



Article number

0095.0094

Short description

Centralised, highly-efficient ventilation units with EC fans and constant volumetric flow regulation, including preheating register, bypass, zone shutter and enthalpy cross-counterflow exchanger, 2 supply air connections (left and right) and 1 exhaust air connection (centre), air volume 40 - 160 m³/h, connection diameter 4 x DN 125, 4 SVR 125 plug connectors or 90° B90-125 elbow needed to connect folded spiral-seams ducts (order as accessories), the DN160 folded spiral-seam duct can also be placed directly on the EPP connection, 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 and passive house certificate, KNX and EnOcean connection possible

Application examples

Low-energy house, Living room

Technical data

Model	Comfort bypass zones model			
Number of ventilation levels	4			
Air flow volume	40 m³/h - 160 m³/h			
Volumetric flow constant	yes			
SEC average	-34,1 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)	0,34 Wh/m³			
Power consumption in accordance with DIN EN 13141-7 (A7)	36 W			
I _{max}	4,6 A			
Degree of protection	IP 00			
DIBT approval	yes			
PHI certification	yes			
Installation site	Wall / ceiling			
Installation site	Bathroom / Kitchen / Cellar / Storage tank / Jamb wall / Utility room /			
	Heating room / Hall			
System type	Centralised			
Housing material	Plastic EPP/sheet steel			
Heat exchanger material	Synthetic material			
Inner coating material	Plastic EPP			
Colour	black / traffic white			
Weight	26,5 kg			
Weight including packaging	32 kg			
Filter class	ISO Coarse 80 % (G4) / ISO ePM1 55 % (F7)			
Connection diameter	125 mm / 160 mm			



Connection diameter of condensation drain	not required			
Width	582 mm			
Height	230 mm			
Depth	1.260 mm			
Width with packaging	710 mm			
Height with packaging	245 mm			
Depth with packaging	1.365 mm			
Airstream temperature at I _{Max}	-20 °C up to 50 °C			
Degree of heat provision	84 %			
Max. degree of heat provision in accordance with DIN EN 13141-7	76 %			
(A7)				
Heat exchanger construction type	Enthalpy cross-counterflow			
Humidity recovery with enthalpy heat exchanger in accordance with	53 %			
DIN EN 13141-7 (A2)				
Power of preheating register	0,7 kW			
Position – exhaust air	left/right			
Bypass	yes			
Frost protection	integrated			
Zone shutter	yes			
Enthalpy heat exchanger	yes			
Antifreeze circuit	yes			
Summer circuit	ECO exhaust air / ECO supply air			
Filter monitoring	time-controlled (controlled by differential pressure as option)			
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	37 dB(A) (Spacing 1m, sound absorption 10 m ²)			
Approval number	Z-51.4-376			
Packing unit	1 piece			
Range	к			
GTIN (EAN)	4012799950943			

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))	-	24	31	34	36	29	18	6	45
L _{WA5} (dB(A))	39	42	44	40	31	17	10	3	52
L _{WA6} (dB(A))	39	42	43	40	39	20	15	4	53



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

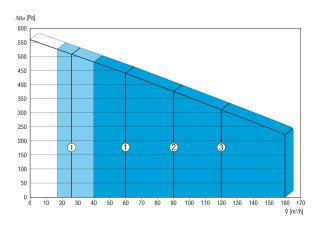
 L_{WA5} = free inlet sound power level in dB.

 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 112 m³/h and external pressure 50 Pa

Characteristic curve



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

 $1 = 60 \text{ m}^3/\text{h}$, reduced ventilation (RV)

 $2 = 90 \text{ m}^3/\text{h}$, nominal ventilation (NV)

 $3 = 120 \text{ m}^3/\text{h}$, intensive ventilation (IV)

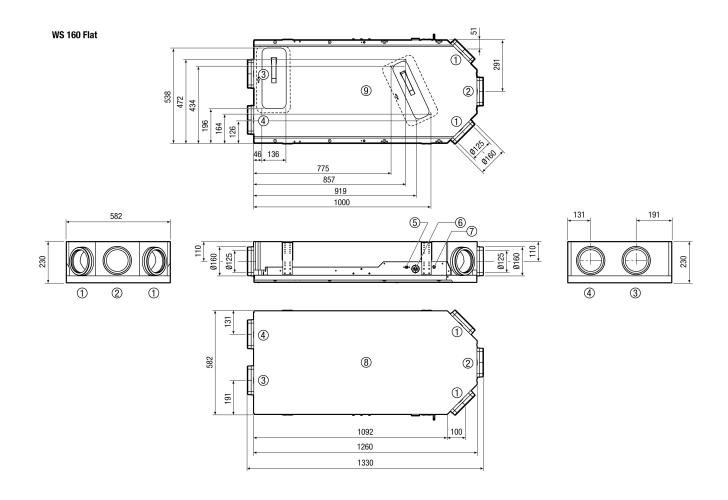
I = Interval or "humidity protection operation" depending on RV $\,$

Individual settings available: $RV = 40 \text{ m}^3/\text{h} - 160 \text{ m}^3/\text{h}$ $NV = 40 \text{ m}^3/\text{h} - 160 \text{ m}^3/\text{h}$ $IV = 40 \text{ m}^3/\text{h} - 160 \text{ m}^3/\text{h}$

Essential condition: RV < NV < IV !



Dimensioned drawing Left-hand version [mm]



- ① DN 125 / DN 160 supply air
- 2 DN 125 / DN 160 exhaust air
- ③ DN 125 / DN 160 outside air
- ④ DN 125 / DN 160 outgoing air
- ⑤ USB connection
- 6 Cable feedthrough
- ⑦ Electric connections
- ⑧ View from above
- ⑨ View from below

Dimensions, for right-hand version see www.maico-ventilatoren.com