

SPS MINIBOX

Compact, supply or exhaust device, ready to work with internal ventilation duct systems



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The SPS MINIBOX air handling unit is a compact device in the supply and exhaust version. The product line includes 5 sizes with a capacity from 200 to 2100 m³/h.

The unit is adapted to work with internal ventilation duct systems. The device is designed for indoor installation in a suspended or lying system on legs. The compact dimensions of the device allow for installation in small spaces.

The unit is delivered to the customer as a standard ready-to-use unit. With an innovative self-supporting design, we put all the necessary components in a small, compact case. There is a built-in power and control switchgear, full internal wiring (operating in Plug & Play system) and intuitive automation.



Size

10



Air flow [m³/h]

200 – 2100



Compact
device



Supply /Exhaust
Device



Internal
execution



Self-supporting
construction

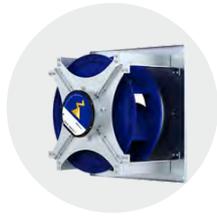


Suspending/ lying
device



Plug&Play
system

Device components



Energy-saving fans with EC motors (IE4)



Panel filters



PTC electric or water heater

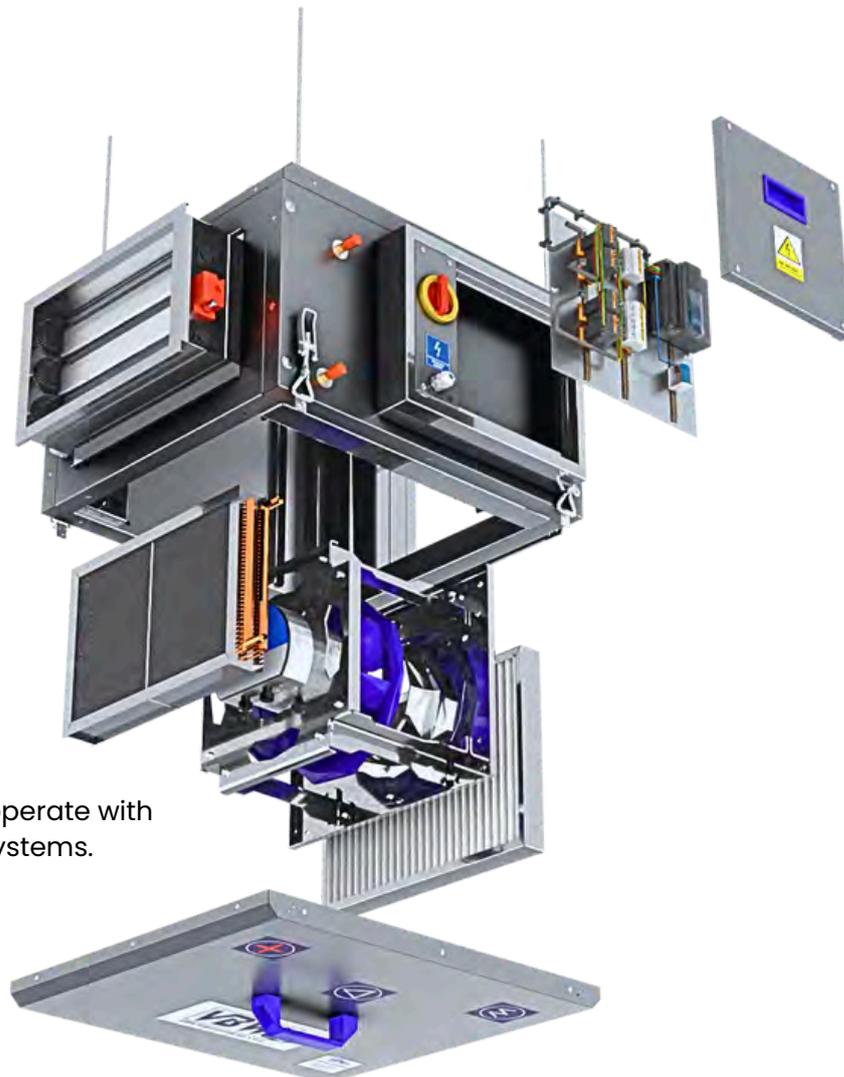


Metal connecting pipes



Plug&Play

Fully internally wired, Plug & Play



The unit is adapted to cooperate with internal ventilation duct systems.

Basic information



Case

- The control unit is made using self-supporting technology without aluminum profiles
- External covers of the control units are made of Magnelis ZM310 coated sheet metal, internal ones are made of galvanized sheet metal.
- Internal execution in a suspended or lying system on legs
- Panel type housing consisting of removable covers
- Adjustable cover clamps
- Flexible connection stubs finished with a P30 frame (eliminate vibrations and noise transmitted in ventilation systems)
- 30mm thick device insulation



Fans

- Highly efficient EC motors
- Engine operation in the optimal speed range
- Reduced heat generation



Heater

- Water heater
- Connections flush with the inner surface of the unit cover ensuring compactness and safety during transport
- Small dimensions in relation to heating power
- PTC electric heater (option)



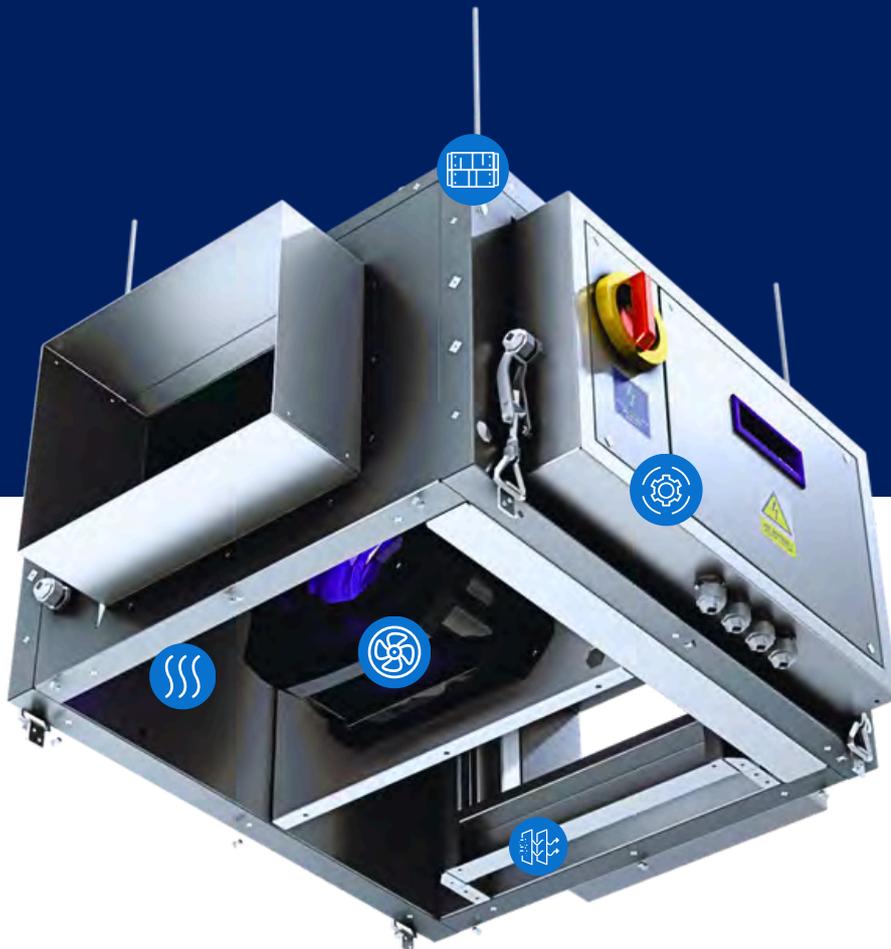
Filters

- ISO Coarse >65% (G4)
- ISO ePM10 50% (M5)
- ISO ePM1 70% (F7)



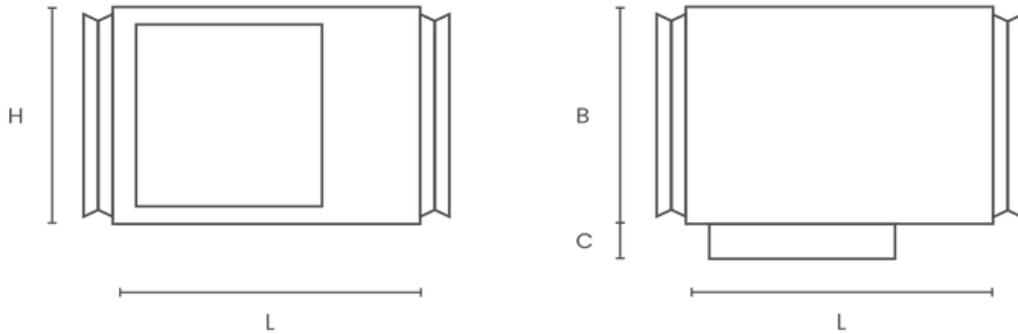
Automation

- Power and control switchboard integrated with the device
- Device cooperation with peripheral elements
- Plug&Play automation with internal wiring



Plug&Play

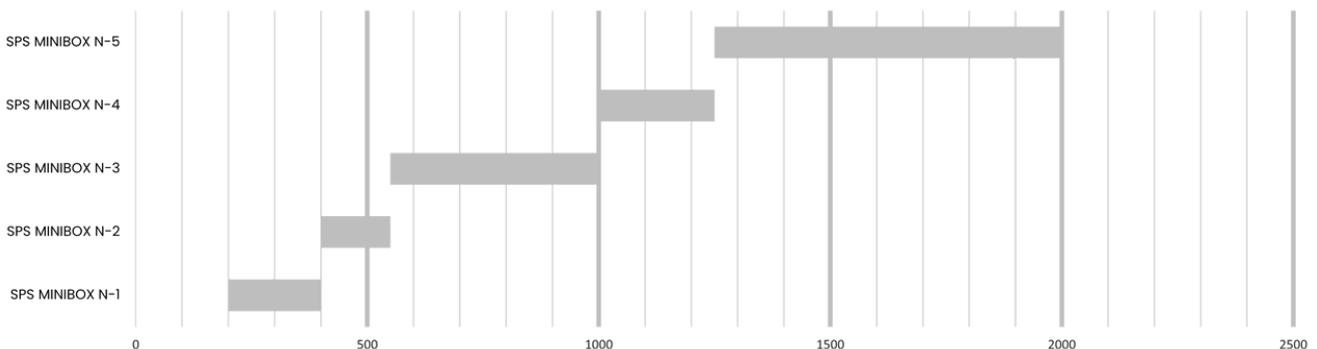
Technical data



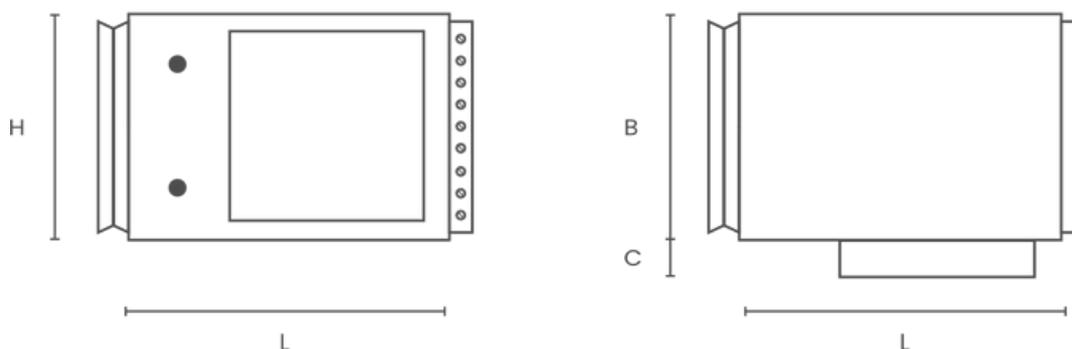
| Size | | | NE-1 | NE-2 | NE-3 | NE-4 | NE-5 |
|--------------------------------------|-------------------------------|--------|-----------|---------|---------|---------|----------|
| Air flow | min. | [m³/h] | 200 | 400 | 550 | 1000 | 1250 |
| | max. | | 400 | 550 | 1000 | 1250 | 2000 |
| External static pressure | | [Pa] | 300 | 300 | 300 | 400 | 500 |
| Max. heat recovery efficiency | | [%] | | | - | | |
| Weight | | [kg] | 36 | 39 | 43 | 61 | 67 |
| Dimensions | L | [mm] | 750 | 750 | 750 | 950 | 950 |
| | B | [mm] | 450 | 450 | 500 | 650 | 780 |
| | C | [mm] | 105 | 105 | 105 | 105 | 105 |
| | H | [mm] | 340 | 340 | 415 | 435 | 435 |
| Insulation thickness | | [mm] | | | 30 | | |
| Connections size | | [mm] | girl200 | 250x200 | 300x250 | 375x300 | 500x300 |
| Energy consumption | engine power | [kW] | 0,17 | 0,17 | 0,17 | 0,5 | 0,5/0,78 |
| | max. power of electric heater | [kW] | 6 | 12 | 18 | 24 | 30 |
| | max. power of water heater | [kW] | | | - | | |
| Motor power (max.) | | [A] | 1,7 | 1,7 | 1,7 | 2,5 | 2,5/4 |
| Voltage | | [V,Hz] | 3~400, 50 | | | | |

Filters

ISO Coarse>65% (G4) ISO ePM10>50% (M5) ISO ePM1>70% (F7)

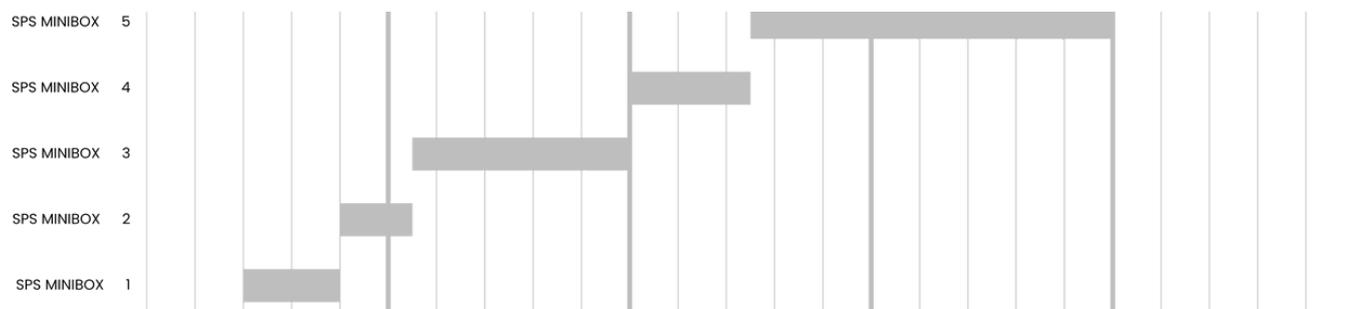


Technical data

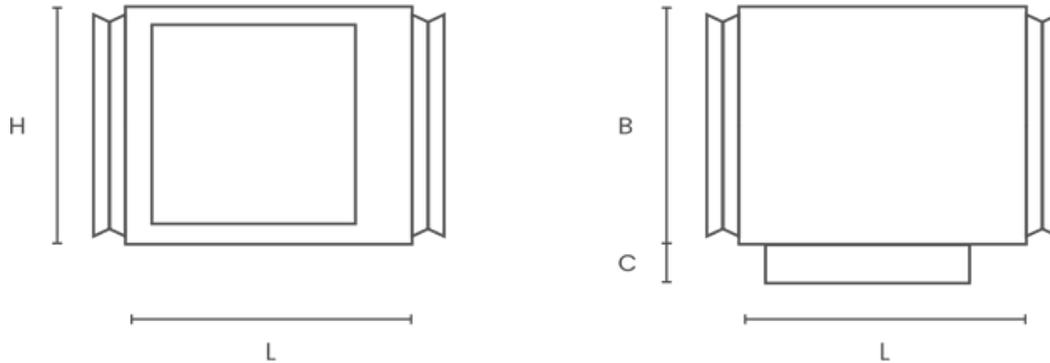


| Size | | | NW-1 | NW-2 | NW-3 | NW-4 | NW-5 |
|--------------------------------------|-------------------------------|--------|---------|---------|-----------|---------|----------|
| Air flow | min. | [m³/h] | 200 | 400 | 550 | 1000 | 1250 |
| | max. | | 400 | 550 | 1000 | 1250 | 2000 |
| External static pressure | | [Pa] | 300 | 300 | 300 | 400 | 500 |
| Max. heat recovery efficiency | | [%] | | | - | | |
| Weight | | [kg] | 38 | 38 | 46 | 49,5 | 54,3 |
| Dimensions | L | [mm] | 680 | 680 | 680 | 800 | 800 |
| | B | [mm] | 450 | 450 | 500 | 550 | 700 |
| | C | [mm] | 50 | 50 | 50 | 50 | 50 |
| | H | [mm] | 340 | 340 | 400 | 400 | 400 |
| Insulation thickness | | [mm] | | | 30 | | |
| Connections size | | [mm] | girl200 | 250x200 | 300x250 | 375x300 | 500x300 |
| Energy consumption | engine power | [kW] | 0,17 | 0,17 | 0,17 | 0,5 | 0,5/0,78 |
| | max. power of electric heater | [kW] | | | - | | |
| | max. power of water heater | [kW] | 6,3 | 8,7 | 16,9 | 21,5 | 34,2 |
| Motor power (max.) | | [A] | 1,7 | 1,7 | 1,7 | 2,5 | 2,5/4 |
| Voltage | | [V,Hz] | | | 3~400, 50 | | |

Filters ISO Coarse>65% (G4) , ISO ePM10>50% (M5), ISO ePM1>70% (F7)



Technical data



| Size | | | W-1 | W-2 | W-3 | W-4 | W-5 |
|--------------------------------------|-------------------------------|--------|---------|---------|-----------|---------|----------|
| Air flow | min. | [m³/h] | 200 | 450 | 700 | 1100 | 1700 |
| | max. | | 450 | 700 | 1100 | 1700 | 2100 |
| External static pressure | | [Pa] | 300 | 300 | 300 | 400 | 500 |
| Max. heat recovery efficiency | | [%] | | | - | | |
| Weight | | [kg] | 29 | 29 | 31 | 38 | 42 |
| Dimensions | L | [mm] | 500 | 500 | 500 | 500 | 500 |
| | B | [mm] | 450 | 450 | 500 | 550 | 700 |
| | H | [mm] | 340 | 340 | 340 | 400 | 400 |
| Insulation thickness | | [mm] | | | 30 | | |
| Connections size | | [mm] | girl200 | 250x200 | 300x250 | 375x300 | 500x300 |
| Energy consumption | engine power | [kW] | 0,17 | 0,17 | 0,17 | 0,5 | 0,5/0,78 |
| | max. power of electric heater | [kW] | | | - | | |
| | max. power of water heater | [kW] | | | - | | |
| Motor power (max.) | | [A] | 1,7 | 1,7 | 1,7 | 2,5 | 2,5/4 |
| Voltage | | [V,Hz] | | | 3~400, 50 | | |

Filters

ISO Coarse>65% (G4) , ISO ePM10>50% (M5), ISO ePM1>70% (F7)

