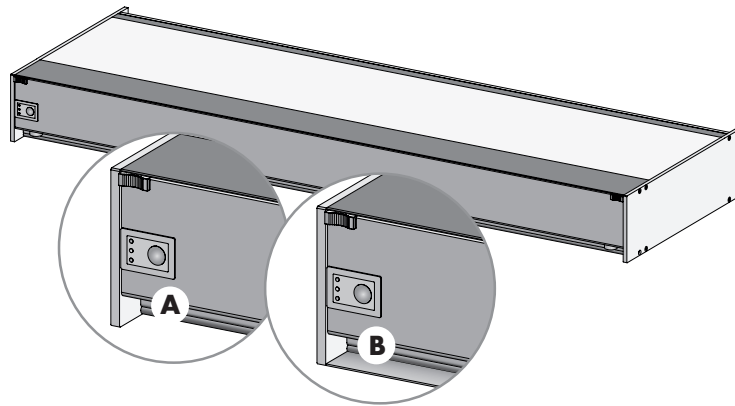


Sound absorbing ventilator with heat recovery



Application

The AEROMAT VT WRG 1000 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 1000 is a sound absorbing ventilator with two electric blowers and a heat exchanger. It provides ventilation for interiors while also providing heat recovery.

Unit properties

- Ventilation with heat recovery
- Supply air filter F7 and exhaust air filter G3 (alternatively with insect grille)
- Manually and continuously adjustable slider
- With a short casing profile A or long casing profile B depending on the installation location
- 3-stage blower + automatic mode (optional: for units with sensors)
- Membrane key with LED display (indicating operating status, filter replacement and malfunctions)
- Recommended sensors (optional):
 - Air humidity and temperature sensor
 - Frost protection control
 - CO₂ sensor or CO₂ + VOC sensor
- Optional: Version in accordance with VDI 6022
- AEROMAT VT WRG 1000 smart:
 - Simple operation via smartphone or tablet using the 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 (depending on device equipment)
 - Display of the inside and outside air humidity in % (depending on device equipment)
 - Air quality display (depending on device equipment)
 - Automatic mode (depending on device equipment)

*The SIEGENIA Comfort app is compatible with iOS 8.0 or new, iPhone, iPad and iPod touch, as well as Android 5.0 or newer

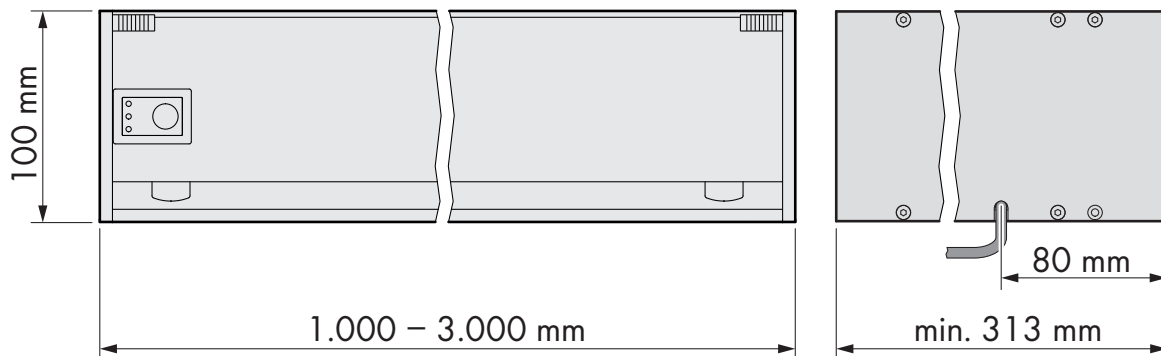
Technical specifications

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

	AEROMAT VT WRG 1000			
	Var. 1	Var. 2	Var. 3	Var. 4
Sensors	–	✓	–	✓
WLAN module	–	–	✓	✓
Sound absorption (with sliders open) ²⁾	$R_{w-1.9} = 47 \text{ dB}$ $D_{n,e,w} = 54 \text{ dB}$			
Max. permissible area load per linear metre of ventilator length	1,000 kg			
Heat transition coefficient ³⁾	$U = 0.55 \text{ W/m}^2\text{K}$			
Permissible operating temperature	– 15 °C to +40 °C			
Outside air filter (if present)	F7, 124 x 90 mm			
Exhaust air filter (if present)	G3, 190 x 87 mm			
Effective air throughput (with filter)				
With blower level 1	approx. 22 m ³ /h			
With blower level 2	approx. 38 m ³ /h			
With blower level 3 (power level)	approx. 52 m ³ /h			
Heat recovery efficiency ⁴⁾	max. 62%			
Inherent noise ⁵⁾				
at blower level 1	$L_{pA} = \text{approx. } 24 \text{ dB(A)}$			
With blower level 2	$L_{pA} = \text{approx. } 36 \text{ dB(A)}$			
With blower level 3 (power level)	$L_{pA} = \text{approx. } 43 \text{ dB(A)}$			
Supply voltage	230 V~			
Unit operating voltage	24 V===			
Power consumption				
With blower level 1	5 W			
With blower level 2	11 W			
With blower level 3 (power level)	24 W			
Mains supply	230 V~ / 50 Hz			
Protection class II	✓			
Thermal protection in transformer	✓			
Length of connecting cable	1.50 m or 5 m			

¹⁾ Technical specifications according to WRG module
²⁾ Measured in accordance with DIN EN 10140-2 at an overall depth of 320 mm
³⁾ Calculated in accordance with DIN EN ISO 6946
⁴⁾ Based on EN 308
⁵⁾ Measured in accordance with DIN EN ISO 3745 (with room insulation 8 db)

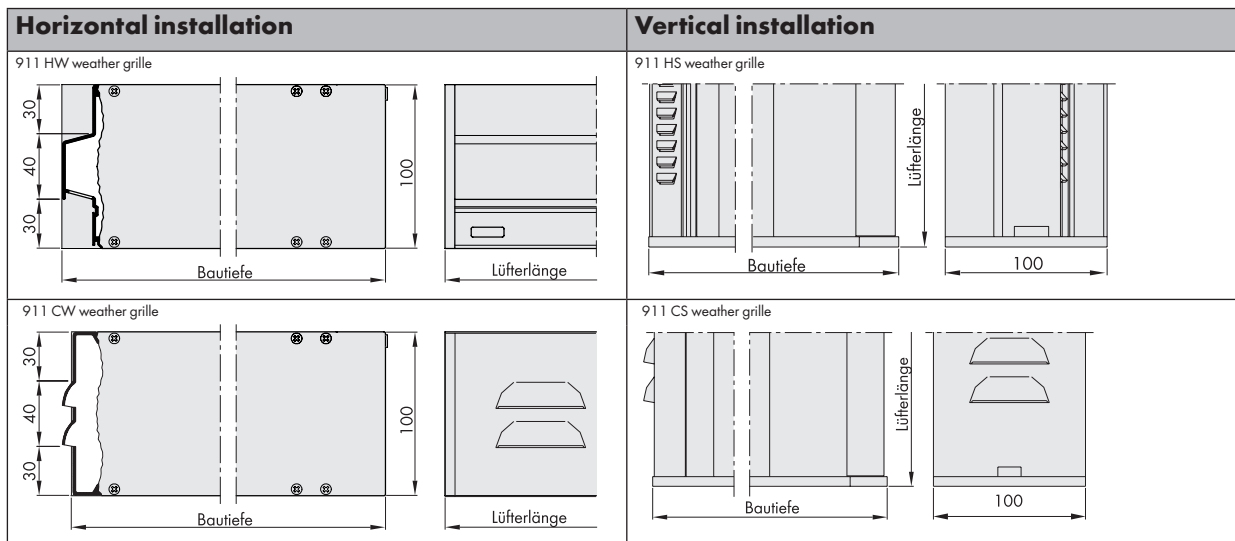
Dimensions



Product data sheet (in accordance with EU Regulation 1254/2014)

a	Manufacturer	SIEGENIA			
b	Model identification	AEROMAT VT WRG 1000			
		Var. 1	Var. 3	Var. 2	Var. 4
c	Energy consumption (SEV); Energy efficiency class (SEV class) (according to climatic zone warm / average / cold)	-3.6 kWh/(m ² · a); F -21 kWh/(m ² · a); D -51.5 kWh/(m ² · a); A+		-11.2 kWh/(m ² · a); E -32 kWh/(m ² · a); B -68.2 kWh/(m ² · a); A+	
d	Type	WLA / ZLA			
e	Type of drive	Multi-stage drive			
f	Heat recovery system	Recuperative			
g	Degree of temperature change	51 %			
h	Highest air flow rate	52 m ³ /h			
i	Electrical input power	24 W			
j	Noise level	44 dB (A)			
k	Relative air flow rate	38 m ³ /h			
l	Relative pressure differential	-			
m	Specific input power	0.3 W/(m ³ /h)			
n	Control factor / control typology	1.21 / 1		1.21 / 0.65	
o	Highest degree of inner and outer leakage rate (inner / outer leakage)	3.6 % / 5.8 %			
p	Mix rate (inner area / outer area)	9 % / -1 %			
q	Instructions for replacing filter	See original operating instructions (H47.FENS037EN)			
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)	10 % / 10 %			
u	Air tightness between inside and outside	2.6 m ³ /h			
v	Annual power consumption	4.6 kWh/a		2.6 kWh/a	
w	Annual saving of heating energy (according to climatic zone warm / average / cold)	14.4 kWh/a 31.8 kWh/a 62.3 kWh/a		17.1 kWh/a 37.8 kWh/a 74 kWh/a	

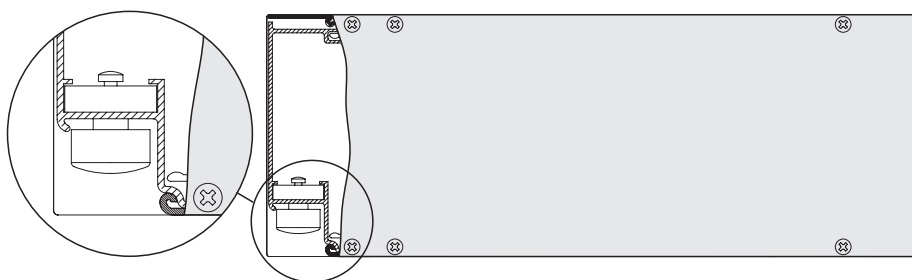
Weather grille variants



Casing profile variants

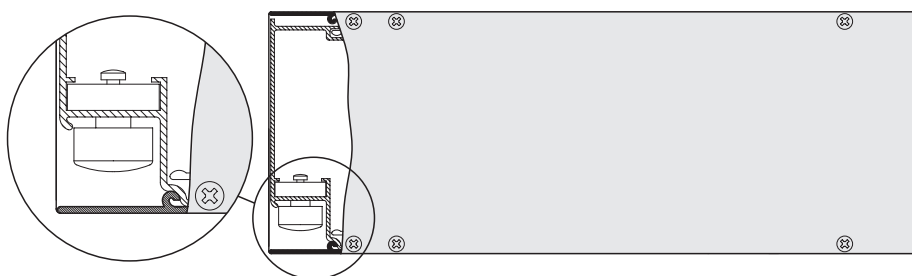
A: Short casing profile

Installation suggestion:
Installation vertically in the
reveal or window lintel



B: Long casing profile

Installation suggestion:
Installation in the window sill
area



SIEGENIA
brings spaces to life

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