

AXIAL ROOF FANS

Series **VENTS VOK**



Axial roof fans with the air capacity up to **2500 m³/h** in the steel casing with the horizontal exhaust of air.

■ Applications

Exhaust ventilation system for various premises for roof mounting. Compatible with Ø 200 to 500 mm round air ducts.

■ Design

The fan casing is made of steel with polymeric coating.

■ Motor

The impellers are powered with two- or four-pole, single- or three-phase asynchronous motors with external rotor and built-in thermal overheating protection with automatic restart depending on the model. Ball bearings in the motor ensure long service life. Motor protection rating IP 44.

■ Speed control

Both smooth or step speed control is performed by means of the thyristor or autotransformer controller. Several fans can be connected to one controller under condition that the total power and operating current do not exceed the rated controller values.

■ Mounting

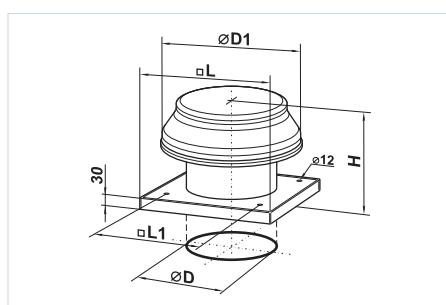
The fan is mounted on the roof directly above the ventilating duct or shaft and is firmly fixed to the flat surface by means of a connecting plate. While mounting VOK fans directly onto the flat roof a supporting block shall be provided to prevent water and snow drops into the vent of the ventilation shaft. Electrical connection and installation shall be performed in compliance with the manual and circuit diagram on the terminal box.

Technical data:

| | VOK 2E 200 | VOK 2E 250 | VOK 4E 250 | VOK 2E 300 | VOK 4E 300 | VOK 4E 350 |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage [V / 50 Hz] | 230 | 230 | 230 | 230 | 230 | 230 |
| Power [W] | 55 | 80 | 50 | 145 | 75 | 140 |
| Current [A] | 0,26 | 0,4 | 0,22 | 0,66 | 0,35 | 0,65 |
| Maximum air flow [m ³ /h] | 860 | 1050 | 800 | 2230 | 1340 | 2500 |
| RPM [min ⁻¹] | 2300 | 2400 | 1380 | 2300 | 1350 | 1380 |
| Noise level at 3 m [dBA] | 50 | 60 | 55 | 60 | 58 | 62 |
| Maximum operating temperature [°C] | -30 +60 | -30 +60 | -30 +60 | -30 +60 | -30 +60 | -30 +60 |
| Protection rating | IP 54 |

Fan overall dimensions:

| Type | Dimensions [mm] | | | | | Mass [kg] |
|------------|-----------------|-----|-----|-----|-----|-----------|
| | ØD | ØD1 | H | L | L1 | |
| VOK 2E 200 | 207 | 341 | 220 | 425 | 330 | 4,3 |
| VOK 2E 250 | 262 | 401 | 250 | 425 | 330 | 6,5 |
| VOK 4E 250 | 262 | 401 | 250 | 425 | 330 | 6,5 |
| VOK 2E 300 | 312 | 401 | 260 | 585 | 450 | 8,7 |
| VOK 4E 300 | 312 | 401 | 260 | 585 | 450 | 8,7 |
| VOK 4E 350 | 362 | 500 | 260 | 655 | 535 | 10,9 |



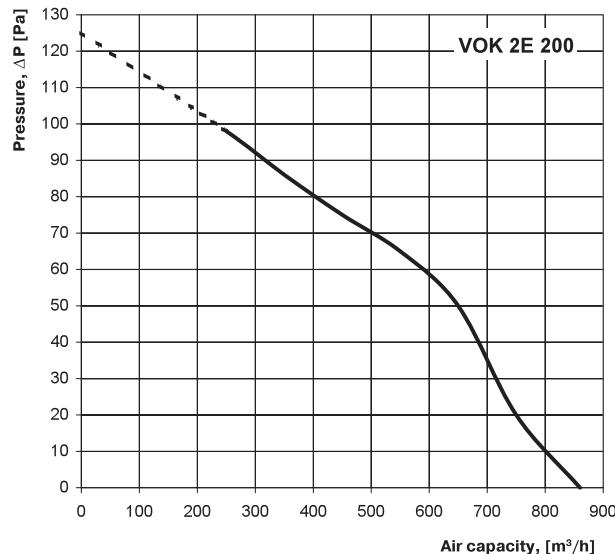
Designation key:

| Series | Motor modification | Impeller diameter |
|------------------|---|--------------------|
| VENTS VOK | Number of poles 2 4 Phase E – single phase | 200; 250; 300; 350 |

Accessories

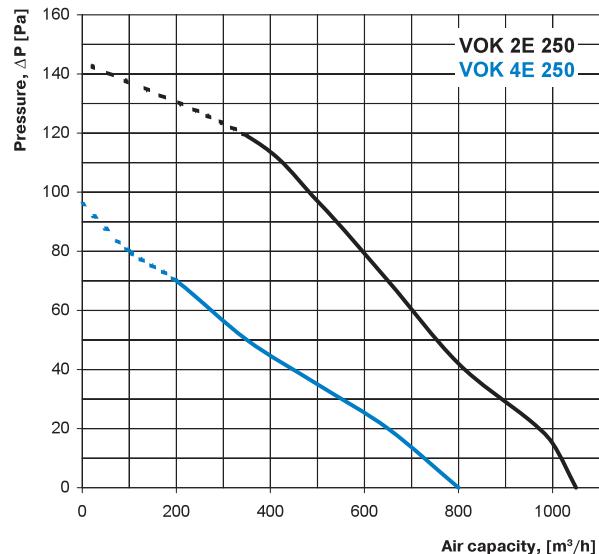


VENTS VOK



| Sound-power level | Hz | Octave-frequency band [Hz] | | | | | | | | |
|--------------------------------|-----|----------------------------|----|-----|-----|-----|------|------|------|----|
| | | Gen | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| L _{WA} to inlet | dBA | 66 | 58 | 58 | 57 | 58 | 57 | 53 | 52 | 46 |
| L _{WA} to environment | dBA | 65 | 57 | 57 | 58 | 60 | 55 | 57 | 53 | 47 |

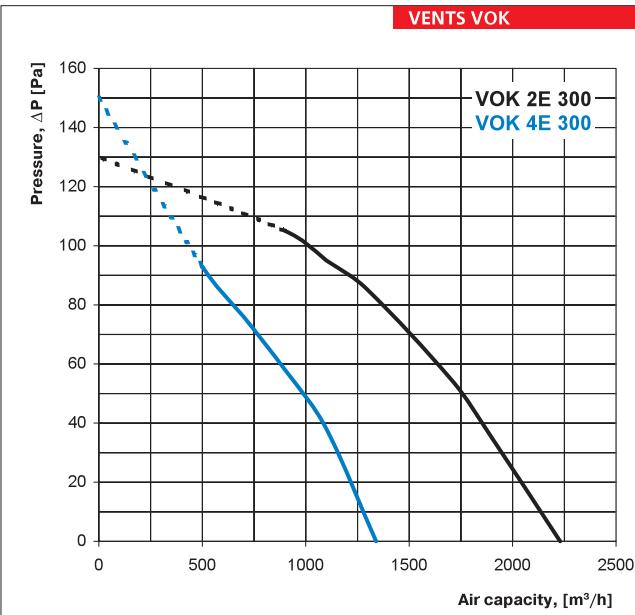
VENTS VOK



VOK 2E 250

| Sound-power level | Hz | Octave-frequency band [Hz] | | | | | | | | |
|--------------------------------|-----|----------------------------|----|-----|-----|-----|------|------|------|----|
| | | Gen | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| L _{WA} to inlet | dBA | 76 | 69 | 66 | 69 | 71 | 68 | 68 | 61 | 56 |
| L _{WA} to environment | dBA | 78 | 65 | 70 | 69 | 71 | 69 | 64 | 62 | 60 |

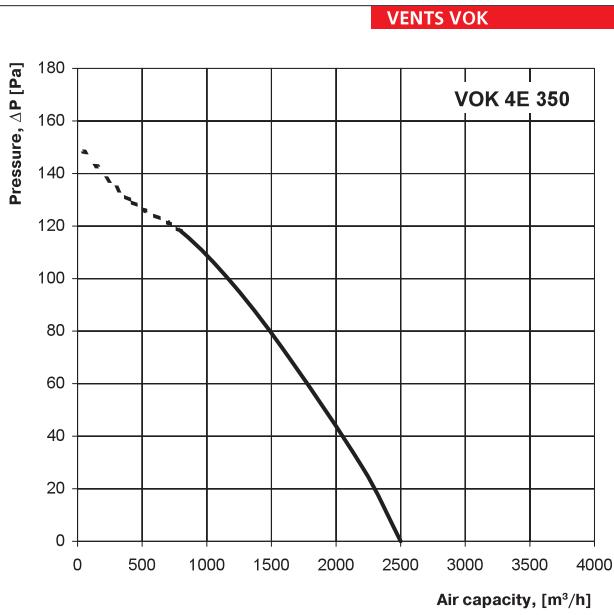
| Sound-power level | Hz | Octave-frequency band [Hz] | | | | | | | | |
|--------------------------------|-----|----------------------------|----|-----|-----|-----|------|------|------|----|
| | | Gen | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| L _{WA} to inlet | dBA | 59 | 50 | 51 | 53 | 55 | 53 | 51 | 45 | 43 |
| L _{WA} to environment | dBA | 60 | 51 | 52 | 54 | 55 | 54 | 51 | 45 | 42 |



VOK 2E 300

| Sound-power level | Hz | Octave-frequency band [Hz] | | | | | | | | |
|--------------------------------|-----|----------------------------|----|-----|-----|-----|------|------|------|----|
| | | Gen | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| L _{WA} to inlet | dBA | 79 | 68 | 71 | 73 | 72 | 71 | 69 | 64 | 59 |
| L _{WA} to environment | dBA | 78 | 68 | 72 | 72 | 74 | 72 | 70 | 64 | 61 |

| Sound-power level | Hz | Octave-frequency band [Hz] | | | | | | | | |
|--------------------------------|-----|----------------------------|----|-----|-----|-----|------|------|------|----|
| | | Gen | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| L _{WA} to inlet | dBA | 66 | 55 | 57 | 58 | 58 | 57 | 53 | 51 | 48 |
| L _{WA} to environment | dBA | 65 | 56 | 56 | 57 | 57 | 57 | 55 | 51 | 49 |



Sound-power level

| Hz | Gen | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
|--------------------------------|-----|----|-----|-----|-----|------|------|------|------|----|
| L _{WA} to inlet | dBA | 70 | 61 | 62 | 61 | 65 | 61 | 58 | 56 | 53 |
| L _{WA} to environment | dBA | 68 | 61 | 63 | 63 | 62 | 60 | 60 | 56 | 52 |