

Use

The AEROMAT VT WRG 1100 is a ventilation unit for installation:

- horizontally, above or below window elements
- vertically, between the window frame and masonry
- horizontally or vertically in the head or sill (on request)

Function

- The AEROMAT VT WRG 1100 is a sound absorbing ventilator with two electric blowers and a heat exchanger. It provides ventilation for interior rooms while also providing heat recovery.

Unit properties

- Ventilation with heat recovery
- Supply air filter ISO ePM10 65% and exhaust air filter ISO Coarse 55%
- Optional: supply air filter NOx and exhaust air filter ISO Coarse 55%
- Manually and continuously adjustable slider
- With a short casing profile A or long casing profile B depending on the installation location
- 3-level blower switchable + automatic mode
- Membrane key with LED display (indicating operating status, filter replacement and malfunctions)

- Temperature and humidity sensor in supply and extract air mode with condensation and frost control
- Optional:
 - air quality sensor with CO₂ regulation
 - air quality sensor with CO₂ and TVOC regulation
- AEROMAT VT WRG 1100 smart:
 - simple operation via smartphone or tablet using the SIEGENIA SIEGENIA Comfort App*
 - continuous control of the blower performance
 - Filter change indicator and reset of the filter change indicator (after filter has been replaced)
 - Display of the inside and outside temperature in °C
 - Display of the inside and outside air humidity in %
 - Air quality display (depending on unit equipment)
 - Automatic mode

** Notes on compatibility at*

www.siegenia.com/qr/comfort-app/faq

Technical specifications

Data table

The values can vary according to the specific equipment configuration.¹⁾

	AEROMAT VT WRG 1100	AEROMAT VT WRG 1100 smart
Air throughput (with filter) at blower level 1 at blower level 2 at blower level 3 (power level)	approx. 21 m ³ /h approx. 37 m ³ /h approx. 56 m ³ /h	approx. 21 m ³ /h approx. 37 m ³ /h approx. 56 m ³ /h
Inherent noise ² at blower level 1 at blower level 2 at blower level 3 (power level)	L _{PA} = approx. 21 dB (A) L _{PA} = approx. 27 dB (A) L _{PA} = approx. 38 dB (A)	L _{PA} = approx. 21 dB (A) L _{PA} = approx. 27 dB (A) L _{PA} = approx. 38 dB (A)
Sound absorption (with opened sliders) ³	R _{w-1.9} = 48 dB D _{n,e,w} = 55 dB	R _{w-1.9} = 48 dB D _{n,e,w} = 55 dB
Heat transition coefficient ⁴	U = 0.55 W/m ² K	U = 0.55 W/m ² K
Heat recovery efficiency ⁵	max. 62 %	max. 62 %
Power consumption at blower level 1 at blower level 2 at blower level 3 (power level)	4 W 7 W 18 W	5 W 8 W 20 W
Supply voltage	230 V DC / 50 Hz	230 V DC / 50 Hz
Unit operating voltage	24 V AC	24 V AC
protection class	II	II
Max. permissible area load per linear metre of ventilator length	1,000 kg	1,000 kg
Permissible operating temperature	– 15 °C to + 40 °C	– 15 °C to + 40 °C
Length of connecting cable	4.3 m (with Europlug)	4.3 m (with Europlug)
	≥ 5 m (with 7-core cable)	≥ 5 m (with 7-core cable)

¹⁾ Technical specifications per WRG module

²⁾ measured according to DIN EN ISO 3745 (with room insulation 8 dB)

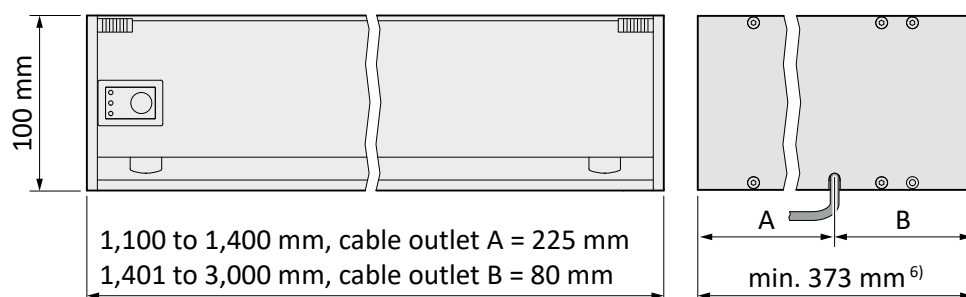
³⁾ measured according to DIN EN 10140–2 with 380 mm overall

depth

⁴⁾ mathematically determined according to DIN EN ISO 6946

⁵⁾ measured according to DIN EN 13141-8

Dimensions

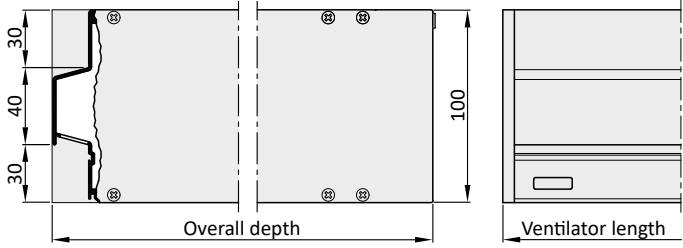
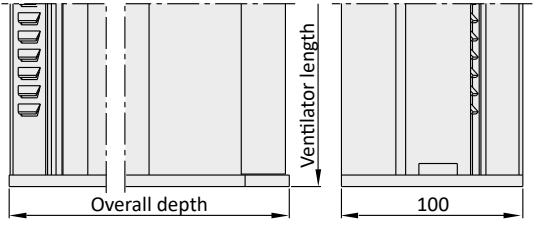
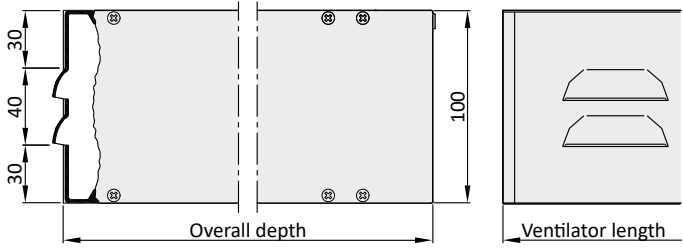
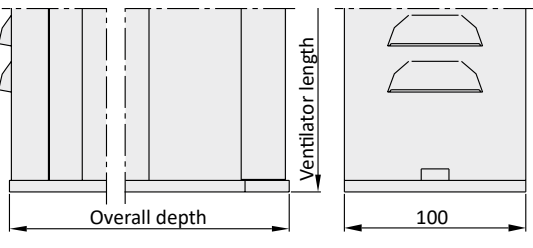


⁶⁾ according to weather grille variant

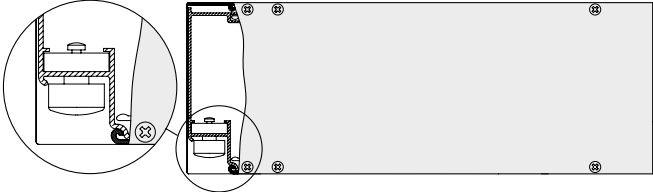
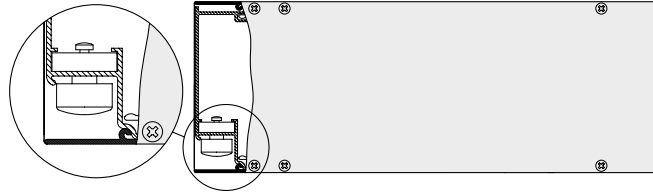
Product data sheet

	1254/2014	1254/2014
a Producer	SIEGENIA	SIEGENIA
b Model identifier	AEROMAT VT WRG 1100	AEROMAT VT WRG 1100 smart
c Energy consumption (SEV); Energy efficiency class (SEC class) (according to climatic zone warm / average / cold)	−13.6 kWh/(m ² · a); E − 34.6 kWh/(m ² · a); A −71.2 kWh/(m ² · a); A+	−13.6 kWh/(m ² · a); E − 34.54 kWh/(m ² · a); A −71.17 kWh/(m ² · a); A+
d Type	WLA / ZLA	WLA / ZLA
e Type of drive	Multi-stage drive	Rotational speed control
f Heat recovery system	Recuperative	Recuperative
g Thermal efficiency	52 %	52 %
h Maximum flow rate	56 m ³ /h	56 m ³ /h
i Electrical input power	18 W	20 W
j Noise level	35 dB (A)	35 dB (A)
k Relative air flow rate	37 m ³ /h	37 m ³ /h
l Relative pressure differential	—	—
m Specific input power	0.181 W/(m ³ /h)	0.227 W/(m ³ /h)
n Control factor / control typology	0.65 / 1.21	1 / 1.21
o Highest degree of inner and outer leakage rate (inner / outer leakage)	9 % / 8 %	9 % / 8 %
p Mix rate (inner area / outer area)	-13 % / 1 %	-13 % / 1 %
q Instructions for replacing filter	see original operating instructions	see original operating instructions
r Instructions for the mounting of outside air / exhaust air grilles (for one-directional ventilation units)	—	—
s Instructions for dismantling	—	—
t Pressure fluctuation sensitivity of the air flow (at +20 Pa and −20 Pa)	12 % / 12 %	12 % / 12 %
u Air tightness between inside and outside	1.4 m ³ /h	1.4 m ³ /h
v Annual power consumption	1.76 kWh/a	1.77 kWh/a
w Annual saving of heating energy (according to climatic zone warm / average / cold)	17.3 kWh/a 38.3 kWh/a 74.9 kWh/a	17.3 kWh/a 38.3 kWh/a 74.9 kWh/a

Weather grille variants

Horizontal installation	Vertical installation
Weather grille HW 	Weather grille HS 
Weather grille CW 	Weather grille CS 

Casing profile variants

A: short casing profile	B: long casing profile
Installation recommendation: installation vertically in the reveal or window lintel 	Installation recommendation: installation in the window sill area 

Accessories

name	Contents	Material number
Filter set AEROMAT VT WRG 1100	1x supply air filter ISO ePM10 65% 1x exhaust air filter ISO Coarse 55% 2x retention spring	L3271300-093010
Filter set NOx filter (for pollen / fine dust / nitrogen dioxide)	1x supply air filter NOx 1x exhaust air filter ISO Coarse 55% 2x retention spring	L3271400-099010