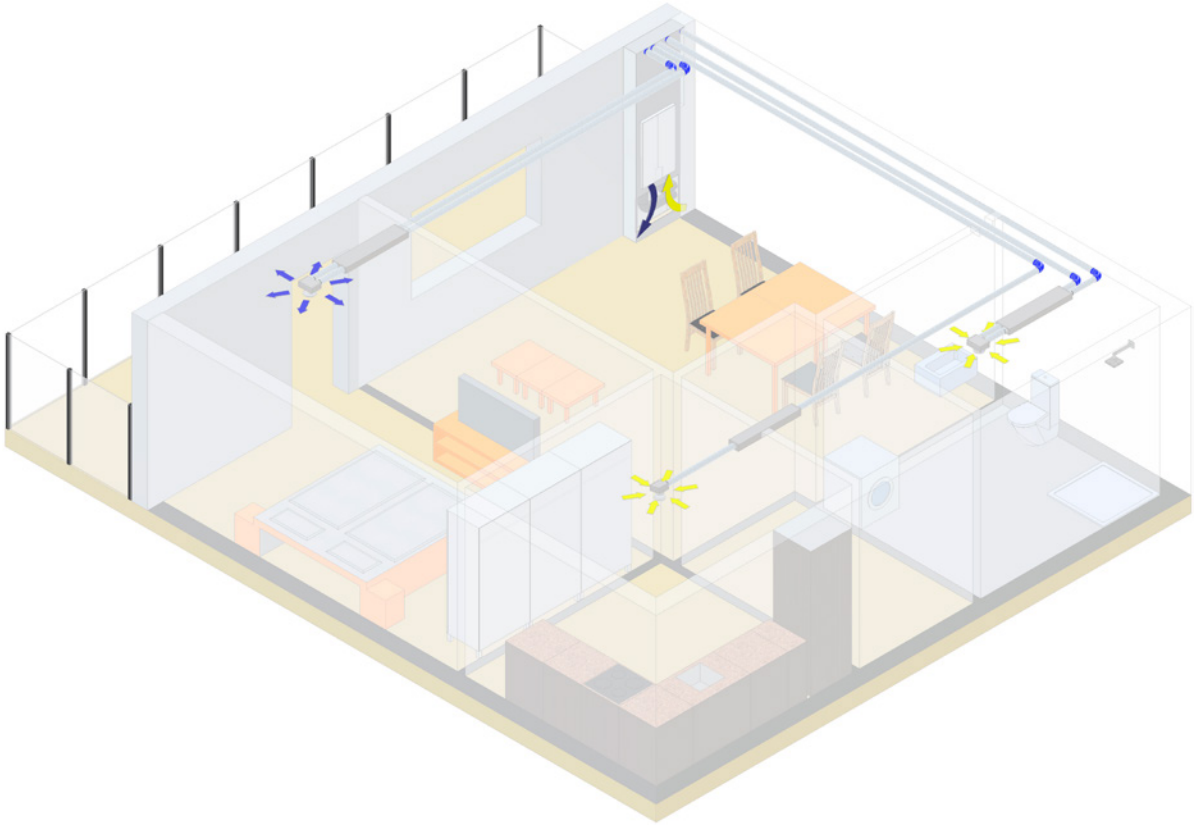


Can be shortened to a minimum of 100 mm





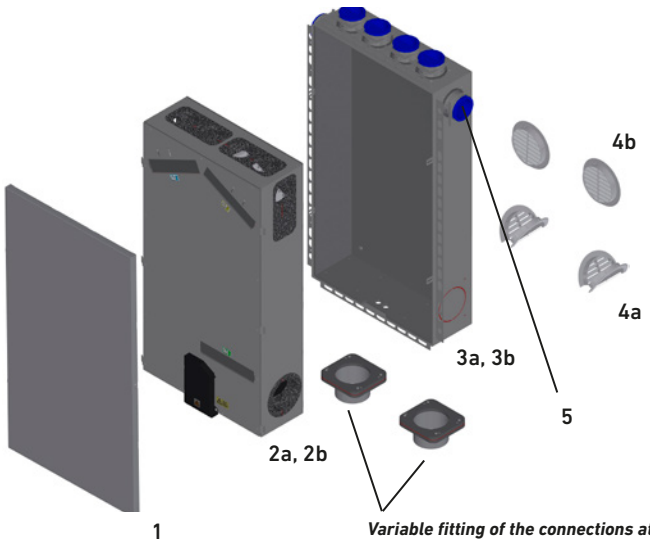
Flush-mounted fitting with a facing shell – multi-room application (recommended operating volume flow: 25 – 80 m³/h)



THE FOLLOWING ARTICLES ARE COMBINED WITH A FACING SHELL FOR MULTI-ROOM APPLICATIONS AS A STANDARD

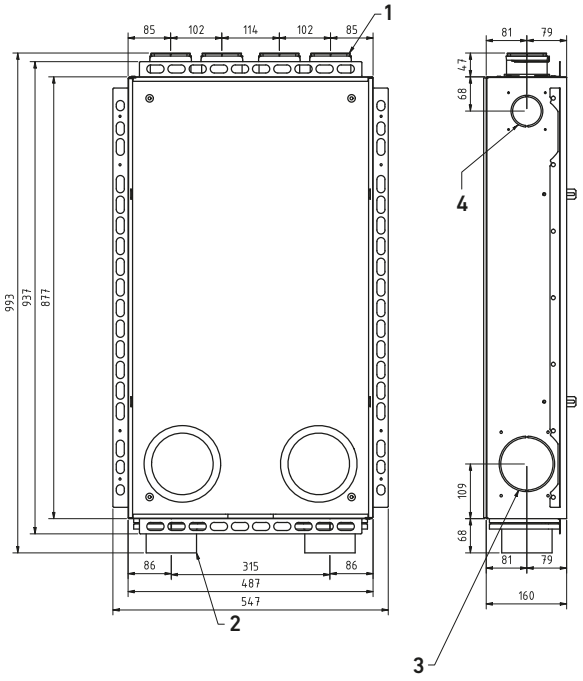
The connection of individual or several rooms to the ventilation unit is implemented by means of the KomFlex® air duct system. For multi-room applications, we recommend the installation of flat acoustic dampers (see accessories).

	Item	Item number
1	Design front, RAL 9003, other designs and colours – see page 20	08LG100UPAPDF1A
2a	Compact ventilation unit LG100 without housing	08LG100UPF
2b	Compact ventilation unit LG100 without housing with pre-heating battery	08LG100UPFV
3a	Flush-mounted housing, connecting piece without lip seal	08LG100UPGMRAVS (standard)
3b	Flush-mounted housing, connecting piece with lip seal	08LG100UPGMRAVSL (optionally)
4a	Plastic grille NW 170, white, mountable from the inside	10DF140B
4b	Plastic grille NW 155, white, mountable from the outside	10TU125B
5	1 Expansion set multi-room application for an additional KomFlex® air duct	08LG100UPESETA



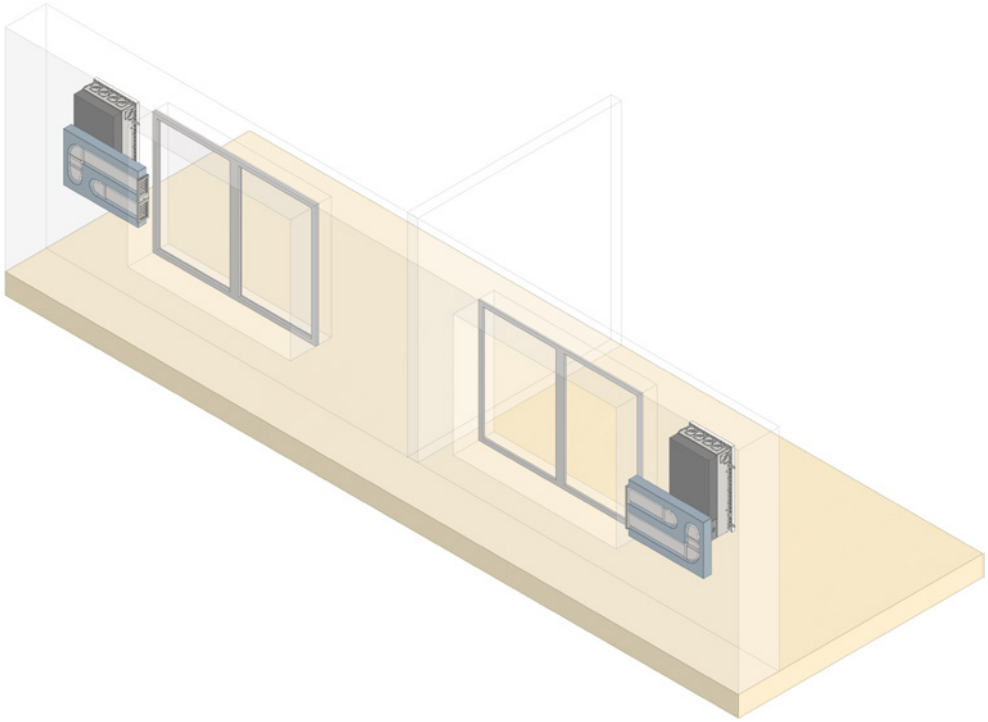
Variable fitting of the connections at the side or bottom.
ODA/EHA-connecting piece DN100 with or without lip seal.

FLUSH-MOUNTED HOUSING, MULTI-ROOM APPLICATION WITH FACING SHELL (3)



1 KomFlex 75 (4x)
2 ODA/EHA connecting piece DN 100 NP (2x, exchangeable to the side)
3 Preparation for ODA/EHA connecting piece (2x)
4 Preparation for the expansion set multi-room application 08LG100UPESETA (2x)

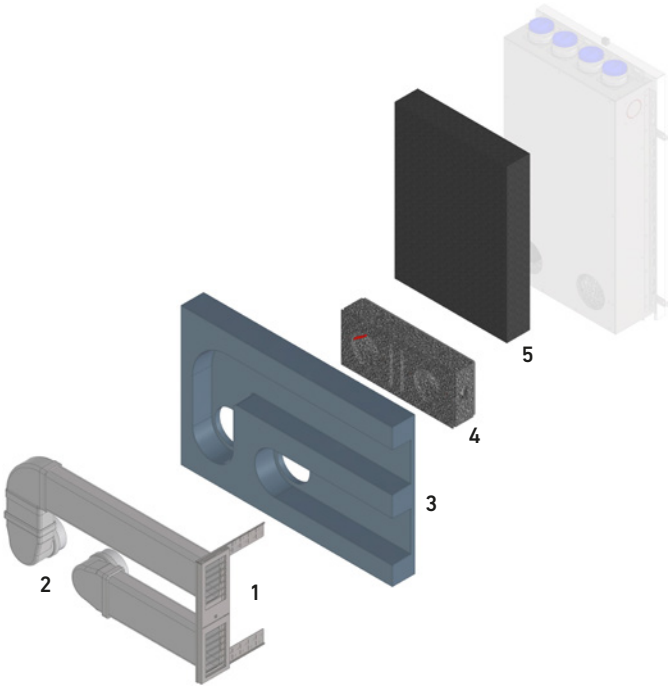
Flush-mounted fitting – window reveal connection (single-room and multi-room connection)



THE FOLLOWING ARTICLES ARE COMBINED FOR THE REVEAL CONNECTION AS A STANDARD

	Item	Item number
1	Exterior wall element window reveal, RAL 9003*	08LG100FLAWE1A
2	Window reveal connection set	08LG100FLASETA
3	Window reveal insulation panel	08LG100FLDPA
4	EPP wall duct element	08LG100UPWD
5	EPS compensating insulation, 100 mm	08LG100UPAGD1A

) Other designs and colours on request

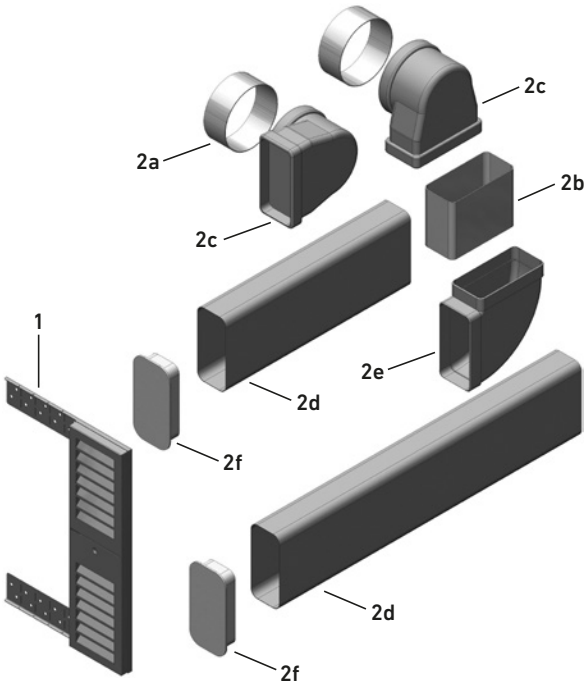


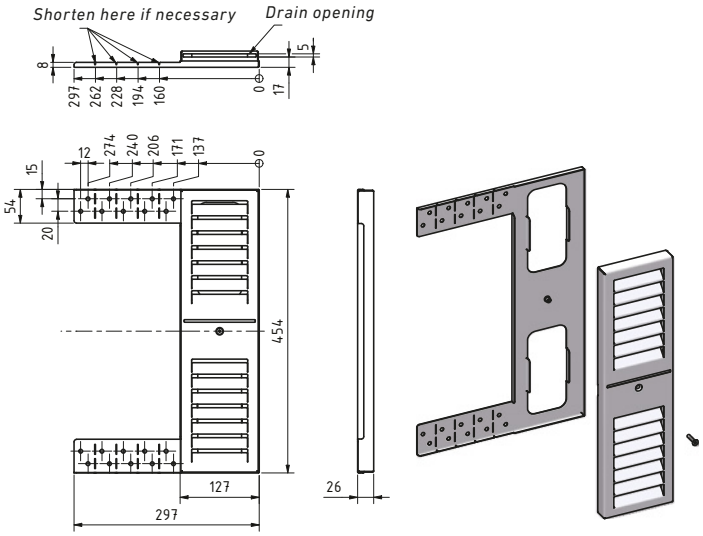
EXTERIOR WALL ELEMENT WINDOW REVEAL (1) & WINDOW REVEAL CONNECTION SET (2)

	Item	Item number
1	**1 pc. Exterior wall element window reveal, RAL 9003***	**08LG100FLAWE1A**

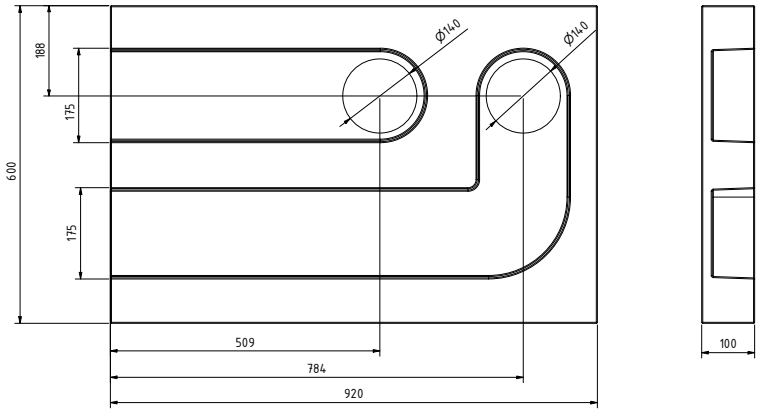
) Other designs and colours on request

	Item	Item number
2	**LG100UP/AP connection set for window reveal**	**08LG100FLASETA**
2a	2 pcs. Pre-cut parts round pipe ø 125 mm	40LG0300064A
2b	1 pc. Pre-cut part flat duct, W x H = 150 x 70 mm	40LG0300065A
2c	2 pcs. Junctions square / round	08UERV12515070
2d	2 pcs. Flat ducts 1 m made from plastic	08K150701000
2e	1 pc. Bend 90° flat	08B9015070
2f	2 pcs. Endcovers for ducts	08EP15070

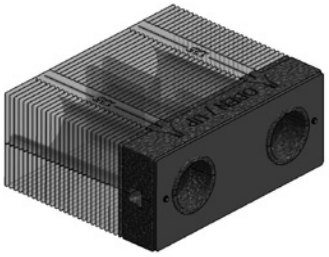




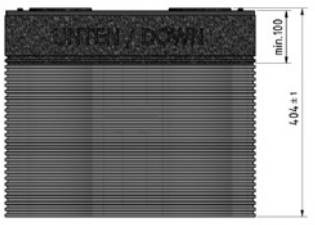
WINDOW REVEAL INSULATION PANEL (3)

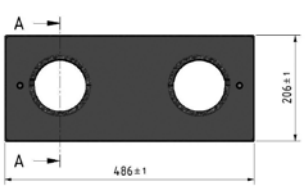


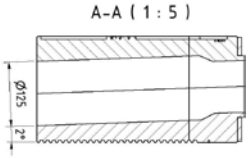
EPP WALL DUCT ELEMENT (4)



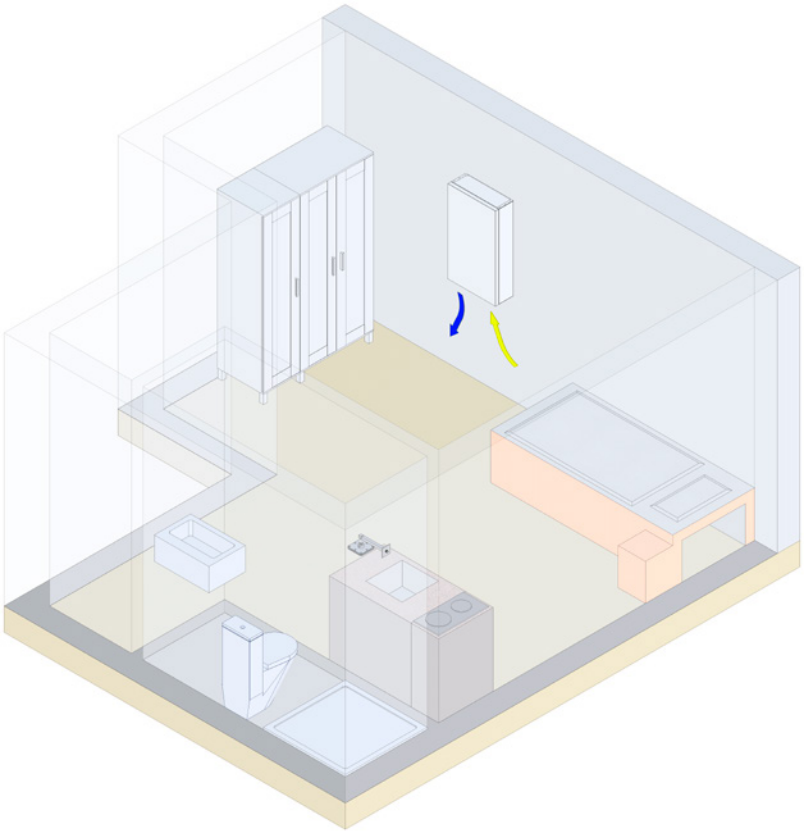
Can be shortened to a minimum of 100 mm



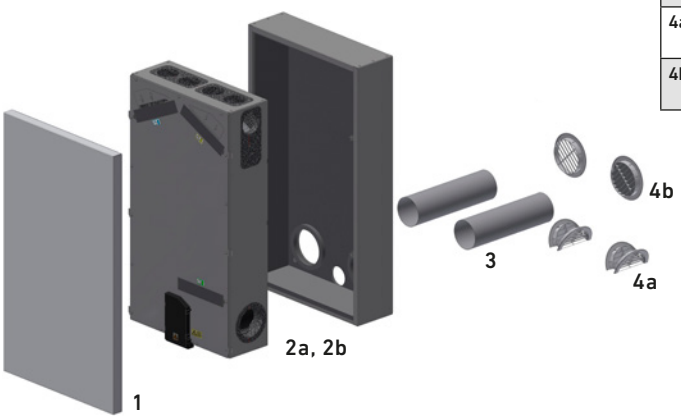




Surface-mounted installation – single-room application (recommended operating volume flow 25 – 60 m^3/h)

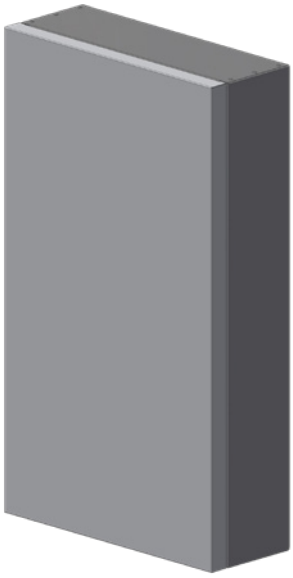


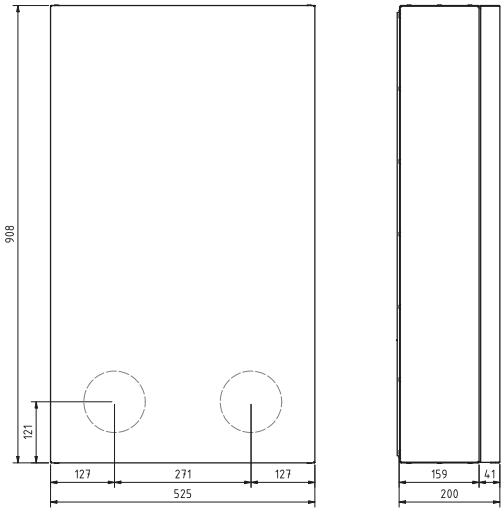
FOR SINGLE-ROOM APPLICATIONS
IN THE SURFACE-MOUNTED HOUSING,
THE FOLLOWING DESIGN VARIANTS ARE PROVIDED



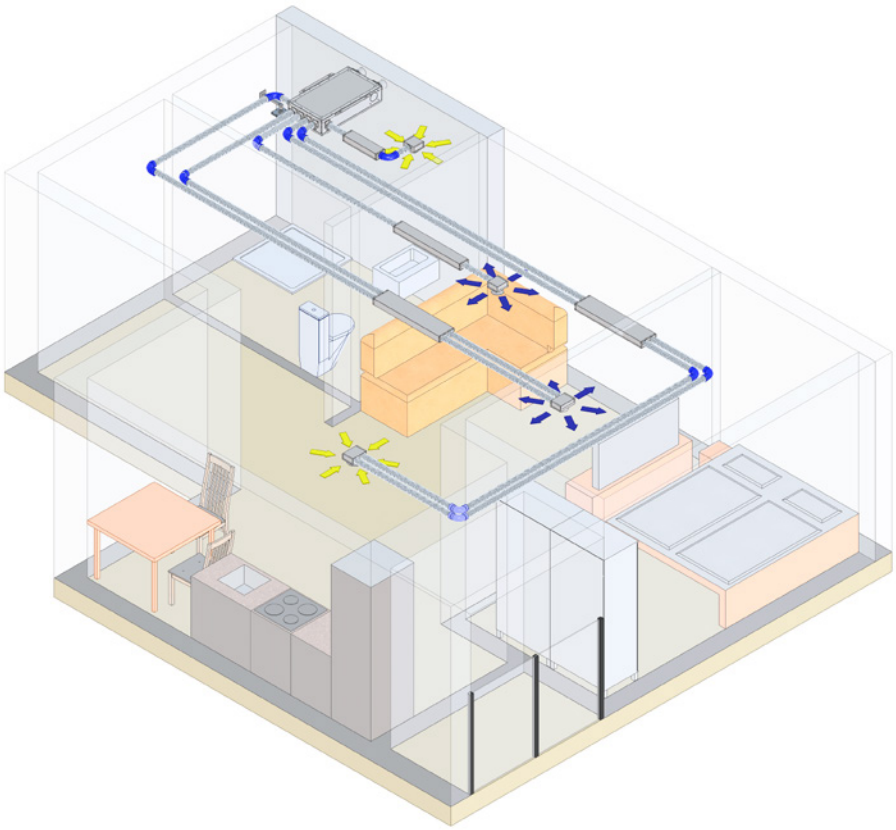
	Item	Item number
1	Design front, RAL 9003, other designs and colours – see page 20	08LG100UPAPDF1A
2a	Compact ventilation unit LG100AP surface-mounted unit with housing	08LG100APF
2b	Compact ventilation unit LG100AP surface-mounted unit with housing with pre-heating battery	08LG100APFV
3	Round tube plastics, NW 125 mm, L = 1000 mm	08R1251000
4a	Plastic grille NW 170, white, mountable from the inside	10DF140B
4b	Plastic grille NW 155, white, mountable from the outside	10TU125B

SURFACE-MOUNTED UNIT WITH HOUSING FOR SINGLE-ROOM APPLICATIONS (1, 2A/B)





Ceiling mounting (recommended operating volume flow 25 – 80 m³/h)



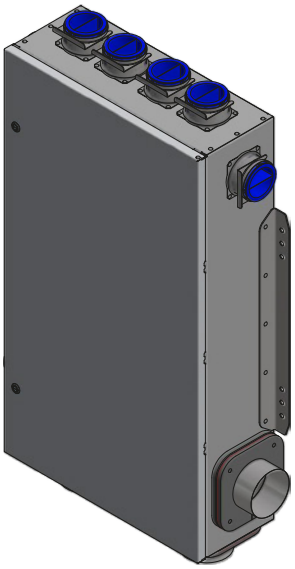
FOR MULTI-ROOM APPLICATION IN THE SUSPENDED CEILING, THE FOLLOWING DESIGN VARIANTS ARE PROVIDED

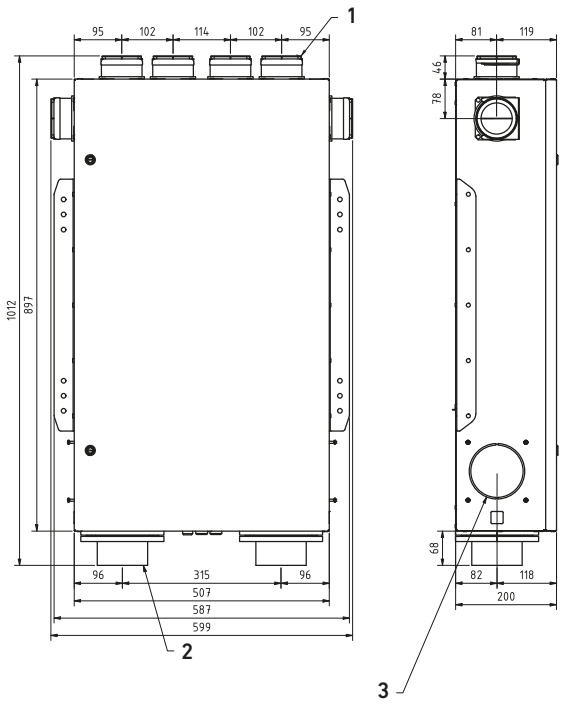
The rooms are connected to the ventilation unit using the KomFlex® air duct system. For multi-room applications we recommend installing flat sound absorbers.

Variable installation of the connection at the side or rear. ODA/EHA connecting piece DN100 with or without lip seal.

	Item	Item number
1a	**Compact ventilation unit LG100DE ceiling unit, connecting piece without lip seal**	08LG100DEF (standard)
1b	**Compact ventilation unit LG100DE ceiling unit with pre-heating battery, connecting piece without lip seal**	08LG100DEFV (standard)
1c	**Compact ventilation unit LG100DE ceiling unit, connecting piece with lip seal**	08LG100DEFL (optionally)
1d	**Compact ventilation unit LG100DE ceiling unit with pre-heating battery, connecting piece with lip seal**	08LG100DEFVL (optionally)
2	**Operating control unit MINI LG100**	08LGMINI100
3	**Inspection cover**	08LG100150REVDE

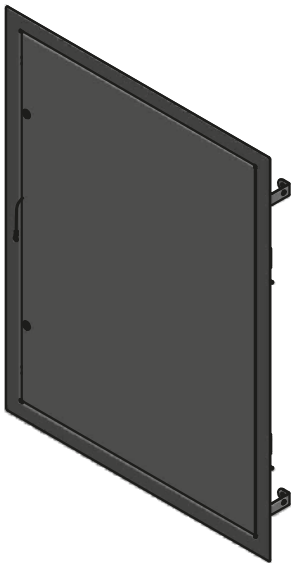
CEILING UNIT FOR MULTI-ROOM APPLICATION (1A/B)

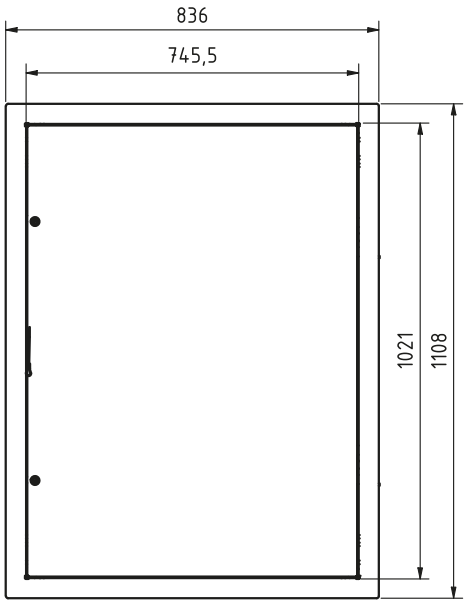




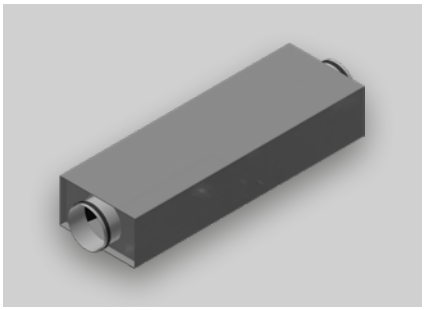
1 KomFlex 75 (6x)
2 ODA/EHA connecting piece DN 100 NP (2x, exchangeable to the side)
3 Preparation for ODA/EHA connecting piece (2x)

INSPECTION COVER (4)

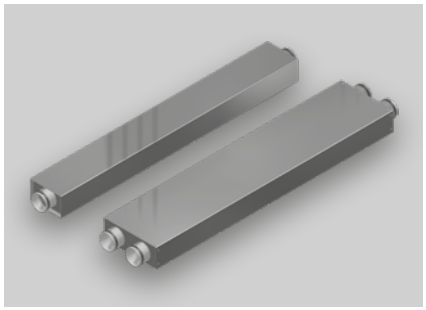




Design acoustic insulation valve SDV for supply air



Deflection sound absorber USDF for outdoor air and exhaust air



Flat acoustic damper PFSDW for supply air and extract air

Accessories

SPARE FILTER

Will ensure perfect hygiene and air quality given regular replacement, also proper functionality and efficient operation of the equipment.

Item	Item number
Filter ODA ISO Coarse 70% (outdoor air – pre-filter)	40LG0500006A
Filter SUP ISO ePM1 55% (supply air – fine filter)	40LG0500007A
Filter ETA ISO Coarse 70% (extract air)	40LG0500006A

DESIGN ACOUSTIC INSULATION VALVE SDV

Supply valve for wall mounting with optimised acoustic properties. Connecting links with glass silk surface.

Colour: white (RAL 9003). Other colours on request.
Material: sheet steel, galvanised
Dimensions: W x H x D = 337 x 175 x 90 mm

Item	Item number
Design acoustic insulation valve SDV 100, air connection: ø 100 mm (SAFE system)	10SDV10003
Design acoustic insulation valve SDV 125, air connection: ø 125 mm (SAFE system)	10SDV12503
Design acoustic insulation valve SDV 125 without ILU, air connection ø 125 mm without spigot, Opening sealed with 4 mm insulation on the back	10SDV125OILU03

DEFLECTION SOUND ABSORBER USDF

- Square sound absorber with connecting links optimised in terms of fluid mechanics and acoustics in flat design.
- Housing made of galvanized sheet steel
- Connecting links with high-strength, wear-resistant and moisture-repelling surface made from glass silk with absorption and response elements for optimum sound attenuation
- Connecting piece with double lip seal for plug-in assembly

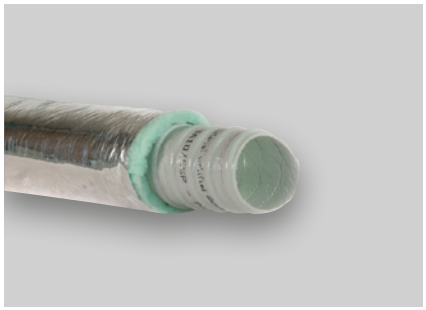
Item	Item number
Flat deflection sound absorber without inspection cover, air connection: ø 100 mm (SAFE system), dimensions: W x H x L = 202 x 115 x 600 mm	08USDF100600

FLAT ACOUSTIC DAMPER PFSDW

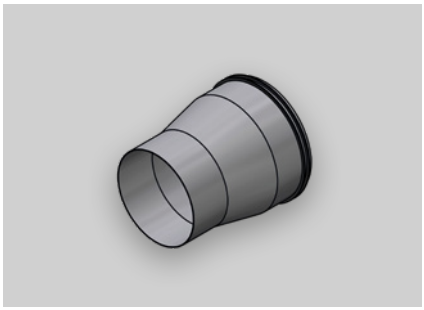
Flat deflection sound absorber with duct connection and an integrated perforated plate including mineral wool cased with glass silk. The outer housing is made of galvanised sheet steel. Connectors with lip seal for plug-in assembly. (SAFE system) or with strain relief (08TPEDR6275 seal must be ordered.

Plug-in installation with SAFE system	Item number
Flat acoustic damper PFSDW, air connection: 1 x Ø 63 mm for KomFlex® 75, dimensions: W x H x L = 130 x 80 x 1000 mm	08PFSDW631000
Flat acoustic damper PFSDW, air connection: 2 x Ø 63 mm for KomFlex® 75, dimensions: W x H x L = 220 x 80 x 1000 mm	08PFSDW6310002
Flat acoustic damper PFSDW, air connection: 1 x Ø 63 mm for KomFlex® 75, dimensions: W x H x L = 130 x 80 x 500 mm	08PFSDW63500
Flat acoustic damper PFSDW, air connection: 2 x Ø 63 mm for KomFlex® 75, dimensions: W x H x L = 220 x 80 x 500 mm	08PFSDW635002
Flat acoustic damper PFSDW, air connection: 1 x Ø 63 mm for KomFlex® 75, dimensions: W x H x L = 130 x 80 x 750 mm	08PFSDW63750
Flat acoustic damper PFSDW, air connection: 2 x Ø 63 mm for KomFlex® 75, dimensions: W x H x L = 220 x 80 x 750 mm	08PFSDW637502

Plug-in installation with strain relief	Item number
Flat acoustic damper PFSDW, air connection: 1 x Ø 75 mm for KomFlex® 75, dimensions: B x H x L = 130 x 90 x 1000 mm	08PFSDW1751000ILNH
Flat acoustic damper PFSDW, air connection: 2 x Ø 75 mm for KomFlex® 75, dimensions: B x H x L = 220 x 90 x 1000 mm	08PFSDW2751000ILNH
Flat acoustic damper PFSDW, air connection: 1 x Ø 75 mm for KomFlex® 75, dimensions: B x H x L = 130 x 90 x 500 mm	08PFSDW175500ILNH
Flat acoustic damper PFSDW, air connection: 2 x Ø 75 mm for KomFlex® 75, dimensions: B x H x L = 220 x 90 x 500 mm	08PFSDW275500ILNH



Plastic hose for outdoor air and exhaust air



Reduction Safe RCFU

Modbus/KNX Gateway

PLASTIC HOSE INSULATED POH

Additivated polyolefin resin foil with antibacterial, mould-inhibiting and antiviral material protection. Heat-insulating coating of meshed and closed-cell PE foam.

Insulation: 25mm polyester fibre (16kg/m³)
Operating temperature: -20°C to +90°C (115°C peak value)
Max. operating pressure: 2000 Pa
Max. air velocity: 20m/s
5 running meters (RMT) = 1 piece (pc)

Item	Item number
Plastic hose insulated PHO, air connection: ø 100 mm (sleeve size)	11POH10225

REDUCTION SAFE RCFU

Pipe connection: Ø 125 mm (SAFE system)
NPS reduction: Ø 100 mm (sleeve size)
Total length: 145 mm
Without corrugations

Item	Item number
Reduction Safe RCFU	11RCFU125100SV

BEND EPP-B

EPP bend of expanded polypropylene for quick mounting.
System pressure: max. 630 Pa
Tightness class: C
Thermal conductivity: λ = 0.035 W/mK

Item	Item number
øD = 125 mm, angle: 90°, wall thickness: 15 mm, with sleeve, friction coefficient: ζ = 0.21	08EPPB1259015

SLEEVE EPP-MF

EPP sleeve of expanded polypropylene for the connection of pipes and fittings.
System pressure: max. 630 Pa
Tightness class: C
Thermal conductivity: λ = 0.035 W/mK
Friction coefficient: ζ = 0,16

Item	Item number
øD = 125 mm, wall thickness: 15 mm, with sleeve	08EPPMF12515

PIPE EPP-R

EPP pipe of expanded polypropylene for quick mounting.
System pressure: max. 630 Pa
Tightness class: C
Thermal conductivity: λ = 0.035 W/mK

Item	Item number
øD = 125 mm, length: 1000 mm, wall thickness: 15 mm, with sleeve, friction coefficient: ζ = 0.18	08EPPR125151

MODBUS/KNX GATEWAY

The Modbus/KNX gateway allows for the connection of the ventilation unit to a KNX bus system. In this process, the gateway serves as a connective link between the two bus systems. Note that the master is always on the Modbus. On the KNX side, however, it responds like a common KNX TP-1 unit. This makes it possible to centrally control and monitor the ventilation unit by a KNX system. In order to facilitate the configuration, ETS template projects are provided for download for a variety of ventilation units.

Dimensions: L x W x D = 18 x 100 x 60 mm
Mounting: top hat rail or wall
Permissible ambient temperature: -5 to 45 °C
Permissible humidity: 5 – 93 % non-condensing
Protection class: IP20
Voltage: 12...24V DC
Interfaces: Ethernet, EIA-485, KNX-TP1

Item	Item number
Modbus/KNX Gateway	08KNXGAB

Technical data

Equipment type	LG 100 UP – flush-mounted		LG 100 AP – surface-mounted	LG 100 DE – ceiling-mounted
Application	Single-room application	Multi-room application	Single-room application	Multi-room application
Art. no. ventilation unit	08LG100UPF	08LG100UPF	08LG100APF	08LG100DEF
Art. no. ventilation unit with preheating battery	08LG100UPFV	08LG100UPFV	08LG100APFV	08LG100DEFV
Art. no. housing	08LG100UPGERA	08LG100UPGMRA	Included in the unit	Included in the unit
Art. no. design front, RAL9003 (other variants and colours – see page 20)	08LG100UPAPDF1A	08LG100UPAPDF1A	08LG100UPAPDF1A	Included in the unit

Device data				
Ventilation levels	1 – 2 – 3 – automatic			
Level 1 – basic ventilation	25	25	25	25
Level 2 – normal ventilation	42	56	42	56
Level 3 – boost ventilation	60	80	60	80
Automatic (demand-based)	25 – 60	25 – 80	25 – 60	25 – 80

Properties	
Volume flow constant function	yes
Humidity control	yes
Air quality control (VOC, eCO2)	yes
Mechanical cover flap in the outdoor air and exhaust air pipe	yes

Energy efficiency class	A	A	A	A

Characteristic values in compliance with EN13141-8:2014 [1]				
Temperature ratio $\eta_{e,SU}$	83,6 %	80,4 %	83,6 %	–
Humidity ratio supply air $\eta_{x,SU}$	69,1 %	64,3 %	69,1 %	–
Specific input power SEL	0,28 Wh/m³	n. a.	0,28 Wh/m³	–

Characteristic values in compliance with EN13141-7:2011 [1]				
Temperature ratio $\eta_{e,SU}$	–	–	–	80,4%
Humidity ratio supply air $\eta_{x,SU}$	–	–	–	64,3%
Specific input power SEL	–	–	–	0,36 Wh/m³

Classification of air filters in accordance with EN ISO 16890	
ODA filter (outdoor air – pre-filter)	ISO Coarse 70% (Item No.: 40LG0500006A)
SUP filter (supply air – fine filter)	ISO ePM1 55% (Item No.: 40LG0500007A)
ETA filter (extract air)	ISO Coarse 70% (Item No.: 40LG0500006A)

Operating conditions	
Permissible operating temperature (outdoor air) with/without preheating battery	–15 °C / –5°C
Condensate separation	not required [2]

Electrical system	
Electrical connection	230 V / 1 ~ / 50 Hz / 13 A
Power consumption of ventilation unit	8 – 40 watts
Power consumption of preheating battery	280 watts

[1] at 70 % of the max. volume flow; corresponds to ventilation level 2
[2] when used as intended as living space ventilation unit, no condensate will form

Equipment type	LG 100 UP – flush-mounted	LG 100 AP – surface-mounted	LG 100 DE – ceiling-mounted

Materials and components			
Inner part	EPP and galvanised steel sheets		
Design front	Steel sheet, galvanised and powder-coated		–
Heat exchanger	Enthalpy counterflow heat exchanger with a polymer membrane		
Fans	EC radial fans		

Air connections				
Outdoor air / exhaust air	100 mm			
Multi-room connection supply air	–	3 x KOMFLEX 75	–	3 x KOMFLEX 75
Multi-room connection extract air	–	3 x KOMFLEX 75	–	3 x KOMFLEX 75

Acoustic insulation			
Standardised sound level difference $D_{n,e,w}$ Standby	57 dB(A)	55 dB(A)	n. a.
Standardised sound level difference $D_{n,e,w}$ operation	55 dB(A)	55 dB(A)	n. a.

Dimensions and weight			
Unit dimensions W x H x D (without connections)	547 x 937 x 202 mm	525 x 908 x 200 mm	587 x 937 x 203 mm
Weight	25 kg	25 kg	25 kg
Design front	525 x 908 x 43 mm	525 x 908 x 43 mm	–
Weight	5 kg	5 kg	–

Certifications		
TÜV-tested	yes	
Building inspection approval (DIBt (German Institute for Structural Engineering))	Z-51.3-489	Z-51.3-490

Acoustic data

Single-room application LG 100 UP and LG 100 AP		Volume flow m³/h		
		25	42	60
Housing	Sound pressure level at a distance of 1 m $L_{PA,1m}$ dB(A)	< 20	22	29
	Sound power level L_{WA} dB(A)	29	35	43
Outdoor air / exhaust air	Sound power level L_{WA} dB(A) weather protection	41	53	62
	Sound power level L_{WA} dB(A) reveal	39	50	58

Multi-room application LG 100 UP Distribution: Design front approx. 1/3, KOMFLEX pipes approx. 2/3		Volume flow m³/h			
		42	56	70	80
Housing	Sound pressure level at a distance of 1 m $L_{PA,1m}$ dB(A)	< 20	22	27	29
	Sound power level L_{WA} dB(A)	32	35	40	42
Outdoor air / exhaust air	Sound power level L_{WA} dB(A) weather protection	48	55	57	64
	Sound power level L_{WA} dB(A) reveal	45	52	54	60

Ceiling unit LG 100 DE		Volume flow m³/h			
		42	56	70	80
Housing	sound power level L_{WA} dB(A)	31	37	41	45
Outdoor air connection	sound power level L_{WA} dB(A)	50	55	58	61
Exhaust air connection	sound power level L_{WA} dB(A)	51	56	63	67
Supply air connection	sound power level L_{WA} dB(A)	39	44	48	51
Extract air connection	sound power level L_{WA} dB(A)	39	44	50	53

Design front variants

The standard front of the LG 100 is classic white in RAL 9003. Architecturally appealing solutions can be implemented by means of different design fronts for the flush-mounted & surface solution. By their individual design possibilities, the variants allow for integration into modern architecture.
All fronts can be used as magnetic boards. Additionally, the glass variants can also be written on using whiteboard pens.

	Item	Item number
1	**Design front, galvanized sheet steel in RAL 9003 with matt coating***	08LG100UPAPDF1A
2	**Design front, prisms film***	08LG100UPAPDF2A
3	**Design front, line-art film***	08LG100UPAPDF3A
4	**Design front, glass white***	08LG100UPAPDF4A
5	**Design front, glass grey***	08LG100UPAPDF5A

for flush-mounted & surface solution, ceiling solution excepted.

1) RAL 9003 matt

2) Prisms

3) Line-art

4) Glass white

5) Glass grey

LG 100 at a glance!

- Decentralized ventilation unit with optional multi-room connections
- Moisture protection and comfort ventilation with heat recovery
- Flush-mounted, surface-mounted or ceiling installation
- Two-stage outdoor air filtration
- Without condensate drainage by enthalpy exchangers
- Silent and efficient
- VOC/eCO2 multi-sensor for room air quality measurements integrated
- Operation via the Pichler App
- High acoustic insulation
- Intelligent moisture control
- Comparison of the outdoor air quality with the room air

ErP 2018

ErP 2018
Fulfils the requirements of the Ecodesign Directive, in accordance with EU Regulation 1253/2014.

EPREL according to Regulation (EU) No. 1369/2017
In accordance with VO (EU) No. 1369/2017 – Energy Labelling, European Product Database, the ventilation unit is listed in the EPREL database.

klimaaktiv Partner | PASSIVHAUS Austria | Mitglied NETZWERK PASSIVHAUS www.passivhaus.at

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