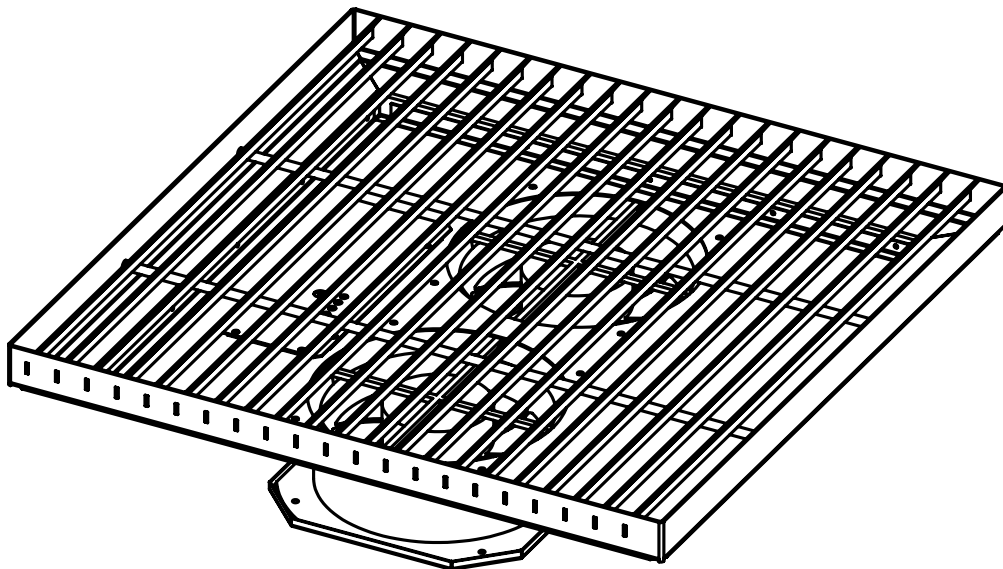


Izradio (ili odgovoran) - Prepared (also subject responsible if other)		Br - No.	
KVL		1555 – BMPV 202048	
Odg.za dok/Odobrio - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev
VZD		13.01.2020.	R1
		File	

Floor fan unit

BMPV 202048



Izradio (ili odgovoran) - Prepared (also subject responsible if other) KVL	Br - No. 1555 – BMPV 202048		
Odg.za dok/Odobrio - Doc respons/Approved VZD	Datum - Date 13.01.2020.	Rev R1	File

Description of floor fan unit BMPV 202048

1. General description

Floor fan unit is a device used for forced circulation of cooled air from the raised floor in room with telecommunications and IT equipment. Usually, the cooled air from a central air conditioner is pushed into the space below the raised floor, and through the holes covered with grids of the double floor into space with equipment. The amount of air that passes through holes with grids is determined by: size and number of holes with grids, fan power central air conditioners, and distance from the air conditioner. Floor fan unit is mounted in front of the cabinet (server cabinet) which has installed equipment with increased heat dissipation , and can not be sufficiently cooled by air from central air conditioner. Floor fan unit is also used for increased ventilation, respectively cooling parts of the server room that are far from the central air conditioner.

Unit BMPV 20248 -unit consists of two integral components:

- SXAV 12075 = Gratings with slant louvers to direct air, whose external dimensions correspond to the dimension of the double floor plates.
- BMPV 202048/1 = fan bellhop on which are mounted two fans and a control unit for fan speed control.

Fan speed is regulated by a five positional rotary switch, which allows switching on/off fan and change of fan speed in steps of 25 % (0-25 % - 50 % - 75 % - 100 %).

Fan speed is indicated by four blue LEDs on the chassis of the control unit.

2. Technical specification

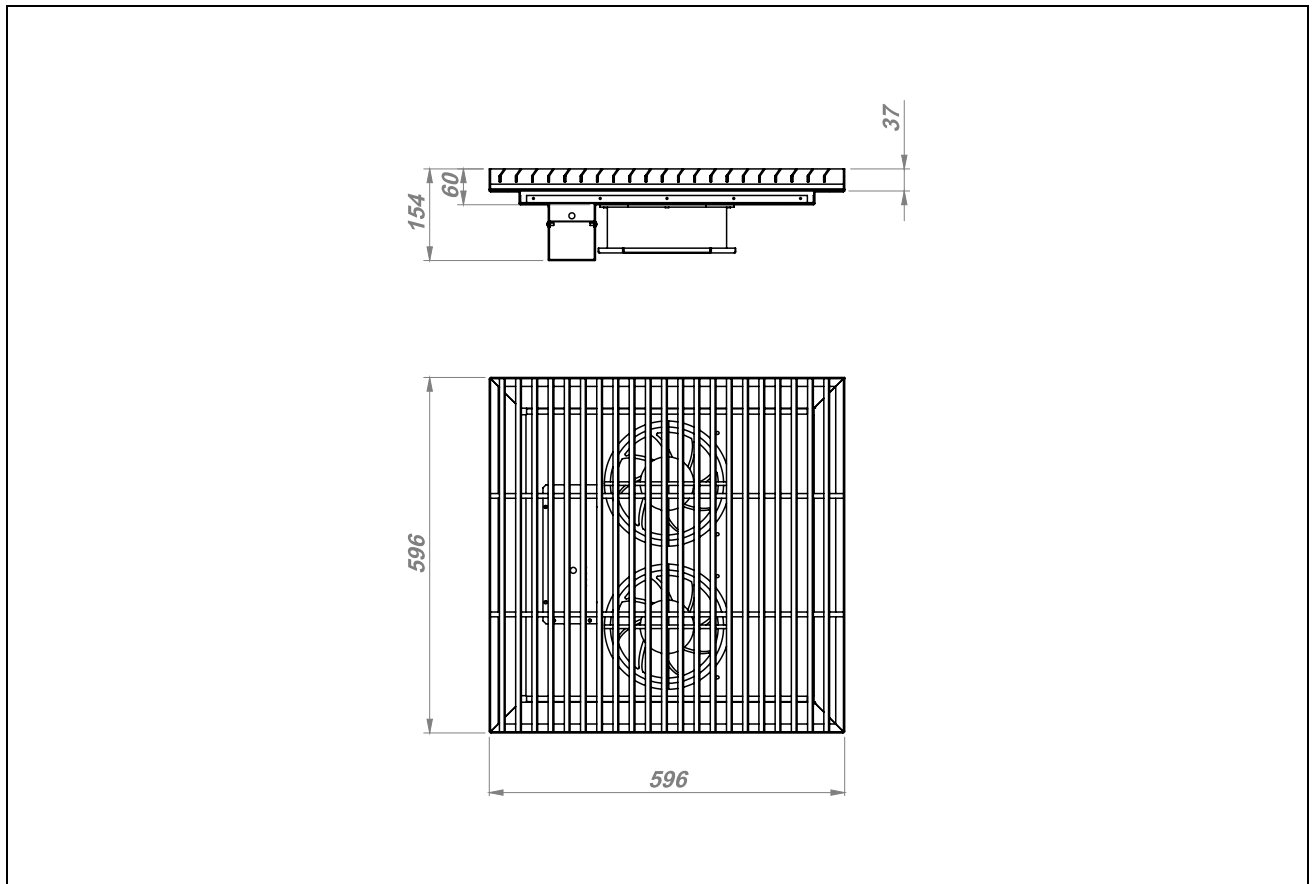
- Supply voltage: 48 Vdc (36Vdc – 57Vdc)
- Maximum input current: 2,4 A (57Vdc)
- Airflow:
 - first speed = 400m³/h (25%)
 - second speed = 800m³/h (50%)
 - third speed= 1.200m³/h (75%)
 - fourth speed = 1.600m³/h (100%)
- Power consumption when the input voltage is 54 Vdc:
 - first speed (25%) = 0,26 A
 - second speed (50%) = 0,52 A
 - third speed (75%) = 1,6 A
 - fourth speed (100%) = 2,2 A
- Maximum cross section of connecting conductor: 2,5 mm²
- Speed signalisation :locally on the front panel of the speed regulator via LEDs
- Dimension: l x w x h = 596 mm x 596 mm x 154 mm
- Colour: grey – RAL 7035

Izradio (ili odgovoran) - Prepared (also subject responsible if other)		Br - No.	
KVL		1555 – BMPV 202048	
Odg.za dok/Odobrio - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev
VZD		13.01.2020.	R1
		File	

3. Mechanical design

Unit dimension: l x w x h = 596 mm x 596 mm x 154 mm

Constructed from steel and protected with method of powder coating (grey RAL 7035).



Draft units with dimensions

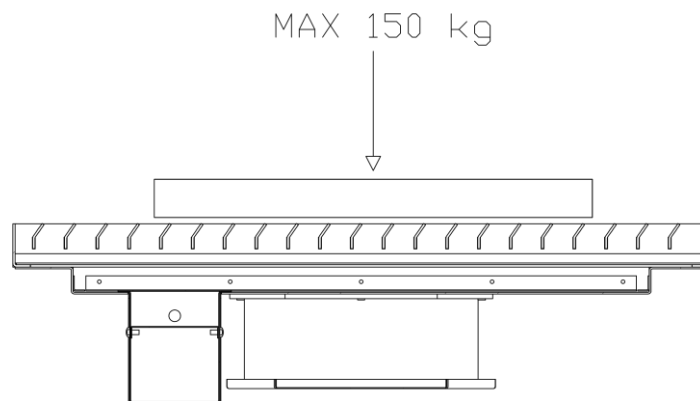
Izradio (ili odgovoran) - Prepared (also subject responsible if other)		Br - No.	
KVL		1555 – BMPV 202048	
Odg.za dok/Odobrio - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev
VZD		13.01.2020.	R1
		File	

4. Protection measures

- Fan unit has a safety net for fans
- Fan unit is protected against changes of power supply polarity
- Fans have build-in thermal protection
- Fans have protection in case of a mechanical lock rotor (blades)
- EMC-immunity: EN 61000-6-2 (industrial environment)
- EMC-emission: EN 55022 (class B)

5. Safety guidelines

- When handling the device, there is a risk of electric shock, so installation and connection can only be performed by qualified personnel.
- The device is not allowed to be mounted in areas with high humidity (over 95%).
- Don't install device in locations exposed to high temperatures ($\geq 45^{\circ}\text{C}$), direct sunlight, and open flames.



Maximum allowed weight to fan unit