

RLT 1600 MV4516HR-Mode 5



Short description

Centralised compact air handling unit with heat recovery.
Version: Horizontal with supply and exhaust air connection on the right demand-driven, constant volumetric flow operation via CO² sensor, with cross-counterflow heat exchanger, without preheating register, without supplementary heat register, air flow volume up to 1600 m³/h

Article number 0040.2758

Technical data

Model	Right-hand version: Supply air and exhaust air connection on the right / Standard/without heat register
Air flow volume	250 m ³ /h / 2.600 m ³ /h
Nominal air volume	1.600 m ³ /h
ErP / LOT 6	NRVU / BVU, SFPint 1045 (W/(m ³ /s))
Mode	CO ₂ demand-driven
Rated voltage	400 V/~3/N/PE
Frequency	50 Hz
I _{max} Unit	7,1 A
Degree of protection	IP 44
Recommended fuse unit	16 A
Nominal power consumption	464 W
Note Nominal power consumption	against 200 Pa external
Installation site	inside / outside
Material	Metal
Housing material	Sheet steel, galvanised
Housing insulation	45 mm rock wool (70 kg/m ³), classification A1 according to DIN 4102
Colour	Telegray, similar to RAL 7047
Weight	299 kg
Weight including packaging	435 kg
Type of filter	Pleated filter
Filter class	ISO ePM10 ≥ 50% (M5) ISO ePM1 ≥ 50% (F7)
Fire protection	Fire protection class A1
Connection diameter of condensation drain	3/4"
Socket height, suction side	490 mm
Socket width, suction side	460 mm
Socket circumference, suction side	
Socket circumference, suction side, old	400 mm
Socket height, pressure side	490 mm

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Socket width, pressure side	460 mm
Socket circumference, pressure side	
Socket circumference, pressure side, old	400 mm
Width	2.250 mm
Height	780 mm
Depth	1.395 mm
Width with packaging	2.370 mm
Height with packaging	940 mm
Depth with packaging	1.350 mm
Ambient temperature	-20 °C up to 40 °C
Heat exchanger construction type	Cross-counterflow
Efficiency	80.1% nominal according to ErP (without condensation)
EN 1886 classification	T2/TB2/L2/D1/F9
Packing unit	1 piece
Range	X
GTIN (EAN)	4012799984023

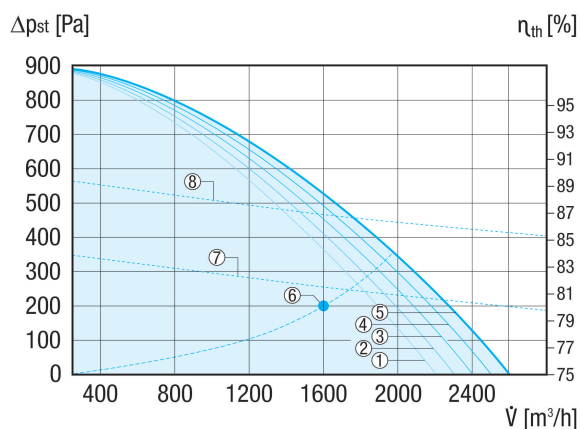
Sound power level in octave range

	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L_{WA5} (dB(A))	33	52	50	48	47	40	35	15	56
L_{WA6} (dB(A))	40	58	55	58	60	59	52	41	65

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

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

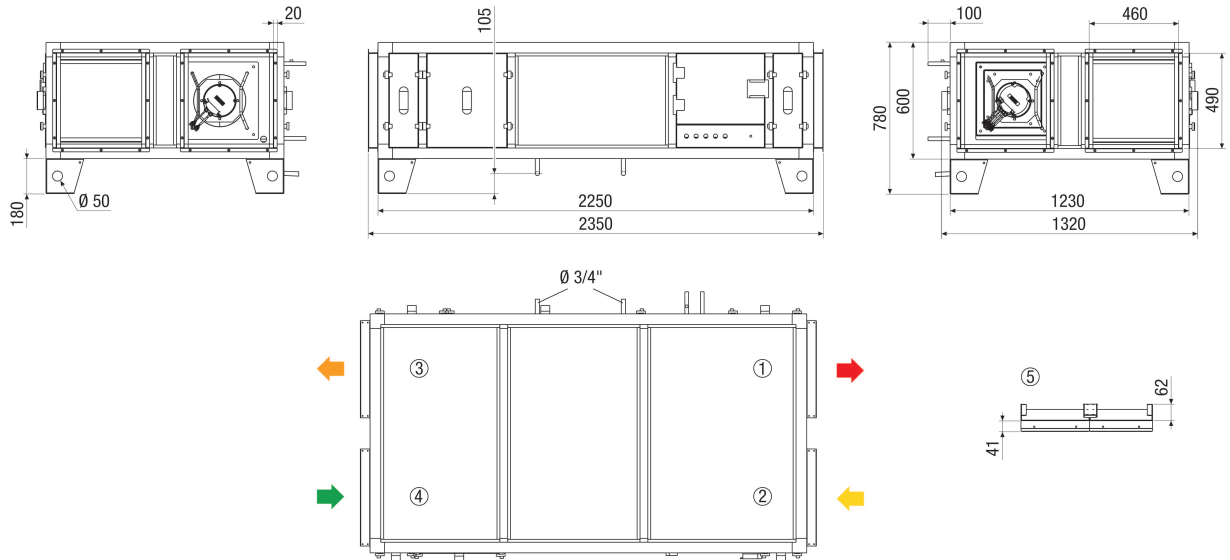
Characteristic curve



- 1) With electric preheating register [PH] and electric supplementary heat register [EH]
- 2) With electric preheating register [PH] and PWW supplementary heat register [WH]
- 3) With electric preheating register [PH] or electric supplementary heat register [EH]
- 4) With PWW supplementary heat register [WH]
- 5) Without heat register
- 6) Operating point in accordance with ErP (EU Regulation No. 1253/2014)
- 7) Thermal efficiency (according to ErP without condensation)
- 8) Thermal efficiency (according to DIN EN 13141-7 (A7) with condensation)

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Dimensioned drawing [mm]



- 1 = Supply air
- 2 = Exhaust air
- 3 = Outgoing air
- 4 = Outside air
- 5 = Roof detail

Information: For ceiling installation, the ceiling mounting kit is used instead of the feet. In this case, the overall height is reduced by the mounting height of the feet (100 mm).