SYSTEM VENTECH
LG 150

LG 150 A,
LG 150 AF

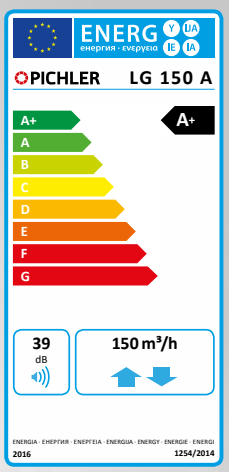
LG 150 A,
LG 150 AF

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

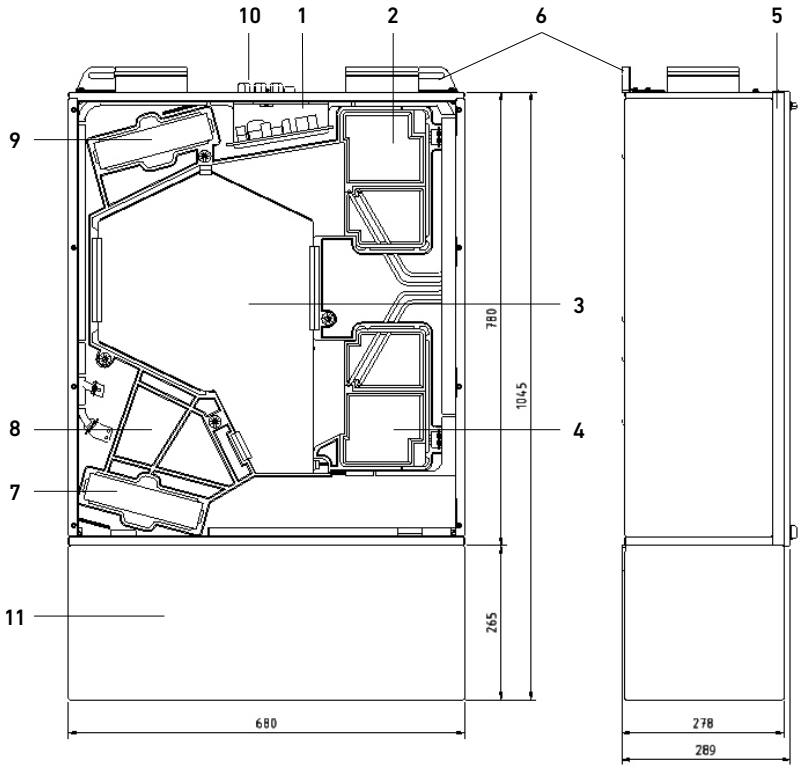
The compact ventilation unit LG 150 system VENTECH consists of a compact EPP-housing with equipment cladding that is free of thermal bridges and is thermally insulated, externally powder-coated in RAL 9010, a high efficiency heat recovery system with an air/air counterflow heat exchanger made of recyclable 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) operating 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 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 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 exchanger

LG 150 A AND LG 150 B

Wall-mounted version LG 150 A	**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 exchanger for moisture recovery	08LG150A + 08EWTLG150	08LG150A + 08EWTLG150

Wall-mounted version LG 150 B	**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 exchanger for moisture recovery	08LG150B + 08EWTLG150	08LG150B + 08EWTLG150
Wall mounted		

Ceiling-mounted version LG 150 A (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 exchanger for moisture recovery	08LG150A + 08EWTLG150	08LG150A + 08EWTLG150

Ceiling-mounted version LG 150 B (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 exchanger for moisture recovery	08LG150B + 08EWTLG150	08LG150B + 08EWTLG150
Ceiling mounted		

1 Supply air 2 Extract air 3 Outdoor 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:
R 1/2" AG at the bottom
Electrical connection: 230 V/50 Hz
Fuse: 16A
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.

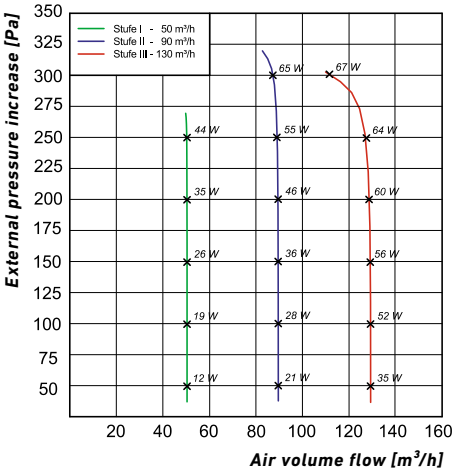
CHARACTERISTIC CURVE OF THE EXTERNAL PRESSURE INCREASE – AIR VOLUME FLOW

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:
R 1/2" AG at the bottom
Electrical connection: 230 V/50 Hz
Fuse: 16A
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.

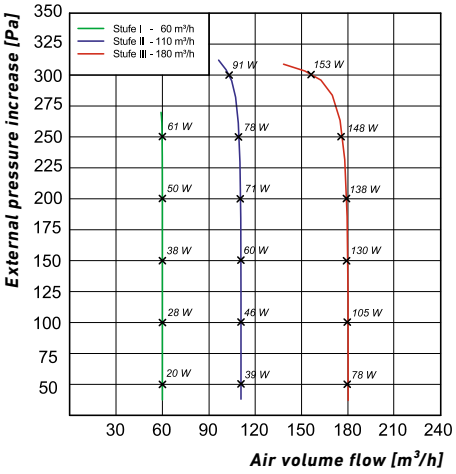
CHARACTERISTIC CURVE OF THE EXTERNAL PRESSURE INCREASE – AIR VOLUME FLOW

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

MINI control unit

Pichler-App

TOUCH control unit

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 operating control unit, which is supplied complete with the ventilation unit. For the purpose of triggering an operating the ventilation unit the operating control unit MINI or TOUCH (optional) can be selected.

MINI

The operating 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 operating control unit USB interface is part of the standard configuration. Installation is in a flush-mounted box (not included in delivery).

TOUCH OPERATING CONTROL UNIT

The operating control unit with a 4.3'' colour-touch-display is used to control the ventilation unit. Operation is simple and intuitive via touch display. The most important settings and readings are very easy to make. The user-friendly handling provides for automatic or manual setting of the ventilation levels. In Automatic mode, the system is controlled by programmable time programmes, closed-loop humidity or CO_2 controls and works in a fully automated fashion, whereas in manual mode ventilation levels may, for instance, be individually increased (boost ventilation). Further functions are the changeover function between summer and winter operation, the setting for the volume flows. The operating mode, temperatures, a required filter change and possible faults are displayed in plain text. The operating control unit also has an integrated temperature sensor, which can be used as a room temperature sensor when needed. Installation is in a flush-mounted box (not included in delivery).

Advantages of controlling:
- Easy display of current operating settings
- Individually adjustable air volumes
- Time and weekly programs (TOUCH only)

CONTROL UNIT DIMENSIONS

Item	Dimensions	Item No.
STANDARD: operating control unit MINI LG 150/250	w x h x d 80 x 80 x 19 mm	08LGMINI150200
OPTIONAL: operating control unit TOUCH for LG 150/250	w x h x d 110 x 84 x 25 mm	08LG150250TC

CABLE

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

EASY OPERATION WITH THE PICHLER APP

User-friendly: the compact ventilation unit can be operated easily with our free smartphone app for Android, whether you are at home or out and about.

REMOTE ACCESS

Operational safety: Remote access faciliates a prompt response with minimal effort for the Pichler customer service in the event of a malfunction.

CO_2 sensor

Humidity sensor

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
Extract air filter G4	40LG050240
Outdoor air filter F7	40LG050230
Outdoor air filter F9 (pollen filter)	40LG050250

DEMAND-ORIENTED VENTILATION CONTROL

CO_2 and humidity sensors for demand-oriented ventilation control. The ventilation unit will automatically increase or reduce the air volumes depending on the quality of the air in the room. The sensors are designed for flush and surface mounting.

Item	Item number
CO_2 sensor	07RCO248330

Colour	white
Dimensions W x H x D	85 x 85 x 35 mm
Ambient temperature	10-50°C
Measuring range	0-2000 ppm
Sensor supply voltage	24V AC/DC
Control signal	0-10 V

Item	Item number
Humidity sensor	07RHF49360

Colour	white
Dimensions W x H x D	85 x 85 x 35 mm
Ambient temperature	0-60° C (no condensation)
Measuring range	0-100% RH
Sensor supply voltage	24V AC/DC
Control signal	0-10 V

Demand-oriented plant operation via CO_2 and/or humidity control is only possible in Automatic mode and must be activated via the PC software.
Assignment of the ventilation levels, the ppm and humidity values can be changed using the PC software.

The following combinations of sensors can be used:
- Max 2 x CO_2 sensors
- Max 2 x RH% sensors
- 1 x CO_2 sensor & 1 x RH% sensor

FLEXIBLE CONNECTION

Made of laminated and highly tear-resistant fabric and with double-sided sleeves made of galvanized sheet steel. With diameter: 125 mm, socket size, elongated length 150 mm.

Item	Item number
flexible connection	01STR125

WALL ENDING

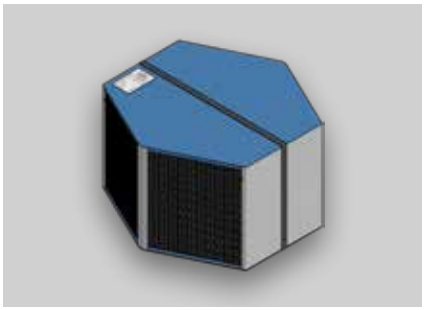
Serves to provide for the thermal bridge-free insulation of outdoor air and exhaust air ducts towards the wall. Self-adhesive.

Item	Dimensions W x H x D	Item number
Wall ending	675 x 260 x 15 mm	08LG150WA15

DEVICE SIPHON

Serves to provide for the hygienic, proper and spatial separation of the condensate inlet in the on-site siphon.

Item	Item number
Device siphon	40LG030620



Enthalpy exchanger

ENTHALPY EXCHANGER

Humidity-transferring counterflow heat exchanger with selective polymer membrane for heat and moisture recovery.

Advantages of the enthalpy exchanger:

- Enthalpy exchangers ensure optimal comfort within your own four walls.
- During normal operation, the generation of condensate is prevented as far as possible. In contrast to a standard heat exchanger, the enthalpy exchanger only stops at low temperatures.
- The enthalpy exchanger prevents your walls from drying out in winter.
- No moving parts/fastenings. This means:
  - Costs can be kept low
  - Simple unit installation and maintenance

Item	Item number
Additional-cost enthalpy exchanger fitted to LG 150	08EWTLG150

HOT WATER RE-HEATER BATTERY

Hot water reheater battery for supply air reheating, for pipe installation, ø 125 mm, with accessories.
Only in connection with the external supply air temperature sensor (item number: 40LG041081)

Air volume: 180 m^3/h
Medium: 60/40 °C
Output: ca. 700 W
Pipe diameter: Ø 125 mm
Dimensions: W x H x D = 238 x 180 x 276

Item	Item number
Hot water re-heater battery	01VBC125

3-WAY MOTOR CONTROL VALVE

Three-way control ball valve for the continuous closed-loop control of cold and warm water with a mounted closed-loop control actuator.

Belimo drive: TR 230-3
Drive voltage: 230 V AC
Control signal: 3-point
Control ball valve: R3015
Mounting position: optional

KVS value	Item number
0,63 m^3/h	08MISCHER

INTERNAL PTC ELECTRIC PRE-HEATER BATTERY

Frost protection for the counterflow heat exchanger.
Output: 750 W (LG 150 A) / 900 W (LG 150 B)

Item	Item number
Electric preheater battery for right-hand version, wall-mounted or ceiling-mounted installation	08LG150A-W-RV, 08LG150A-D-RV, 08LG150B-W-RV, 08LG150B-D-RV
Electric preheater battery for left-hand version, wall-mounted or ceiling-mounted installation	08LG150A-W-LV, 08LG150A-D-LV, 08LG150B-W-LV, 08LG150B-D-LV

EXTERNAL SUPPLY AIR TEMPERATURE SENSOR

NTC sensor with metal sleeve.

Item	Item number
NTC sensor, length 2 m	40LG041081

COMPLETE PROGRAM FOR AIR DISTRIBUTION SYSTEMS

We offer a complete program of air distribution systems, such as Komflex (round or oval). Details of our air distribution program can be found in the technical documentation.

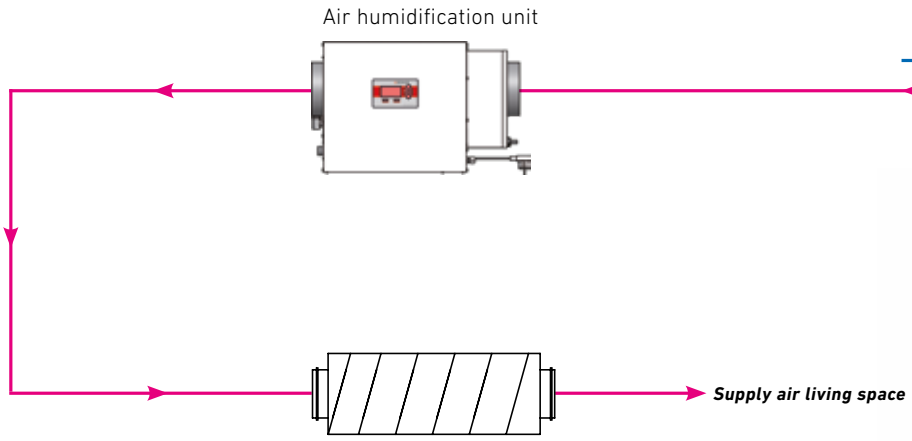
LBE 250 with hot water heater battery (right-hand version)

Accessories

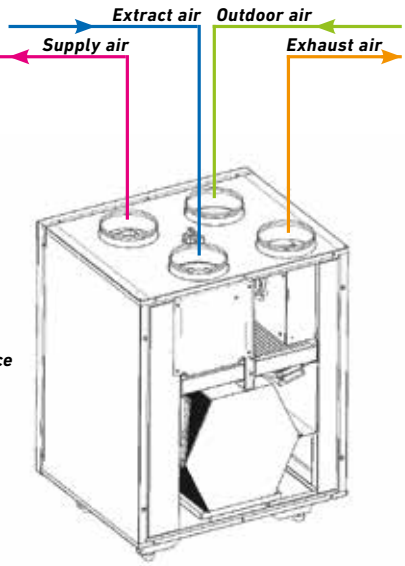
COSINESS BY AIR HUMIDIFICATION WITH LBE 250

- Constant, optimal room air humidity and temperature, wherever you are
- Active humidification of indoor air
- No over-humidification thanks to natural evaporation
- Compact, automatic humidification unit
- Easy to use
- Hygienically harmless operation, proven through health reports
- Installed in the central ventilation system, also suitable for retrofits
- Low maintenance cost

Standing or wall-mounted installation		**Air connection** [mm]	**Water connection** [inches]	**Flow** [m^3/h]	**Weight** [kg]	**W x H x D**
08 LBE250 LW	Left-hand version incl. PWW Hot water preheater battery	160	3/4	250	25.0	550 x 385 x 360
08 LBE250 RW	Right-hand version incl. PWW Hot water preheater battery	160	3/4	250	25.0	550 x 385 x 360
08 LBE250 LE	Left-hand version incl. PTC electric pre-heater battery (1300 Watt)	160	3/4	250	25.0	510 x 385 x 360
08 LBE250 RE	Right-hand version incl. PTC electric pre-heater battery (1300 Watt)	160	3/4	250	25.0	510x385x360



Schematic representation of the ventilation unit LG 250 A with LBE 250 air humidification unit and a silencer unit.



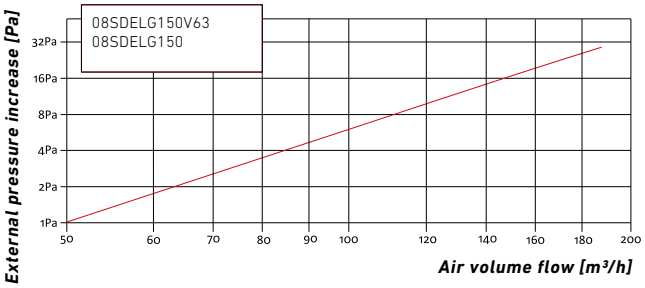
Compact ventilation unit with a counterflow heat exchanger System VENTECH LG

Optional accessories sound reduction unit

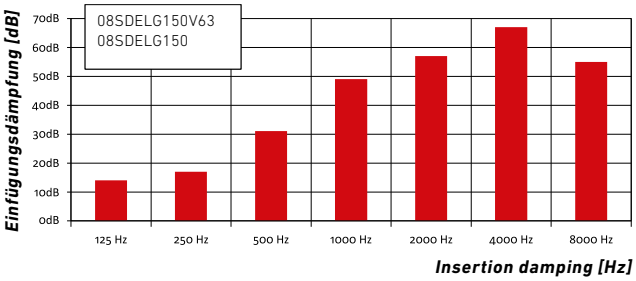
Compact ventilation appliance sound reduction unit for direct mounting to the comfort ventilation unit with efficient especially acoustically shaped diversion splitters installed, galvanised steel sheet outer housing, powder-coated in RAL 9010. The inner part is designed as diversion chamber with acoustically 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

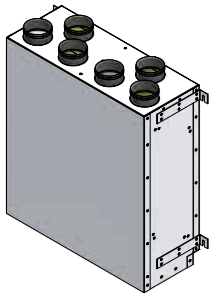
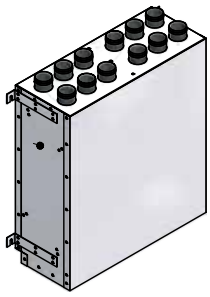
PRESSURE DROP OF THE SOUND REDUCTION UNIT DEPENDING ON THE VOLUME FLOW



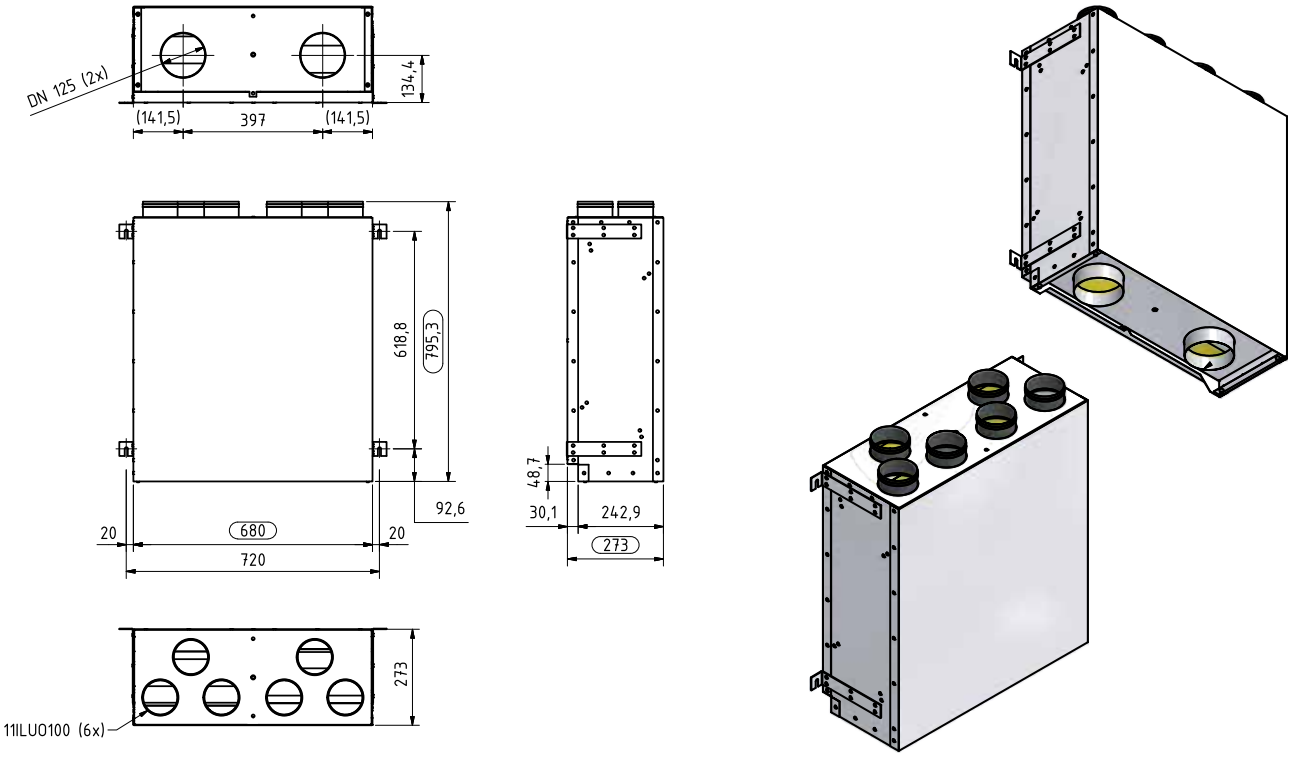
INSERTION DAMPING OF THE SOUND REDUCTION UNIT



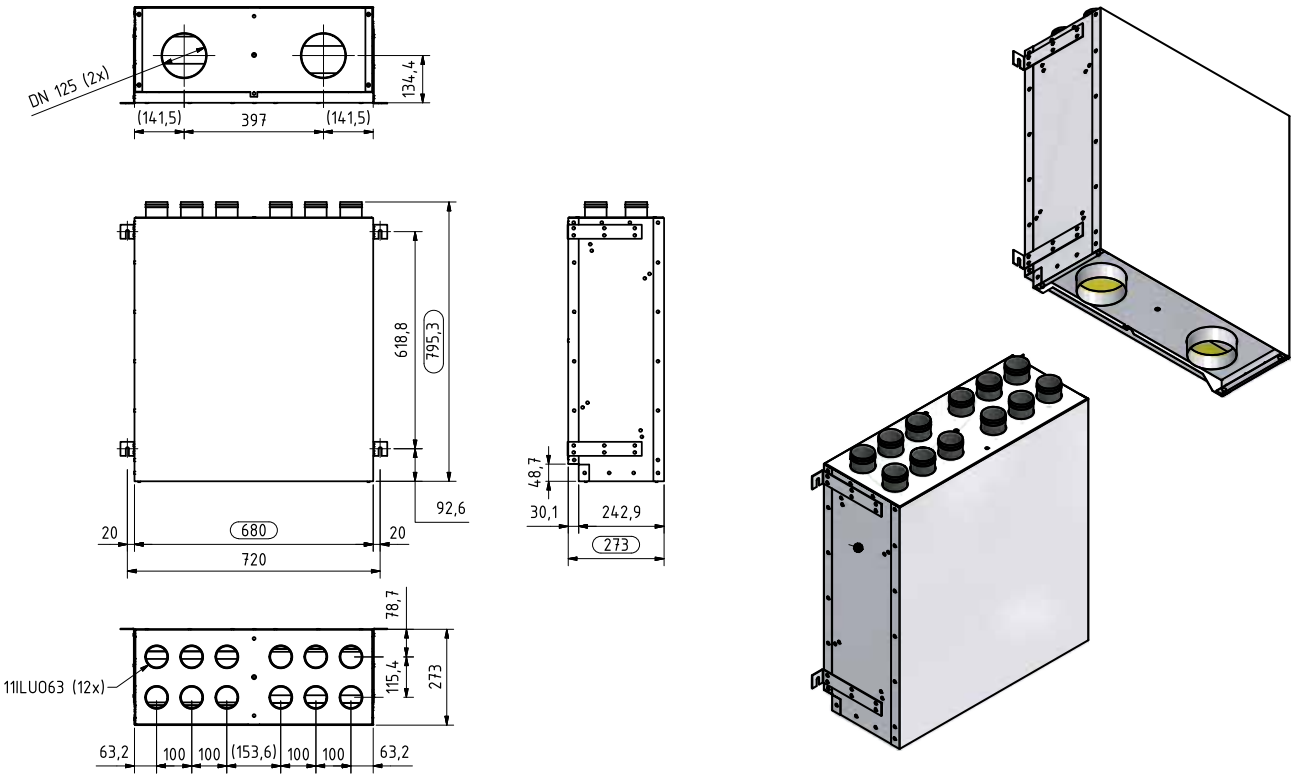
Versions

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
	

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



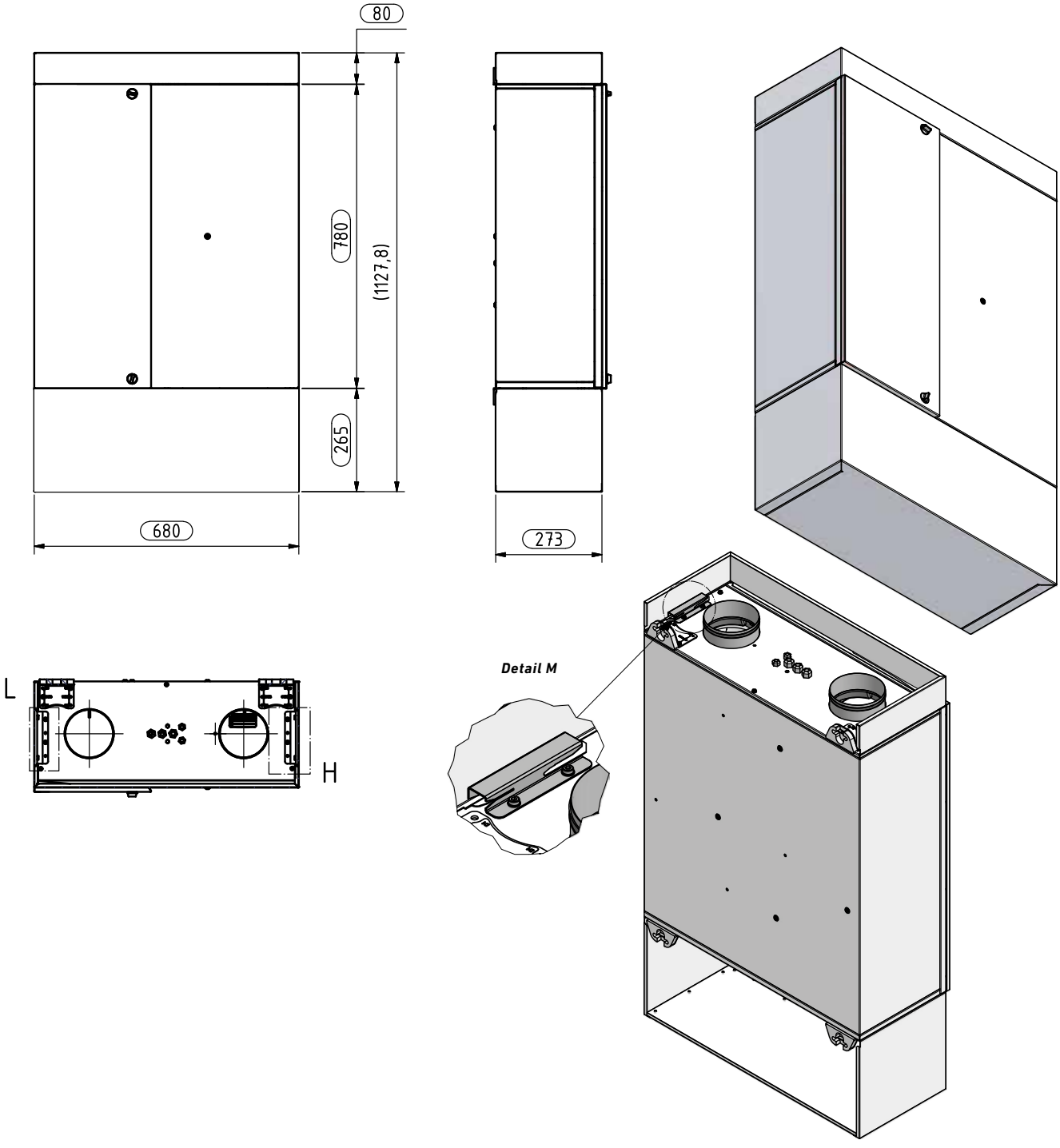
Layout sketch sound reduction unit with 12 connections Ø 63 for system Komflex 75 mm, length 795 mm (wall-mounted or ceiling-mounted installation)



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



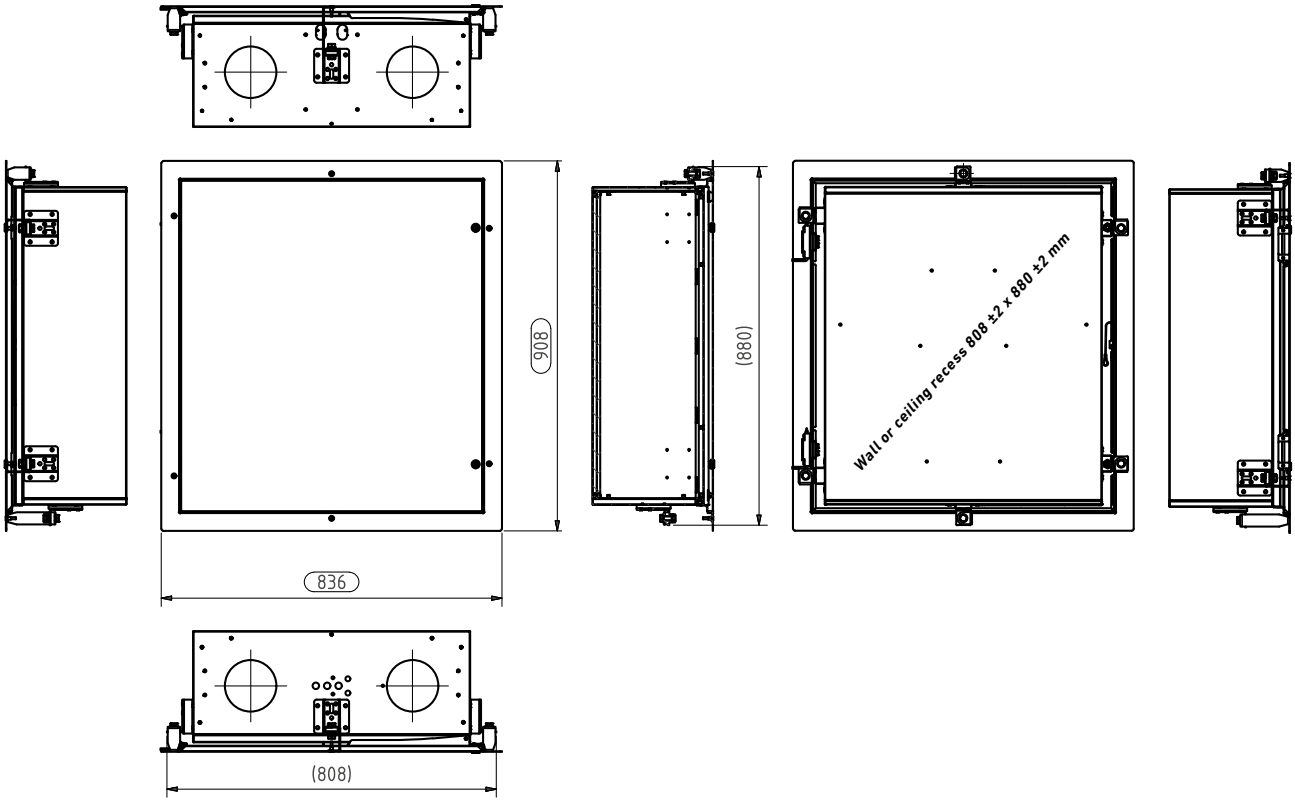
Optional flush-mounted accessory kit

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.

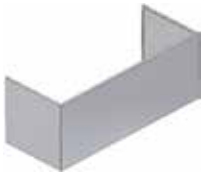
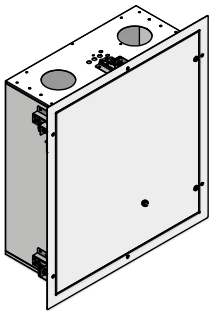
Heat exchanger:
If the flush-mounted kit is used, generally a device version with an enthalpy exchanger is to be preferred. If devices without enthalpy exchangers are used in combination with the flush-mounted kit, accessibility for potential maintenance purposes on the siphon must be provided for on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

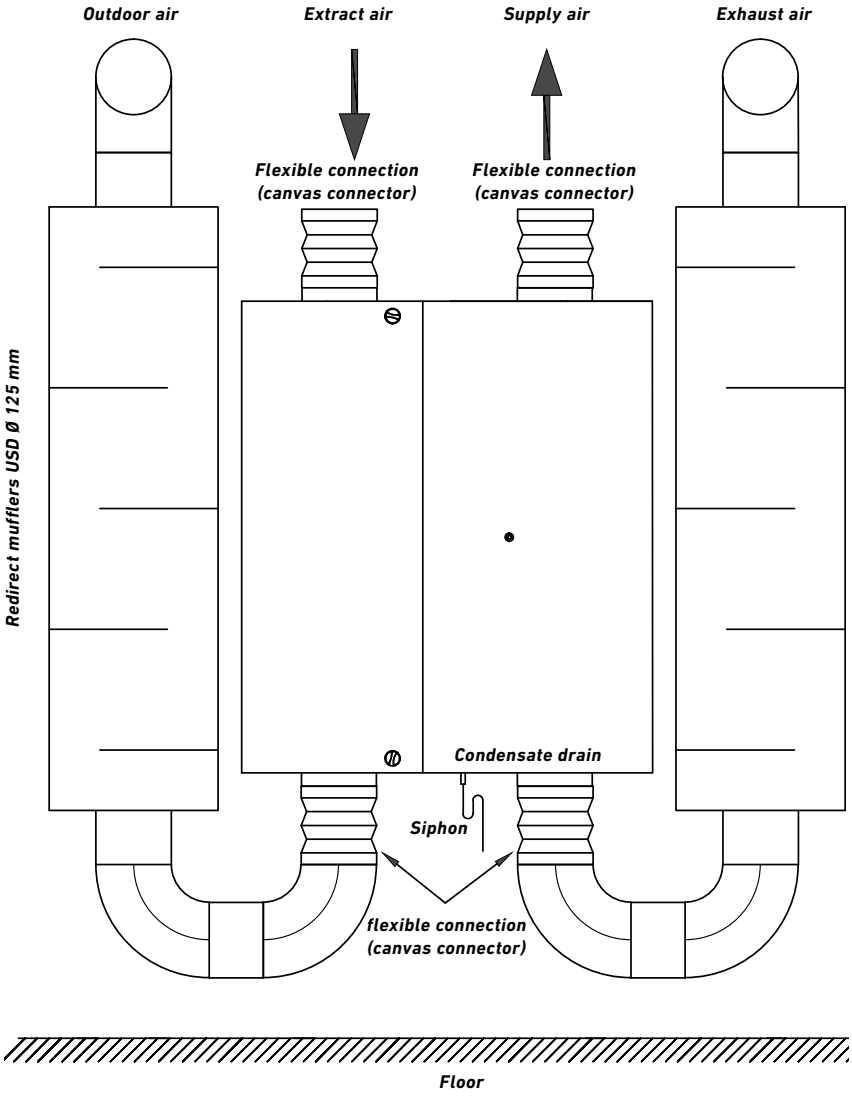


Versions

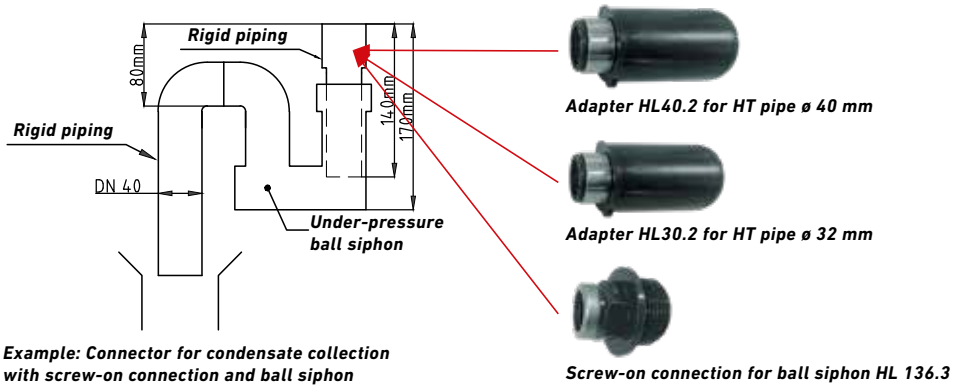
Cover element	
Item No. Cover element for LG 150 Dimensions (W x H x D) 680 x 265 x 273 mm	08LG150ABDECK265
As bezel around the external and exhaust air connection of the ventilation unit, facing the wall. Powder-coated in RAL 9010. Including 2 guide rails.	
Item No. Cover element for LG 150 Dimensions (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



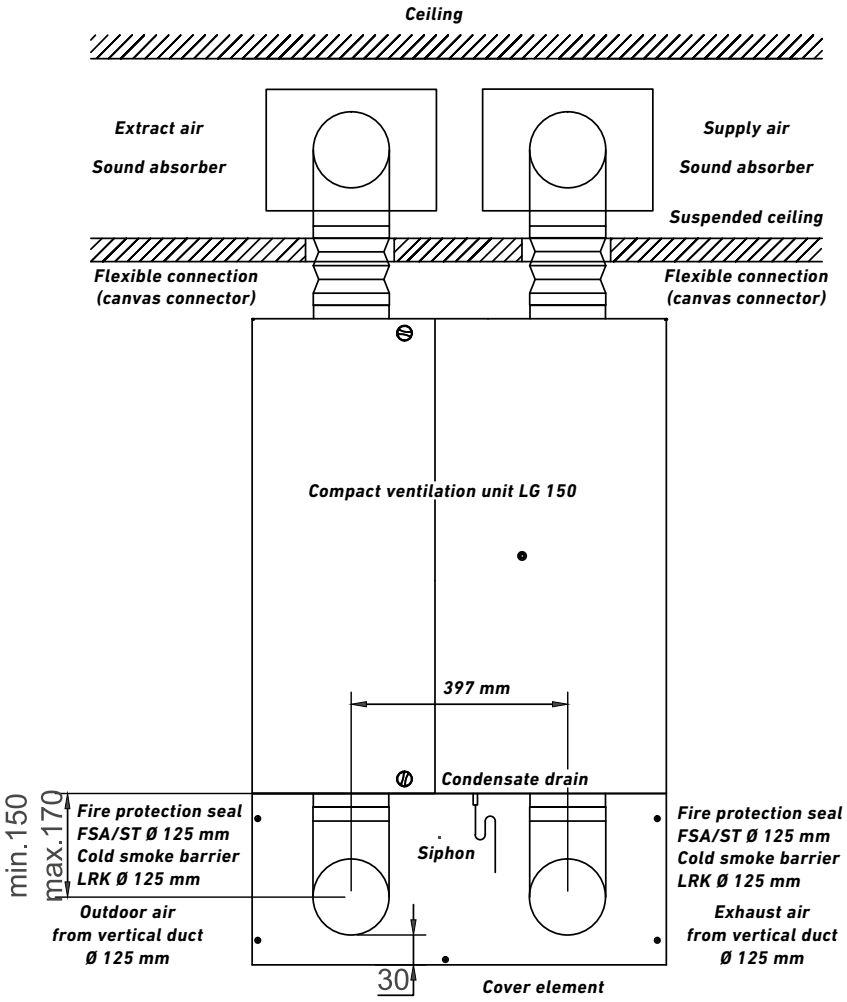
Example: Connector for condensate collection with screw-on connection and ball siphon

Adapter HL40.2 for HT pipe ø 40 mm

Adapter HL30.2 for HT pipe ø 32 mm

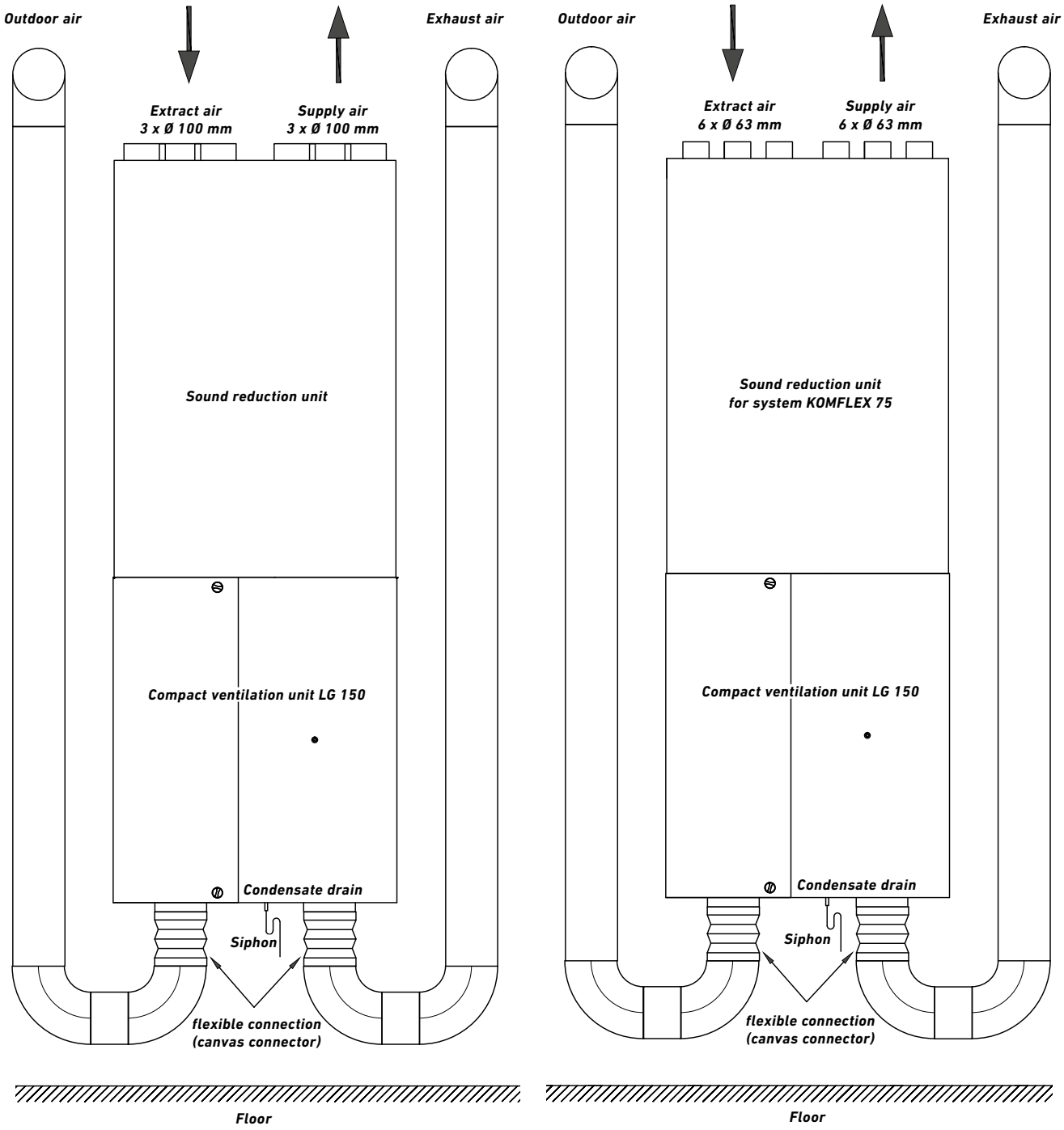
Screw-on connection for ball siphon HL 136.3

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



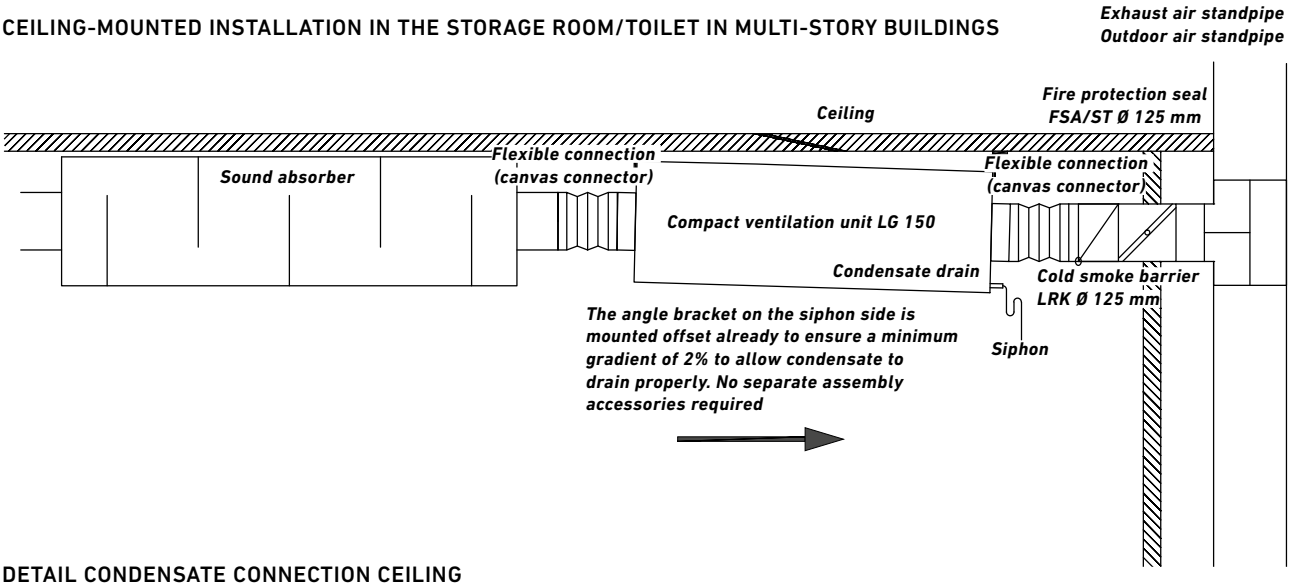
DETAIL CONDENSATE CONNECTION WALL SEE PAGE 17

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

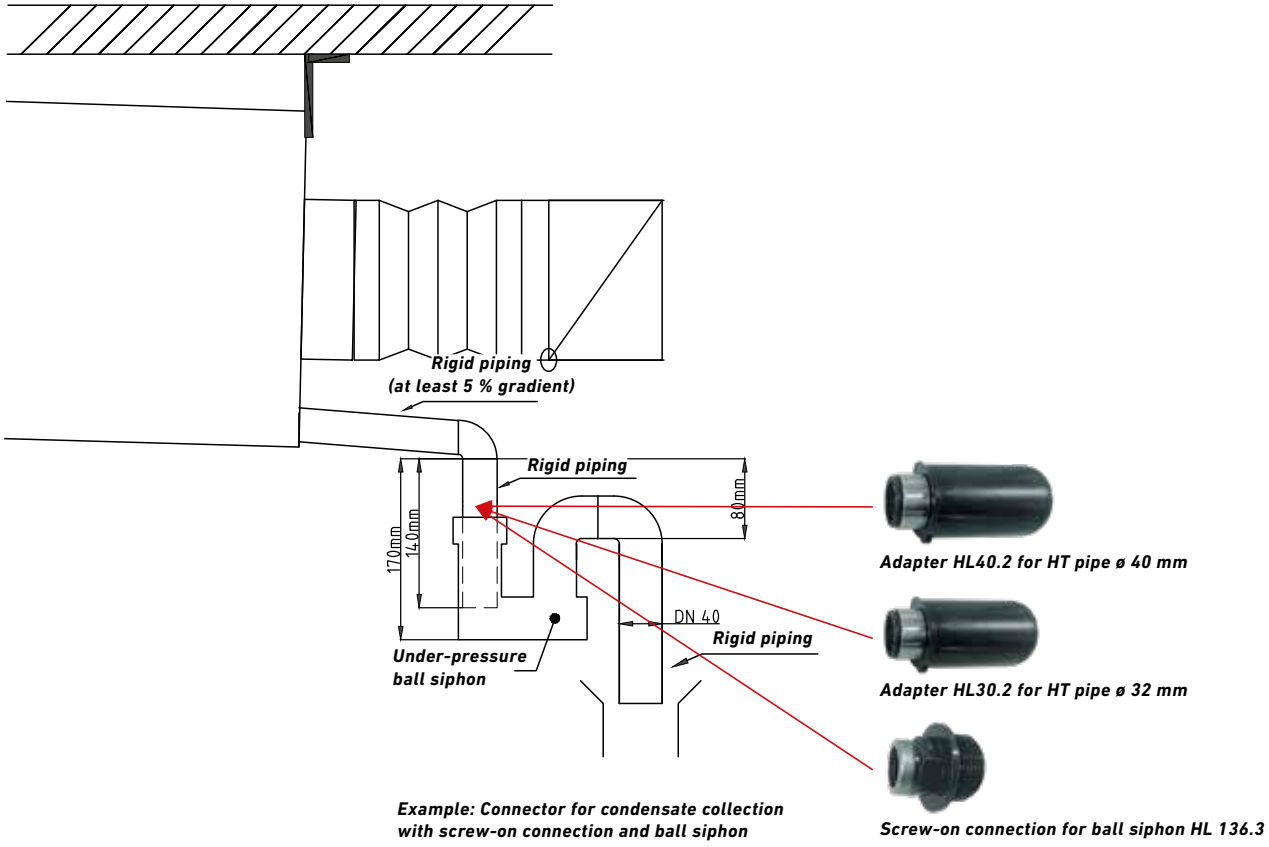


DETAIL CONDENSATE CONNECTION WALL SEE PAGE 17

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.

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

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: 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 at the reference volume flow: 39 db(A)

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 at the reference volume flow: 45 db(A)

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 at the reference volume flow: 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 + operating control unit MINI		A	A	B	–	–	–	–	–	–	–	–	–
LG + operating control unit MINI + 1 x CO_2 sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operating control unit MINI + 1 x RH sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operating control unit MINI + 2 x CO_2 sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operating control unit MINI + 2 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operating control unit MINI + 1 x CO_2 + 1 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operating control unit TOUCH		–	–	–	A	A	B	–	–	–	–	–	–
LG + operating control unit TOUCH + 1 x CO_2 sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operating control unit TOUCH + 1 x RH sensor*		–	–	–	–	–	–	A	A	A	–	–	–
LG + operating control unit TOUCH + 2 x CO_2 sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operating control unit TOUCH + 2 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A
LG + operating control unit TOUCH + 1 x CO_2 + 1 x RH sensor*		–	–	–	–	–	–	–	–	–	A+	A+	A

see page 10, 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.

Notes

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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 | ***Version:*** 01/2019 en/P

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