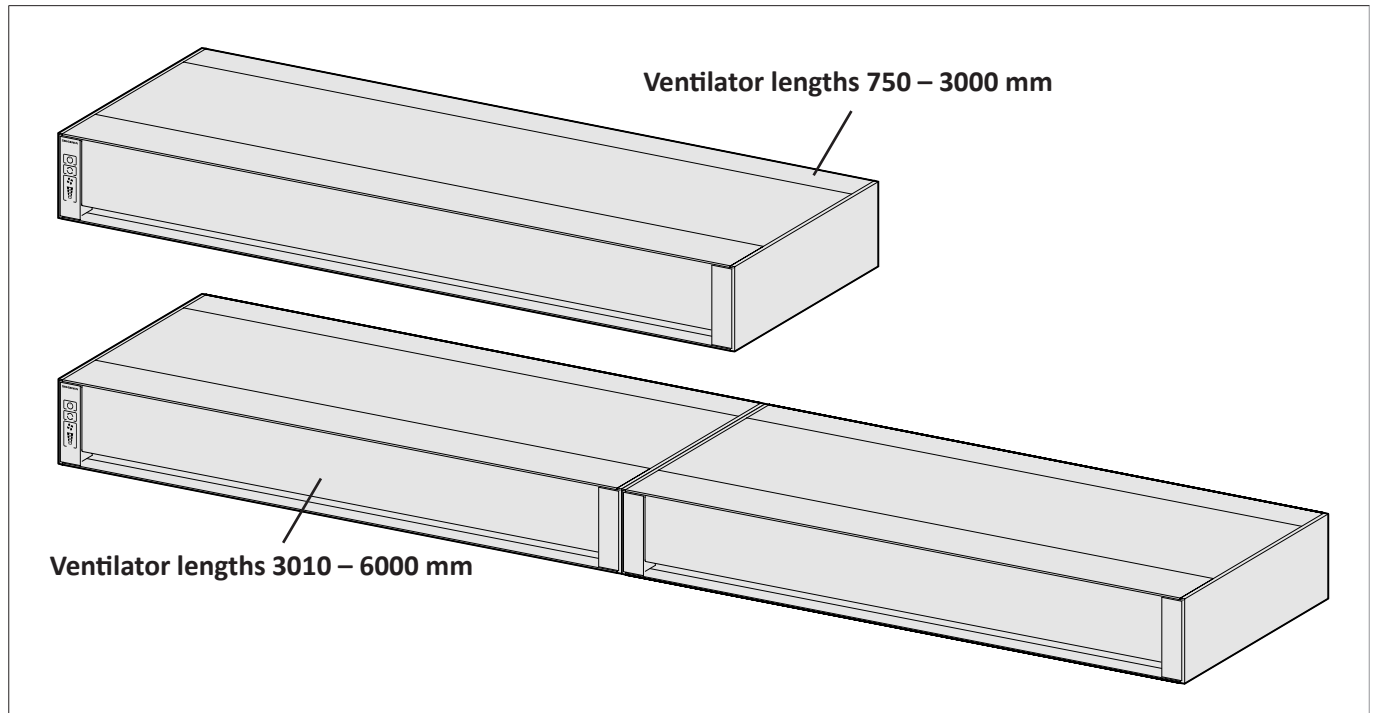


## 1 Features and functions



### 1.1 Features

- AEROMAT VT A is a unidirectional exhaust air ventilation unit in home ventilation systems for the ventilation of closed rooms. The air exchange is accomplished with exhaust air blowers.
- AEROMAT VT A is available in 2 versions (special solutions on request):
  - AEROMAT VT A1 = 1 exhaust air blower
  - AEROMAT VT A2 = 2 exhaust air blower
- AEROMAT VT A 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)

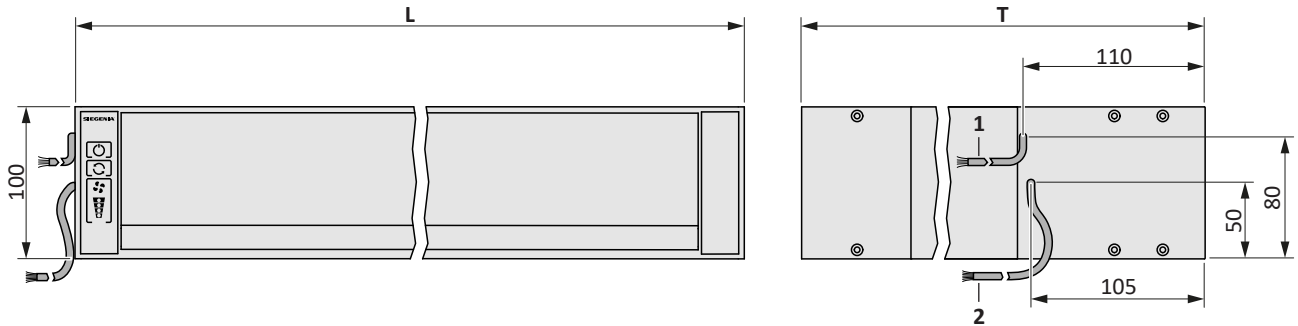
### 1.2 Functions

| Versions                                                              |   |
|-----------------------------------------------------------------------|---|
| Exhaust air filter ISO Coarse $\geq 30\%$                             | ○ |
| Magnetic lock (room side)                                             | ● |
| Electric lock                                                         | ○ |
| Touch control                                                         | ● |
| Inside temperature and humidity sensor                                | ● |
| Air quality sensor with CO <sub>2</sub> regulation                    | ○ |
| Air quality sensor with CO <sub>2</sub> 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 A



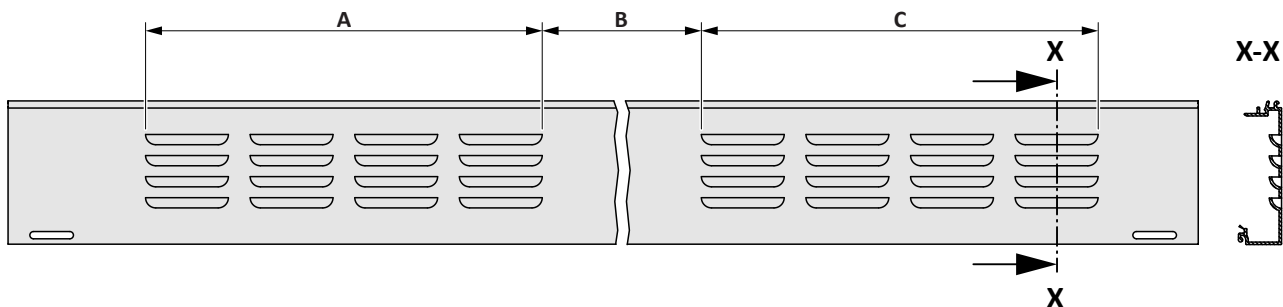
Measurements in mm

|                      | L (mm)      | T (mm)    |
|----------------------|-------------|-----------|
| <b>AEROMAT VT A1</b> | 750 – 6000  | 300 – 500 |
| <b>AEROMAT VT A2</b> | 1500 – 6000 | 300 – 500 |

| Key      |                                        |                                    |
|----------|----------------------------------------|------------------------------------|
| <b>L</b> | Ventilator length                      | Can be ordered in 10 mm increments |
| <b>T</b> | Ventilator depth                       | Can be ordered in 1 mm increments  |
| <b>1</b> | Control cable 5 x 0.75 mm <sup>2</sup> | for digital outputs                |
| <b>2</b> | Control cable 7 x 0.75 mm <sup>2</sup> | for supply voltage                 |

## 2.2 Dimensions of outer panel without extension parts

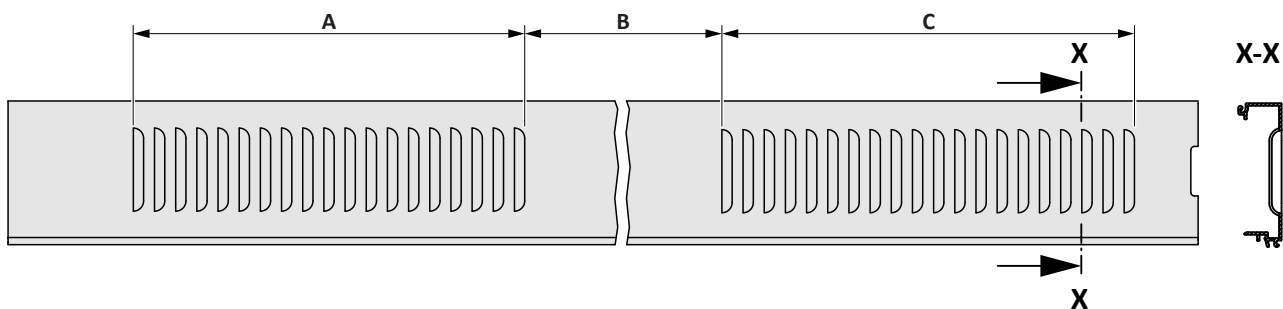
### Outer panel for horizontal installation



Measurements in mm

|                      | A (mm) | B (mm) | C (mm) |
|----------------------|--------|--------|--------|
| <b>AEROMAT VT A1</b> | 273    | —      | —      |
| <b>AEROMAT VT A2</b> | 273    | 297    | 273    |

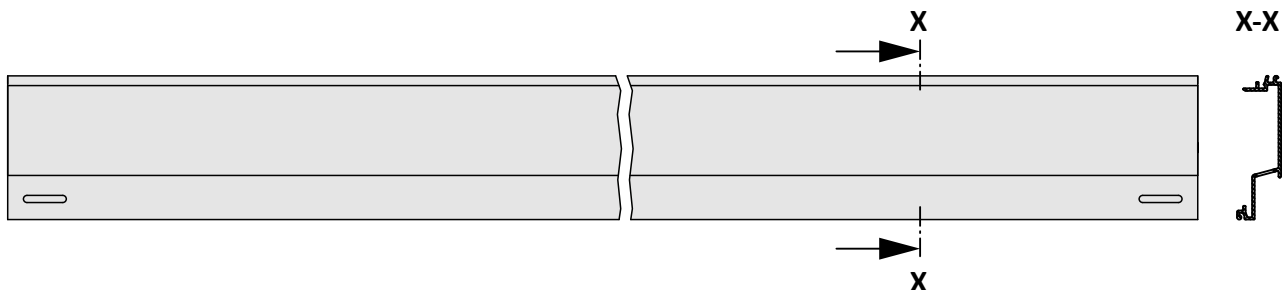
### Outer panel for vertical installation



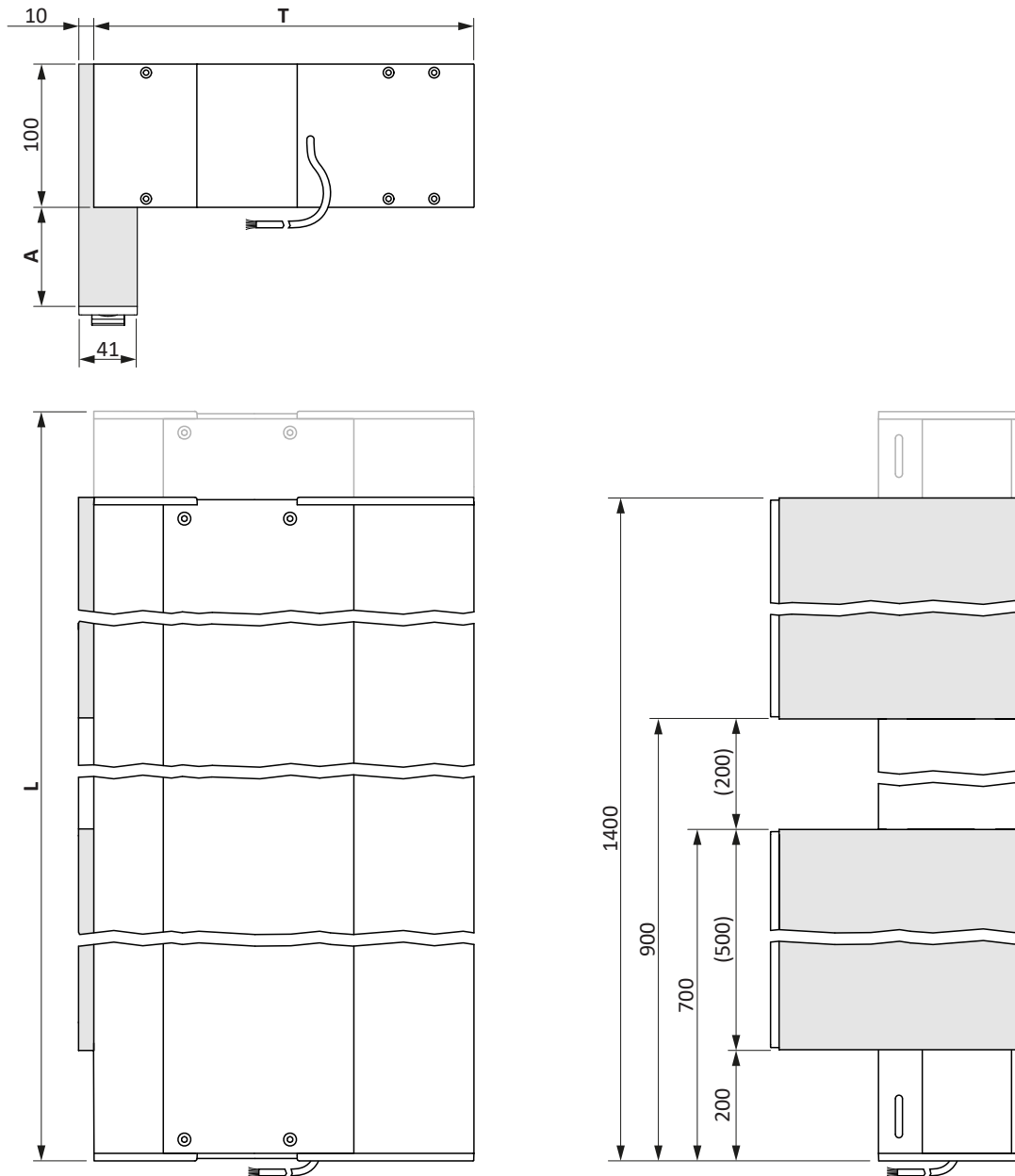
Measurements in mm

|                      | A (mm) | B (mm) | C (mm) |
|----------------------|--------|--------|--------|
| <b>AEROMAT VT A1</b> | 282.5  | —      | —      |
| <b>AEROMAT VT A2</b> | 282.5  | 288    | 282.5  |

### Outer panel for shadow gap



### 2.3 Dimensions of vent duct and lintel duct



Measurements in mm

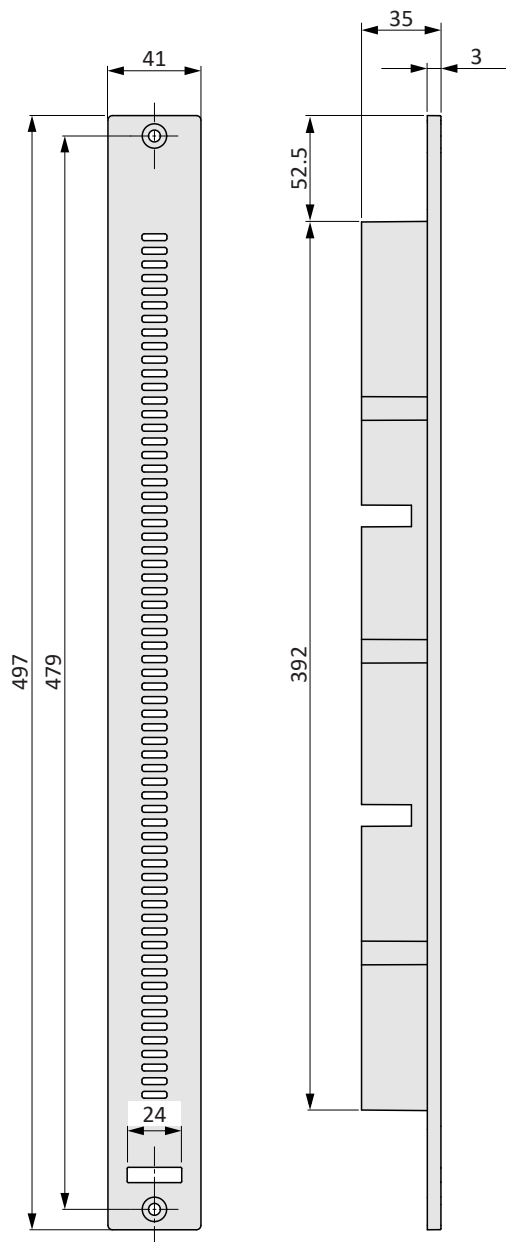
|                      | L (mm)      | T (mm)    | A (mm)  | Number of ducts |
|----------------------|-------------|-----------|---------|-----------------|
| <b>AEROMAT VT A1</b> | 750 – 6000  | 300 – 500 | 0 – 570 | 1               |
| <b>AEROMAT VT A2</b> | 1500 – 6000 | 300 – 500 | 0 – 570 | 2               |

#### Key

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

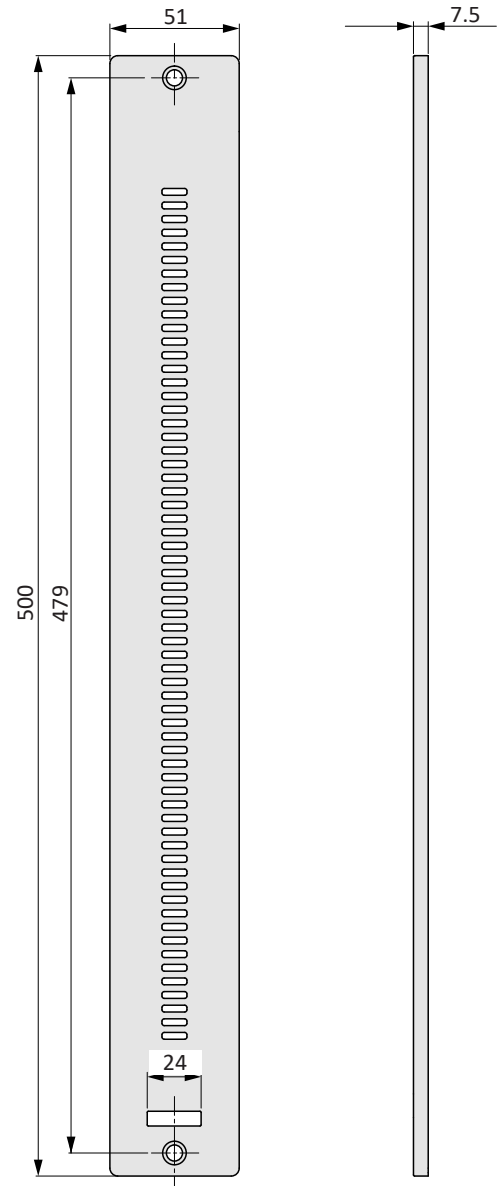
## 2.4 Dimensions of vent duct and lintel duct outside panels

PVC outer panel for vent duct and lintel duct



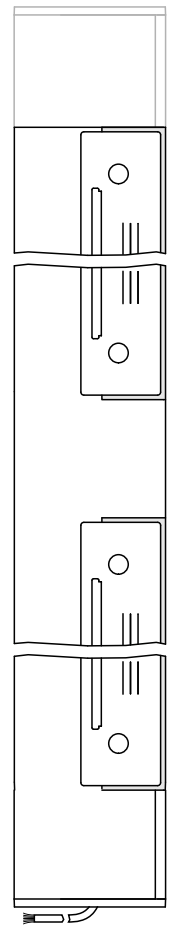
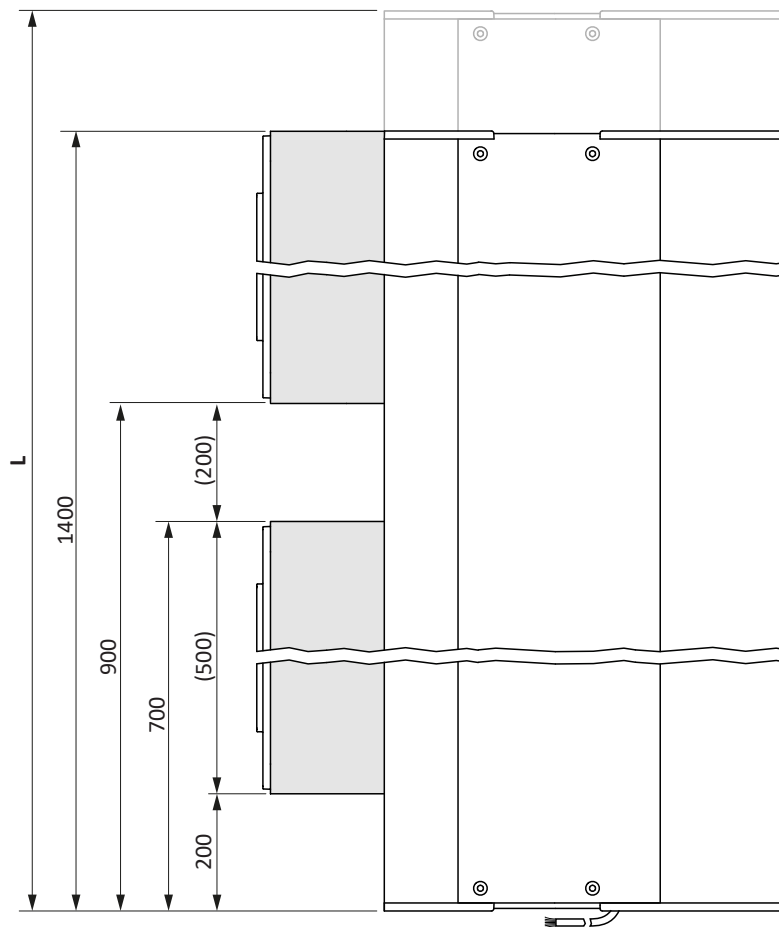
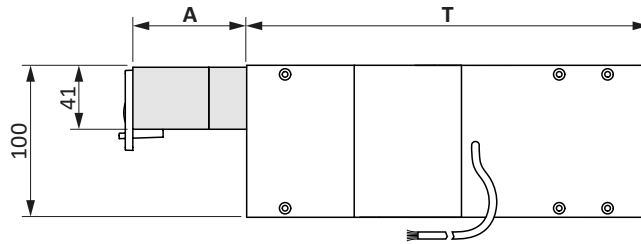
Measurements in mm

Aluminium outer panel for vent duct and lintel duct



Measurements in mm

## 2.5 Dimensions of wall duct



Measurements in mm

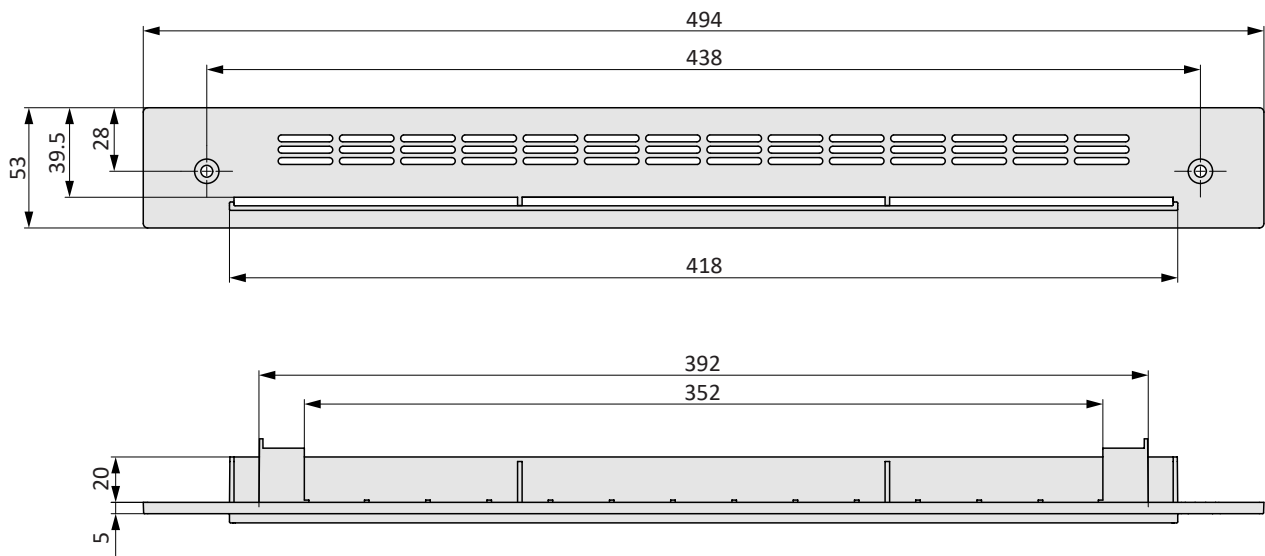
|                      | L (mm)      | T (mm)    | A (mm)   | Number of ducts |
|----------------------|-------------|-----------|----------|-----------------|
| <b>AEROMAT VT A1</b> | 750 – 6000  | 300 – 500 | 25 – 500 | 1               |
| <b>AEROMAT VT A2</b> | 1500 – 6000 | 300 – 500 | 25 – 500 | 2               |

### Key

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

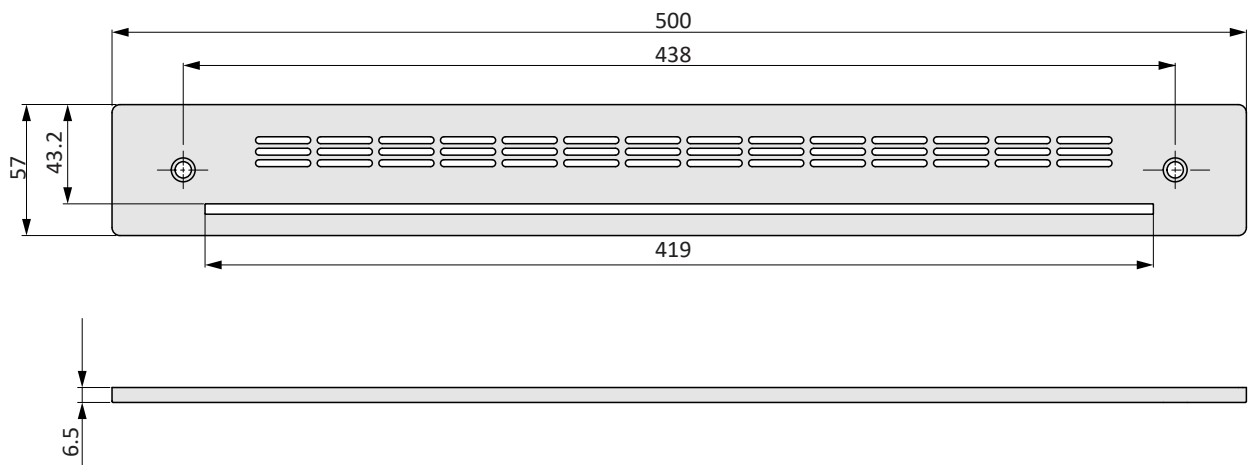
## 2.6 Dimensions of wall duct outside panels

### Wall outer panel



Measurements in mm

### Wall aluminium panel



Measurements in mm

### 3 Technical specifications

|                                                                                                                                |                | AEROMAT VT A1        | AEROMAT VT A2         |
|--------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|-----------------------|
| 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                | 54 dB                 |
| Air throughput                                                                                                                 | Blower level 1 | 10 m <sup>3</sup> /h | 20 m <sup>3</sup> /h  |
|                                                                                                                                | Blower level 2 | 20 m <sup>3</sup> /h | 40 m <sup>3</sup> /h  |
|                                                                                                                                | Blower level 3 | 30 m <sup>3</sup> /h | 60 m <sup>3</sup> /h  |
|                                                                                                                                | Blower level 4 | 45 m <sup>3</sup> /h | 90 m <sup>3</sup> /h  |
|                                                                                                                                | Blower level 5 | 60 m <sup>3</sup> /h | 120 m <sup>3</sup> /h |
| Inherent noise $L_{pA}$<br>(measured according to<br>DIN EN ISO 13141-8, sound pressure level<br>with room insulation of 8 dB) | Blower level 1 | 15 dB (A)            | 17 dB (A)             |
|                                                                                                                                | Blower level 2 | 16 dB (A)            | 19 dB (A)             |
|                                                                                                                                | Blower level 3 | 20 dB (A)            | 21 dB (A)             |
|                                                                                                                                | Blower level 4 | 28 dB (A)            | 31 dB (A)             |
|                                                                                                                                | Blower level 5 | 35 dB (A)            | 37 dB (A)             |
| Power consumption                                                                                                              | Blower level 1 | 2 W                  | 4 W                   |
|                                                                                                                                | Blower level 2 | 3 W                  | 4 W                   |
|                                                                                                                                | Blower level 3 | 3 W                  | 6 W                   |
|                                                                                                                                | Blower level 4 | 5 W                  | 10 W                  |
|                                                                                                                                | Blower level 5 | 9 W                  | 20 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 specifications measured without filter.