



#### Short description

Centralised, highly-efficient ventilation units with EC fans and constant volumetric flow regulation, including bypass and enthalpy cross-counterflow exchanger, supply and exhaust air on right, air volume 80 - 470 m<sup>3</sup>/h, connection diameter 4 x DN 160, 4 x SVR 160 plug connectors or 90° B90-160 elbow needed to connect folded spiral-seams ducts (order as accessories), including RLS 1 WR control unit, including integrated web server and MAICO app (air@home) for mobile unit control, live reports via web tool, DIBT approval applied for and passive house certificate, KNX and EnOcean connection possible

### Application examples

Low-energy house, Living room

## Technical data

Article number

|  | 00   |  |  |  |
|--|--|--|--|--|
| Air flow volume  | 80 m <sup>3</sup> /h - 470 m <sup>3</sup> /h |  |  |  |
| SEC average  | -36,3 kWh/(m²*a)                             |  |  |  |
| Energy efficiency class                                  | A  |  |  |  |
| Type of voltage  | Alternating current                          |  |  |  |
| Rated voltage  | 230 V  |  |  |  |
| Frequency  | 50 Hz/60 Hz                                  |  |  |  |
| Power consumption in accordance with DIN EN 13141-7 (A7) | 85 W   |  |  |  |
| Stand-by power consumption                               | < 1 W  |  |  |  |
| l <sub>max</sub>   | 2 A  |  |  |  |
| Degree of protection                                     | IP 40  |  |  |  |
| DIBT approval  | yes  |  |  |  |
| PHI certification  | yes  |  |  |  |
| SPI value  | 0,28 Wh/m³                                   |  |  |  |
| Installation site  | floor / wall                                 |  |  |  |
| 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   | 73 kg  |  |  |  |
| Weight including packaging                               | 80 kg  |  |  |  |
| Filter class   | ISO Coarse 85 % (G4) / ISO ePM1 80 % (F7)    |  |  |  |
| Connection diameter                                      | 160 mm                                       |  |  |  |
| Connection diameter of condensation drain                | 1 1/2" (screen valve)                        |  |  |  |
| Width  | 841 mm                                       |  |  |  |
| Height   | 857 mm                                       |  |  |  |
| Depth  | 598 mm                                       |  |  |  |
| Width with packaging                                     | 900 mm                                       |  |  |  |
| Height with packaging                                    | 1.120 mm                                     |  |  |  |

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| Depth with packaging  | 650 mm   |  |  |  |  |
|---|--|--|--|--|--|
| Airstream temperature at I <sub>Max</sub>                         | -20 °C up to 40 °C   |  |  |  |  |
| Max. degree of heat provision in accordance with DIN EN 13141-7   | 93 %   |  |  |  |  |
| (A7)  |  |  |  |  |  |
| Heat exchanger construction type                                  | Enthalpy cross-counterflow                                 |  |  |  |  |
| Humidity recovery with enthalpy heat exchanger in accordance with | 60 %   |  |  |  |  |
| DIN EN 13141-7 (A2)   |  |  |  |  |  |
| Position – exhaust air  | right  |  |  |  |  |
| Bypass  | yes  |  |  |  |  |
| Frost protection  | No   |  |  |  |  |
| Enthalpy heat exchanger   | yes  |  |  |  |  |
| Antifreeze circuit  | yes  |  |  |  |  |
| Summer circuit  | ECO exhaust air / ECO supply air                           |  |  |  |  |
| Filter monitoring   | with time control  |  |  |  |  |
| Humidity control  | integrated   |  |  |  |  |
| CO <sub>2</sub> 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) (Spacing 1m, sound absorption 10 m <sup>2</sup> ) |  |  |  |  |
| Packing unit  | 1 piece  |  |  |  |  |
| Range   | к  |  |  |  |  |
| GTIN (EAN)  | 4012799952732  |  |  |  |  |

## Sound power level in octave range

|                          | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz | Total |
|--------------------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|
| L <sub>WA2</sub> (dB(A)) | 30    | 38     | 43     | 46     | 46    | 38    | 27    | 20    | 50    |
| L <sub>WA5</sub> (dB(A)) | 43    | 44     | 41     | 41     | 45    | 37    | 28    | 14    | 50    |
| L <sub>WA6</sub> (dB(A)) | 50    | 55     | 56     | 55     | 55    | 41    | 36    | 35    | 62    |

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

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

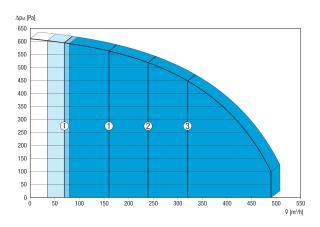
 $L_{WA6}$ = free outlet sound power level in dB.

 $L_{WA5}$ ,  $L_{WA6}$  = 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: Reference volumetric flow 340 m³/h and external pressure 50 Pa







The figures shown indicate the preset ventilation levels ("factory settings").

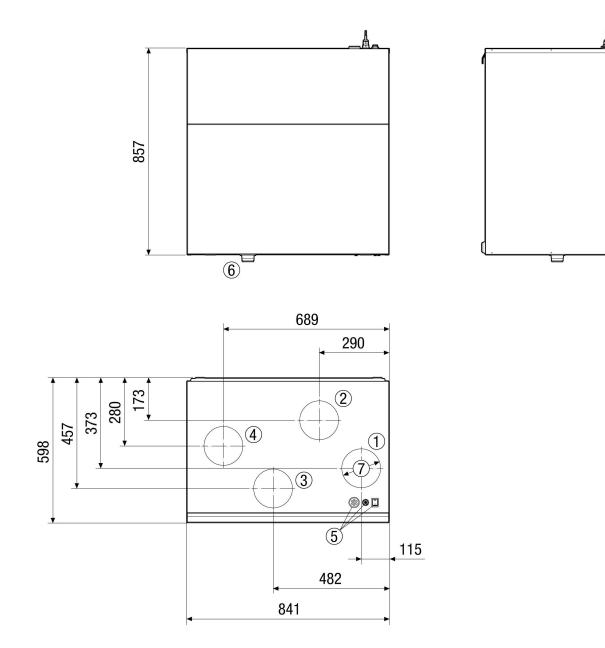
- $1 = 160 \text{ m}^3/\text{h}$ , reduced ventilation (RV)
- $2 = 240 \text{ m}^3/\text{h}$ , nominal ventilation (NV)
- $3 = 320 \text{ m}^3/\text{h}$ , intensive ventilation (IV)
- I = Interval or "humidity protection operation" depending on RV

Individual settings available:

- RV = 80 m<sup>3</sup>/h 470 m<sup>3</sup>/h
- NV = 80 m³/h 470 m³/h
- IV = 80 m³/h 470 m³/h
- Essential condition: RV < NV < IV !

Dimensioned drawing [mm]





- ① DN 160 supply air
- 2 DN 160 exhaust air
- ③ DN 160 outside air
- ④ DN 160 outgoing air
- ⑤ Unit switches / electric connections
- 6 Condensation drain
- ⑦ for DN 160 plug connector