



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 frost protection heating, bypass, RLS 1 WR control unit and mobile control by app, DIBT and passive house approval, 40 - 160 m³/h, 23 - 46 m³/h in interval mode, KNX and EnOcean 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

Technical data

Article number

Model	Bypass model, left
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 (With active 4 A frost protection heating)
Degree of protection	IP 00
DIBT approval	yes
PHI certification	yes
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	44,9 kg
Weight including packaging	49,73 kg
Filter class	ISO Coarse 80 % (G4) / ISO ePM1 55 % (F7)
Connection diameter	125 mm

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Depth595 mmWidh with packaging455 mmHeight with packaging990 mmDepth with packaging640 mmDepth with packaging640 mmAirstream temperature at hate-20 °C up to 60 °CAmbient temperature10 °C up to 40 °CAmbient temperature95 %(A7)-Heat exchanger construction typeCross-counterflowPower of preheating register0,74 kWPosition – exhaust airleftBypasintegratedPostion – exhaust airintegratedStrot protectionintegratedAntifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHuridity control (optional)K-SMAir quality control (optional)K-SMKNX connection (optional)K-SMMoDBUS interfaceintegratedMobile controlyesCorcen wireless integration (optional)K-SMAndredSize SupplementAndredSize SupplementAndredSize SupplementAndredSize SupplementAndredSize SupplementAir quality control (optional)K-SMConcrol unit included in scope of delivery.RLS 1VW, AppControl unit included in scope of delivery.Size SupplementAndredjeacAndredjeacAndredSize SupplementAndredSize SupplementAndredSize SupplementAir quality cont	Connection diameter of condensation drain	3/4" hose connection or drain pipe with a diameter of 28 mm
Deph955 mmWidh with packaging455 mmHeight with packaging990 mmDeph with packaging640 mmAirstream temperature at lyax-20 °C up to 60 °CAmbient temperature at lyax10 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141-370 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141-370 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141-370 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141-370 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141-370 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141-370 °C up to 40 °CPower of preheating register0,74 kWPower of preheating register0,74 kWPostion – exhaust airleftBypasyesFrost protectionintegratedAntfreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHuridy control (optional)KSMAir quality control (optional)KSMKN2 connection (optional)KSMMODBUS InterfaceintegratedControl unit included in scope of delivery.RLS1 VW, AppControl unit included in scope of delivery.S2 MGA/34 dB(A)/35 dB(A) (Spacing 1m, sound absorption 1m ³ Packing unit32 dB(A)/34 dB(A)/35 dB(A) (Spacing 1m, sound absorption 1m ³ Packing unit1 piece	Width	435 mm
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Height with packaging990 mmDepth with packaging640 mmAirstream temperature at I _{Max} -20 °C up to 60 °CAmbient temperature10 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141795 %(A7)95 %Heat exchanger construction typeCross-counterflowPower of preheating register0,74 kWPostion – exhaust airIeftBypassyesFrost protectionintegratedEnthalpy heat exchangerNoAntifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHumidity control (optional)KSDCortor Junit included in scope of delivery.RLS 10%, AppControl unit included in scope of delivery.RLS 10%, AppControl unit included in scope of delivery.E-SMHobile controlyesPolice and wireless integration (optional)RLS 10%, AppControl unit included in scope of delivery.E-SMControl unit included in scope of delivery.E-SMHobile controlyesPolice and wireless integration (optional)Scope of generation (optional)Mobile controlScope of generation (optional)Police and wireless integration (optional)Scope of generation (Depth	595 mm
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(A7)Image: Construction typeHeat exchanger construction typeCross-counterflowPower of preheating register0,74 kWPosition – exhaust airleftBypassyesFrost protectionintegratedEnthalpy heat exchangerNoAntifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHumidity controlintegratedCo2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMOBBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)E-SMMobile controlyesPacking unit32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m ² Packing unitKRangeK	Ambient temperature	10 °C up to 40 °C
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Housing emission sound pressure level 32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m ²) Packing unit 1 piece Range K	EnOcean wireless integration (optional)	E-SM
m²) Packing unit 1 piece Range K	Mobile control	yes
Packing unit 1 piece Range K	Housing emission sound pressure level	32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 10
Range K		m²)
	Packing unit	1 piece
GTIN (EAN) 4012799950882	Range	κ
	GTIN (EAN)	4012799950882

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	23	29	28	28	26	20	14	4	34
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))									



	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L _{WA2} , Level	27	28	29	29	28	21	15	3	36
2 (dB(A))									
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	22	29	32	31	30	23	17	4	37
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.

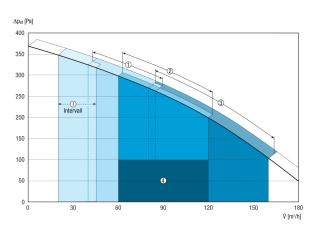
Operating point, level 1: Air volume 70 m³/h and external pressure 100 Pa

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.

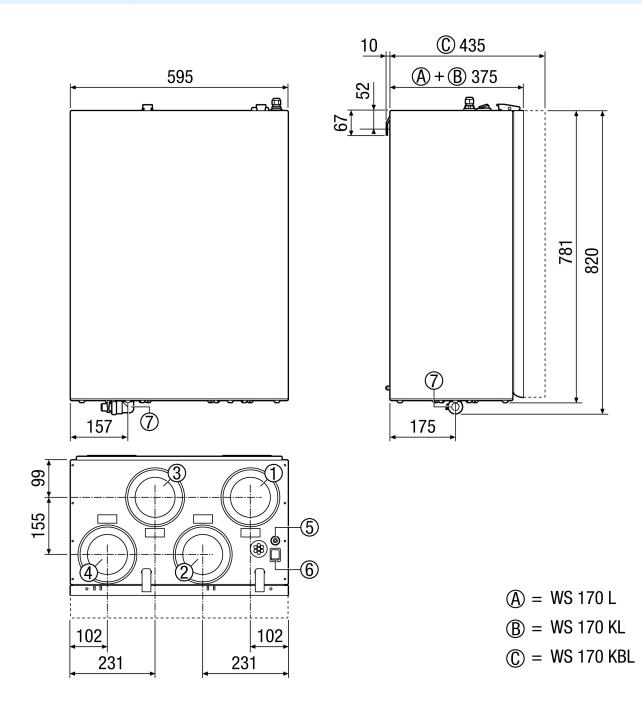
Characteristic curve



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

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