PRODUCTDATA SHEET

WR 410 R





Article number

0095.0261

Short description

Centralised, highly-efficient ventilation units with EC fans and constant volumetric flow regulation, including crosscounterflow exchanger, supply and exhaust air on right, air volume 80 - 470 m³/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

80 m³/h - 470 m³/h
-39,5 kWh/(m²*a)
A
Alternating current
230 V
50 Hz/60 Hz
87 W
< 1 W
2 A
IP 40
yes
yes
0,28 Wh/m³
floor / wall
Centralised
Galvanised sheet steel, powder coated
Synthetic material
Plastic EPP
Traffic white (RAL 9016)
64,2 kg
77,09 kg
ISO Coarse 85 % (G4) / ISO ePM1 80 % (F7)
160 mm
1 1/2" (screen valve)
841 mm
857 mm
598 mm
598 mm 900 mm

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Depth with packaging	650 mm
Airstream temperature at I _{Max}	-20 °C up to 40 °C
Max. degree of heat provision in accordance with DIN EN 13141-7	96 %
(A7)	
Heat exchanger construction type	Cross-counterflow
Position – exhaust air	right
Bypass	No
Frost protection	No
Enthalpy heat exchanger	No
Antifreeze circuit	yes
Summer circuit	ECO exhaust air / ECO 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) (Spacing 1m, sound absorption 10 m ²)
Packing unit	1 piece
Range	К
GTIN (EAN)	4012799952619

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} (dB(A))	30	38	43	46	46	38	27	20	50
L _{WA5} (dB(A))	43	44	41	41	45	37	28	14	50
L _{WA6} (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.

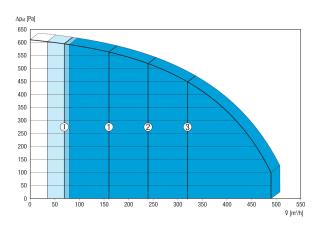
 L_{WA5} , L_{WA6} = sound power level emitted to the free surroundings. Measured at a subsequent operating point on the connections facing the room. L_{WA5} Exhaust air connections, L_{WA6} Supply air connections.

Operating point: Reference volumetric flow 340 m³/h and external pressure 50 Pa

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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

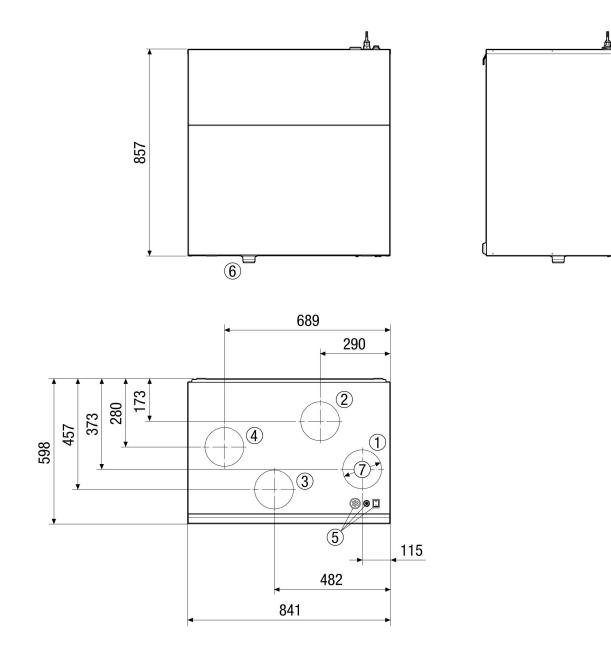
Individual settings available:

- RV = 80 m³/h 470 m³/h
- NV = 80 m³/h 470 m³/h
- IV = 80 m³/h 470 m³/h
- Essential condition: RV < NV < IV !

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Dimensioned drawing [mm]





- ① DN 160 supply air
- ② DN 160 exhaust air
- $\ensuremath{\textcircled{}}$ DN 160 outside air
- ④ DN 160 outgoing air
- ⑤ Unit switches / electric connections
- ⑥ Condensation drain
- \oslash for DN 160 plug connector