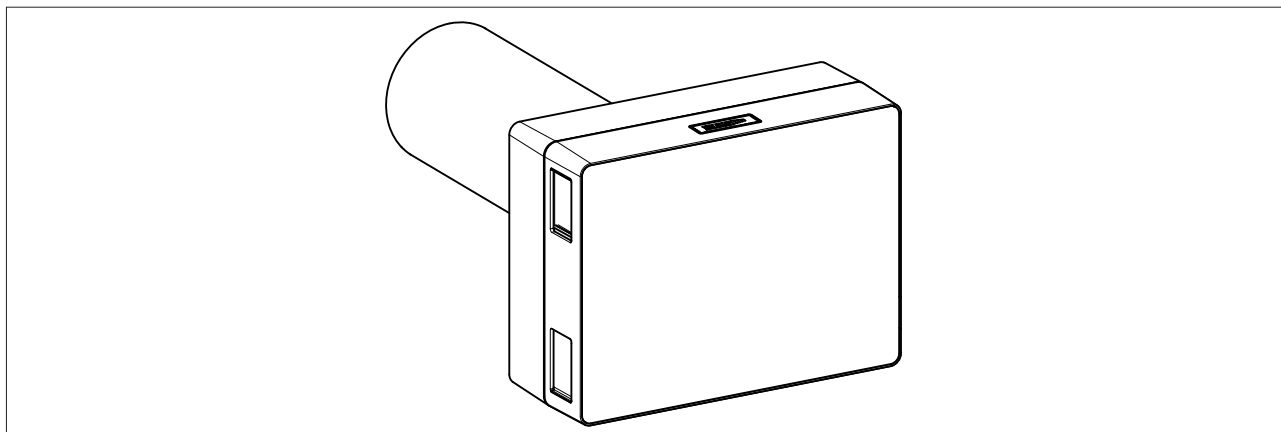


1 AEROPLUS WRG



1.1 Application

- The AEROPLUS WRG is a wall-mounted ventilator with supply air and exhaust-air function, heat recovery and a temperature and humidity sensor.
- The AEROPLUS WRG smart is a wall-mounted ventilator with supply-air and exhaust-air function, heat recovery and a humidity and CO₂ sensor, and it can also be controlled using the SIEGENIA Comfort app.

1.2 Functionality

- The low-noise AEROPLUS WRG provides controlled and energy-saving ventilation of enclosed spaces.
- Two blowers, one for supply air and one for exhaust air, guarantee a continuous exchange of air. Heat is recovered by means of a rotary heat exchanger.
- The outside air is filtered and warmed before being fed into the room. The stale exhaust air is filtered and returned to the outside.

1.3 Functions

Functional element	Device type	
	AEROPLUS WRG	AEROPLUS WRG smart
Exhaust-air filter ISO Coarse $\geq 30\%$	●	●
Supply-air filter ISO Coarse $\geq 45\%$	●	●
Supply-air filter ISO ePM1 $\geq 50\%$	○	○
Supply-air filter NOx	○	○
Inside temperature and humidity sensor	●	●
Outside temperature and humidity sensor	●	●
CO ₂ sensor	-	●
Touch control	●	●
WIFI / operation via SIEGENIA Comfort app	-	●
Different blower levels	●	●
Automatic mode	●	●
Deactivation of heat recovery	●	●
Child-proof lock	●	●
filter replacement indicator	●	●
Condensate and frost protection control	●	●
Safety function blower monitoring system	●	●
Manual close	●	●
External inputs	●	●
SI-BUS	●	●

Symbol	Explanation
●	Standard version
○	Optional or alternative version
-	not available

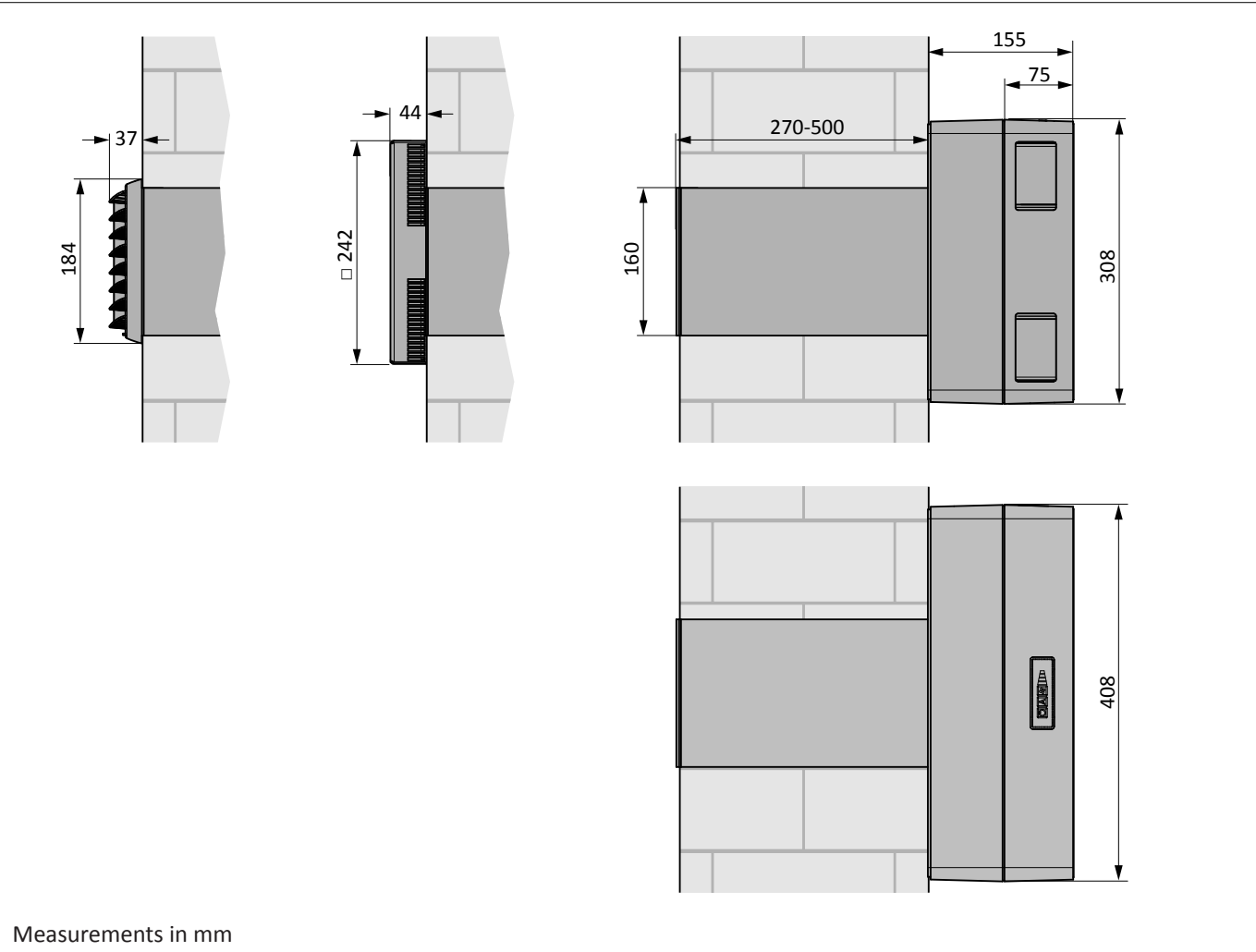
1.4 Technical specifications

The technical specifications have been determined with PVC weather grille, an ISO Coarse 45% supply-air filter and ISO Coarse 30% exhaust-air filter.

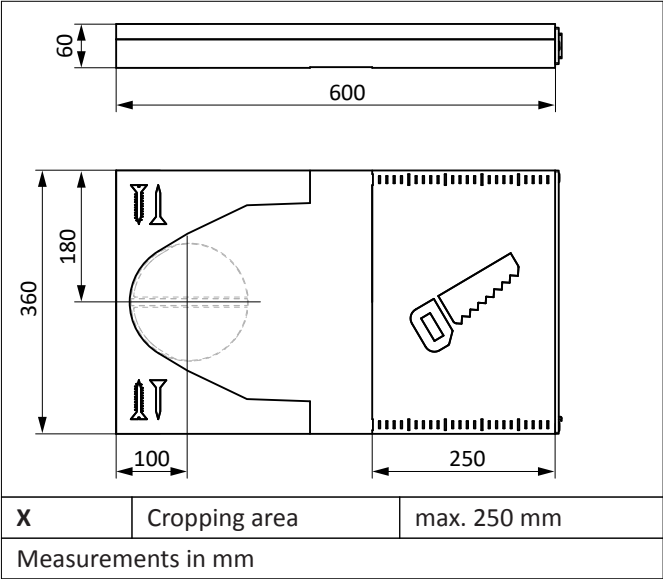
		AEROPLUS WRG	AEROPLUS WRG smart
Sound absorption $D_{n,e,w}$ in ventilation operation Pipe length 270/340/500 mm (measured in accordance with DIN EN 10140-2)	with PVC weather grille	49/50/50 dB	49/50/50 dB
	with weather protection hood	51/52/52 dB	51/52/52 dB
	with EPP vent duct	54/55/57 dB	54/55/57 dB
Air throughput	Blower level 1	10 m ³ /h	10 m ³ /h
	Blower level 2	20 m ³ /h	20 m ³ /h
	Blower level 3	30 m ³ /h	30 m ³ /h
	Blower level 4	45 m ³ /h	45 m ³ /h
	Blower level 5	60 m ³ /h	60 m ³ /h
Inherent noise L_{pA} (measured according to DIN EN ISO 13141-8, sound pressure level with room insulation of 8 dB)	Blower level 1	19 dB (A)	19 dB (A)
	Blower level 2	23 dB (A)	23 dB (A)
	Blower level 3	26 dB (A)	26 dB (A)
	Blower level 4	31 dB (A)	31 dB (A)
	Blower level 5	36 dB (A)	36 dB (A)
Heat recovery efficiency		max. 93%	max. 93%
Power consumption	Blower level 1	5 W	6 W
	Blower level 2	6 W	7 W
	Blower level 3	7 W	8 W
	Blower level 4	10 W	11 W
	Blower level 5	15 W	17 W
Supply voltage		230 V AC	230 V AC
Supply frequency		50 Hz	50 Hz
Operating voltage		24 V DC	24 V DC
Frequency band		–	2412 – 2472 MHz
Max. transmission performance		–	21 dBm
Protection class		II	II
Weight		5.6 kg	5.6 kg
Permissible operating temperature		-15 – +40 °C	-15 – +40 °C
Length of connecting cable		5 m	5 m

1.5 Dimensions

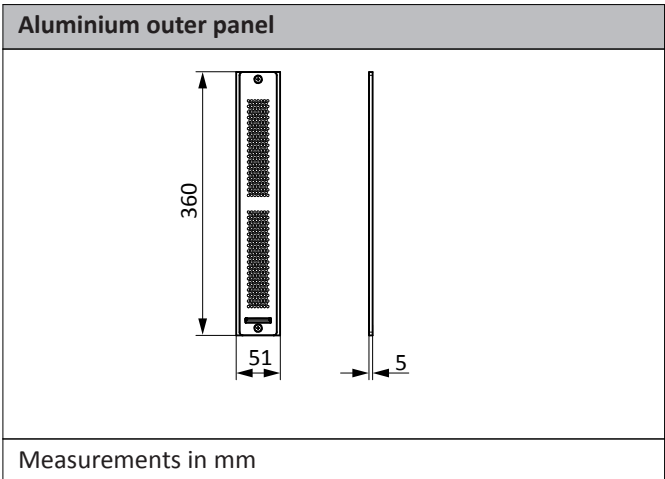
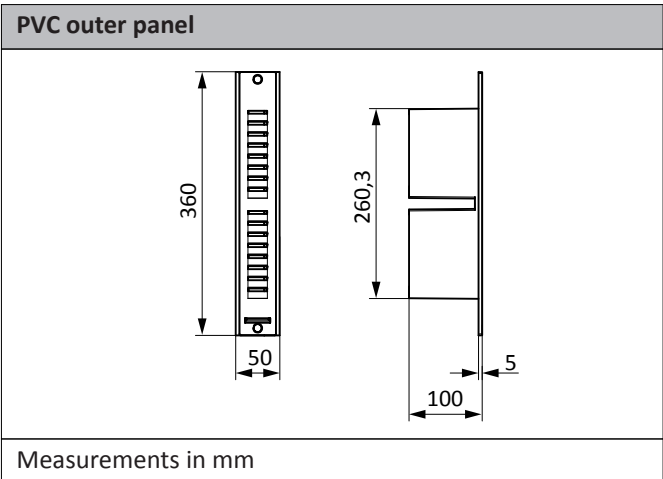
1.5.1 Dimensions of AEROPLUS WRG and weather grippe variants



1.5.2 Dimensions of vent duct



1.5.3 Dimensions of outer panels for vent duct



1.6 Required components

Name		Contents	Pc.	Material number
Supply-air filter	Supply-air filter ISO Coarse	Supply-air filter ISO Coarse 45%	1	L3350010-093010
	Supply-air filter ePM1	Supply-air filter ISO ePM1 50%	1	L3350020-093010
	Supply-air filter NOx	Supply-air filter NOx	1	L3350030-093010
External components	PVC weather grille	PVC weather grille in white (similar to RAL9016)	1	L5350130-004010
	Weather protection hood	Stainless steel weather protection hood	1	L5350140-000010
	EPP vent duct, type FL with PVC outer panel	EPP vent duct, type FL for AEROPLUS WRG	1	L5350170-097010
		PVC outer panel for EPP vent duct, type FL for AEROPLUS WRG	1	L5350180-002010
	EPP vent duct, type FL with aluminium outer panel	EPP vent duct, type FL for AEROPLUS WRG	1	L5350170-097010
		Aluminium outer panel for EPP vent duct, type FL for AEROPLUS WRG	1	L5350190-500010

1.7 Accessories

Name		Contents	Pc.	Material number
Exhaust-air filter		Exhaust-air filter ISO Coarse 30%	2	L3350040-093010
Felt front panel		Front panel with felt cover	1	L5350110-097010
Front panel in pearl dark grey		Front panel in pearl dark grey (similar to RAL9023)	1	L5350120-0F9010
Ventilation control unit		Ventilation control unit for external operation	1	L7360010-004010
Ventilation control unit sensors		Ventilation control unit with integrated sensors for external operation	1	L7360020-004010