



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 |
| Widh with packaging455 mmHeight with packaging900 mmDepth with packaging640 mmAirstean temperature at Max-20 °C up to 60 °CAmbient temperature at Max10 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314136 % %Max. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMax. degree of heat provision in accordance with DINE N1 314170 °C up to 40 °CMover of proheating registerCorescouterflowPower of preheating register70 °C up to 40 °CPower of proheating register16tPower of proheating register90 °CPost protection10 °CAuffreeze circuit90 °CSummer circuit10 °CFlatre monitoring10 °CWild worthol (optional)KSMCorrection (optional)KSMKN2 concetion (optional)KSMMoDEUS Interface10 °CMobile control90 °CCorred unit included in scope of delivery.FSMCorred unit included in scope of delivery.10 °CCored unit included in scope of delivery.1 | Height | 820 mm |
| 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 |
| Depth with packaging640 mmAirstream temperature at I _{Max} -20 °C up to 60 °CAmbient temperature0 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 13141795 %(A7) | Width with packaging | 455 mm |
| Airstream temperature at IMax-20 °C up to 60 °CAmbient temperature10 °C up to 40 °CMax. degree of heat provision in accordance with DIN EN 131417 (A7)95 %Heat exchanger construction typeCross-counterflowPower of preheating register0.74 kWPostion – exhaust airIettBypassintegratedFrost protectionintegratedAntifreeze circuityesSummer circuityesSummer circuitintegratedPouly outrol (optional)KKDAir quality control (optional)KSMKNX connection (optional)KSMControl unit included in scope of delivery.RLS 12W, RAppControl unit (optional)SSAir Stagen wineless integration (optional)RLS 12W, RAppControl unit included in scope of delivery.SAMAnderseSAMPolosin wineless integration (optional)SSAbile controlYesAndreadeSature (SAM) (Spacing 1m, sound absorption 1 m ² Polosin genison sound pressure level2 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m ² Packing unitA pieceRangeK | Height with packaging | 990 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 |
| Heat exchanger construction typeCross-counterflowPower of preheating register0,74 kWPosition – exhaust airleftBypassyesFrost protectionintegratedEnthalpy heat exchangerNoAntifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHumidity controlintegratedCo2 regulationSKDAti quality control (optional)KXSMOBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)SKDEnCean wireless integration (optional)SeSMMobile controlyesPacking unit32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m ²)Packing unitA jieceRangeK | Max. degree of heat provision in accordance with DIN EN 13141-7 | 95 % |
| Power of preheating register 0,74 kW Position – exhaust air left Bypass yes Frost protection integrated 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) E-SM Mobile control yes Housing emission sound pressure level 32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1m²) Packing unit 1 piece Range K | (A7) | |
| Position – exhaust air left Bypass yes Frost protection integrated Enthalpy heat exchanger No Antifreeze circuit yes Summer circuit Exhaust air / supply air Filter monitoring with time control Humidity control integrated Co2 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) E-SM Mobile control yes 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 | Heat exchanger construction type | Cross-counterflow |
| Bypass yes Frost protection integrated Enthalpy heat exchanger No Antifreeze circuit yes Summer circuit Exhaust air / supply air Filter monitoring with time control Humidity control integrated CO2 regulation SKD Arti quality control (optional) EAQ 10/3 KNX connection (optional) K-SM Otopul in included in scope of delivery. RLS 1 WR, App Control unit (optional) E-SM Mobile control yes Housing emission sound pressure level 32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1m) Packing unit 1 piece Range K | Power of preheating register | 0,74 kW |
| Frost protectionintegratedEnthalpy heat exchangerNoAntifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHumidity controlintegratedCO2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)E-SMMobile control92Packing unit32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1m²)Packing unit1 pieceRangeK | Position – exhaust air | left |
| Enthalpy heat exchangerNoAntifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHumidity controlintegratedCO2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)E-SMEnOcean wireless integration (optional)E-SMMobile controlyesPacking unit1 pieceRangeK | Bypass | yes |
| Antifreeze circuityesSummer circuitExhaust air / supply airFilter monitoringwith time controlHumidity controlintegratedCO2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)E-SMEnOcean wireless integration (optional)E-SMMobile controlyesPacking unit1 pieceRangeK | Frost protection | integrated |
| Summer circuitExhaust air / supply airFilter monitoringwith time controlHumidity controlintegratedCO2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)E-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m²)Packing unit1 pieceRangeK | Enthalpy heat exchanger | No |
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| Humidity controlintegratedCO2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)RLS 12 WS, RLS G1 WSEnOcean wireless integration (optional)E-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m²)Packing unitI pieceRangeK | Summer circuit | Exhaust air / supply air |
| CO2 regulationSKDAir quality control (optional)EAQ 10/3KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)RLS 72 WS, RLS G1 WSEnOcean wireless integration (optional)F-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1m²Packing unitI pieceRangeK | Filter monitoring | with time control |
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| KNX connection (optional)K-SMMODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)RLS 72 WS, RLS G1 WSEnOcean wireless integration (optional)E-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m²Packing unit1 pieceRangeK | CO ₂ regulation | SKD |
| MODBUS interfaceintegratedControl unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)RLS T2 WS, RLS G1 WSEnOcean wireless integration (optional)E-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m²)Packing unit1 pieceRangeK | Air quality control (optional) | EAQ 10/3 |
| Control unit included in scope of delivery.RLS 1 WR, AppControl unit (optional)RLS T2 WS, RLS G1 WSEnOcean wireless integration (optional)E-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m²)Packing unit1 pieceRangeK | KNX connection (optional) | K-SM |
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| EnOcean wireless integration (optional)E-SMMobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1m²)Packing unit1 pieceRangeK | Control unit included in scope of delivery. | RLS 1 WR, App |
| Mobile controlyesHousing emission sound pressure level32 dB(A) / 34 dB(A) / 35 dB(A) (Spacing 1m, sound absorption 1 m²)Packing unit1 pieceRangeK | Control unit (optional) | RLS T2 WS, RLS G1 WS |
| 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.

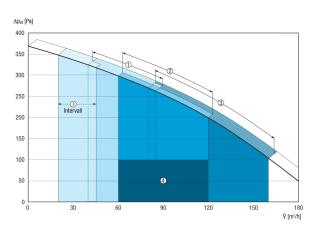
Operating point, level 1: Air volume 70 m³/h and external pressure 100 Pa

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.

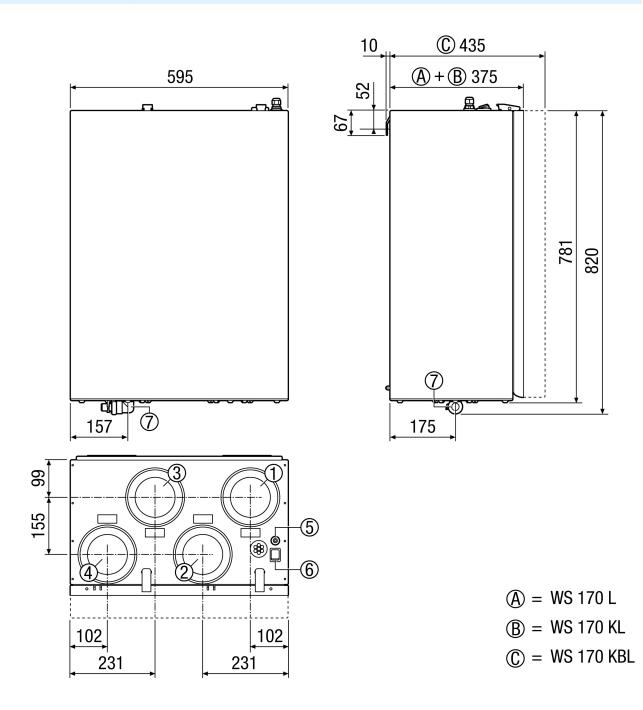
Characteristic curve



- 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