

RLT 1600 MV4516VR-Mode 3



Short description

Centralised compact air handling unit with heat recovery.
Version: Vertical with supply and exhaust air connection on the right, , constant pressure operation, with cross-counter-flow heat exchanger, without preheating register, without supplementary heat register, air flow volume up to 1600 m³/h

Article number 0040.2578

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	Pressure constancy
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	311 kg
Weight including packaging	440 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	470 mm
Socket width, suction side	490 mm
Socket circumference, suction side	
Socket circumference, suction side, old	400 mm
Socket height, pressure side	470 mm

RLT 1600 MV4516VR-Mode 3

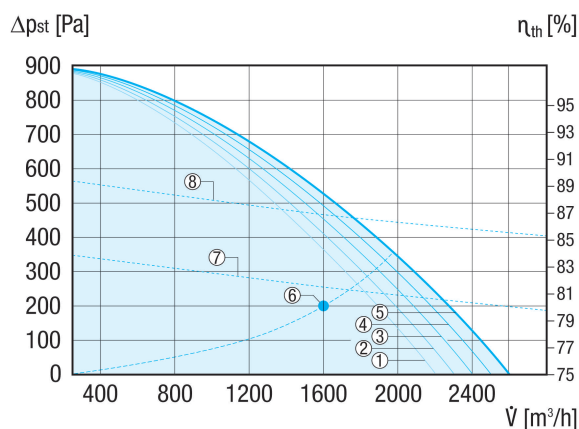
Socket width, pressure side	490 mm
Socket circumference, pressure side	
Socket circumference, pressure side, old	400 mm
Width	2.250 mm
Height	1.410 mm
Depth	735 mm
Width with packaging	2.370 mm
Height with packaging	1.470 mm
Depth with packaging	820 mm
Ambient temperature	-20 °C up to 40 °C
Heat exchanger 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)	4012799982227

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.

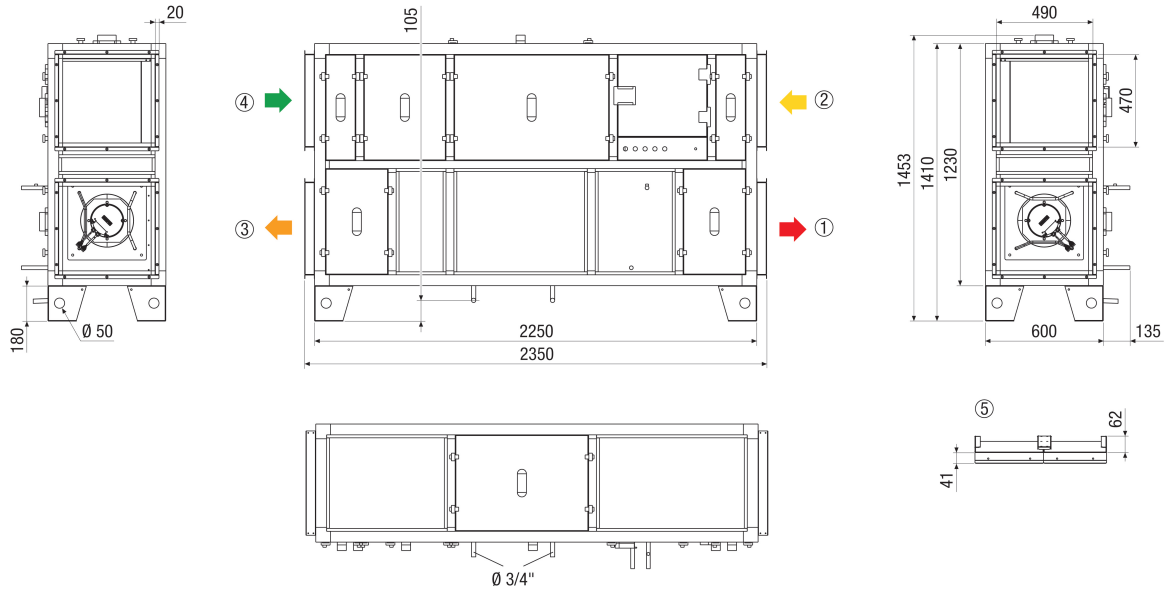
Characteristic curve



- 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