SYSTEM VENTECH
LG 150

LG 150 A,
LG 150 AF

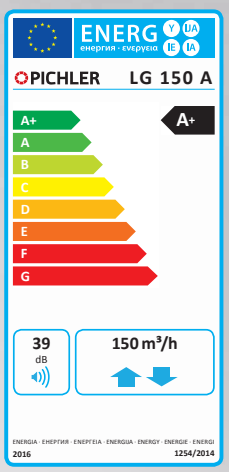
LG 150 A,
LG 150 AF

EN 13141-7:2011-01

LG 150 A,
LG 150 AF

ErP
2018

EU Regulation
1253/2014



The specified energy efficiency is applicable when controlled to local requirements and is valid up to the specified maximum air flow volume.

COMFORT VENTILATION

optional

PICHLER

Systematic ventilation.

Product description

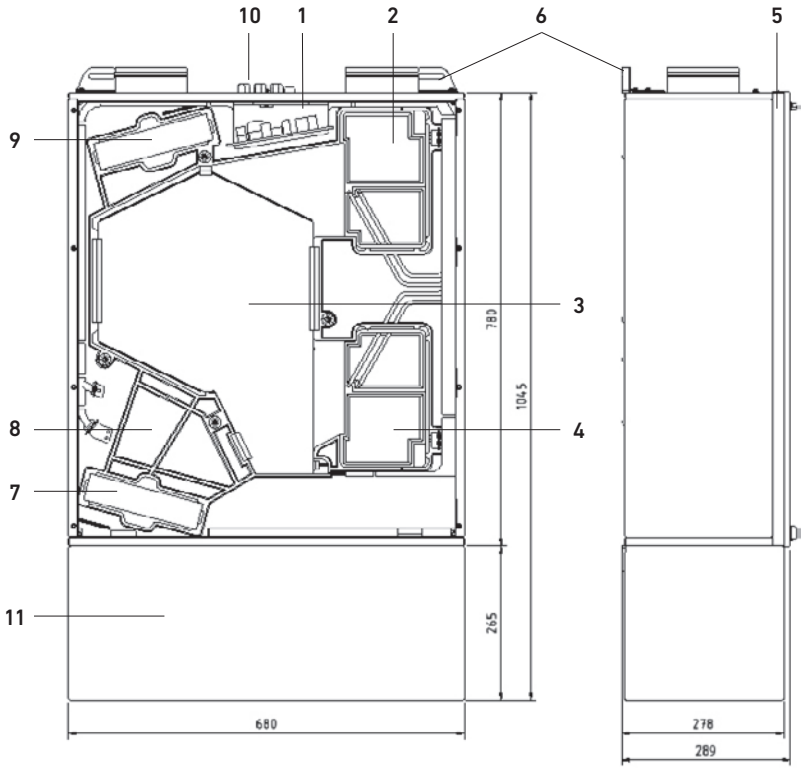
The compact ventilation unit LG 150 system VENTECH consists of a compact EPP-housing with equipment cladding that is free of thermal bridges and is thermally insulated, externally powder-coated in RAL 9010, a high efficiency heat recovery system with an air/air counterflow heat exchanger made of recyclable plastic with up to app. 95 % efficiency with an automatic 100 % bypass, with energy-saving radial fans with DC technology with constant volume flow control, air filters of quality class F7 in the supply air and G4 in the extract air line, integrated cabled control electronics, with an optional MINI or TOUCH (optional) remote control unit and an inspection door in RAL 9010 for filter servicing.

Area of application

The compact ventilation unit LG 150 system VENTECH is used for the controlled mechanical supply and exhaust air ventilation of residential houses, larger residential units, offices and similar applications. The range of use extends fundamentally to residential areas of 40 m^2 to approx. 120 m^2 that are designed as passive or low energy structures, with an adjustable air volume flow up to 150 m^3/h (LG 150 A) or up to 200 m^3/h for up to 160 m^2 (LG 150 B with high ventilation system performance).

Layout sketch (wall-mounted or ceiling-mounted installation)

Dimensions: (W x H x D) 680 x 780 x 289 mm
Air line connection: 4 x Ø 125 mm



1 Electronics
2 Supply air fan
3 Counterflow heat exchanger with Condensate drainage and filling level monitor (optionally with an enthalpy heat exchanger)
4 Exhaust air fan
5 Housing front cladding and inspection door with knurled screw closure
6 Mounting bracket with vibration damper
7 Outdoor air filter F7
8 Bypass flap-preheater battery
9 Extract air filter G4
10 Cable entry
11 Cover element (optional)

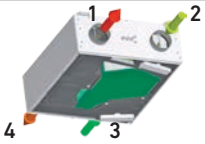
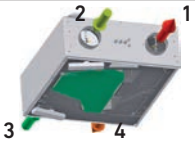
Illustration: **LG 150 AWR (right-hand version incl. covery element (also applicable to LG 150 B)**

Versions

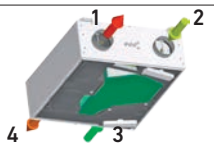
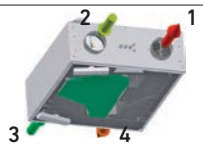
The compact ventilation unit LG 150 system VENTECH is available in several different versions:

- right-hand or left-hand, depending on the location of the supply air connecting piece
- LG 150 A without an integrated PTC heater battery
- LG 150 A with an integrated electrical PTC preheater battery
- LG 150 A optionally with an enthalpy heat exchanger for moisture recovery
- LG 150 B with high performance ventilation system, with or without an electrical PTC heater battery being integrated into the unit
- LG 150 B optionally with an enthalpy heat exchanger

LG 150 A

Wall-mounted version	**Left-hand version**	**Right-hand version**
Item no. without an integrated PTC heater battery	08LG150AWL	08LG150AWR
Item no. with an integrated PTC preheater battery	08LG150AWLV	08LG150AWRV
Item no. for cover element	08LG150ABDECK265 (AUL/FOL) 08LG150ABDECK80 (ZUL/ABL)	08LG150ABDECK265 (AUL/FOL) 08LG150ABDECK80 (ZUL/ABL)
Optionally with an enthalpy heat exchanger for moisture recovery	08LG150A + 08EWTLG150	08LG150A + 08EWTLG150
Wall mounted		
Ceiling-mounted version (in final assembly min. 2 % inclined assembled)	**Left-hand version**	**Right-hand version**
Item no. without an integrated PTC heater battery	08LG150ADL	08LG150ADR
Item no. with an integrated PTC preheater battery	08LG150ADLV	08LG150ADRV
Optionally with an enthalpy heat exchanger for moisture recovery	08LG150A + 08EWTLG150	08LG150A + 08EWTLG150
Ceiling mounted ***1 Supply air*** ***3 Outdoor air*** ***2 Extract air*** ***4 Exhaust air***		

LG 150 B

Wall-mounted version	**Left-hand version**	**Right-hand version**
Item no. without an integrated PTC heater battery	08LG150BWL	08LG150BWR
Item no. with an integrated PTC preheater battery	08LG150BWLV	08LG150BWRV
Item no. for cover element	08LG150ABDECK265 (AUL/FOL) 08LG150ABDECK80 (ZUL/ABL)	08LG150ABDECK265 (AUL/FOL) 08LG150ABDECK80 (ZUL/ABL)
Optionally with an enthalpy heat exchanger for moisture recovery	08LG150B + 08EWTLG150	08LG150B + 08EWTLG150
Wall mounted		
Ceiling-mounted version (in final installation min. 2 % inclined assembled)	**Left-hand version**	**Right-hand version**
Item no. without an integrated PTC heater battery	08LG150BDL	08LG150BDR
Item no. with an integrated PTC preheater battery	08LG150BDLV	08LG150BDRV
Optionally with an enthalpy heat exchanger for moisture recovery	08LG150B + 08EWTLG150	08LG150B + 08EWTLG150
Ceiling mounted ***1 Supply air*** ***3 Outdoor air*** ***2 Extract air*** ***4 Exhaust air***		

Technical specifications LG 150 A

VENTILATION UNIT

Dimensions:
(W x H x D) 680 x 780 x 289 mm
(310 mm with mounting bracket)
EPP-Housing with equipment cladding coated in RAL 9010, 22/18 mm of thermal insulation
Air line connection:
4 x Ø 125 mm
Condensate connection:
Ø 32 mm at the bottom
Electrical connection:
230 V/50 Hz/16 A
Protection class: IP 20
Permitted ambient temperature for the unit:
+5 °C to +40 °C
Weight without accessories: approx. 29 kg

FANS

(factory setting)

Air volume flow:
Speed I: 50 m^3/h
Speed II: 90 m^3/h
Speed III: 130 m^3/h
Air volume flow setting range:
30 to 150 m^3/h
Power consumption
Standby mode: < 1,0 W

The characteristic curves shown are valid for the version of the unit with an outdoor air filter of quality class F7, extract air filter of quality class G4 and the version without a PTC preheater battery.

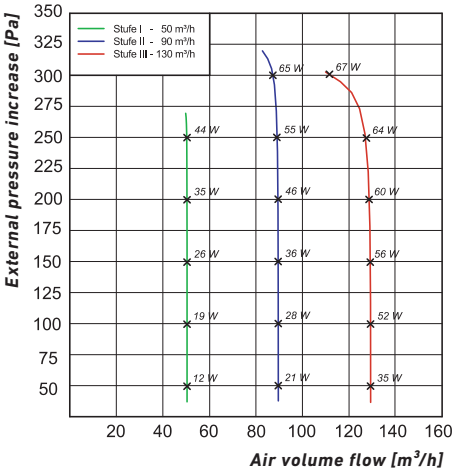
CHARACTERISTIC CURVE OF THE EXTERNAL PRESSURE INCREASE – AIR VOLUME FLOW

The characteristic curve specifies the external pressure ($p_{ext.}$) that is available for the ducting system.

TOTAL WATTAGE

The total electrical wattage specified takes into consideration the power consumption for both fans in the supply air and extract air lines and the power consumption of the control unit.

PRESSURE VOLUME FLOW CHARACTERISTIC CURVE FOR LG 150 A



SOUND DATA FOR LG 150 A

	Measuring point		Housing emission			Outdoor air connecting piece			Supply air connecting piece			Exhaust air connecting piece			Extract air connecting piece		
	Stufe		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
100 Pa	63 Hz	L_w in dB	51	48	47	62	64	66	64	66	68	62	64	66	63	65	67
	125 Hz		44	46	45	44	47	49	57	60	61	55	58	59	43	46	48
	250 Hz		41	42	43	43	46	48	57	60	61	58	61	62	48	51	52
	500 Hz		42	42	42	37	40	41	54	56	58	54	56	58	43	45	47
	1000 Hz		37	39	39	31	33	35	55	58	60	54	56	58	34	37	38
	2000 Hz		<20	22	37	23	26	28	47	50	52	45	48	49	25	28	29
	4000 Hz		<20	<20	21	15	17	19	39	42	43	36	39	41	16	18	20
	8000 Hz		<20	<20	<20	17	20	22	31	33	35	28	31	32	18	20	22
	Total L_{WA} in dB (A)		**42**	**43**	**44**	**41**	**43**	**45**	**58**	**61**	**62**	**57**	**60**	**61**	**44**	**47**	**48**
50 Pa	**Total L_{WA} in dB (A)**		**36**	**38**	**43**	**36**	**38**	**40**	**53**	**56**	**57**	**52**	**54**	**56**	**39**	**42**	**43**

(with an external pressure increase of 100 Pa and 50 Pa)

Remark: Tolerances ± 2 dB for acoustic data

Technical specifications LG 150 A

PASSIVE HOUSE CERTIFIED IN ACCORDANCE WITH PHI CRITERIA

Housing seal-tightness: External leakage 0.6 %, internal leakage 0.9 %
Degree of heat provision: $\eta_{eff,\,t,\,WRG}$ = 86 %
Comfort criterion: T_{SAir}= +17.2 °C where T_{FAir}= -10 °C
Flow efficiency: $\eta_{elec.}$ = 0.30 Wh/m³

INSPECTED ACCORDING TO DIN EN 13141-7:2011
APPROVED ACCORDING TO DIBT

Technical specifications LG 150 AF with moisture recovery

PASSIVE HOUSE CERTIFIED IN ACCORDANCE WITH PHI CRITERIA

Housing seal-tightness: External leakage 0.64 %, internal leakage 0.82 %
Degree of heat provision: $\eta_{eff,\,t,\,WRG}$ = 83 %
Average moisture ratio: η_x = 0.71
Comfort criterion: T_{SAir}= +17.2 °C where T_{FAir}= -10 °C
Flow efficiency: $\eta_{elec.}$ = 0.30 Wh/m³

INSPECTED ACCORDING TO DIN EN 13141-7:2011
APPROVED ACCORDING TO DIBT

Technical specifications LG 150 B for higher air capacities

VENTILATION UNIT

Dimensions:
(W x H x D) 680 x 780 x 289 mm
(310 mm with mounting bracket)
EPP-Housing with equipment cladding coated in RAL 9010, 22/18 mm of thermal insulation
Air line connection:
4 x Ø 125 mm
Condensate connection:
Ø 32 mm at the bottom
Electrical connection:
230 V/50 Hz/16 A
Protection class: IP 20
Permitted ambient temperature for the unit:
+5 °C to +40 °C
Weight without accessories: approx. 29 kg

FANS

(factory setting)

Air volume flow:
Speed I: 60 m^3/h
Speed II: 110 m^3/h
Speed III: 180 m^3/h
Air volume flow setting range:
30 to 200 m^3/h
Power consumption
Standby mode: < 1,0 W

The characteristic curves shown are valid for the version of the unit with an outdoor air filter of quality class F7, extract air filter of quality class G4 and the version without a PTC preheater battery.

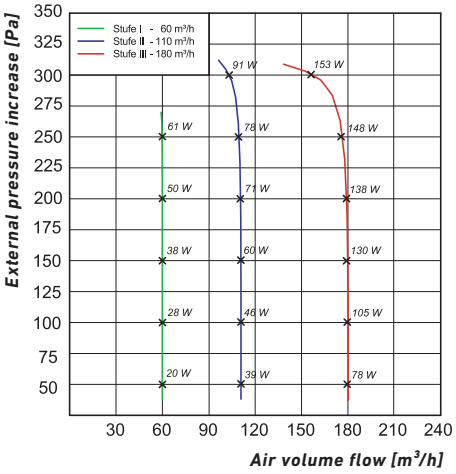
CHARACTERISTIC CURVE OF THE EXTERNAL PRESSURE INCREASE – AIR VOLUME FLOW

The characteristic curve specifies the external pressure ($p_{ext.}$) that is available for the ducting system.

TOTAL WATTAGE

The total electrical wattage specified takes into consideration the power consumption for both fans in the supply air and extract air lines and the power consumption of the control unit.

PRESSURE VOLUME FLOW CHARACTERISTIC CURVE FOR LG 150 B



Speed	Air volume flow [m^3/h]	Flow efficiency: η_{elek} [Wh/m^3] With an external pressure increase of 50 Pa	Flow efficiency: η_{elek} [Wh/m^3] With an external pressure increase of 100 Pa
I	60	0,33	0,47
II	110	0,35	0,42
III	180	0,43	0,58

(values from internal test measurements)

SOUND DATA FOR LG 150 B

	Measuring point		Housing emission			Outdoor air connecting piece			Supply air connecting piece			Exhaust air connecting piece			Extract air connecting piece		
	Stufe		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
100 Pa	63 Hz	L_W in dB	55	56	56	77	78	77	82	83	84	80	82	83	75	79	78
	125 Hz		50	54	57	55	58	62	71	79	79	72	75	76	55	59	63
	250 Hz		37	44	52	55	56	60	67	70	73	65	68	70	55	56	59
	500 Hz		40	46	50	47	44	48	59	64	66	60	63	64	41	43	47
	1000 Hz		33	37	44	37	38	41	59	61	63	56	61	62	36	38	41
	2000 Hz		27	33	41	25	27	32	49	55	59	47	55	58	20	26	31
	4000 Hz		<20	23	30	17	18	24	42	50	54	41	50	53	18	19	24
	8000 Hz		<20	<20	<20	20	19	19	38	45	49	34	45	48	20	17	19
	Total L_{WA} in dB (A)		**40**	**46**	**51**	**53**	**54**	**55**	**65**	**69**	**70**	**64**	**68**	**69**	**52**	**55**	**56**
50 Pa	Total L_{WA} in dB (A)		**34**	**40**	**51**	**47**	**48**	**49**	**59**	**63**	**64**	**58**	**61**	**63**	**46**	**49**	**50**

(with an external pressure increase of 100 Pa and 50 Pa)

Remark: Tolerances ± 2 dB for acoustic data

Operator control unit MINI

Operator control unit TOUCH

Operation

BYPASS FOR HEAT EXCHANGER

The 100% bypass is controlled as a function of the preset room temperature, the measured extract air temperature and the outdoor air temperature. As a result the heat exchanger can be circumvented in the summer and the cold outdoor air blown out either directly or via the earth collector into the living space.

CONTROL UNIT

The controller allows scalable configurations from low-cost to high-end. Further options comprise linking to an external building control system via MOD bus RTU and sensors to monitor room air quality.
The settings on the ventilation unit are made via an operator control unit, which is supplied complete with the ventilation unit. For the purpose of triggering an operating teh ventilation unit the operator control unit MINI or TOUCH (optional) can be selected.

MINI

The operator control unit MINI is for the purpose of activating the ventilation unit. It is easy to operate and allows setting of the fan speeds, switching between summer and winter modes and the setting of a basic volume flow, etc. Furthermore, operation, filter changes and any faults are displayed. The control unit USB interface is part of the standard configuration.

TOUCH

Operation is simple and intuitive via touch display. The most important settings and readings are very easy to make. The control unit has an integrated temperature sensor used as a room temperature sensor, if required.

Advantages of controlling:

- Simple depiction of the current operating parameters
- Individually adjustable air volumes
- Programs based on time of day and day of the week (only TOUCH)
- Room temperature control with integrated room sensor (only TOUCH)

CONTROL UNIT DIMENSIONS

Item	Dimensions	Item No.
STANDARD: operator control unit MINI LG 150/250 (included in the unit price)	w x h x d 80 x 80 x 19 mm	08LGMINI150200
OPTIONAL: operator control unit TOUCH for LG 150/250	w x h x d 110 x 84 x 25 mm	08LG150250T

CABLE

Item		Item No.
Cable control unit LG max. installation length 100 m	Telephone wiring J-Y(ST)Y 2x2x0,8	40LG040340

LBE 250 with warm water heater battery (for connection in the right)

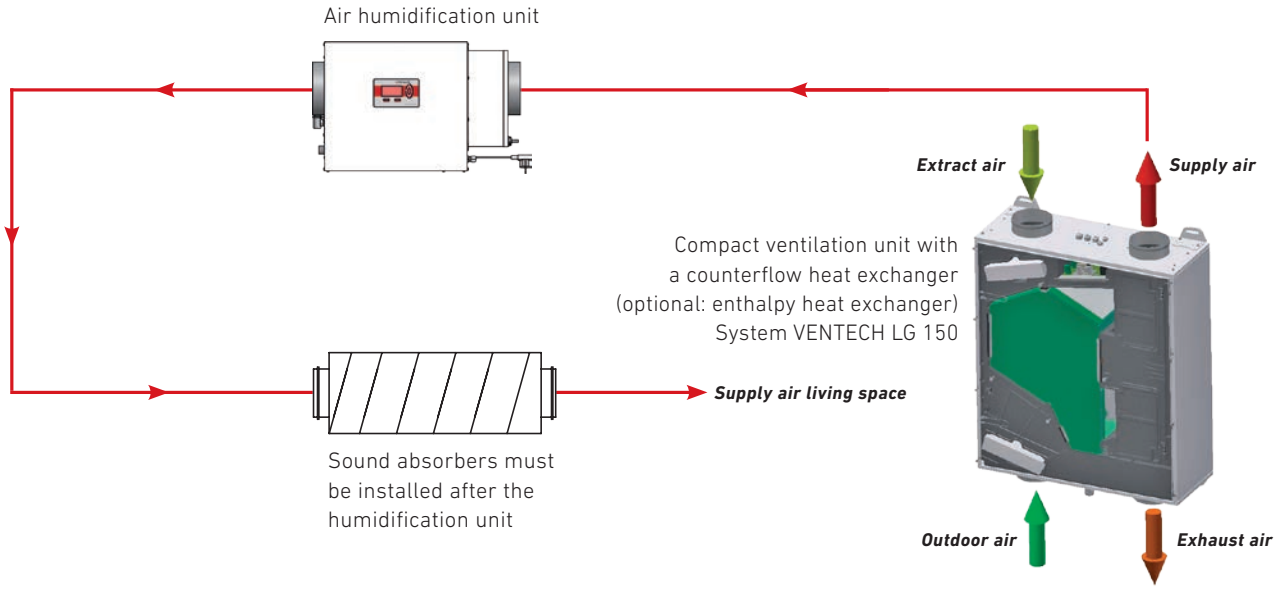
Optional accessories

- **PTC electrical preheater battery as freeze protection** for the counterflow heat exchanger. Optionally available as an internal version.
  Wattage: 750 W max. (LG 150 A) or 900 W (LG 150 B)
- **External optional PTC electrical reheater battery for supply air reheating**
- **Hot water reheater battery for supply air reheating for installation in a pipe** with a diameter of 125 mm
- **3-way motor control valve**
- **External supply air temperature sensor**
- **Fresh air filter F9**
- **Enthalpy heat exchanger** counter-current heat exchanger with humidity transmission with selective polymer membrane
- **Complete program for air distribution systems**
- **Ball siphon**
- **Adapter or screw-on fitting for condensate pipe connection**
- **Spare air filters**
  1 piece extract air cartridge filter G4:
  (W x H x D) 198 x 262 x 44 mm
  1 piece outdoor air cartridge filter F7:
  (W x H x D) 198 x 262 x 44 mm

Optional accessories air humidification unit LBE 250, System VENTECH

COMFORT THROUGH AIR HUMIDIFICATION WITH THE LBE 250 UNIT

- Constant, optimal indoor air humidity and room temperature for the entire living area
- Active humidification of the indoor air
- By means of natural evaporation no over-humidification is possible
- Compact automatic humidifier
- Easy to operate
- Hygienic and safe operation, evidenced by a hygiene expertise
- Installation in the central ventilation system, also suitable for retrofitting
- Low maintenance costs



Needs-based operation with air quality sensors

Optional accessories for needs-based operation

Intelligent air quality sensors with a surface-mounted housing are available as optional accessories. The sensors help to control a needs based ventilation in living and working spaces. CO_2- and humidity sensors on request.

THE AIR VOLUME FLOW CAN BE CONTROLLED VIA THE SENSORS (SEE TABLE)

Needs-based operation via the CO_2 and/or humidity control or the VOC sensor module only functions in automatic mode and must be activated via the PC software. A maximum of 2 sensors can be connected, with the highest value for each fan speed is used. The assignment of the fan speeds, the ppm and humidity values can be changed via the PC software.

Sensor modules (with a maximum of 2 sensors)	Measuring range	Measuring sensor
CO_2 sensor module (Item no. 07RCO248330)	0 to 2000 ppm	1
Humidity sensor module (Item no. 07RHF49360)	0 to 100 % relative humidity	1

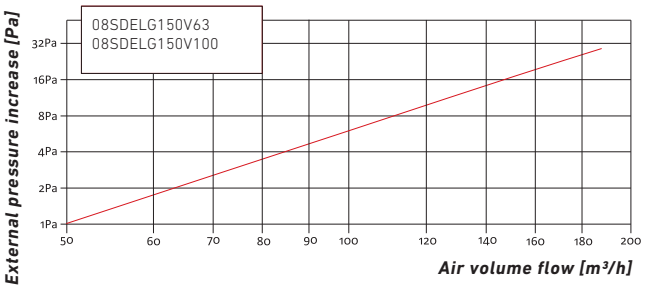
Electrical connection of the sensors: 24 VDC
Output signal of the sensor modules: 0-10 V (corresponds to 0 to 2000 ppm or 0 to 100% relative humidity)
Temperature range of the sensors: - 20 to + 60 °C
Humidity range of the sensors: 5 to 95 % relatvie humidity (not condensating)

Optional accessories sound reduction unit

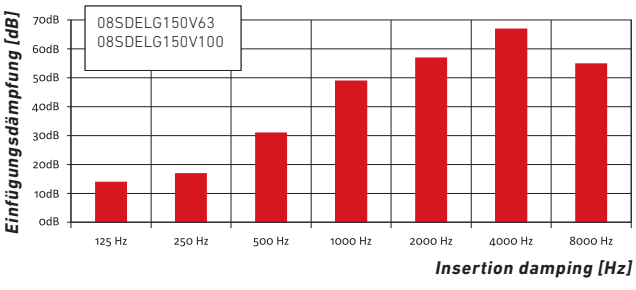
Compact ventilation appliance and telephony sound reduction unit for direct mounting to the comfort ventilation unit with efficient especially acoustically shaped diversion splitters installed, galvanised steel sheet outer housing, powder-coated in RAL 9010. The inner part is designed as diversion chamber with acoustically and flow optimized splitters. The (non combustible) splitters consist of high-strength, wearresistant and moisture repellent glass silk surface. With absorption elements and resonance elements for optimal sound reduction. Adapter with SYSTEM SAFE plug-in fitting. The connections are closed with dust protection caps. With fastening clips for simple wall-mounted or ceilingmounted installation.

Technical specifications

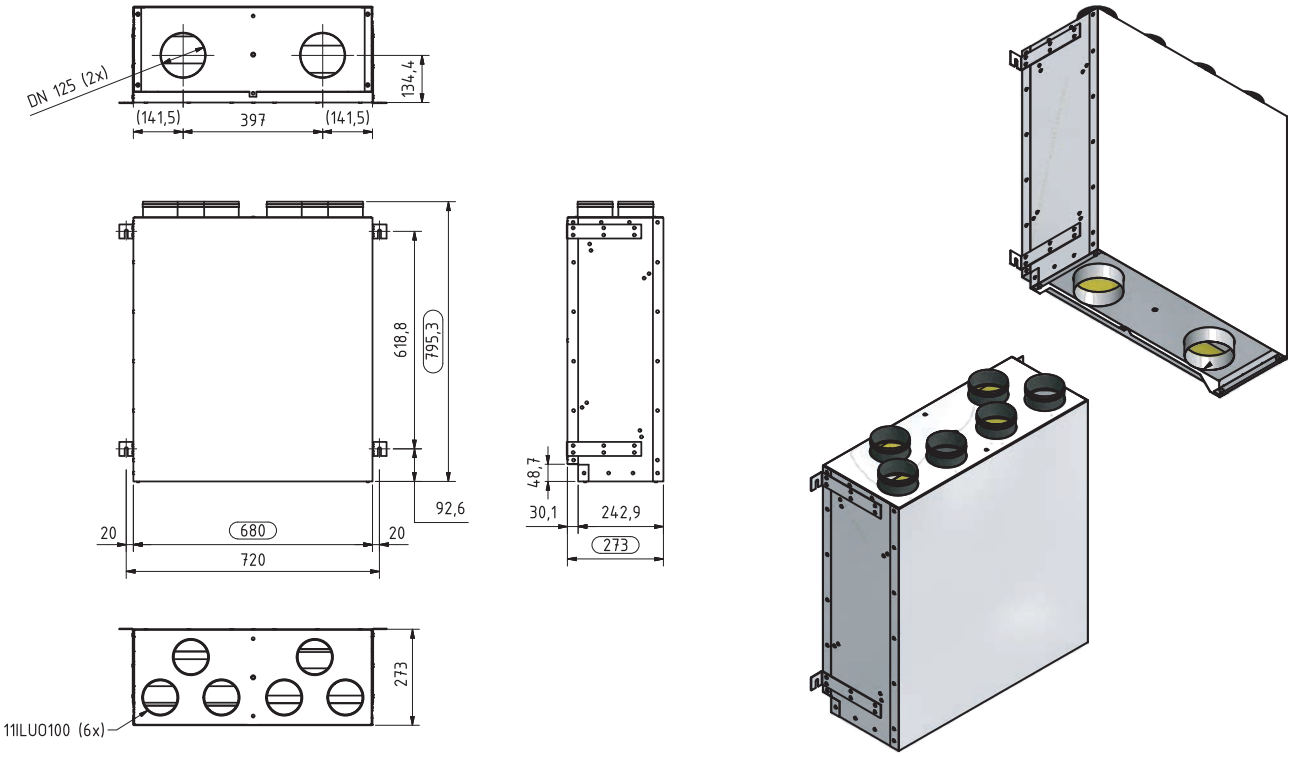
PRESSURE DROP OF THE SOUND REDUCTION UNIT DEPENDING ON THE VOLUME FLOW



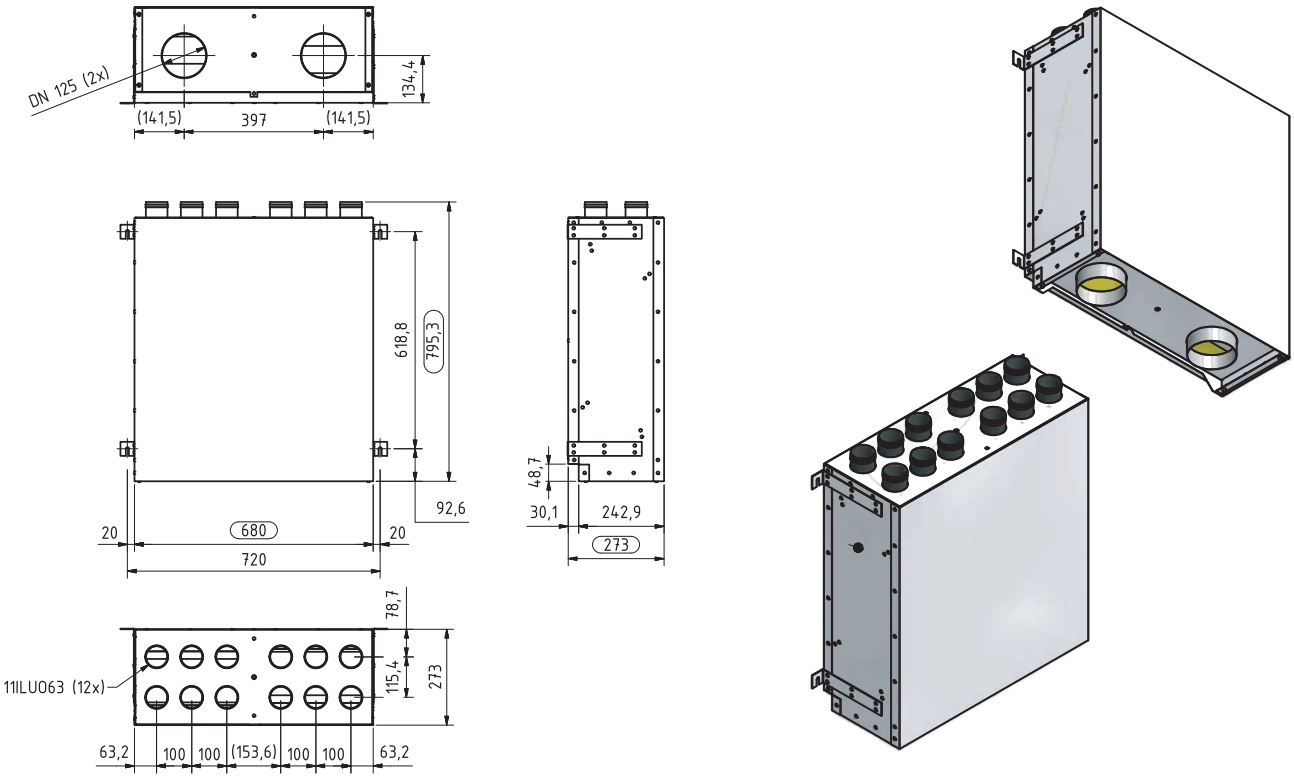
INSERTION DAMPING OF THE SOUND REDUCTION UNIT



Layout sketch sound reduction unit with 6 connections Ø 100, length 795 mm (wall-mounted or ceiling-mounted installation)



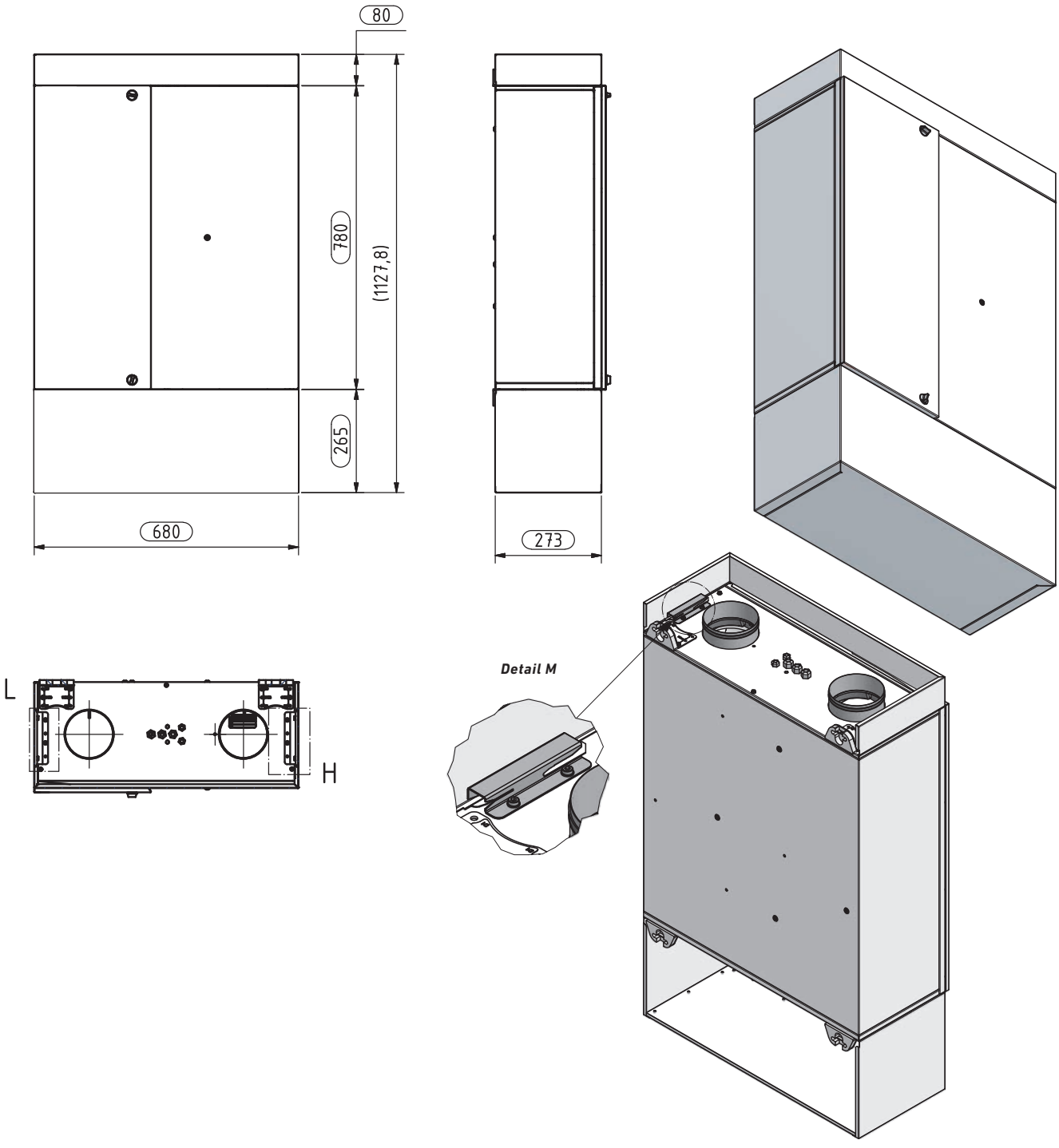
Layout sketch sound reduction unit with 12 connections Ø 63 for system Komflex 75 mm, length 795 mm (wall-mounted or ceiling-mounted installation)



Optional accessories cover element

For optical veneering in the region of the air line connectors of the comfort ventilation unit with outside air and exhaust air or extract air and supply air, towards the wall or the ceiling. Dimensionally stable construction of the cover made from galvanized steel, powder-coated in RAL 9010.

Layout sketch



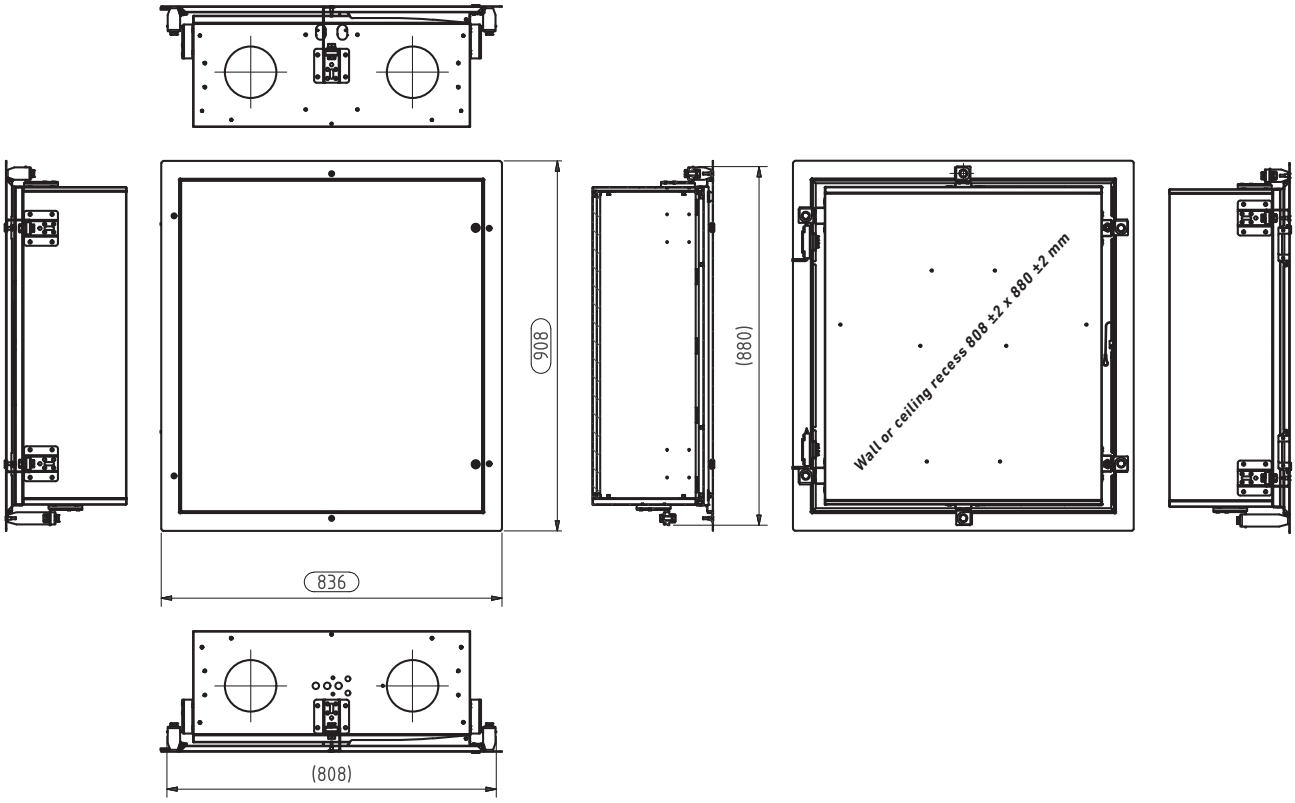
Optional flush-mounted accessory kit

For providing the whole comfort ventilation unit, including the air connection parts, with optical panelling behind a drywall. Manufactured of galvanised steel sheet, powder-coated in RAL 9010.

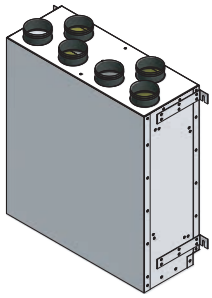
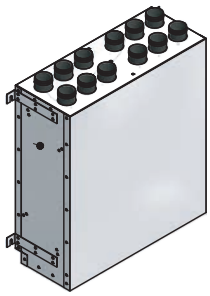
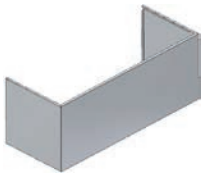
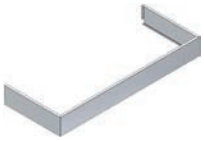
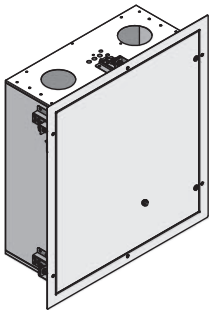
Heat exchanger:
If the flush-mounted kit is used, generally a device version with an enthalpy heat exchanger is to be preferred. If devices without enthalpy heat exchangers are used in combination with the flush-mounted kit, accessibility for potential maintenance purposes on the siphon must be provided for on site! For ceiling installation, we solely supply devices with enthalpy heat exchangers.

Note:
Since provisions for the installation are made on the device housing, the flush-mounted kit must be ordered together with the compact ventilation unit. The compact ventilation unit is then delivered with pre-drilled jacket sheets. The scope of supply of the flush-mounted kit furthermore includes pre-assembled mounting brackets, blind rivets, the pre-assembled inspection front incl. the frame as well as countersunk-head screws. Details with regard to the installation can be found in the mounting instructions supplied.

Assembly draft

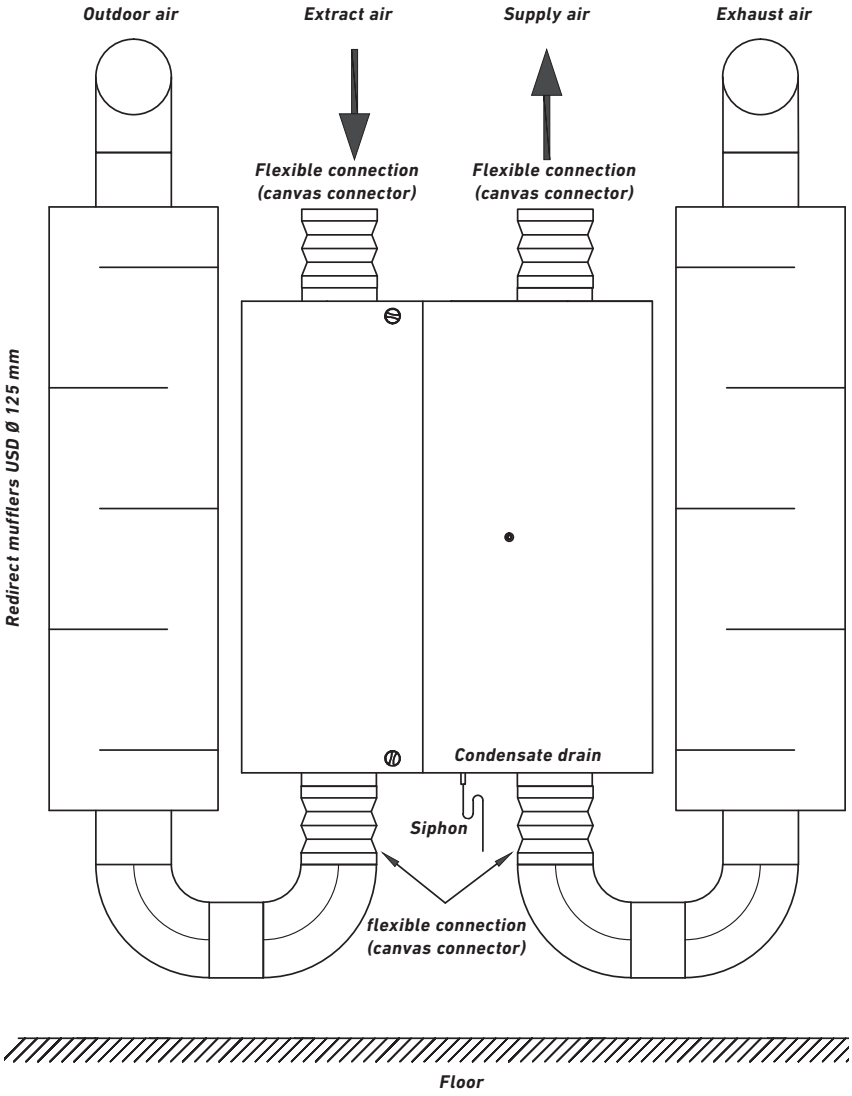


Versions

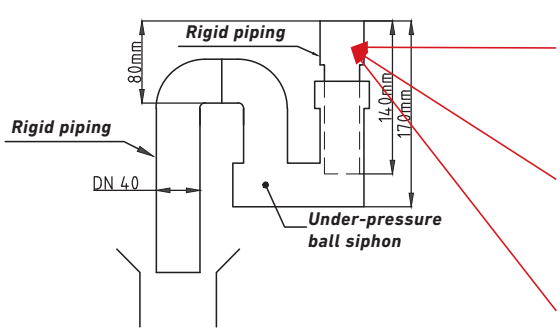
Wall-mounted or ceiling-mounted	Version
Item No. Sound reduction unit imensions (W x H x D) 680 x 795 x 273 mm with 6 connectors ø 100 mm	08SDELG150
	
Item No. Sound reduction unit Dimensions (W x H x D) 680 x 795 x 273 mm with 12 connectors ø 63 mm for system Komflex	08SDELG150V63
	
Cover element	
Item No. Cover element for LG 150 Dimensions (W x H x D) 680 x 265 x 273 mm	08LG150ABDECK265
As bezel around the external and exhaust air connection of the ventilation unit, facing the wall. Powder-coated in RAL 9010. Including 2 guide rails.	
Item No. Cover element for LG 150 Dimensions (W x H x D) 680 x 80 x 273 mm	08LG150ABDECK80
As bezel around the supply and exhaust air connection of the ventilation unit, facing the wall. Powder-coated in RAL 9010. Including 2 guide rails.	
Flush-mounted kit	
Article No. flush-mounted kit for LG 150 Dimensions: (W x H x D) 836 x 908 x 281-291 mm Wall or ceiling recess (W x H) 808 ±2 x 880 ±2 mm	08LG150UPKIT
In order to provide the whole comfort ventilation unit, including the air connection parts, with panelling behind the drywall. Powder-coated in RAL 9010.	

Mounting examples

WALL-MOUNTED INSTALLATION IN A TERRACED HOUSE – BASEMENT



DETAIL CONDENSATE CONNECTION WALL



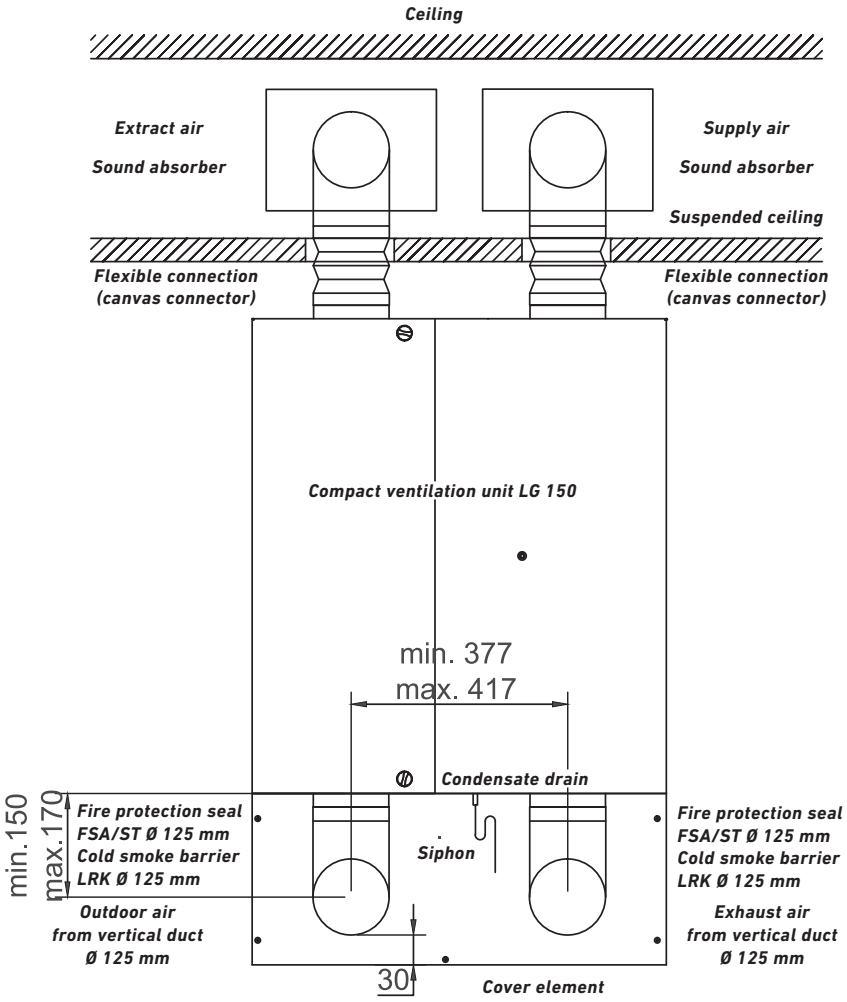
Example: Connector for condensate collection with screw-on connection and ball siphon

Adapter HL40.2 for HT pipe ø 40 mm

Adapter HL30.2 for HT pipe ø 32 mm

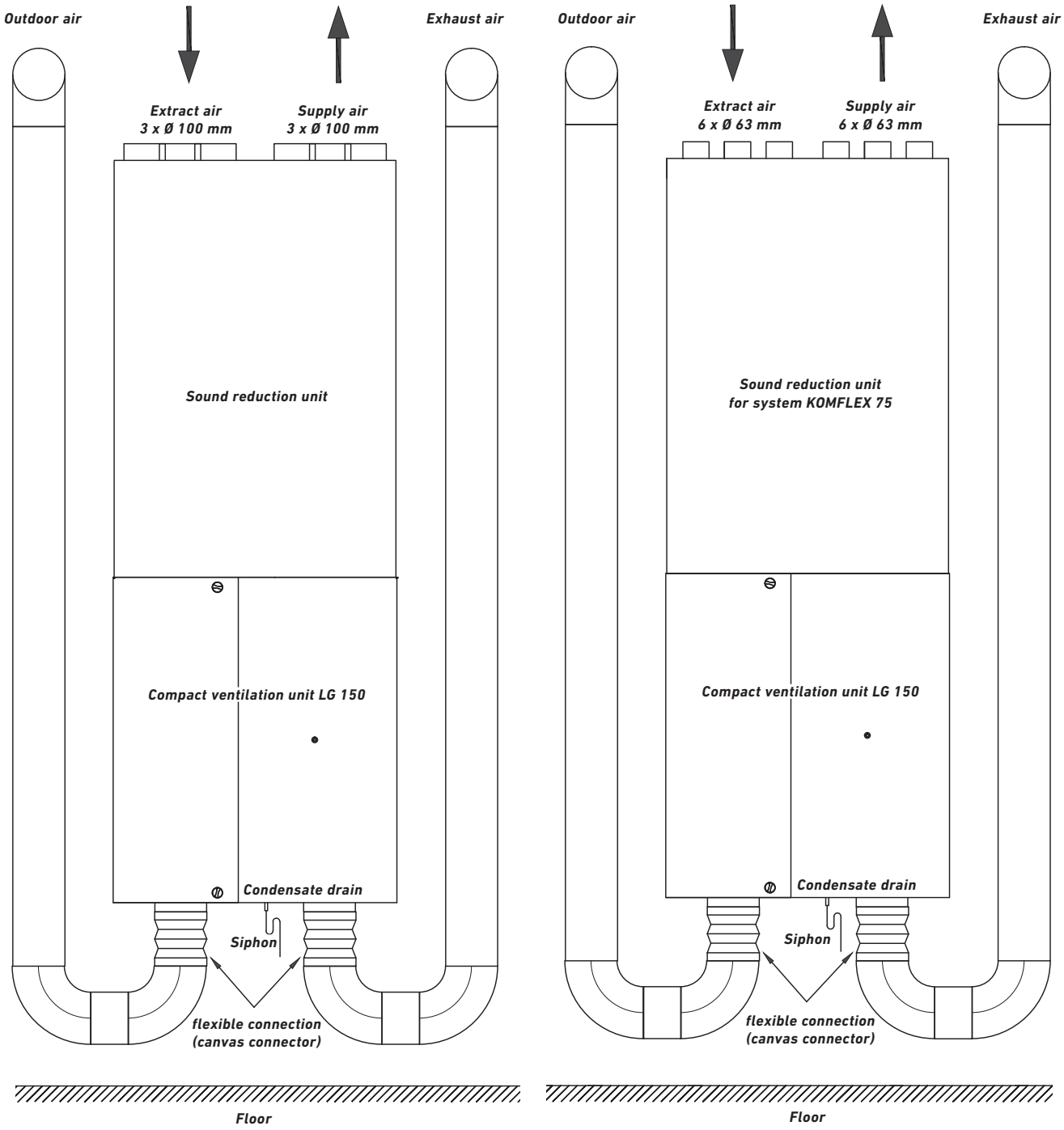
Screw-on connection for ball siphon HL 136.3

WALL-MOUNTED INSTALLATION ABOVE THE TOILET TANK IN MULTI-STORY BUILDINGS



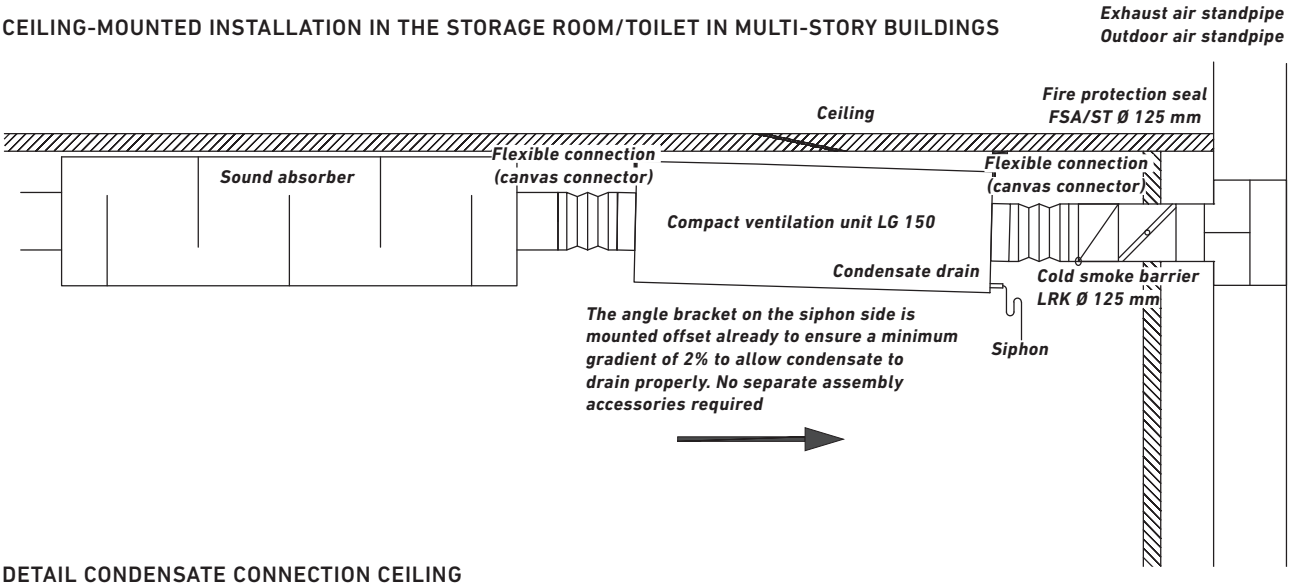
DETAIL CONDENSATE CONNECTION WALL SEE PAGE 15

WALL-MOUNTED INSTALLATION IN THE STORAGE ROOM IN MULTI-STORY BUILDINGS

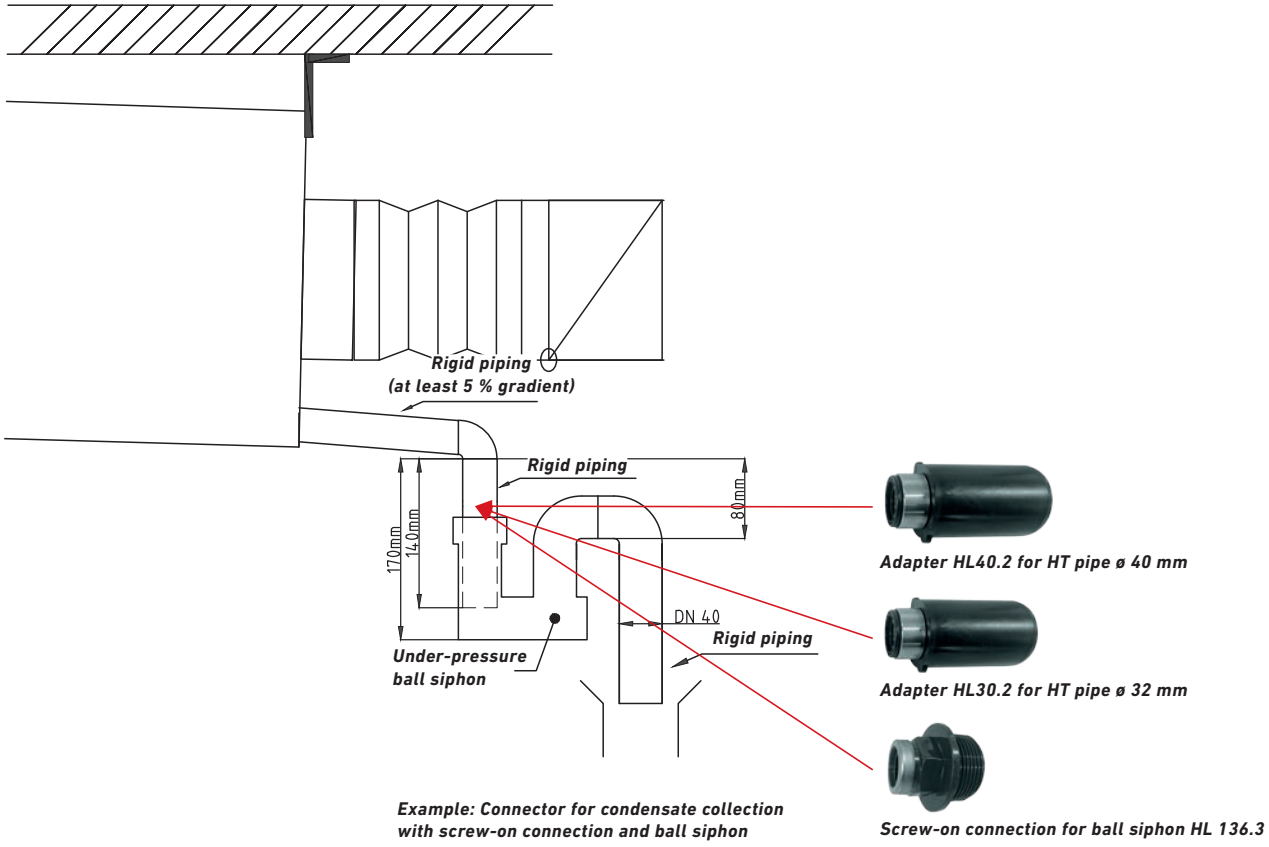


DETAIL CONDENSATE CONNECTION WALL SEE PAGE 15

CEILING-MOUNTED INSTALLATION IN THE STORAGE ROOM/TOILET IN MULTI-STORY BUILDINGS



DETAIL CONDENSATE CONNECTION CEILING



Example: Connector for condensate collection with screw-on connection and ball siphon

Data in accordance with EU Regulations 1253/1254-2014

The Pichler ventilation unit meets the requirements of the Eco-design Directive, in accordance with the EU Regulations 1253/1254-2014, and is based on the current state of knowledge (07/07/2014).

LG 150 A/AF

Specific energy consumption:
- A+ is applicable when controlled to local requirements.
- A is applicable when controlled with a manual control, a clock control or a central demand control.

Maximum air volume flow: 150 m^3/h
The specified energy efficiency is applicable when controlled to local requirements and is valid up to the specified maximum air volume flow.
Sound power level LWA indoors: 39 db(A)

LG 150 B

Specific energy consumption:
- A+ is applicable when controlled to local requirements.
- A is applicable when controlled with a manual control, clock control or a central demand control

Maximum air volume flow: 180 m^3/h
The specified energy efficiency is applicable when controlled to local requirements and is valid up to the specified maximum air volume flow.
Sound power level LWA indoors: 45 db(A)

LG 150 BF

Specific energy consumption:
- A is applicable when controlled with a central demand control or when controlled to local requirements.
- B is applicable when controlled with a manual control or a clock control.

Maximum air volume flow: 180 m^3/h
The specified energy efficiency is applicable when controlled to local requirements and is valid up to the specified maximum air volume flow.
Sound power level LWA indoors: 45 db(A)

Download the product fiches on www.pichlerluft.at

Overview energy efficiency classes

Air control options		manual control			clock control			central demand control			local demand control		
ventilation unit	LG 150	A/AF	B	BF	A/AF	B	BF	A/AF	B	BF	A/AF	B	BF
LG + operator control MINI		A	A	B	–	–	–	–	–	–	–	–	–
LG + operator control MINI + 1 x CO_2 sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operator control MINI + 1 x RH sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operator control MINI + 2 x CO_2 sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operator control MINI + 2 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operator control MINI + 1 x CO_2 + 1 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operator control TOUCH		–	–	–	A	A	B	–	–	–	–	–	–
LG + operator control TOUCH + 1 x CO_2 sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operator control TOUCH + 1 x RH sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operator control TOUCH + 2 x CO_2 sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operator control TOUCH + 2 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operator control TOUCH + 1 x CO_2 + 1 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A

see page 11, optional accessories for needs-based operation

The LG 150 system VENTECH at a glance!

Fans:
Energy-saving radial fans with DC technology (state-of-the-art EC motor technology) with automatic constant volume flow control

Counterflow heat exchanger:
Highly efficient heat recovery system with an air/air counterflow heat exchanger made of recyclable plastic with an automatic 100% bypass

Air volume flow:
LG 150 A: of 30 to 150 m^3/h
LG 150 B of 30 to 200 m^3/h
with an external pressure of 50 to 250 Pa

PTC electrical preheater battery:
Optionally available as an internal version

PTC electrical reheater battery:
Optionally available as an external version

Filter:
Outdoor air cartridge filter, quality class F7. Extract air cartridge filter, quality class G4.

Housing:
EPP-housing with equipment cladding, powdercoated in RAL 9010

Air connections:
Left and right-hand versions of the unit. ODA/EHA/SUP/ETA: each Ø 125 mm with a double lip seal

Installation position:
Wall-mounted installation (covering ODA/EHA). Ceiling-mounted installation (in final installation min. 2 % inclined assembled).

Summer changeover:
Integrated 100% bypass flap with seal

Service – maintenance – initial startup

Suitable in conjunction with the air humidifier LBE 250, System VENTECH

OUR COMPACT VENTILATION UNIT LG 150 A/AF SYSTEM VENTECH HAS BEEN CERTIFIED BY

- Passivhausinstitut (Passive House Institute) Darmstadt

OUR COMPACT VENTILATION UNIT LG 150 A/AF, SYSTEM VENTECH HAS BEEN APPROVED BY

- DIBt – Deutsches Institut für Bautechnik

OUR COMPACT VENTILATION UNIT LG 150 A/AF SYSTEM VENTECH HAS BEEN TYPE TESTED BY

- TÜV-AUSTRIA Services GmbH, Testing, Inspection and Certifiation Centre/Vienna

Notice:
Our product range includes units with a size up to 10,000 m^3/h as well as comprehensive accessories.

ErP 2018

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

Your partner/installer:

klimaaktiv Partner

PASSIVHAUS Austria

Mitglied NETZWERK PASSIVHAUS www.passivhaus.at

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