COMPACT VENTILATION UNITS LG 350 & LG 450

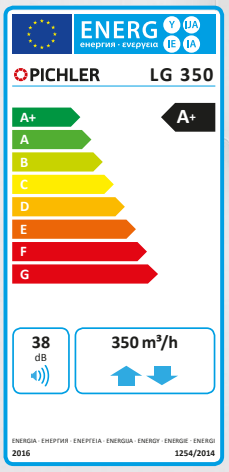
Z-51.3-428

EN 13141-7:2011

ErP 2018

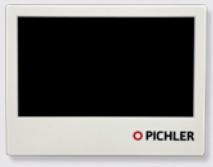
EU-Regulation 1253/2014

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



For details – see the brochure

COMFORT VENTILATION



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PICHLER

Systematic Ventilation.

Product description

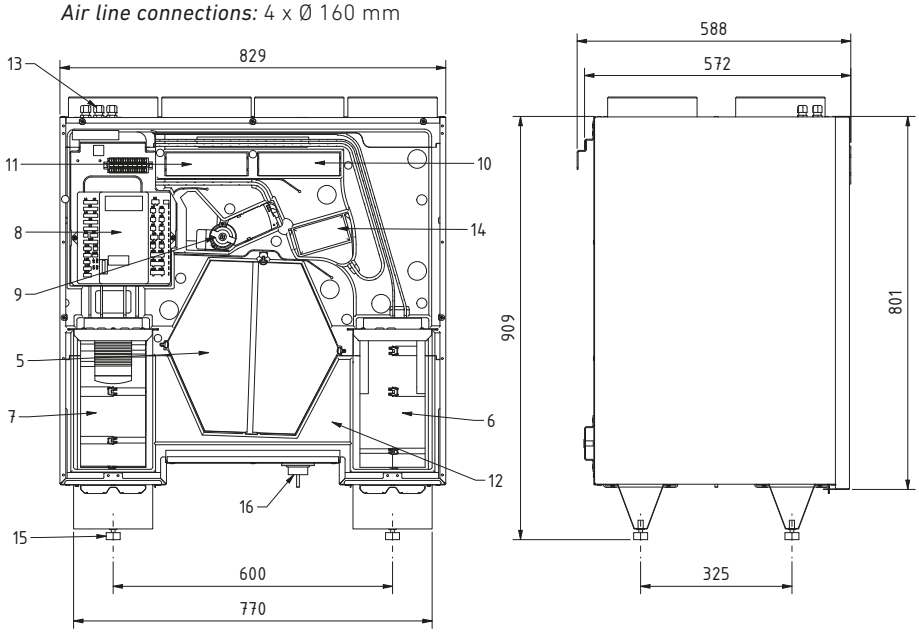
The compact ventilation unit LG 350 and LG 450 comprise a compact thermally insulated EPP housing without thermal bridges, of galvanized sheet steel, externally powder-coated in RAL 9003. They have a highly efficient heat recovery system with an air/air counterflow heat exchanger made of recyclable plastic, with automatic 100 % bypass and energy-saving radial fans driven by the latest EC motor technology. The integrated air flow rate measurement guarantees balanced operation on the supply and extract air sides. An expansion option to implement constant pressure control is also optionally available. The standard air filters used are of filter class ODA ISO ePM1 60% for the outdoor air and of filter class ETA ISO Coarse 80% for the extract air. The operation is simple and intuitive via the MINI or TOUCH (optional) operating control unit and with connection to the Internet (LAN connection) via the Pichler app. The unit can be optionally expanded by adding CO_2, humidity and indoor temperature sensors, which allows for demand-controlled ventilation operation.
The compact ventilation units LG 350 and LG 450 are suitable for floor or wall mounting (removable adjustable foot brackets) in frost-free rooms.

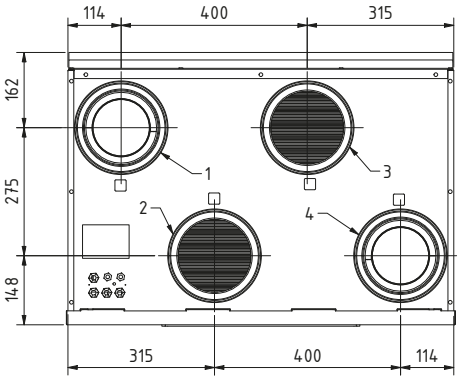
Area of application

The compact ventilation unit LG 350 and LG 450 are used for the controlled mechanical supply and extract air ventilation of larger residental houses, offices and similar applications. The range of use extends fundamentally to living spaces from approx. 100 m^2 to approx. 350 m^2 in passive or low energy structures, with an adjustable air volume flow of up to 350 m^3/h (LG 350) or 450 m^3/h (LG 450).

Layout sketch (standing or wall-mounted installation, left-hand version)

Dimensions: (W x H x D) 829 x 950 x 571 mm
Air line connections: 4 x Ø 160 mm



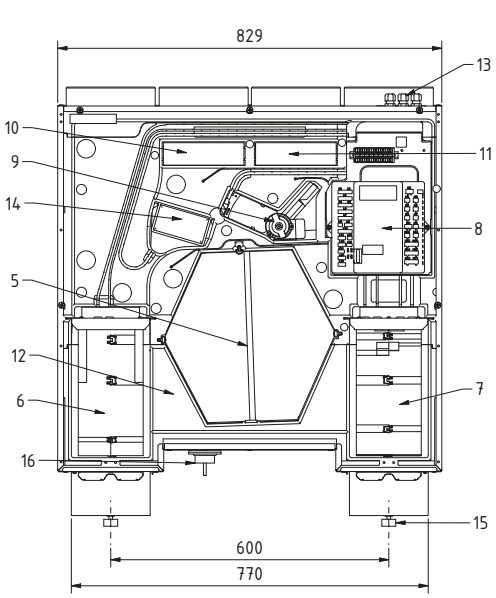


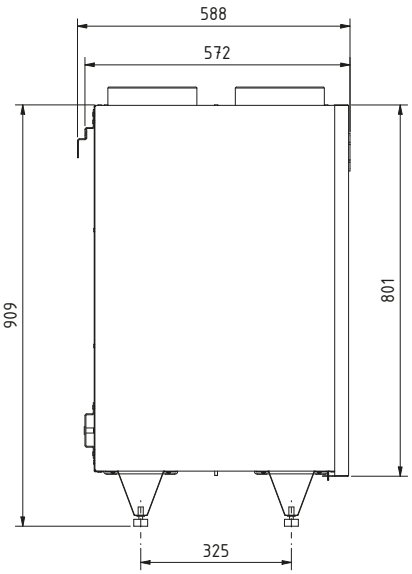
1 Supply air DN160
2 Extract air DN160
3 Outdoor air DN160
4 Exhaust air DN160
5 Counterflow heat exchanger
6 Exhaust air fan
7 Supply air fan
8 Control system
9 Bypass flap
10 Filter ODA ISO ePM1 60%
11 Filter ETA filter ISO Coarse 80%
12 Condensate tray
13 Cable inlets
14 Electric preheater battery (optional)
15 Height-adjustable feet (removable brackets)
16 Condensate outlets DN40

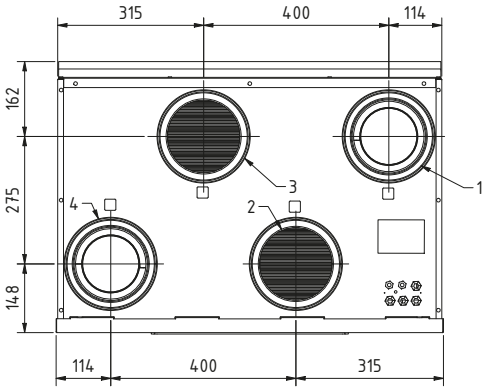
Illustration: **LG 350 & LG 450 (left-hand version)**

Layout sketch (standing or wall-mounted installation, right-hand version)

Dimensions: (W x H x D) 829 x 950 x 571 mm
Air line connections: 4 x Ø 160 mm





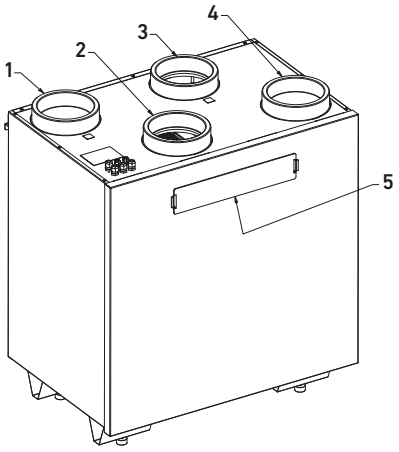
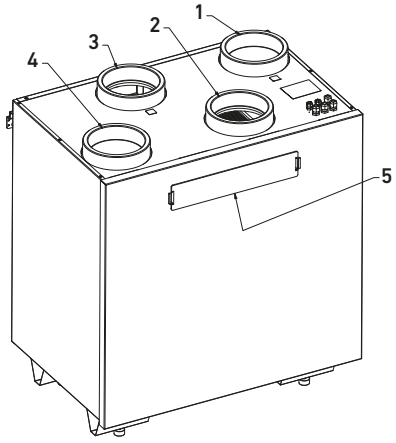


1 Supply air DN160
2 Extract air DN160
3 Outdoor air DN160
4 Exhaust air DN160
5 Counterflow heat exchanger
6 Exhaust air fan
7 Supply air fan
8 Control system
9 Bypass flap
10 Filter ODA ISO ePM1 60%
11 Filter ETA filter ISO Coarse 80%
12 Condensate tray
13 Cable inlets
14 Electric preheater battery (optional)
15 Height-adjustable feet (removable brackets)
16 Condensate outlets DN40

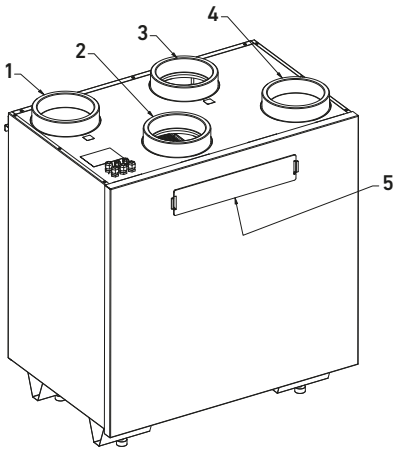
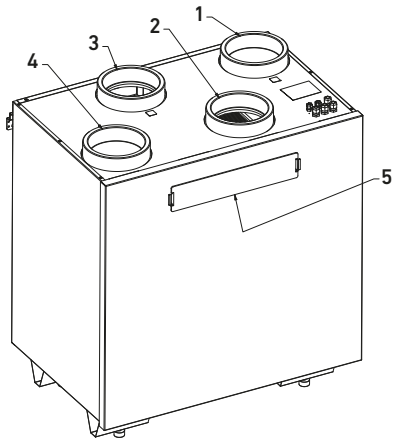
Illustration: LG 350 & LG 450 (right-hand version)

Versions

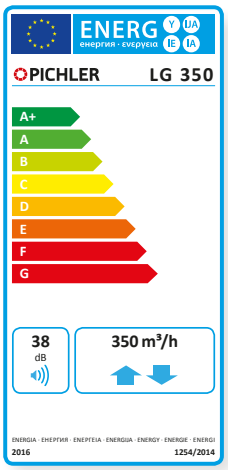
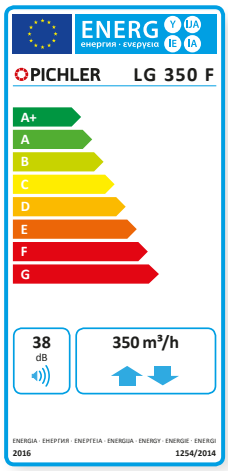
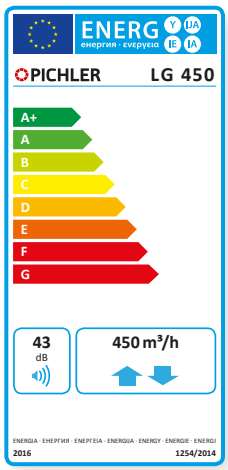
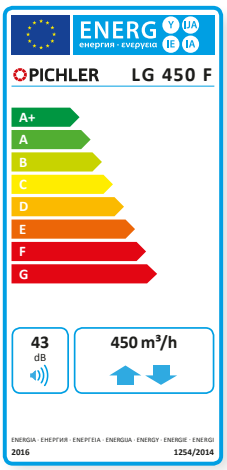
LG 350

Standing or wall-mounted LG 350	Left-hand version	Right-hand version
Item no. without a preheater battery	08LG350L	08LG350R
Item no. with an integrated preheater battery	08LG350LV	08LG350RV
Item no. with enthalpy exchanger	08LG350LF	08LG350RF
Item no. with enthalpy exchanger and an integrated preheater battery	08LG350LFV	08LG350RFV
1 Supply air ***2 Extract air*** ***3 Outdoor air*** ***4 Exhaust air*** ***5 Filter revision***		

LG 450

Standing or wall-mounted LG 450	Left-hand version	Right-hand version
Item no. without a preheater battery	08LG450L	08LG450R
Item no. with an integrated preheater battery	08LG450LV	08LG450RV
Item no. with enthalpy exchanger	08LG450LF	08LG450RF
Item no. with enthalpy exchanger and an integrated preheater battery	08LG450LFV	08LG450RFV
1 Supply air ***2 Extract air*** ***3 Outdoor air*** ***4 Exhaust air*** ***5 Filter revision***		

Overview energy efficiency classes

	LG 350 (V)	LG 350 F (V)	LG 450 (V)	LG 450 F (V)
Manual control	A	A	A	A
Clock control	A	A	A	A
Central demand control	A+	A	A	A
Local demand control	A+	A+	A+	A
				

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Technical data

Equipment type	LG 350 (V)	LG 350 F (V)	LG 450 (V)	LG 450 F (V)
Heat exchanger	Standard	Enthalpy exchanger	Standard	Enthalpy exchanger
Air volume flow min. - max. (adjustable in steps of 5 m^3/h)	50 - 350 m^3/h	50 - 350 m^3/h	50 - 450 m^3/h	50 - 450 m^3/h

Characteristic values in compliance with EN13141-7:2010				
Temperature ratio $\eta_{\Theta,SU}$ [1]	93 %	81 %	91 %	79 %
Temperature ratio $\eta_{\Theta,EX}$ [1]	86 %	75 %	84 %	71 %
Specific input power SIP [1]	0,18 Wh/m^3	0,16 Wh/m^3	0,22 Wh/m^3	0,21 Wh/m^3
Specific input power SIP [2]	0,19 Wh/m^3	0,17 Wh/m^3	0,24 Wh/m^3	0,21 Wh/m^3
External leakage	< 0,50 %		< 0,40 %	
Internal leakage	< 0,50 %		< 0,40 %	

Characteristic values in compliance with PHI criteria				
Certified range of application	71 - 277 m^3/h		71 - 350 m^3/h	
Heat provision level $\eta_{ef,HR}$ Application range in compliance with PHI	90 %	85 %	89 %	81 %
Moisture recovery	-	76 %	-	76 %
Power efficiency η_{elec}	0,22 Wh/m^3	0,22 Wh/m^3	0,25 Wh/m^3	0,24 Wh/m^3
Power consumption in standby operation	3 W			

Classification of air filters in accordance with EN ISO 16890	
(Filter ODA (Outdoor air)	ISO ePM1 60%
Filter ETA (Extract air)	ISO Coarse 80%

Operating conditions	
Permissible ambient temperature (place of installation)	+5 to +35 °C
Permissible operating temperature (outside air)	-15 to +35 °C

Electrical system		
Electrical connection	230 V / 1 ~ / 50 Hz / 16 A	
IP classification	IP40 with connected air ducts	
Max. power without VHR	180 W	350 W
Max. power with VHR	2050 W	2250 W

Materials	
Inner part	EPP and galvanised sheet steel
Housing	Galvanised sheet steel and powder-coated in RAL 9003
Heat exchanger	Polystyrene with flame protection grid
Enthalpy exchanger	Polymer membrane

Housing	
Air duct connections	4 x Ø 160 mm (for steel nipples safe or EPP sleeve DN160)
Condensate drainage	AG 1 1/4"
Dimensions (W x H x D)	829 x 950 x 571 mm
Weight without optional accessories	approx. 56 kg

[1] with 70 % of the max. volume flow
[2] according to the calculation basis in compliance with prEN13171-7: 2018 based on air temperature 20 °C

SOUND DATA

LG 350		Pos.	Housing emission			Outdoor air connecting piece			Supply air connecting piece			Exhaust air connecting piece			Extract air connecting piece		
		m^3/h	245	277	350	245	277	350	245	277	350	245	277	350	245	277	350
		Pa	50	100	100	50	100	100	50	100	100	50	100	100	50	100	100
Measuring point	125 Hz	L_w in dB	37	38	41	36	37	39	45	47	50	41	49	51	37	39	44
	250 Hz		46	49	50	43	43	41	55	55	57	51	54	56	43	43	43
	500 Hz		31	34	38	26	30	34	43	46	49	42	45	49	25	28	32
	1000 Hz		27	30	34	23	28	30	40	44	47	40	44	48	23	26	30
	2000 Hz		21	25	30	17	21	26	42	45	50	41	46	50	18	21	26
	4000 Hz		< 15	< 15	19	< 15	< 15	< 15	33	38	44	32	38	44	< 15	< 15	17
	8000 Hz		< 15	< 15	< 15	< 15	< 15	< 15	23	29	36	21	28	37	< 15	< 15	< 15
	Total L_{WA} in dB(A)		**38**	**41**	**45**	**34**	**36**	**37**	**49**	**52**	**56**	**47**	**51**	**55**	**33**	**36**	**38**

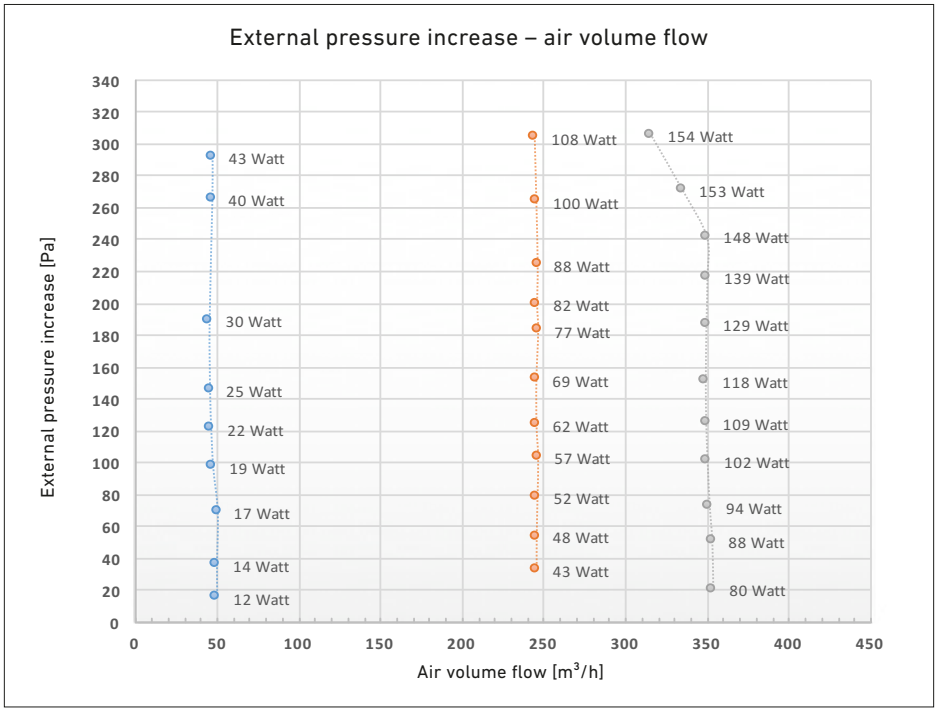
Remark: Tolerances for sound data ± 2 dB, measured in compliance with EN ISO 9614-2

LG 450		Pos.	Housing emission			Outdoor air connecting piece			Supply air connecting piece			Exhaust air connecting piece			Extract air connecting piece		
		m^3/h	315	350	450	315	350	450	315	350	450	315	350	450	315	350	450
		Pa	50	100	100	50	100	100	50	100	100	50	100	100	50	100	100
Measuring point	125 Hz	L_w in dB	41	43	44	39	44	47	49	51	51	51	52	60	44	44	47
	250 Hz		50	51	50	43	42	44	56	57	61	53	56	61	44	43	45
	500 Hz		37	40	52	32	35	43	48	50	70	48	49	64	31	33	41
	1000 Hz		32	33	40	30	32	36	45	48	52	46	48	55	30	31	36
	2000 Hz		27	30	35	25	28	32	48	50	55	48	51	56	25	27	32
	4000 Hz		< 15	19	26	< 15	16	22	40	44	51	41	44	52	16	19	24
	8000 Hz		< 15	< 15	< 15	< 15	< 15	< 15	32	37	46	33	38	47	< 15	< 15	17
	Total L_{WA} in dB(A)		**43**	**45**	**49**	**37**	**38**	**43**	**53**	**56**	**67**	**53**	**56**	**63**	**37**	**39**	**42**

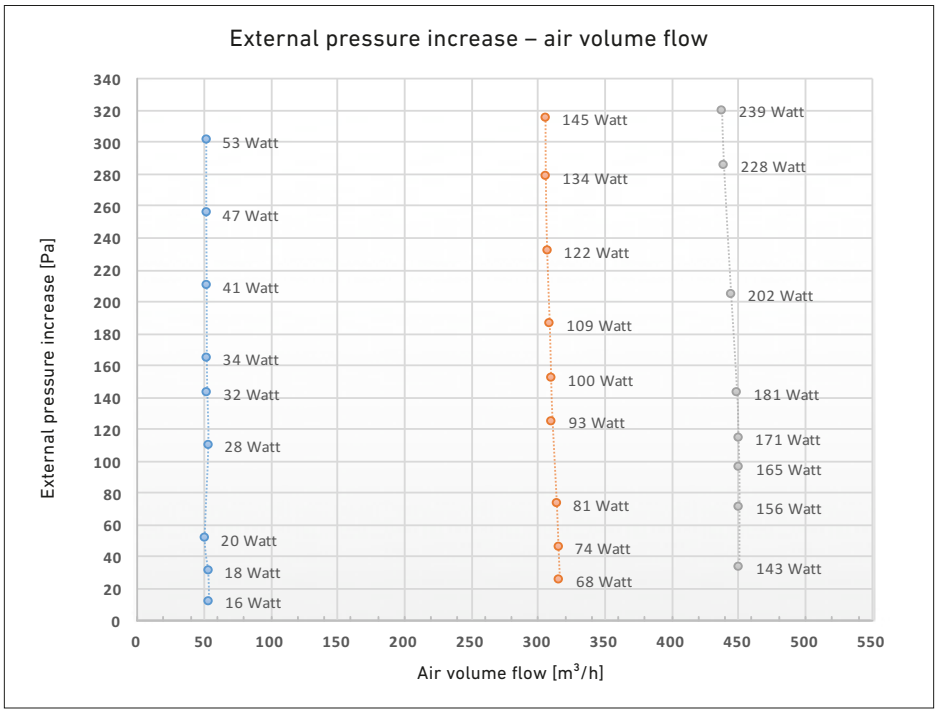
Remark: Tolerances for sound data ± 2 dB, measured in compliance with EN ISO 9614-2

Characteristic curve – external pressure increase – air volume flow rate

The characteristic curves shown are applicable to unit type with outdoor air (filter ODA ISO ePM1 60%) and extract air filter (filter ETA ISO Coarse 80%) and with an electrical pre-heater battery. The total power specified takes the power consumption for the two fans in the supply air and exhaust air as well as the power consumption of the controller into consideration.
Note: Depending on the installed air duct system, the maximum air volume flow may not be achieved in bypass mode.



LG 350 V compact ventilation unit



LG 450 V compact ventilation unit

Technical specifications LG 350 (V)

PASSIVE HOUSE CERTIFIED IN ACCORDANCE WITH PHI CRITERIA

Degree of heat provision: $\eta_{eff,\,t,\,WRG}$ = 90 %
Comfort criterion: T_{SUP}= +16,5 °C bei T_{ODA}= -10 °C
Flow efficiency: $\eta_{elec.}$ = 0,22 Wh/m³

INSPECTED ACCORDING TO DIN EN 13141-7:2011

Technical specifications LG 350 F (V) with moisture recovery

PASSIVE HOUSE CERTIFIED IN ACCORDANCE WITH PHI CRITERIA

Degree of heat provision: $\eta_{eff,\,t,\,WRG}$ = 85 %
Average moisture ratio: η_X = 0,76
Comfort criterion: T_{SUP}= +16,5 °C bei T_{ODA}= -10 °C
Flow efficiency: $\eta_{elec.}$ = 0,22 Wh/m³

INSPECTED ACCORDING TO DIN EN 13141-7:2011

Technical specifications LG 450 (V)

PASSIVE HOUSE CERTIFIED IN ACCORDANCE WITH PHI CRITERIA

Degree of heat provision: $\eta_{eff,\,t,\,WRG}$ = 89 %
Comfort criterion: T_{SUP}= +16,5 °C bei T_{ODA}= -10 °C
Flow efficiency: $\eta_{elec.}$ = 0,25 Wh/m³

INSPECTED ACCORDING TO DIN EN 13141-7:2011

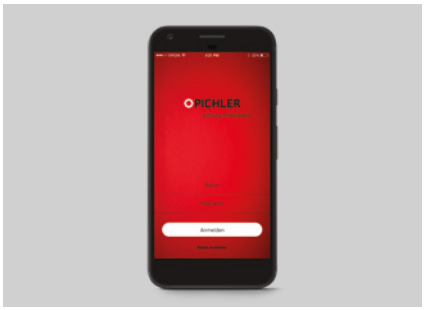
Technical specifications LG 450 F (V) with moisture recovery

PASSIVE HOUSE CERTIFIED IN ACCORDANCE WITH PHI CRITERIA

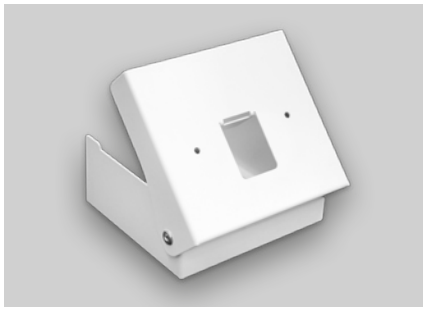
Degree of heat provision: $\eta_{eff,\,t,\,WRG}$ = 81 %
Average moisture ratio: η_X = 0,76
Comfort criterion: T_{SUP}= +16,5 °C bei T_{ODA}= -10 °C
Flow efficiency: $\eta_{elec.}$ = 0,24 Wh/m³

INSPECTED ACCORDING TO DIN EN 13141-7:2011

TOUCH operating control unit



Pichler-App



Swiveling console

Operation

BYPASS FOR HEAT EXCHANGER

The 100% bypass is controlled based on the measured exhaust air and outdoor temperatures. In this way, the heat exchanger is bypassed in summer and the cool outdoor air can be blown directly into the living area, or via an existing ground collector.

CONTROLLER

Scalable expansion of the control system is possible, from low-cost to high-end. Further options include connections to an external building control system using Modbus RTU and sensors to monitor room air quality.
Ventilation unit settings are made via a control unit. A MINI operating unit as a compact flush operating unit or optional a TOUCH operating unit as a surface-mounted version can be chosen to control and operate the ventilation unit.
Connection to a building automation via integrated Modbus RTU interface. Optionally, a gateway for the KNX bus system is also available.

MINI CONTROL UNIT

The MINI control unit is used to control the ventilation unit. It is easy to operate and enables the configuration of ventilation levels, switching between summer and winter mode, setting of basic volume flow, etc. In addition, the control unit displays operating status and any faults that may occur. The USB interface on the operating unit is fitted as standard. Installation is on a flush-mounted box (not included in delivery).

TOUCH CONTROL UNIT

The control unit with a 4.3" colour-touch-display is used to control the ventilation unit. Operation is simple and intuitive. 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 as well as the setting for the volume flows. The operating mode, temperatures, a required filter change and possible faults are displayed in plain text. The control unit also has an integrated temperature sensor, which can be used as a room temperature sensor when needed. Installation is on 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)

Item	Item number
STANDARD: operating control unit MINI for LG 350 and 450	08LGMINI350450
OPTIONAL: operating control unit TOUCH for LG 350 and LG 450	08LG350450T
OPTIONAL: Swivel bracket for attaching the TOUCH or MINI control unit directly to the ventilation unit	40LG350BG142

EASY OPERATION WITH THE PICHLER APP

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

REMOTE ACCESS / PICHLER CONNECT

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

PICHLER connect.

CO_2 sensor

Room temperature, humidity and CO_2 sensor with Modbus communication

External dual pressure sensor set

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 ETA ISO Coarse 80% (Extract air)	40LG0500000A
Filter ODA ISO ePM1 60% (Outdoor air)	40LG0500001A

EXTERNAL DUAL PRESSURE SENSOR SET

Pressure sensors for external mounting including a connection kit. Serves to ensure constant pressure control of the ventilation unit.

Item	Item number
External dual pressure sensor set with Modbus communication	08LGDRUCKDUALSET

DEMAND-ORIENTED VENTILATION CONTROL

CO_2, humidity and room temperature 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 sensor in the surface-mounted housing is suitable for wall mounting.

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
CO_2 sensor	07RCO248330

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

Item	Item number
Humidity sensor	07RHF49360

Type of room temperature sensor: NTC 10k
Dimensions: W x H x D = 85 x 85 x 35 mm

Item	Item number
Room temperature sensor	07RTF49357

Colour: white
Dimensions: W x H x D = 70 x 70 x 30 mm
Measuring range: 400-2000 ppm, accuracy: ±(30 ppm + 3 %)
Measuring range temperature: 0-45°C, accuracy: ±3 %
Measuring range: 11-89 % RH, accuracy: ±3 %
Sensor supply voltage: 12-24 VDC

Item	Item number
Room temperature, humidity and CO_2 sensor with Modbus communication (Modbus-Cable not included in delivery)	07RTRHCO248401

WIRELESS ROOM TEMPERATURE, HUMIDITY AND/OR CO_2 SENSORS WITH MODBUS/MIWI COMMUNICATION FOR DEMAND-BASED VENTILATION CONTROL

The Modbus/MIWI gateway is a receiver for wireless sensors and communicates via 0-10V output or via Modbus. The receiver is delivered in an external box for connection to the ventilation unit. The receiver should be installed outside the ventilation unit. This provides the best signal reception from the wireless sensors. The measurements of the wireless sensors are sent to the receiver via MiWi. Under normal circumstances, the range is approx. 20 m, which can be extended by setting up repeaters. The sensor and network number can be easily set with the DIP switch under the lid. If a 0-10V signal is used, only one sensor's signal can be received. Up to 6 wireless sensors can be connected via Modbus.

Modbus/MiWi Gateway

Wireless room temperature and humidity sensor with/without CO_2 for surface installation

Modbus/KNX Gateway

Accessories

MODBUS/MIWI GATEWAY

Dimensions: W x H x D = 138 x 64 x 30 mm
Number of controllable wireless sensors via Modbus output: up to 32
Number of controllable radio sensors via 0-10V output: 1
Number of 0-10V outputs: 4
Additional interface: MiWi Mesh 868MHz
IP protection class: IP 20
Supply voltage: 15 – 24 VDC
Ambient temperature during operation: 0 – 40 °C

Item	Item number
Modbus/MiWi Gateway	07GATEWAYMIWI

WIRELESS ROOM TEMPERATURE AND HUMIDITY SENSOR FOR SURFACE INSTALLATION

Dimensions: W x H x D = 85 x 85 x 30 mm
Supply voltage: Battery 3 x 1.5V alkaline AA
Battery life: up to 4 years
Temperature sensor accuracy: 2 %
Measurement range: 0 – 40 °C
Humidity sensor accuracy: 4 %
Measurement range: 0 – 80 % RF
IP protection class: IP 20
Ambient temperature during operation: 0 – 40 °C

Item	Item number
Wireless room temperature, humidity and CO_2 sensor for surface installation	07MIWIRTRH

WIRELESS ROOM TEMPERATURE, HUMIDITY AND CO_2 SENSOR FOR SURFACE INSTALLATION

Dimensions: W x H x D = 85 x 85 x 30 mm
Supply voltage: Battery 3 x 1.5V alkaline AA
Battery life: up to 2 years
Temperature sensor accuracy: 2 %
Measurement range: 0 – 40 °C
Humidity sensor accuracy: 4 %
Measurement range: 0 – 80 % RH
CO_2 sensor accuracy: 0 – 2000 ppm
Measurement range: 0 – 10 000 ppm
IP protection class: IP 22
Ambient temperature during operation: 0 – 40 °C

Item	Item number
Wireless room temperature, humidity and CO_2 sensor for surface mounting	07MIWIRTRHCO2

MODBUS/KNX GATEWAY

The Modbus/KNX gateway provides for the connection of a ventilation unit/heat pump combi unit to a KNX bus system. In this case, the gateway serves as a connective link between the two bus systems. Note that the gateway always acts as the master for the Modbus. On the KNX side, however, it responds like a standard KNX TP-1 unit. This makes it possible to centrally control and monitor the ventilation unit/ heat pump combi unit using a KNX system.
A "Config Tool" (a DCA or Device Configuration App) is provided to facilitate configuration of the ETS. With this, it is possible to adopt any existing configurations for the gateway.
Dimensions: L x W x D = 18 x 100 x 60 mm
Weight: approx. 50 g
Mounting: Top hat rail DIN serial mounting 1TE
Permissible ambient temperature: -5 to 45 °C
Permissible storage temperature: -25 to 70°C
Permissible humidity: 5 – 93 % non-condensing
Protection class: IP 20
Power supply: KNX bus, approx. 8 mA
Interfaces: EIA-485, KNX-TP1

Item	Item number
Modbus/KNX-Gateway	08KNXGAC

BACNET GATEWAY

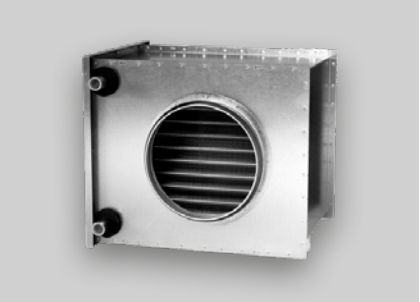
The BACnet GATEWAY enables the connection of the compact ventilation unit to a BACnet bus system. In this process, the gateway serves as a connective link between the two bus systems.

Item	Item number
BACnet GATEWAY	08BACGAES2020

UNITS FOR INSTALLATION INTO THE AIR SUPPLY DUCT

LG 350	
Item	**Item number**
Combination register (cold water coil) for duct installation Ø 160 mm	01CWK160
Hot water heating coil for duct installation Ø 160 mm	01VBC160
Additionally for water coils:	
DN15 KVS 0.63 three-way valve with LR24ASR actuator	07R3015P6LR24ASR
External electric re-heating battery	08CV16121VICIAL
Refrigerant coil (heating or cooling) for duct installation Ø 200 mm	01CWDX200
Additionally for refrigerant coils:	
Coupling relays with screw terminals 2W, 8A, 230VAC	40LG0400100A

External electric re-heating battery



Hot water heater battery

Presence detector

LG 450	
Item	**Item number**
Combination register (cold water coil) for duct installation Ø 200 mm	01CWK200
Hot water heating coil for duct installation Ø 200 mm	01VBC200
Additionally for water coils:	
DN15 KVS 0.63 three-way valve with LR24ASR actuator	07R30151SLR24ASR
External electric re-heating battery	08CV16121VICIAL
Refrigerant coil (heating or cooling) for duct installation Ø 200 mm	01CWDX200
Additionally for refrigerant coils:	
Coupling relays with screw terminals 2W, 8A, 230VAC	40LG0400100A

EXTERNAL CABLE TEMPERATURE SENSOR

NTC thermistor sensor with metal sleeve required for operation of an external register.

Item	Item number
NTC thermistor sensor, length 2 m	40LG041920

SENSOR MOUNTING KIT

For fastening and installing sensors with a diameter of 3.5 to 8 mm. The kit is designed for use in round pipes and drains indoors.

Item	Item number
Sensor mounting kit	07FMSET8

CONDENSATE SIPHON

DN40 condensate siphon with vertical connection 5/4“, water odour seal (60 mm) and mechanical odour seal.

Item	Item number
Condensate siphon DN40 x 5/4"	40LG030620

CONDENSATE PUMP

Condensate pump for condensate that is collected below the sewer or that cannot reach the sewer or building drain via a natural gradient. The pump system is ready-to-use and consists of a collection tank, a pump with accessible hydraulics, and two float switches.

Technical specifications:
Max. pump capacity: 588 l/h
Max. delivery head: 5.5 m
475 l/h pump capacity at 2 m delivery head
Electrical connection with Schuko plug
Motor power: 75 W
Rated current: 0.65 A / Connection voltage 230V
Dimensions: W x H x D = 259 x 183 x 165 mm ~ 4.1 kg

Item	Item number
Condensate pump for automatic extraction of condensate	02CONLIFT1

BUTTERFLY VALVES

Butterfly valve. Made from galvanized sheet steel with double-lip sealing.

Item	Item number
Butterfly valve AKR Ø 160 mm with motor LF 230	02AKR160LF230
Butterfly valve AKR Ø 200 mm with motor LF 230	02AKR200LF230

PRESENCE AND MOTION DETECTOR FOR FLUSH-MOUNTED, SURFACE-MOUNTED AND CEILING INSTALLATION

The flush-mounted presence detector for ceiling installation is ideally suited for presence areas in offices, conference rooms, lounges, cellar rooms, etc.

Technical specifications:
Voltage: 230 V AC
Potential-free normally open contact 10 A

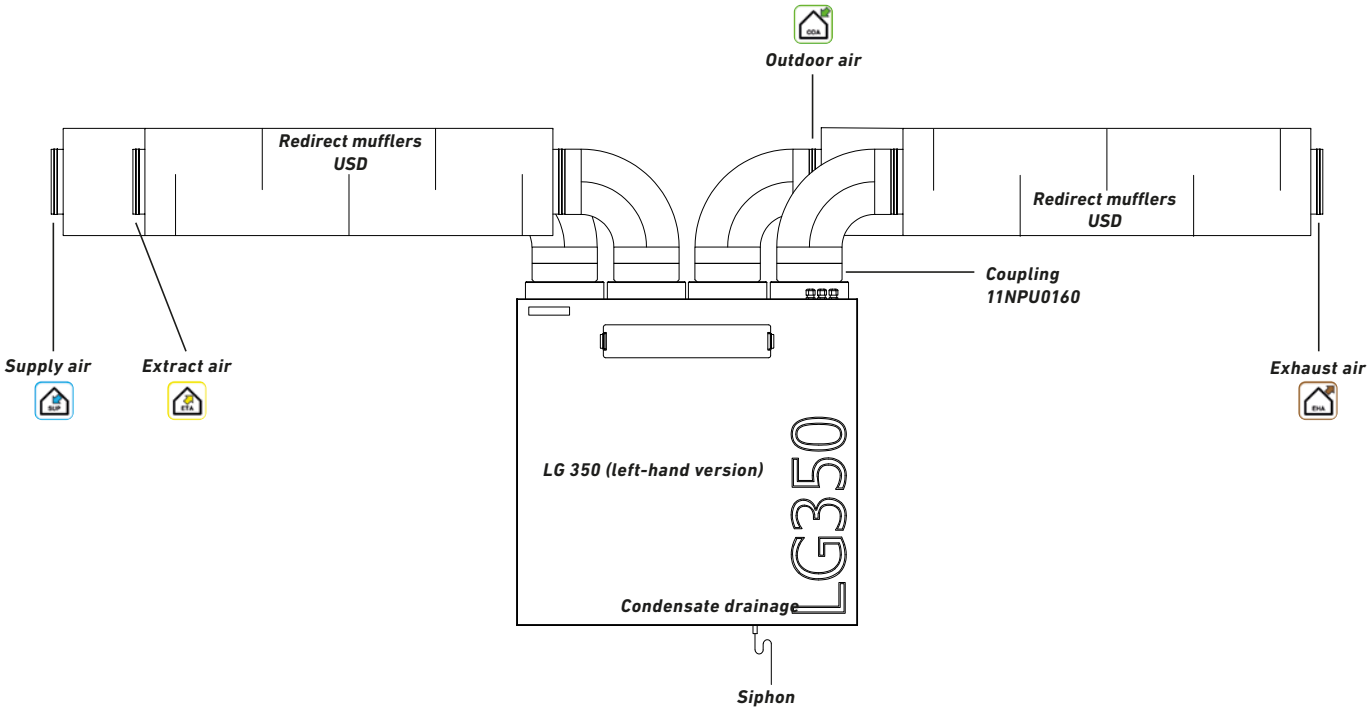
DETECTION ZONE:
Ceiling height: 3 m
2 detection zones: Presence detector: detects seated or other stationary activities = 4 x 4 m. Motion detector: detects movements of objects with body temperature = 8 x 8 m
Detection zone: 360°
Degree of protection: IP40 indoor installation
Visible dimensions: W x H x D = 88 x 88 x 35 mm
Dimensions: W x H x D = 84 x 84 x 35.1 mm

Item	Item number
Presence detector	07UPPM360

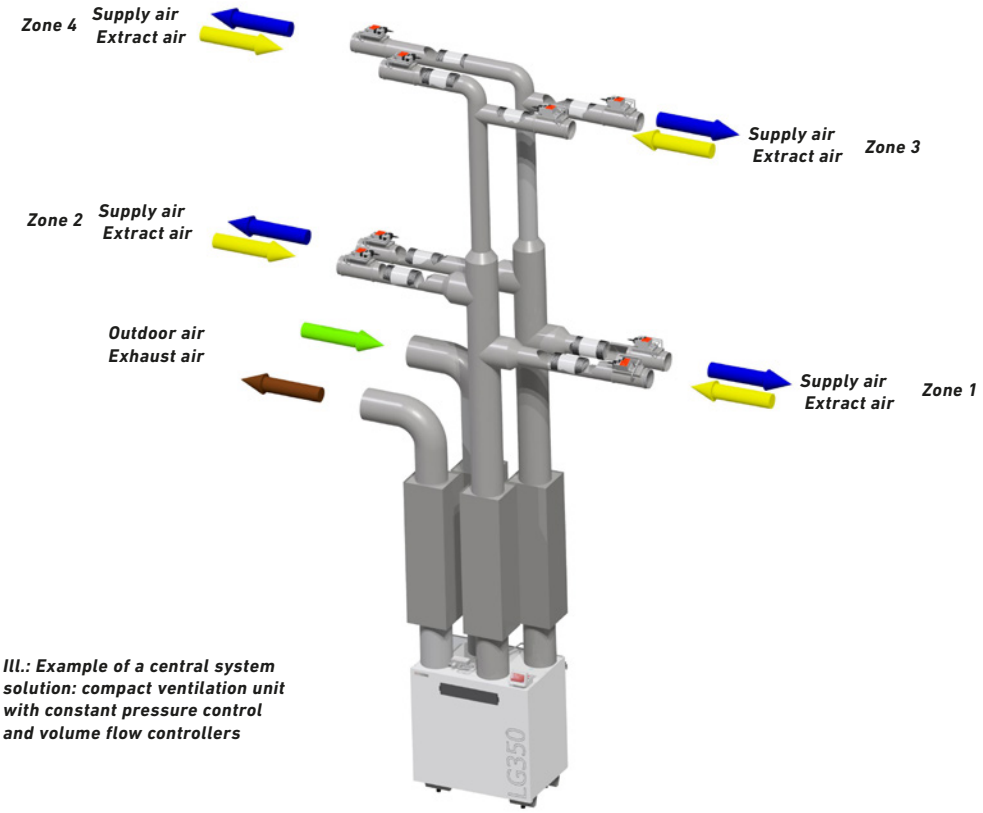
COMPLETE PROGRAM FOR AIR DISTRIBUTION SYSTEMS

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.

Mounting example for wall-mounted installation in the basement



Example application of zone regulation



Ill.: Example of a central system solution: compact ventilation unit with constant pressure control and volume flow controllers

LG 350 & LG 450 at a glance!

Fans:
Energy-saving radial fans direct current (latest EC motor technology)

Counterflow heat exchanger:
High-efficiency heat recovery system with air/air-counterflow heat exchanger made from recyclable plastic with automatic 100% bypass

Air volume flow:
Up to 350 m^3/h (LG 350) or 450 m^3/h (LG 450) for external pressures to 250 Pa

Filters:
Filter ODA ISO ePM1 60% in the outdoor air, filter ETA ISO Coarse 80% in the extract air

Electrical preheater battery for frost protection:
With stepless control, optional

Housing:
Made from galvanised steel sheeting, powder-coated in RAL 9003 with thermal insulation

Air connections:
Left-hand and right-hand unit versions. ODA/EHA/SUP/ETA: each Ø 160 mm

Installation position:
Standing or wall-mounted device (removable adjustable foot brackets)

Summer changeover:
Integrated 100% bypass flap

Electrical connection:
Supplied ready to plug in

Optional constant pressure control:
External dual pressure sensor set with Modbus communication

Operation:
Via the MINI or TOUCH (optional) operating control unit and with connection to the Internet (LAN connection) via the Pichler app.

Service – Maintenance – Initial startup

Can be combined with the LBE 250 A and LBE 500 A air humidification unit

OUR LG 350 & LG 450 COMPACT-VENTILATION UNITS HAVE BEEN EXTERNALLY TESTED BY

- TÜV SÜD München

OUR COMPACT VENTILATION UNITS LG 350 & LG 450 HAVE BEEN APPROVED BY

- DIBt – Deutsches Institut für Bautechnik (Z-51.3-428)

OUR LG 350 & LG 450 COMPACT VENTILATION UNITS ARE LISTED IN THE

- EPREL – European Product Database for Energy Labelling

OUR COMPACT VENTILATION UNITS LG 350 & LG 450 HAVE BEEN CERTIFIED BY

- Passivhausinstitut Darmstadt

Note:
Our supplier range includes unit sizes up to 10.000 m^3/h as well as a wide range of accessories.

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.

Your partner/installer:

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Photos: J. Pichler Gesellschaft m.b.H. | ***Text:*** J. Pichler Gesellschaft m.b.H.
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