

# Scape<sup>®</sup>

# Hardware

stxx-005 & pcsi-005/6

Ventilation guide

# Scape® Hardware

## Ventilation guide

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## Note

**This document is a ventilation guide for trouble-free operation under normal conditions. In adverse environments, such as high temperature, polluted air, or high humidity, special precautions should be taken that are not covered in this document.**

This manual is applicable to the following devices:

- **Scape® Tangible 55"** (st55-004 R2.1)
- Silent-PC 2060 (pcsi-005)
- Silent-PC 2070 (pcsi-006)

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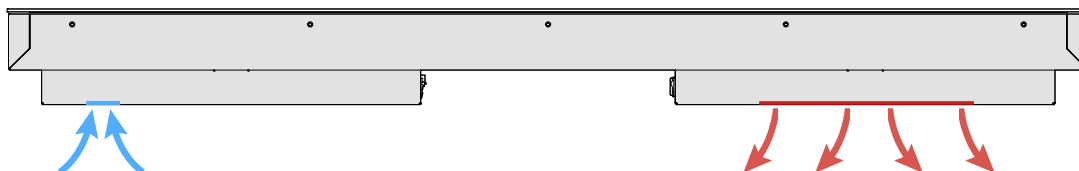
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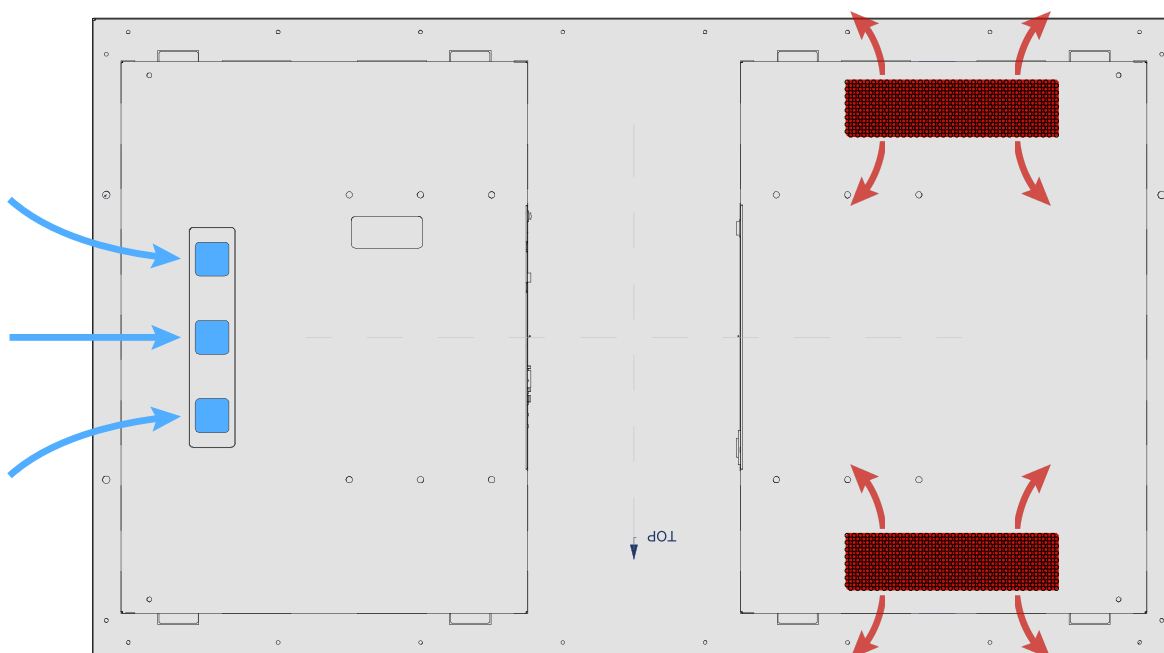
## 1. Directions of air flow

### 1.1. Scape® Tangible

Front:

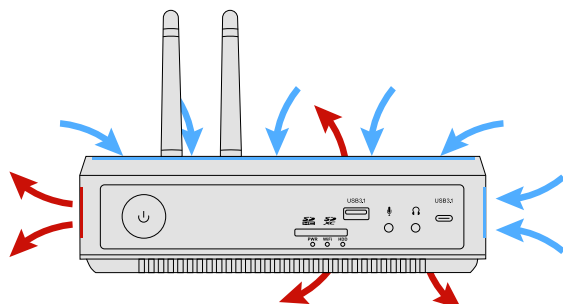


Underside (front above):

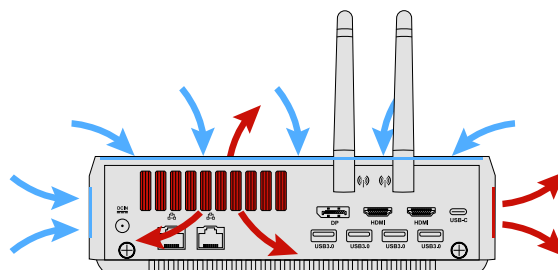


## 1.2. Silent-PC

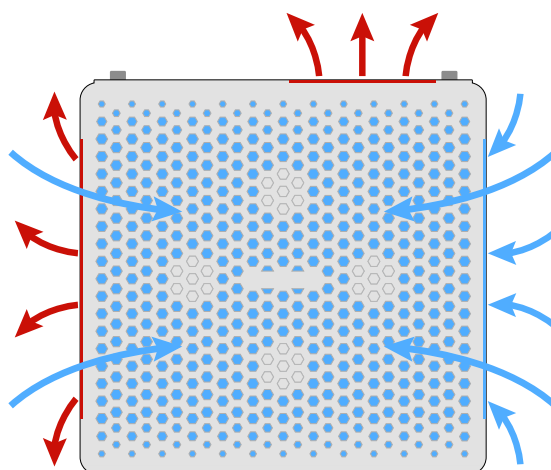
Front:



Back:



Top (front side down):



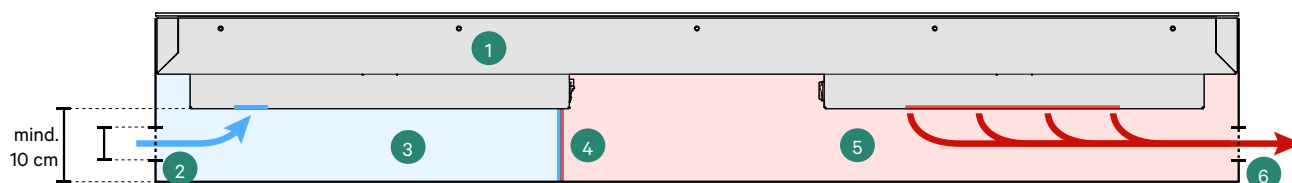
blue: cold incoming air | red: warm outgoing air

## 2. Ventilation diagrams for housing the hardware

### 2.1. Guidelines

- When installing a **Scape® Tangible**, keep a minimum space of 10 cm beneath the underside.
- When installing the devices, make sure that all incoming and outgoing air flows in the same direction! Mixing the cold and warm air reduces the cooling capability and thus the service life of all the devices.
- Thermally separate the intake and exhaust openings of all actively ventilated units with a partition to prevent the cold air from warming up **(4)**.
- If thermal separation is not possible, use a fan to ensure a directed air flow (see example in **Chapter 2.3 - Housing the Scape® Tangible and Silent PC**). These should transport at least the same amount of air as the sum of the fans of all enclosed devices.
- The intake opening of the enclosure **(2)** should measure at least the sum of the air intake openings of all the installed devices (Scape® Tangible + Silent-PC = min. 200 cm<sup>2</sup>). The exhaust opening **(6)** should also be adjusted accordingly. Circular or square openings are more suitable than narrow openings.
  - **Scape® Tangible** = min. 150 cm<sup>2</sup>
  - **Scape® Tangible** + Silent-PC = min. 200 cm<sup>2</sup>
- If the intake and exhaust openings of the enclosure cannot comply with the recommended size, the air flow have to be additionally increased by installing active fans at the openings.

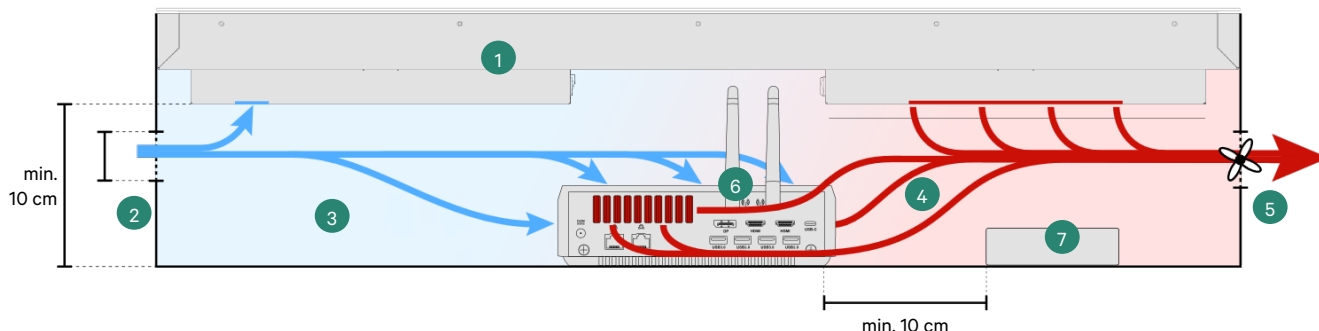
### 2.2. Housing a Scape® Tangible



|   |                                                                               |
|---|-------------------------------------------------------------------------------|
| 1 | <b>Scape® Tangible</b>                                                        |
| 2 | Intake air opening ( <b>Scape® Tangible</b> = at least 150 cm <sup>2</sup> )  |
| 3 | Intake air chamber                                                            |
| 4 | Partition                                                                     |
| 5 | Exhaust air chamber                                                           |
| 6 | Exhaust air opening ( <b>Scape® Tangible</b> = at least 150 cm <sup>2</sup> ) |

## 2.3. Housing the Scape® Tangible and Silent-PC

- Place the external power supply unit (7) in the exhaust air chamber (4) to prevent warming up the cold air.
- Maintain a minimum distance of 10 cm between the Silent-PC (6) and the external power supply unit (7).



|   |                                                                                                           |
|---|-----------------------------------------------------------------------------------------------------------|
| 1 | <b>Scape® Tangible</b>                                                                                    |
| 2 | Intake air opening ( <b>Scape® Tangible</b> + Silent-PC = at least 200 cm <sup>2</sup> )                  |
| 3 | Intake air chamber                                                                                        |
| 4 | Exhaust air chamber                                                                                       |
| 5 | Exhaust air opening ( <b>Scape® Tangible</b> + Silent-PC = at least 200 cm <sup>2</sup> ) with active fan |
| 6 | Silent-PC                                                                                                 |
| 7 | Silent-PC power supply unit                                                                               |



**The Scape® Tangible is equipped with temperature sensors that can be read via the Touch & Object Assistant. If one of the sensors exceeds the maximum value of 60 °C (Temperature 1) or 40 °C (Temperature 2 & 3), please adjust your ventilation system!**

**Any operation of the devices above the recommended range will shorten their service life! Functional impairment or hardware failure due to overheating of the systems are not covered by the warranty obligation of Interactive Scape GmbH.**

## 2.4. Housing with additional heat sources

The ventilation instructions in this document refer exclusively to hardware provided by Interactive Scape GmbH. If you wish to add other heat-generating devices inside the housing, we would be happy to make you an offer to check your individual configuration.

**Interactive Scape GmbH**

Wilhelmine-Gemberg-Weg 6, D-10179 Berlin

T +49 30 69 809 41-00, F +49 30 69 809 429

[www.interactive-scape.com](http://www.interactive-scape.com), [info@interactive-scape.com](mailto:info@interactive-scape.com)