WS 170 L



Page 1



Short description

Centralised ventilation unit with very effective heat recovery through cross-counterflow exchanger, EC motors with constant volumetric flow regulation, supply and exhaust air on the left, 4 x DN 125, including RLS 1 WR control unit and mobile control by app, DIBT approval, 40 - 160 m³/h, 23 - 46 m³/h in interval mode, KNX connection possible, 4 x SVR 125 plug connector or 90° B90-125 elbow needed to connect folded spiral-seams ducts (order as accessories)

Application examples

Low-energy house, Single-family house, Passive energy house, Living room, Office

Article number

0095.0278

Technical data

Model	Standard version - left-hand
Number of ventilation levels	4
Air flow volume	40 m³/h - 160 m³/h
Volumetric flow constant	yes
SEC average	-38,6 kWh/(m²*a)
Energy efficiency class	A
Type of voltage	Alternating current
Rated voltage	230 V
Frequency	50 Hz/60 Hz
SPI value in accordance with DIN EN 13141-7 (A7)	0,32 Wh/m³
Power consumption	21 W - 80 W (At 100 Pa counter pressure)
Power consumption in accordance with DIN EN 13141-7 (A7)	35 W
Stand-by power consumption	< 1 W
I _{max}	0,5 A
Degree of protection	IP 00
DIBT approval	yes
PHI certification	No
Installation site	Wall
Installation site	Bathroom / Kitchen / Cellar / Storage tank / Jamb wall / Utility room /
	Heating room / Hall
System type	Centralised
Housing material	Galvanised sheet steel, powder coated
Heat exchanger material	Synthetic material
Inner coating material	Plastic EPP
Colour	Traffic white (RAL 9016)
Weight	37,14 kg
Weight including packaging	41,83 kg
Filter class	ISO Coarse 80 % (G4)
Connection diameter	125 mm

PRODUCTDATA SHEET

WS 170 L



Connection diameter of condensation drain	3/4" hose connection or drain pipe with a diameter of 28 mm
Width	595 mm
Height	820 mm
Depth	375 mm
Width with packaging	640 mm
Height with packaging	990 mm
Depth with packaging	400 mm
Airstream temperature at I _{Max}	-20 °C up to 60 °C
Ambient temperature	10 °C up to 40 °C
Max. degree of heat provision in accordance with DIN EN 13141-7	95 %
(A7)	
Heat exchanger construction type	Cross-counterflow
Position – exhaust air	left
Bypass	No
Frost protection	External
Enthalpy heat exchanger	No
Antifreeze circuit	yes
Summer circuit	Exhaust air / supply air
Filter monitoring	with time control
Humidity control	integrated
CO ₂ regulation	SKD
Air quality control (optional)	EAQ 10/3
KNX connection (optional)	K-SM
MODBUS interface	integrated
Control unit included in scope of delivery.	RLS 1 WR, App
Control unit (optional)	RLS T2 WS, RLS G1 WS
EnOcean wireless integration (optional)	E-SM
Mobile control	yes
Housing emission sound pressure level	42 dB(A) / 45 dB(A) / 47 dB(A) (Spacing 1m, sound absorption 10
	m²)
Packing unit	1 piece
Range	К
GTIN (EAN)	4012799952787

Sound power level in octave range

	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L _{WA2} , Step	22	36	38	38	39	31	20	5	44
1 (dB(A))									
L _{WA5} , Step	25	36	34	34	38	30	18	5	43
1 (dB(A))									
L _{WA6} , Step	25	36	37	35	42	32	20	6	45
1 (dB(A))									
L _{WA2} , Level	20	38	41	40	41	34	23	9	47
2 (dB(A))									

WS 170 L



	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L _{WA5} , Level	26	36	36	36	41	32	19	4	44
2 (dB(A))									
L _{WA6} , Level	26	37	39	37	44	35	23	8	46
2 (dB(A))									
L _{WA2} , Level	23	38	42	43	44	38	26	12	49
3 (dB(A))									
L _{WA5} , Level	18	35	37	37	44	37	22	8	46
3 (dB(A))									
L _{WA6} , Level	23	36	40	39	47	40	25	11	49
3 (dB(A))									

 L_{WA2} = housing sound power level in dB.

 L_{WA5} = free inlet sound power level in dB.

 L_{WA6} = free outlet sound power level in dB.

 L_{WA5} , L_{WA6} = sound power level emitted to the free surroundings. Measured at a subsequent operating point on the connections facing the room. L_{WA5} Exhaust air connections, L_{WA6} Supply air connections.

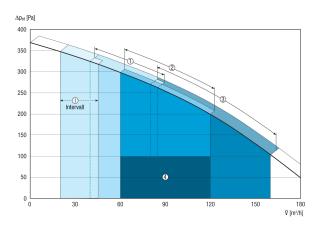
Operating point, level 1: Air volume 70 m³/h and external pressure 100 Pa

Operating point, level 2: Air volume 100 m³/h and external pressure 100 Pa

Operating point, level 3: Air volume 130 m³/h and external pressure 100 Pa

In accordance with DIN 45635, Part 38, April 1986.

Characteristic curve

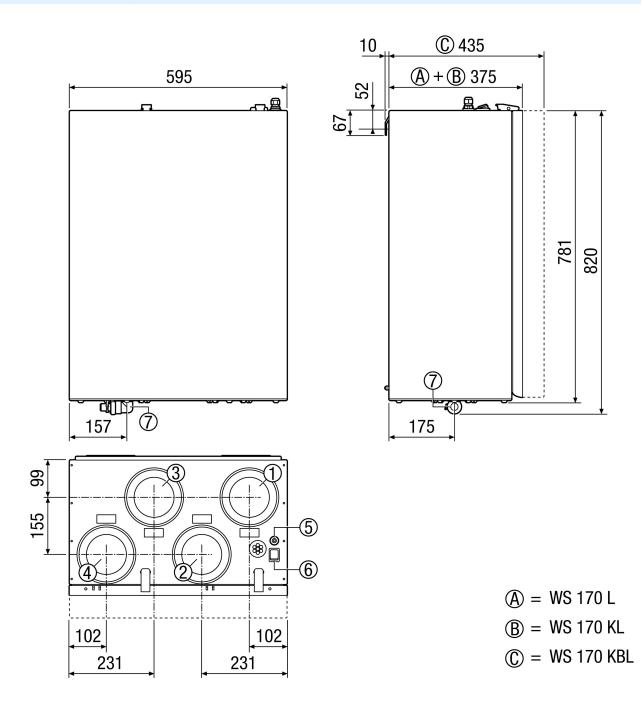


- I Interval / vacation operation for humidity protection
- ① Reduced ventilation
- ② Nominal ventilation
- ③ Intensive / Party operation
- ④ Recommended setting range

WS 170 L

Dimensioned drawing [mm]





- ① DN 125 outgoing air
- 2 DN 125 outside air
- ③ DN 125 exhaust air
- ④ DN 125 supply air
- 5 Cable screw-connection
- 6 Main switch
- \bigcirc Condensation connection