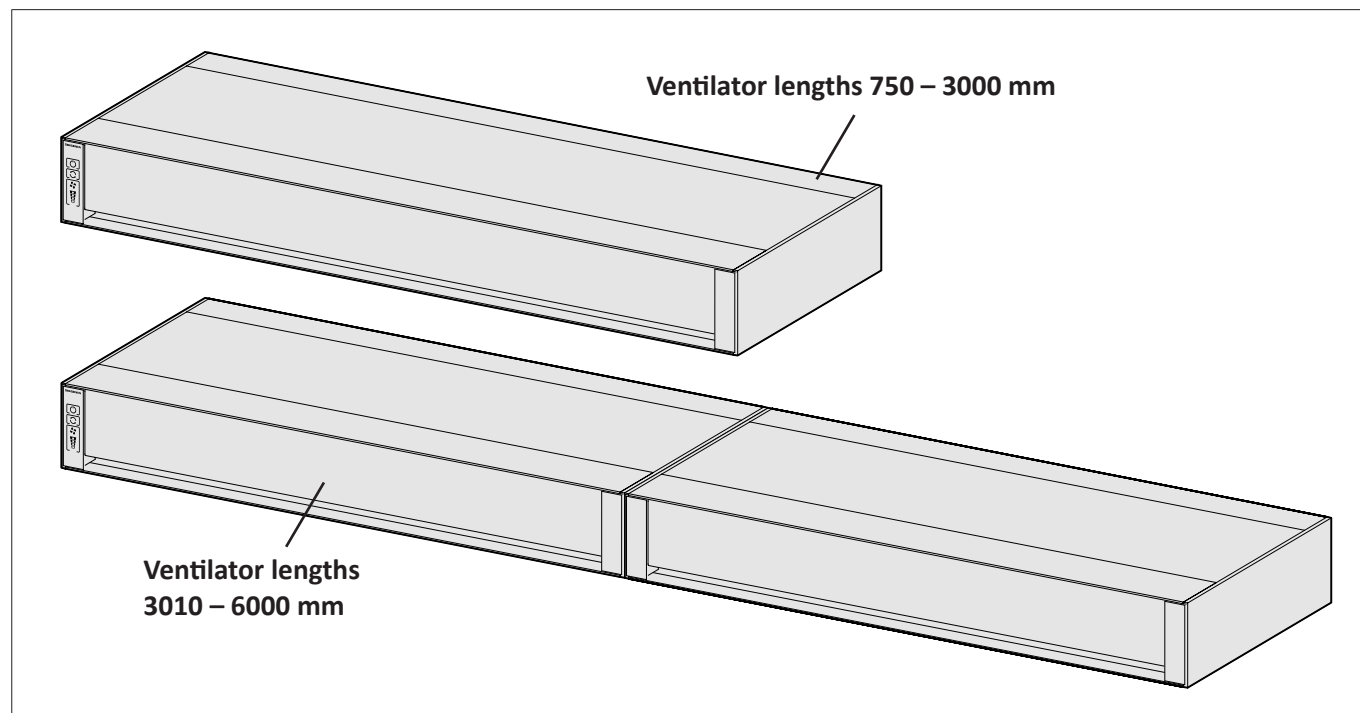


1 Features and functions



1.1 Features

- AEROMAT VT Z is a unidirectional supply air ventilation unit in home ventilation systems for the ventilation of closed rooms. The air exchange is accomplished with supply air fans.
- AEROMAT VT Z is available in 2 versions (special solutions on request):
 - AEROMAT VT Z1 = 1 supply air fan
 - AEROMAT VT Z2 = 2 supply air fan
- AEROMAT VT Z is part of the AEROMAT VT systems, which consists of different device types. The different device types can be combined with each other. Separate data sheets must be taken into consideration.
- Installation variants:
 - reveal
 - reveal concealed (with vent duct)
 - lintel
 - lintel concealed (with lintel duct)
 - wall
 - concealed in the wall (with wall duct)

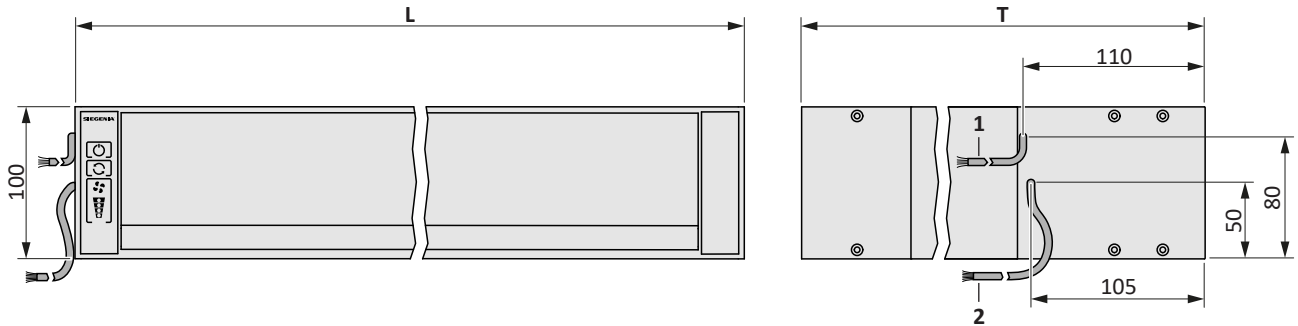
1.2 Functions

Versions	
Outside air filter ISO Coarse $\geq 45\%$	●
Outside air filter ISO ePM1 $\geq 50\%$	○
Outside air filter NOx	○
Magnetic lock (room side)	●
Electric lock	○
Touch control	●
Inside temperature and humidity sensor	●
Outside temperature and humidity sensor	○
Air quality sensor with CO ₂ regulation	○
Air quality sensor with CO ₂ and TVOC regulation	○
Wifi	○
Halogen-free cable	○
Digital outputs	○
External inputs (e. g night or cross ventilation or bathroom control)	○
Configurable software	○

- Serial version
- optional or alternative version

2 Dimensions

2.1 Dimensions AEROMAT VT Z



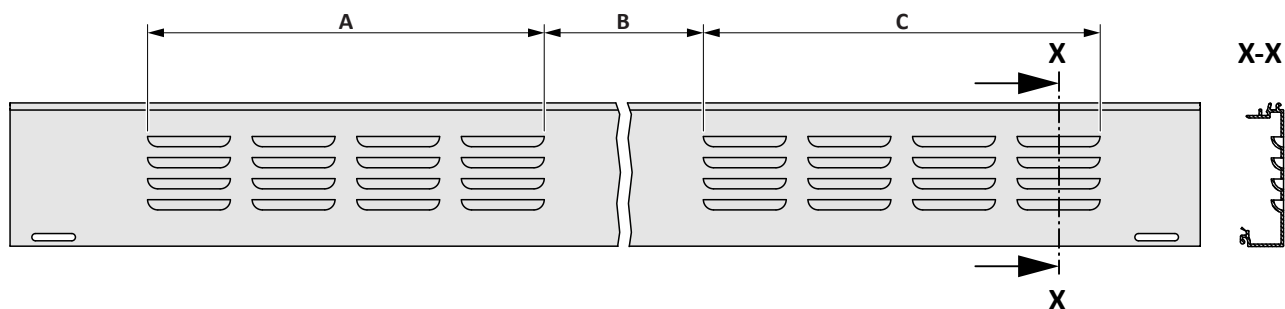
Measurements in mm

	L (mm)	T (mm)
AEROMAT VT Z1	750 – 6000	300 – 500
AEROMAT VT Z2	1500 – 6000	300 – 500

Key		
L	Ventilator length	Can be ordered in 10 mm increments
T	Ventilator depth	Can be ordered in 1 mm increments
1	Control cable 5 x 0.75 mm ²	for digital outputs
2	Control cable 7 x 0.75 mm ²	for supply voltage

2.2 Dimensions of outer panel without extension parts

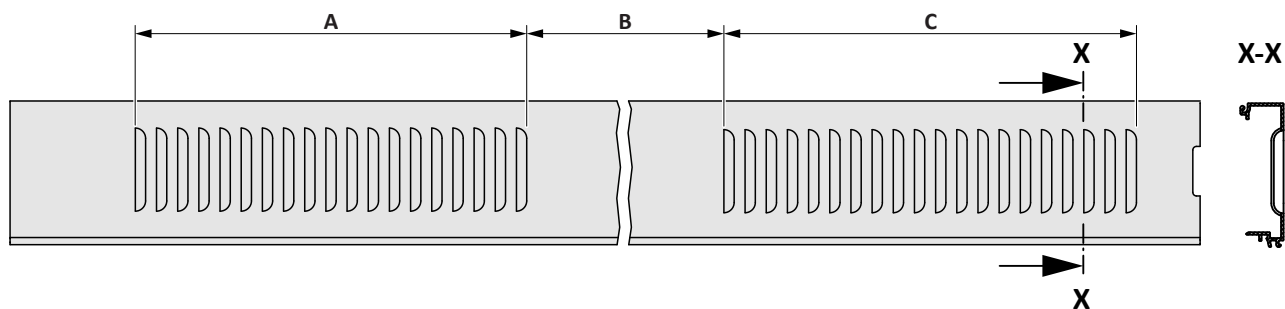
Outer panel for horizontal installation



Measurements in mm

	A (mm)	B (mm)	C (mm)
AEROMAT VT Z1	273	–	–
AEROMAT VT Z2	273	297	273

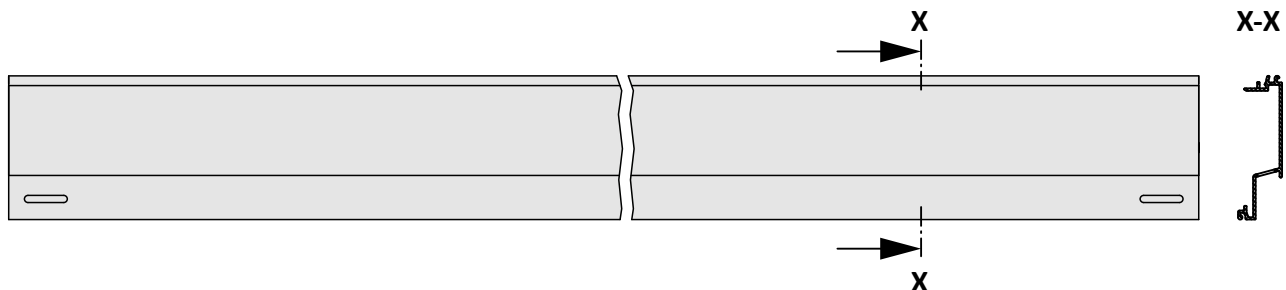
Outer panel for vertical installation



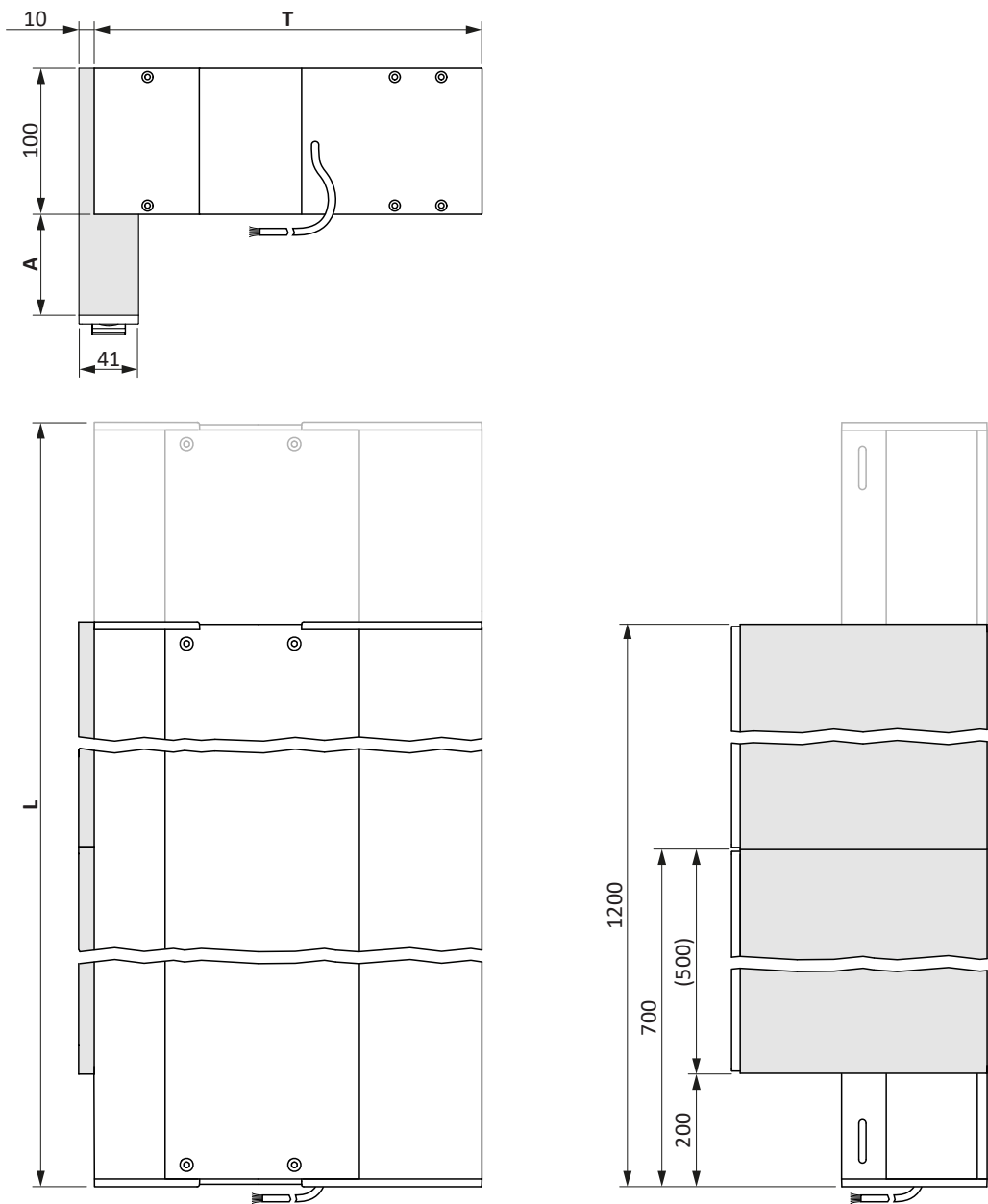
Measurements in mm

	A (mm)	B (mm)	C (mm)
AEROMAT VT Z1	282.5	–	–
AEROMAT VT Z2	282.5	288	282.5

Outer panel for shadow gap



2.3 Dimensions of vent duct and lintel duct



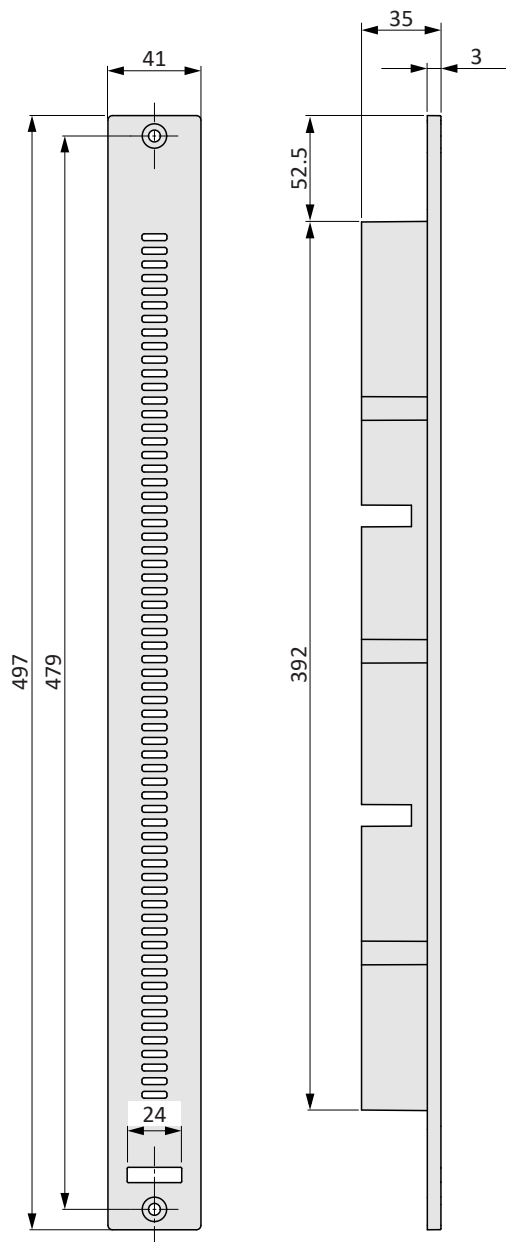
Measurements in mm

	L (mm)	T (mm)	A (mm)	Number of ducts
AEROMAT VT Z1	750 – 6000	300 – 500	0 – 570	1
AEROMAT VT Z2	1500 – 6000	300 – 500	0 – 570	2

Key		
L	Ventilator length	Can be ordered in 10 mm increments
T	Ventilator depth	Can be ordered in 1 mm increments
A	Height of ducts	The height of the ducts can be shortened to the required dimension on site.

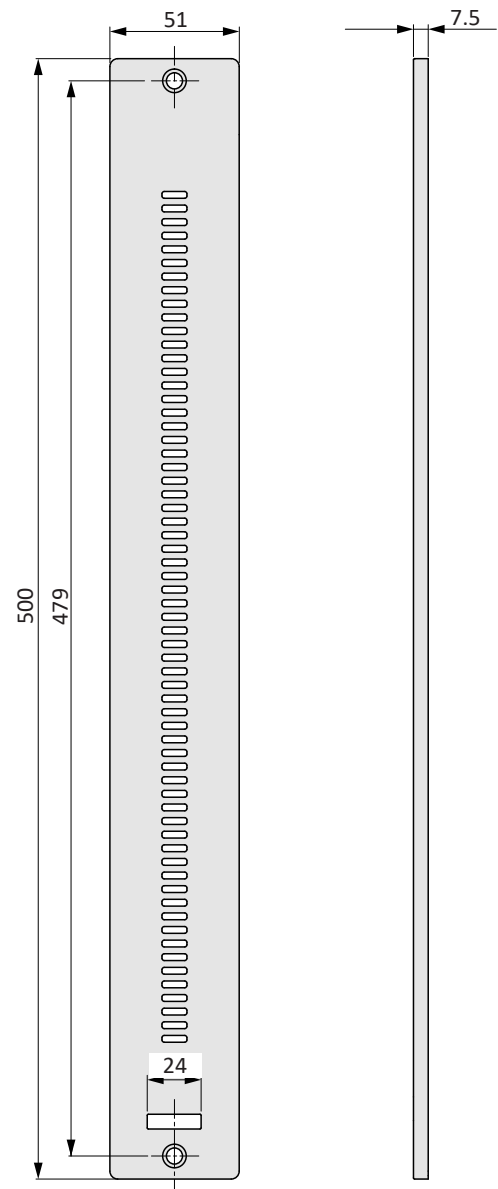
2.4 Dimensions of vent duct and lintel duct outside panels

PVC outer panel for vent duct and lintel duct



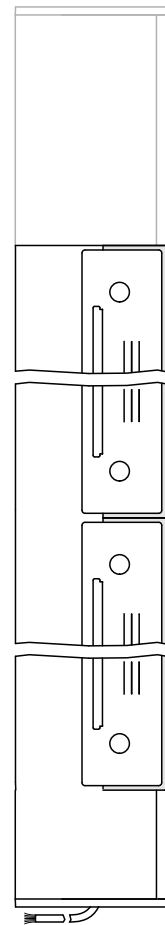
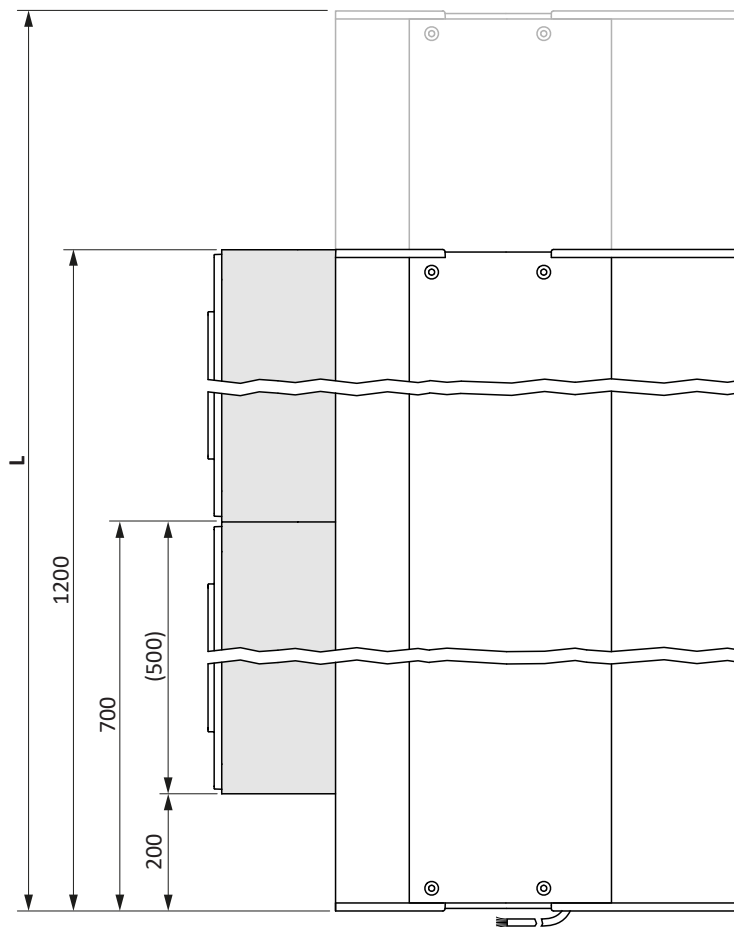
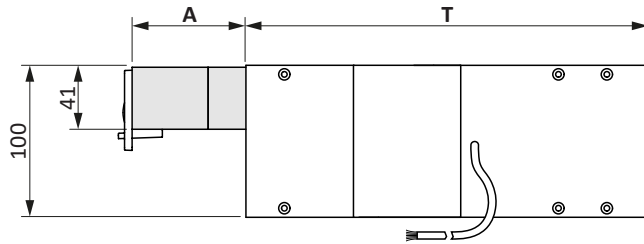
Measurements in mm

Aluminium outer panel for vent duct and lintel duct



Measurements in mm

2.5 Dimensions of wall duct



Measurements in mm

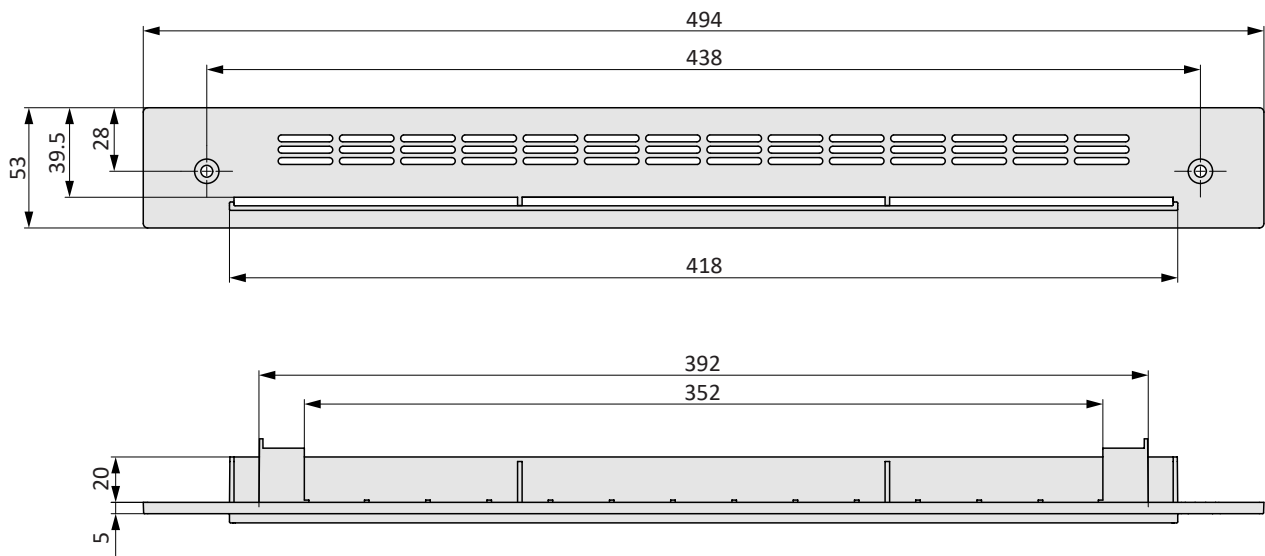
	L (mm)	T (mm)	A (mm)	Number of ducts
AEROMAT VT Z1	750 – 6000	300 – 500	25 – 500	1
AEROMAT VT Z2	1500 – 6000	300 – 500	25 – 500	2

Key

L	Ventilator length	Can be ordered in 10 mm increments
T	Ventilator depth	Can be ordered in 1 mm increments
A	Depth of ducts	The depth of the ducts can be shortened to the required dimension on site (min. 25 mm).

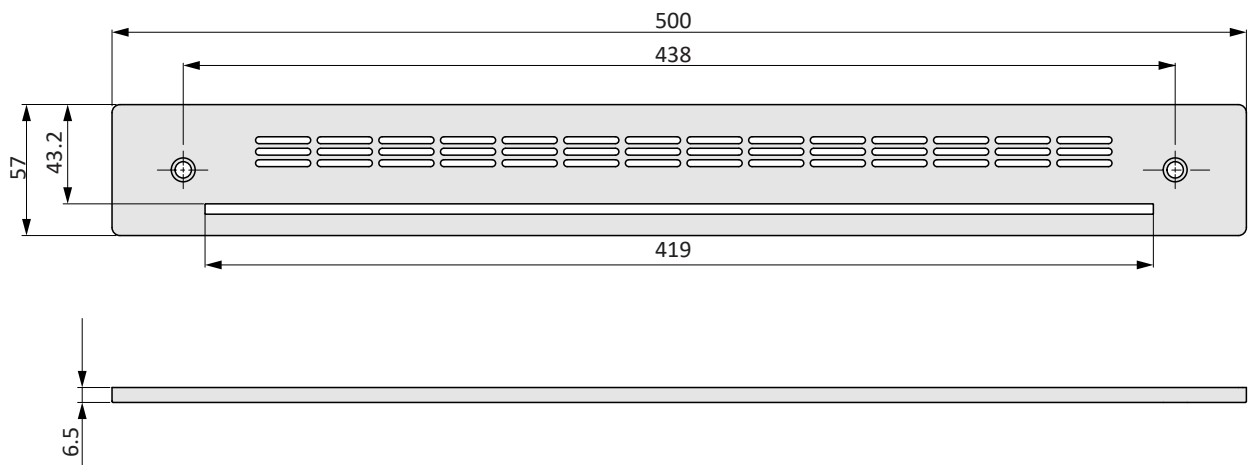
2.6 Dimensions of wall duct outer panels

Wall outer panel



Measurements in mm

Wall aluminium panel



Measurements in mm

3 Technical specifications

		AEROMAT VT Z1	AEROMAT VT Z2
Ventilator length		750 mm	1500 mm
Ventilator depth		300 mm	300 mm
Sound absorption $D_{n,e,w}$ in ventilation operation (measured according to DIN EN 10140-2)		57 dB	55 dB
Air throughput	Blower level 1	10 m ³ /h	20 m ³ /h
	Blower level 2	20 m ³ /h	40 m ³ /h
	Blower level 3	30 m ³ /h	60 m ³ /h
	Blower level 4	45 m ³ /h	90 m ³ /h
	Blower level 5	60 m ³ /h	120 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	16 dB (A)	18 dB (A)
	Blower level 2	17 dB (A)	19 dB (A)
	Blower level 3	22 dB (A)	21 dB (A)
	Blower level 4	28 dB (A)	31 dB (A)
	Blower level 5	35 dB (A)	38 dB (A)
Power consumption	Blower level 1	2 W	4 W
	Blower level 2	3 W	5 W
	Blower level 3	4 W	6 W
	Blower level 4	8 W	13 W
	Blower level 5	15 W	24 W
Supply voltage		230 V AC	230 V AC
Supply frequency		50 Hz	50 Hz
Operating voltage		24 V DC	24 V DC
Protection class		II	II
Max. permissible area load		1000 kg/m	1000 kg/m
Permissible operating temperature		-15 – +40 °C	-15 – +40 °C
Length of connecting cable		5 – 20 m	5 – 20 m

Technical specification measured with outside air filter ISO Coarse 45 %.