



Article number

0095.0143

Short description

Centralised, highly-efficient ventilation units with EC fans, constant volumetric flow regulation, including bypass and two enthalpy cross-counterflow exchangers, supply and exhaust air on left (in ceiling installation position, view of electronic compartment), volumetric flow 80 - 300 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 MAI-CO app (air@home) for mobile unit control, live reports via web tool, DIBT approval, KNX/Modbus and EnOcean connection possible

Application examples

Low-energy house, Living room

Technical data

Model	Bypass model, left			
Air flow volume	80 m³/h - 300 m³/h			
SEC average	-39,47 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)	0,18 Wh/m³			
Power consumption in accordance with DIN EN 13141-7 (A7)	39 W			
Stand-by power consumption	< 1 W			
I _{max}	1,5 A			
Degree of protection	IP 00			
DIBT approval	yes			
PHI certification	No			
Installation site	Wall / ceiling			
System type	Centralised			
Housing material	Plastic EPP/sheet steel			
Heat exchanger material	Synthetic material			
Inner coating material	Plastic EPP			
Colour	black / traffic white			
Weight	42 kg			
Weight including packaging	46,63 kg			
Filter class	ISO Coarse 80 % (G4) / ISO ePM1 60 % (F7)			
Connection diameter	160 mm			
Width	700 mm			
Height	300 mm			
Depth	1.500 mm			
Width with packaging	750 mm			
Height with packaging	305 mm			



Depth with packaging	1.530 mm			
Airstream temperature at I _{Max}	-20 °C up to 50 °C			
Max. degree of heat provision in accordance with DIN EN 13141-7	91 %			
(A7)				
Heat exchanger construction type	Enthalpy cross-counterflow			
Humidity recovery with enthalpy heat exchanger in accordance with	82 %			
DIN EN 13141-7 (A2)				
Position – exhaust air	left			
Bypass	yes			
Frost protection	No			
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 m²)			
Packing unit	1 piece			
Range	κ			
GTIN (EAN)	4012799951438			

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))	-	33	41	41	41	35	26	14	46,5
L _{WA5} (dB(A))	44	41	41	35	35	21	16	-	47,5
L _{WA6} (dB(A))	47	50	51	53	54	50	47	38	59,4

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

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

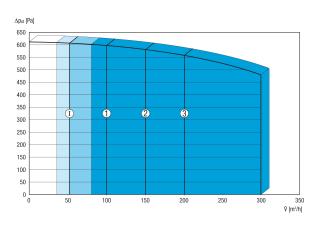
 L_{WA6} = free outlet sound power level in dB.

 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 210 m³/h and external pressure 50 Pa



Characteristic curve



The figures shown indicate the pre-set ventilation levels ("factory settings").

1 = 100 m³/h, reduced ventilation (RV)

2 = 150 m³/h, nominal ventilation (NV)

3 = 200 m³/h, intensive ventilation (IV)

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

Individual settings available:

 $RV = 80 \text{ m}^3/\text{h} - 300 \text{ m}^3/\text{h}$

 $NV = 80 \text{ m}^3/\text{h} - 300 \text{ m}^3/\text{h}$

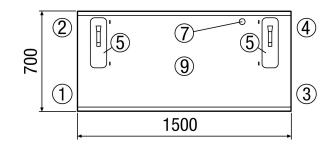
 $IV = 80 \text{ m}^3/\text{h} - 300 \text{ m}^3/\text{h}$

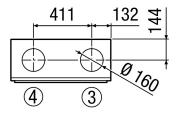
Essential condition: RV < NV < IV!

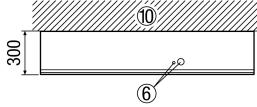


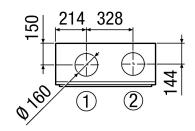
Dimensioned drawing [mm]

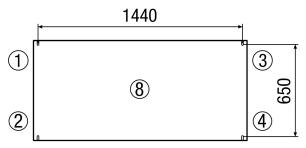
Linksversion











- ① Supply air
- ② Exhaust air
- 3 Outgoing air
- 4 Outside air5 Filter cover
- Electric connections
- USB connection
- 8 View from above
- 9 View from below
- © Ceiling / wall