



Article number

0095.0093

#### Short description

Centralised, highly-efficient ventilation units with EC fans and constant volumetric flow regulation, including preheating register, bypass and enthalpy cross-counterflow exchanger, 2 supply air connections (left and right) and 1 exhaust air connection (centre), air volume 40 - 160 m<sup>3</sup>/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 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/m <sup>3</sup>			
Power consumption in accordance with DIN EN 13141-7 (A7)	36 W			
I <sub>max</sub>	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			

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## 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))	-	24	31	34	36	29	18	6	45
L <sub>WA5</sub> (dB(A))	39	42	44	40	31	17	10	3	52
L <sub>WA6</sub> (dB(A))	39	42	43	40	39	20	15	4	53

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



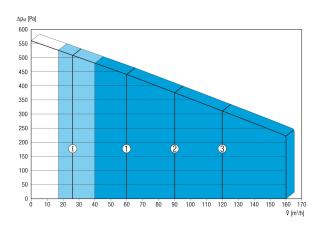
 $L_{WA5}$ = free inlet sound power level in dB.

 $L_{WA6}$ = 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  $\ensuremath{\text{m}^3/\text{h}}$  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 m<sup>3</sup>/h, intensive ventilation (IV) I = Interval or "humidity protection operation" depending

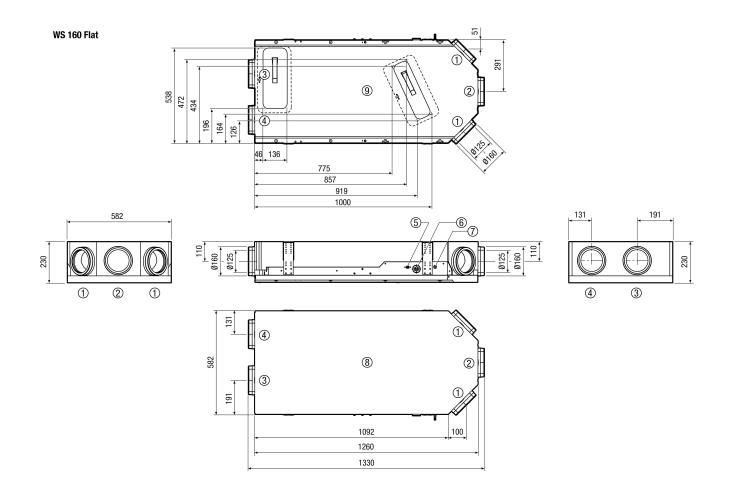
on RV

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