

LG 175

CENTRALISED APARTMENT
VENTILATION UNIT
WITH HEAT RECOVERY

**COMFORT
VENTILATION**

 **PICHLER**

Systematic ventilation.

LG 175 – INNOVATIVE VENTILATION

VENTILATION UNIT WITH HEAT RECOVERY FOR GREATER COMFORT, A QUALITY PRODUCT FROM AUSTRIA.

A residential ventilation system makes a significant contribution to the energy efficiency of a residential building. It supplies filtered outdoor air to the living spaces in a conditioned and demand-based manner via integrated heat recovery. It ensures a pleasant indoor climate 365 days a year, removes odours and protects buildings against moisture damage.

The LG 175 centralised apartment ventilation unit is specifically designed to meet the needs of modern multi-storey residential construction. It stands out through its reduced, modern design and a wide range of technological refinements.

Equipped as standard with Bluetooth and Wi-Fi interfaces, the user can keep an eye on the ventilation system at all times via the innovative Pichler app.



SLIM

COMPACT AND ELEGANT,
IDEAL FOR EVERY HOME.

During the development of the LG 175 residential ventilation unit, particular emphasis was placed on a compact and very slim design.

Dimensions:

590 x 880 x 253 mm



EFFICIENT

HIGHLY EFFICIENT, HEAT-RECOVERING,
AND ENERGY-SAVING - FOR OUR ENVIRONMENT.

KEY FEATURES AT A GLANCE

- Application range from 40 to 175 m³/h (nominal ventilation rate 123 m³/h)
- Enlarged filter surfaces and optimised filter medium
- Wired control unit with integrated Wi-Fi/Bluetooth interface
- Efficient heat recovery from extract air
- Low power consumption thanks to innovative EC fan technology
- Bypass function for heat recovery bypass in summer
- Optional electric pre-heater
- Optional enthalpy heat exchanger with intelligent condensate prevention control
- Optional integrated extract air quality sensor for demand-controlled airflow regulation based on VOC and humidity
- Optional "GLA configuration" (basic ventilation active, cannot be switched off) in accordance with DIN 18017-3

CONVENIENT

EASY TO OPERATE, VIA APP OR CONTROL UNIT.

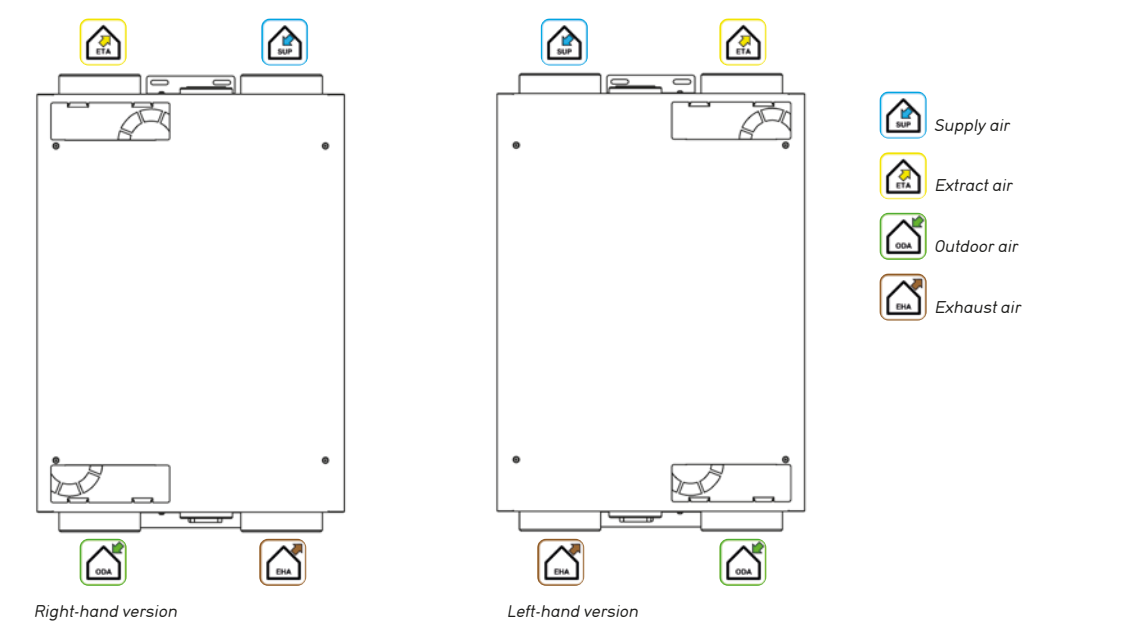
Operation is simple and intuitive via the wired Pichler control unit (included in the scope of delivery). When the auto function is activated, the ventilation unit regulates the

airflow automatically for optimum indoor air quality. The user can quickly and easily adjust settings and retrieve information via the Pichler app.



VERSIONS

The LG 175 comfort ventilation unit is available in various versions:



Article no. left-hand version	Article no. right-hand version	Electric pre-heater	VOC/RH de- mand-controlled regulation	Frost protection	Heat recovery	Condensate drain required	Mounting	Efficiency class ⁵⁾
08LG175L	08LG175R	-	-	Extract air defrost function ¹⁾	Standard	yes	vertical (wall)	A
08LG175LQ	08LG175RQ	-	yes					A
08LG175LV	08LG175RV	yes	-	PTC pre-heater ²⁾				A
08LG175LVQ	08LG175RVQ	yes	yes					A
08LG175LFQ	08LG175RFQ	-	yes	Condensate prevention ³⁾	Enthalpie	no	vertical and horizontal (wall, ceiling)	A
08LG175LFV	08LG175RFV	yes	-	Condensate prevention ⁴⁾				A
08LG175LFVQ	08LG175RFVQ	yes	yes					A

¹⁾ Airflows are operated in imbalance mode during the defrost phase
²⁾ The PTC pre-heater is activated as required to prevent icing in the heat exchanger
³⁾ At very low outdoor temperatures, airflows may be partially reduced and operated in imbalance mode
⁴⁾ The PTC pre-heater is activated as required to prevent condensate formation
⁵⁾ According to EU Regulation 1254/2016



TECHNICAL DATA

Unit type	LG175	LG175V	LG175F	LG175FV
	-	with pre-heater	-	with pre-heater
Heat exchanger	Standard heat exchanger		Enthalpy heat exchanger	
Installation	Wall mounting		Wall and ceiling mounting	
Air volume flow min - max, 4 adjustable levels	40 – 175 m³/h		40 – 175 m³/h	
Available external pressure	> 200 Pa		> 200 Pa	
Performance values acc. to EN13141-7:2021				
Supply air temperature ratio $\eta_{\theta, su}^1$	90,2%	90,2%	82,7%	82,7%
Supply air humidity ratio $\eta_{\theta, su}^1$	–	–	62,8%	62,8%
η WRG (OIB 2019) acc. to ÖNORM B8110	90,2%	90,2%	92,7%	92,7%
Specific input power SEL 1	0,25 Wh/m³		0,25 Wh/m³	
Leakage class	A1			
Air filter classification acc. to. EN ISO 16890				
Outdoor air filter	ePM1 60%			
Extract air filter	Iso Coarse 80%			
Operating conditions				
Permissible ambient temperature (installation location)	+5 to +40 °C			
Permissible operating temperature (outdoor air)	-15 to +40 °C			
Electrical data				
Electrical connection	+5 to +40 °C			
IP classification	-15 to +40 °C			
Max. power (pre-heater = 100%)	72 W	1250 W	72 W	1250 W
Materials				
Inner section	EPP and galvanised sheet steel			
Housing	Galvanised sheet steel and powder-coated RAL 9010			
Heat exchanger material	Polystyrene		Polyethylene-polyether copolymer	
Housing				
Air duct connections	4 x Ø 125 mm (for Safe steel nipple or EPP socket DN125)			
Condensate drain	AG 1 1/4"			
Dimensions (W x H x D)	590 x 880 x 253 mm			
Weight without optional accessories	20 kg			

¹⁾ at 70% of the maximum airflow rate



SOUND DATA

LG 175		Sound power level															
		Pos.	Housing			Outdoor air connection			Supply air connection			Extract air connection			Exhaust air connection		
		m³/h Pa	90 50	123 50	175 100	90 50	123 50	175 100	90 50	123 50	175 100	90 50	123 50	175 100	90 50	123 50	175 100
Band center frequency	63 Hz	Lw in dB	-	-	-	40	41	50	56	61	68	34	40	52	59	61	65
	125 Hz		44	48	54	51	53	58	54	58	66	45	52	57	57	58	63
	250 Hz		41	46	52	43	44	51	52	56	64	42	47	53	59	60	67
	500 Hz		37	41	48	39	40	46	50	55	62	35	42	48	55	56	63
	1000 Hz		35	39	43	32	34	37	53	58	63	28	33	39	59	60	64
	2000 Hz		13	30	45	19	21	35	46	51	66	21	27	39	51	51	66
	4000 Hz		17	22	31	11	13	23	39	43	53	7	13	23	41	43	53
	8000 Hz		7	12	22	5	7	1	31	36	48	2	8	16	35	36	48
Total LWA in dB(A)		35	44	51	41	43	49	56	61	70	38	44	50	61	62	70	

Note: Toleranzen Tolerances for sound data +/- 2 dB, measured in accordance with EN ISO 9614-2:2009-12 and EN ISO 3744:2011-02

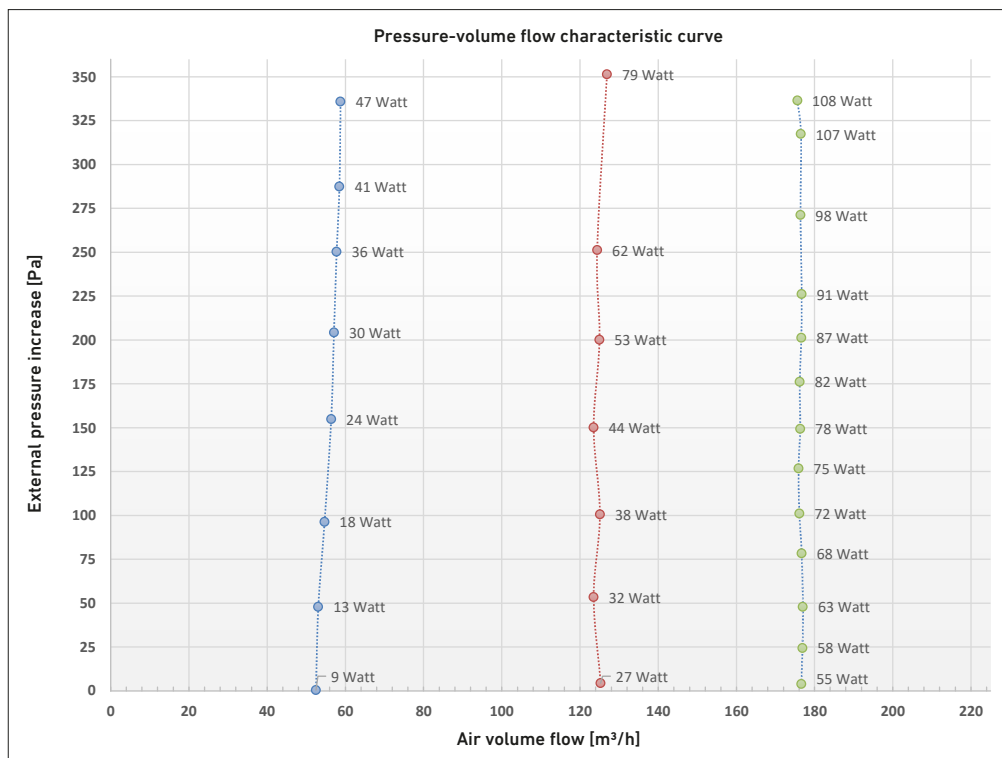
The sound pressure level of the unit always depends on the ambient and installation conditions and must be determined specifically on the basis of the sound power data.

CHARACTERISTIC CURVES - 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

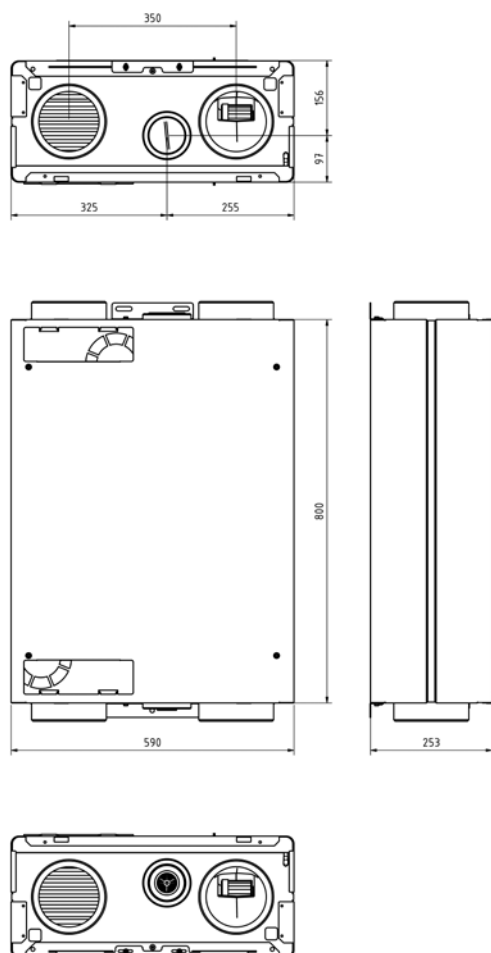
two fans in the supply air and exhaust air as well as the power consumption of the controller into consideration.



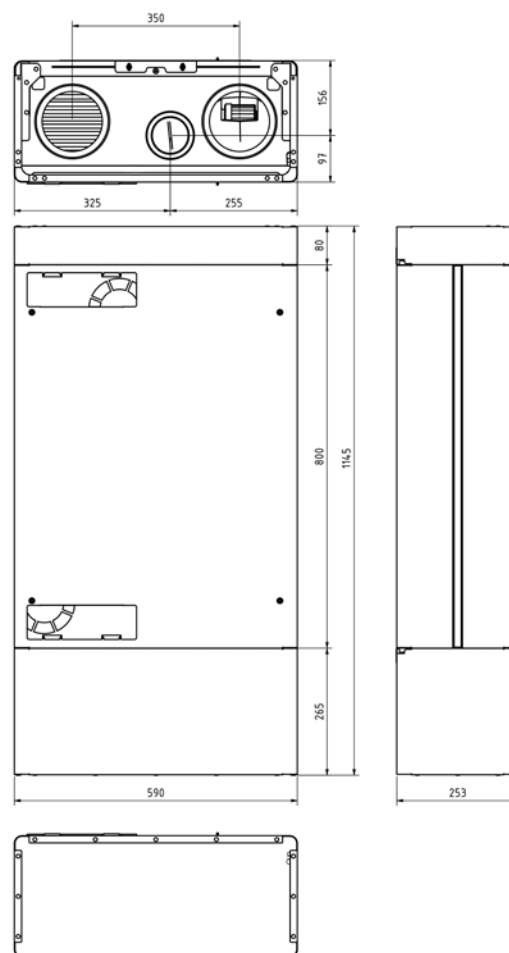
Note: Depending on the installed air duct system, the maximum air volume flow may not be achieved in bypass mode.



UNIT DIMENSIONS



UNIT DIMENSIONS WITH COVER ELEMENT (ACCESSORY)



ACCESSORIES

Article number	Article	Description
40LG030620	Ball siphon 5/4"	HL136.3
08LG175ABDE080A	Cover element supply air/extract air	Standard height 80 mm. Specify the required height when ordering.
08LG175ABDE265A	Cover element outdoor air/exhaust air	Standard height 265 mm
08LG175ERSFSET	Replacement filter set	ISO ePM1 60% / Coarse 80%
07RTRHC0248401	CO ₂ -/humidity sensor Modbus	Surface-mounted; 400-2000ppm
08KNXGAC	Modbus/KNX gateway	for BMS



CONNECTIVITY

The control unit is equipped as standard with a Wi-Fi/BTLE radio module. This means that the ventilation unit can also be operated via the PICHLERluft app.

For registration and connection to the ventilation unit via the PICHLERluft app, the QR code located on the unit below the rating plate is required.



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