

Series
VENTS VKM 100-315



Series
VENTS VKM 355-450



Inline centrifugal fans in steel casing with air flow up to **5260 m³/h**

■ **Applications**

Supply and exhaust ventilation systems for commercial, office and other public or industrial premises. The steel casing provides reliable operation in case of outdoor installation. For premises with high requirements to the noise level we suggest units in low-noise modification (VKM...Q).

■ **Design**

The fan casing is made of steel with polymeric coating.

■ **Motor**

The impeller with backward curved blades is powered by the single phase motor with external rotor and overheating protection with automatic restart. Some standard sizes are available with high-powered motors (VKMS). **The VKM...E models are equipped with an energy-efficient motor with low energy demand.** The motor is equipped with ball bearings for long service life designed for at least

40000 hours. For precise features, safe operation and low noise, each turbine is dynamically balanced while assembly. Motor protection rating is IP44.

■ **Speed control**

Smooth or step speed control with a thyristor or an autotransformer speed controller. Several fans may be connected to one speed controller provided that the total power and operating current do not exceed the rated speed controller parameters. The VKM...P models are equipped with a built-in speed controller (available for diameters 100...315).

■ **Mounting**

Mounting to wall or ceiling at any angle is performed with fastening brackets supplied with the unit. The fan is powered through the external terminal box. Electric connection and installation shall be performed in compliance with the manual and wiring diagram on the terminal box.

■ **VKM fan with electronic temperature and control module**

The ideal solution for ventilation of the premises requiring permanent temperature control, i.e. greenhouses. The fan with the electronic temperature and speed control module provides automatic control of the motor speed (air flow) depending on air temperature in the air duct or in the room.

The front panel of the electronic module has the following control knobs:

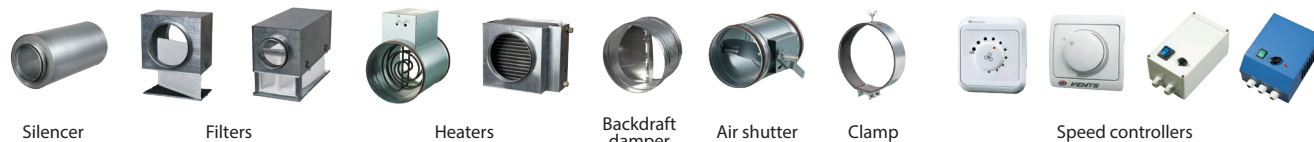
- speed control knob for setting the motor speed
- thermostat control knob for setting the temperature set point
- thermostat indicator light

VKM...Un - the model with an external temperature sensor fixed on a 4 m cable (Un/U2n option). The temperature sensor has mechanical protection.

Designation key

| Series | | Air duct diameter | Options |
|------------------|------------------------------|--|--|
| VENTS VKM | S: high-powered motor | 100; 125; 150; 160; 200; 250; 315; 355; 400; 450 | <p>E: low energy demand motor. Q: low-powered motor. Un: speed controller with an electronic thermostat and a temperature sensor fixed on a 4-meter cable. Temperature-based operation logic. U2n: speed controller with an electronic thermostat and a temperature sensor fixed on a 4-meter cable. Temperature-based switching on/off. R1: power cord with a mains plug. P: integrated smooth speed controller.</p> |

Accessories



Silencer

Filters

Heaters

Backdraft damper

Air shutter

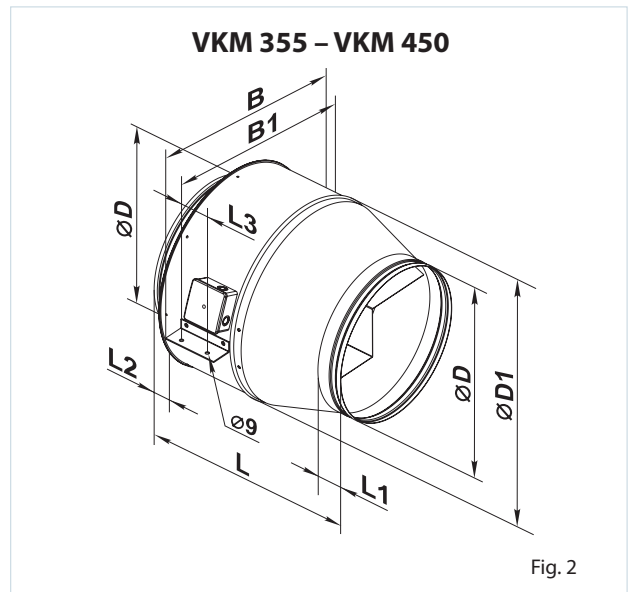
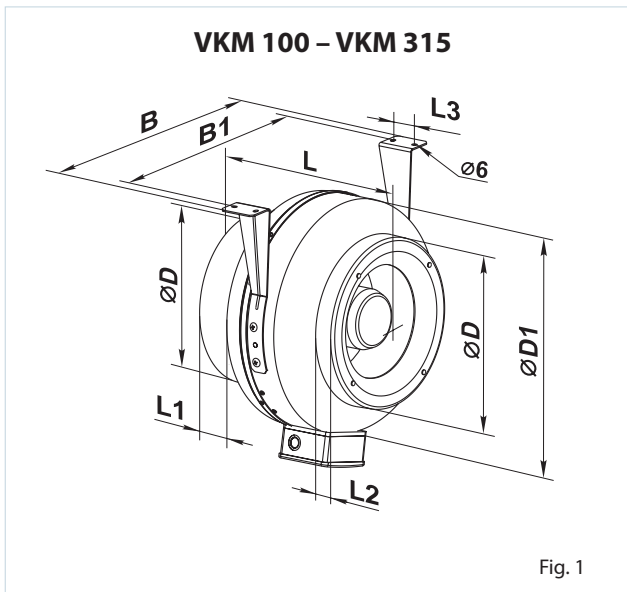
Clamp

Speed controllers

Fan overall dimensions

| Type | Dimensions [mm] | | | | | | | | Weight [kg] | Fig. no. |
|-----------|-----------------|-----|-----|-----|-----|----|----|----|-------------|----------|
| | ØD | ØD1 | B | B1 | L | L1 | L2 | L3 | | |
| VKM 100 Q | 98 | 255 | 310 | 270 | 205 | 20 | 25 | 30 | 2.1 | 1 |
| VKM 100 | 98 | 255 | 310 | 270 | 205 | 20 | 25 | 30 | 2.4 | 1 |
| VKM 125 Q | 123 | 255 | 310 | 270 | 205 | 20 | 25 | 30 | 2.9 | 1 |
| VKM 125 | 123 | 255 | 310 | 270 | 205 | 20 | 25 | 30 | 3.2 | 1 |
| VKM 150 | 149 | 345 | 395 | 355 | 200 | 20 | 20 | 40 | 4.7 | 1 |
| VKMS 150 | 149 | 345 | 395 | 355 | 230 | 20 | 20 | 40 | 5.4 | 1 |
| VKM 160 | 159 | 305 | 360 | 320 | 220 | 25 | 25 | 30 | 5.0 | 1 |
| VKMS 160 | 158 | 340 | 390 | 350 | 245 | 25 | 20 | 40 | 6.4 | 1 |
| VKM 200 | 198 | 345 | 395 | 355 | 255 | 25 | 30 | 40 | 6.6 | 1 |
| VKMS 200 | 198 | 345 | 395 | 355 | 255 | 25 | 30 | 40 | 8.3 | 1 |
| VKM 250 E | 248 | 345 | 395 | 355 | 250 | 25 | 30 | 40 | 6.2 | 1 |
| VKM 250 | 248 | 345 | 395 | 355 | 250 | 25 | 30 | 40 | 8.4 | 1 |
| VKM 315 | 314 | 405 | 455 | 415 | 260 | 30 | 30 | 40 | 8.0 | 1 |
| VKMS 315 | 314 | 405 | 455 | 415 | 290 | 30 | 30 | 40 | 8.8 | 1 |
| VKM 355 Q | 353 | 460 | 522 | 522 | 506 | 60 | 60 | 70 | 18.8 | 2 |
| VKM 400 | 398 | 570 | 663 | 634 | 570 | 60 | 60 | 70 | 25.1 | 2 |
| VKM 450 | 448 | 608 | 700 | 670 | 644 | 60 | 60 | 80 | 27.26 | 2 |

FAN SERIES VENTS VKM



FANS FOR ROUND DUCTS

Technical data

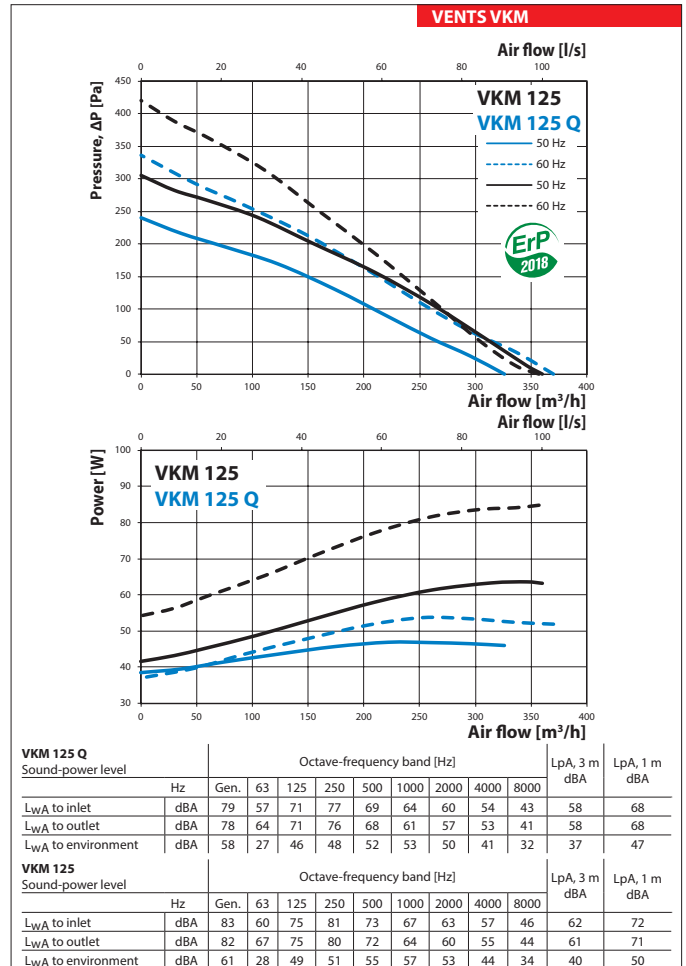
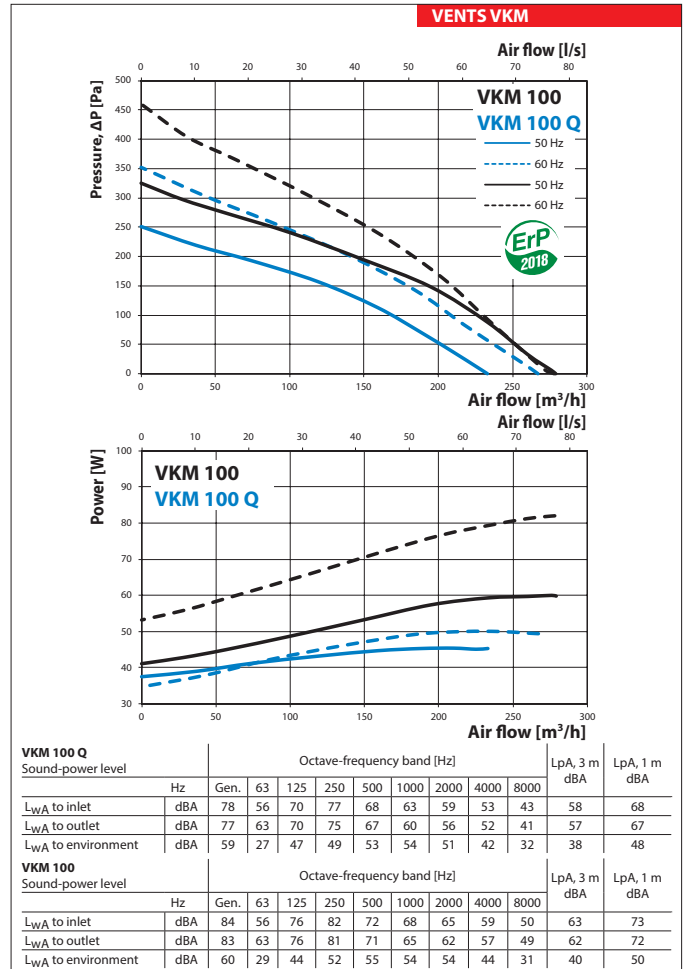
| | VKM 100 Q | | VKM 100 | |
|----------------------------------|-----------|------|---------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 45 | 50 | 60 | 82 |
| Current [A] | 0.24 | 0.23 | 0.28 | 0.36 |
| Max. air flow [m³/h] | 233 | 267 | 279 | 278 |
| RPM [min ⁻¹] | 2780 | 3300 | 2840 | 3320 |
| Noise level at 3 m [dBA] | 38 | 39 | 40 | 41 |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | C | - | C | - |
| Protection rating | IPX4 | | | |

To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).

Technical data

| | VKM 125 Q | | VKM 125 | |
|----------------------------------|-----------|------|---------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 47 | 54 | 64 | 85 |
| Current [A] | 0.25 | 0.24 | 0.29 | 0.37 |
| Max. air flow [m³/h] | 326 | 370 | 360 | 357 |
| RPM [min ⁻¹] | 2760 | 3240 | 2840 | 3300 |
| Noise level at 3 m [dBA] | 37 | 38 | 40 | 42 |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | C | - | C | - |
| Protection rating | IPX4 | | | |

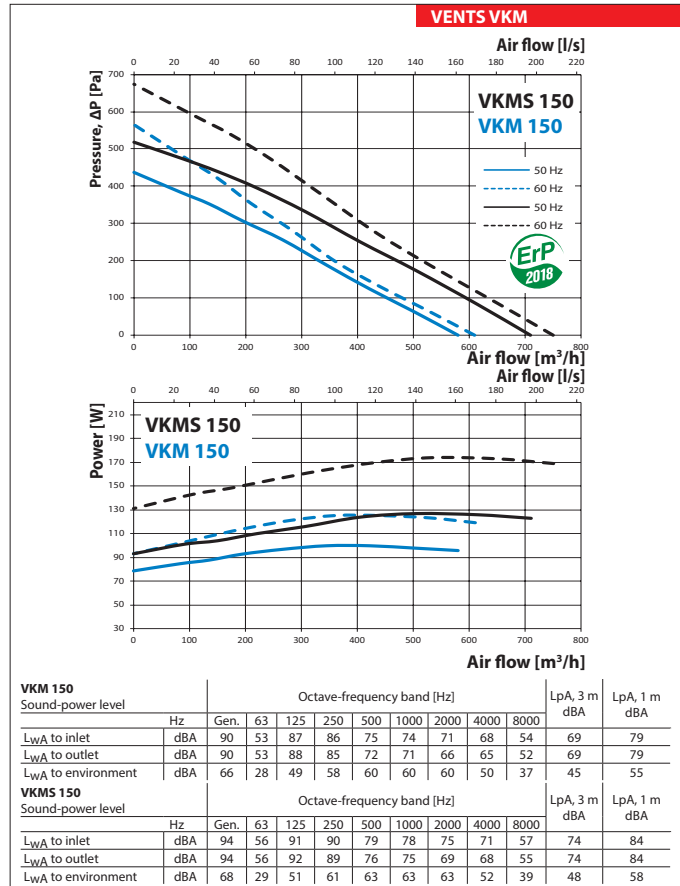
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Technical data

| | VKM 150 | | VKMS 150 | |
|----------------------------------|-----------|------|----------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 100 | 125 | 127 | 174 |
| Current [A] | 0.45 | 0.55 | 0.55 | 0.76 |
| Max. air flow [m³/h] | 580 | 610 | 710 | 750 |
| RPM [min ⁻¹] | 2700 | 3100 | 2760 | 3150 |
| Noise level at 3 m [dBA] | 45 | 46 | 48 | 49 |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | C | - | C | - |
| Protection rating | IPX4 | | | |

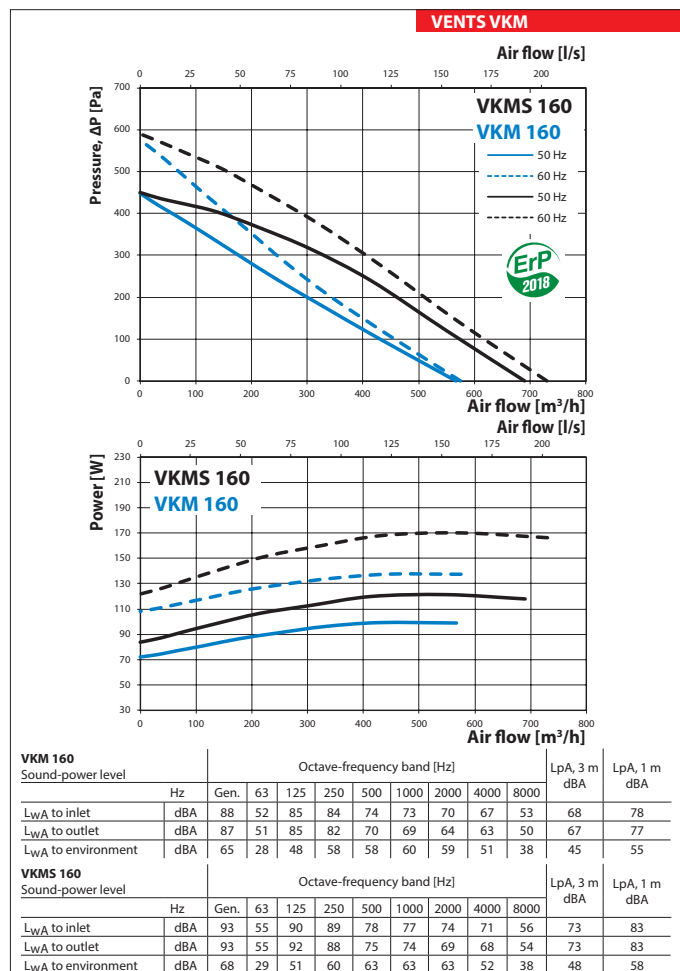
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Technical data

| | VKM 160 | | VKMS 160 | |
|----------------------------------|-----------|------|----------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 99 | 137 | 121 | 170 |
| Current [A] | 0.44 | 0.61 | 0.53 | 0.75 |
| Max. air flow [m³/h] | 567 | 575 | 690 | 730 |
| RPM [min ⁻¹] | 2770 | 3160 | 2800 | 3210 |
| Noise level at 3 m [dBA] | 45 | 47 | 48 | 49 |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | C | - | C | - |
| Protection rating | IPX4 | | | |

To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).



FANS FOR ROUND DUCTS

Technical data

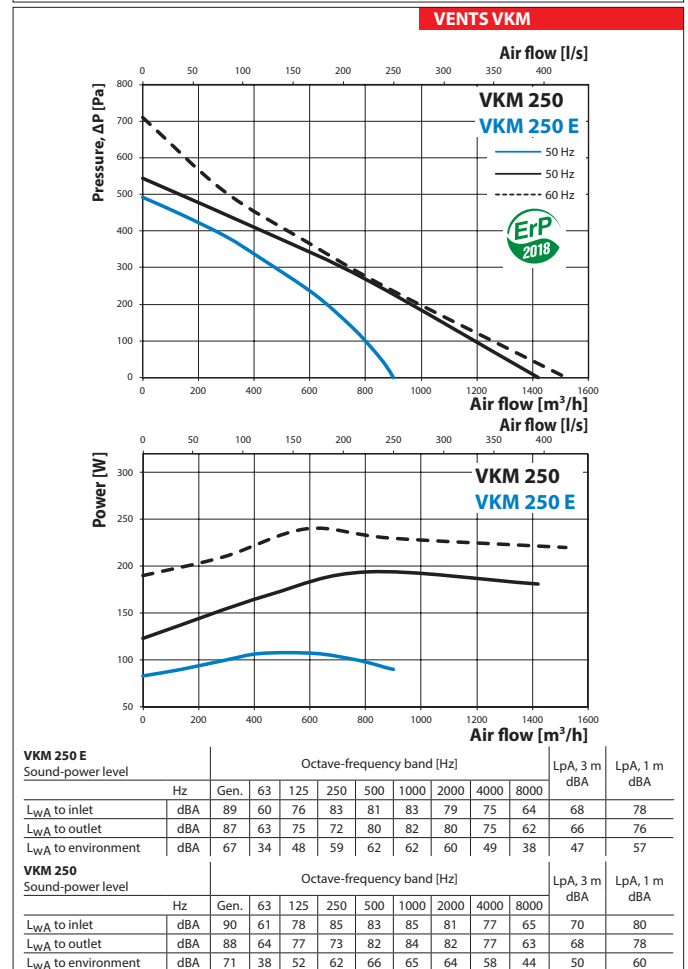
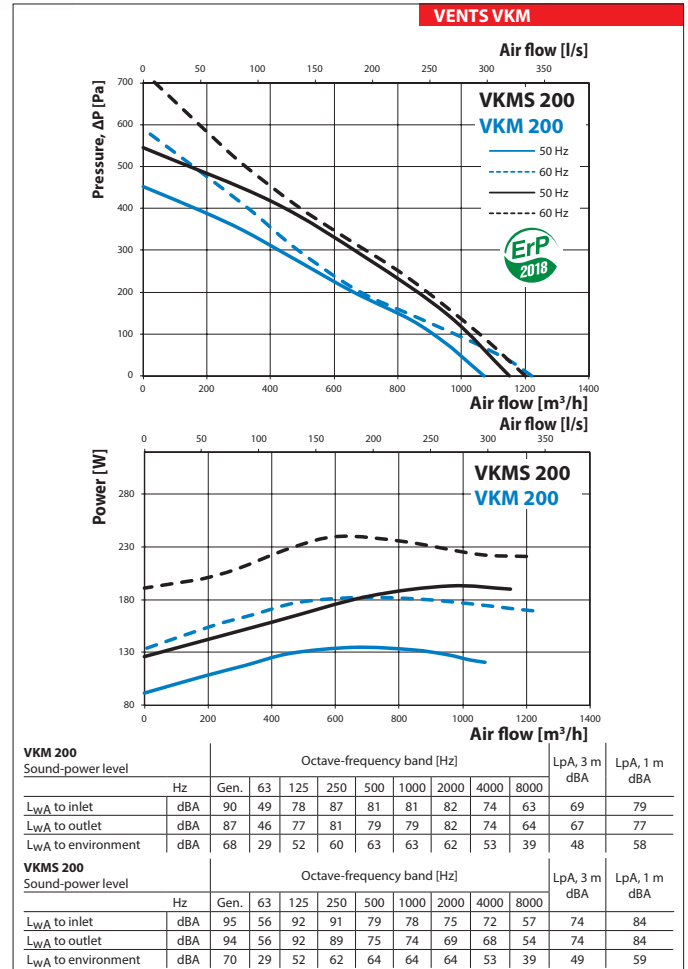
| | VKM 200 | | VKMS 200 | |
|----------------------------------|-----------|------|----------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 135 | 182 | 193 | 240 |
| Current [A] | 0.59 | 0.79 | 0.84 | 1.05 |
| Max. air flow [m³/h] | 1070 | 1220 | 1150 | 1200 |
| RPM [min⁻¹] | 2710 | 3120 | 2780 | 2850 |
| Noise level at 3 m [dBA] | 48 | 50 | 49 | 49 |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | C | - | - | - |
| Protection rating | IPX4 | | | |

To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).

Technical data

| | VKM 250 E | | VKM 250 | |
|----------------------------------|-----------|------|---------|--|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 50 | 60 | |
| Power [W] | 95 | 194 | 240 | |
| Current [A] | 0.47 | 0.85 | 1.05 | |
| Max. air flow [m³/h] | 900 | 1420 | 1520 | |
| RPM [min⁻¹] | 2050 | 2790 | 2860 | |
| Noise level at 3 m [dBA] | 47 | 50 | 51 | |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | C | - | - | |
| Protection rating | IPX4 | | | |

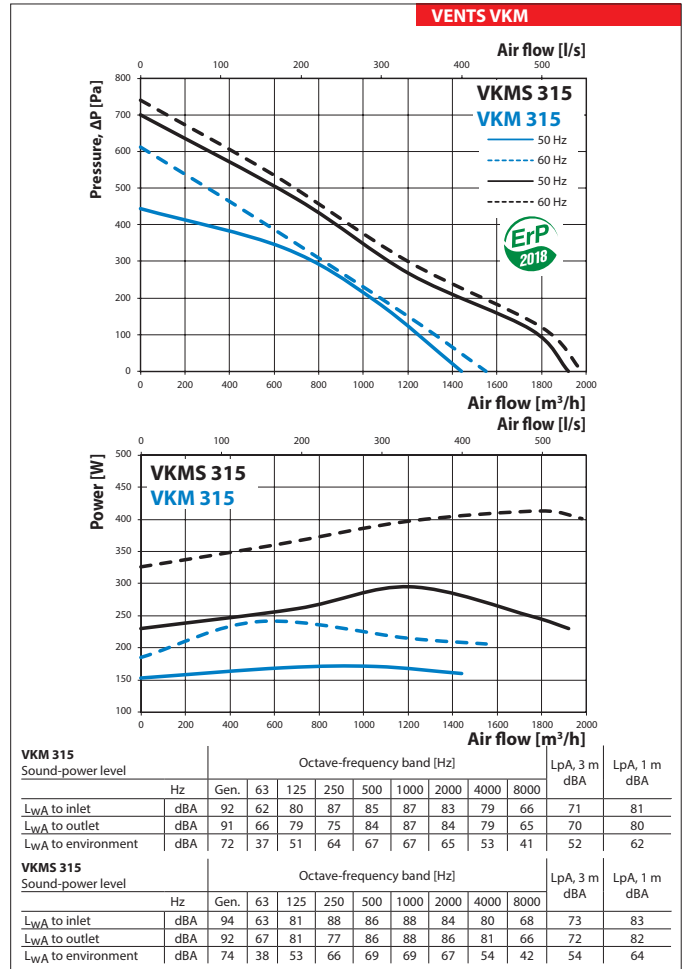
To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).



Technical data

| | VKM 315 | | VKMS 315 | |
|----------------------------------|-----------|------|----------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 171 | 241 | 295 | 413 |
| Current [A] | 0.77 | 1.05 | 1.34 | 1.8 |
| Max. air flow [m³/h] | 1440 | 1550 | 1920 | 1980 |
| RPM [min ⁻¹] | 2600 | 2850 | 2720 | 2780 |
| Noise level at 3 m [dBA] | 52 | 53 | 54 | 55 |
| Transported air temperature [°C] | -25...+45 | | | |
| SEC class | - | - | - | - |
| Protection rating | IPX4 | | | |

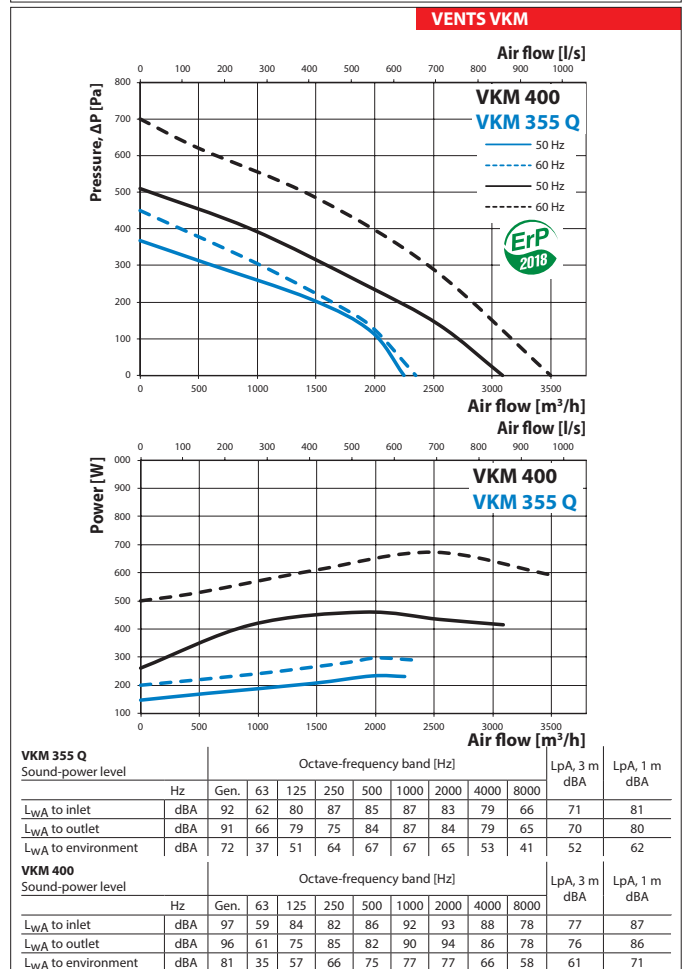
To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).



Technical data

| | VKM 355 Q | | VKM 400 | |
|----------------------------------|-----------|-----------|-----------|------|
| Nominal voltage [VAC] | 1~220-240 | | | |
| Frequency [Hz] | 50 | 60 | 50 | 60 |
| Power [W] | 233 | 297 | 460 | 673 |
| Current [A] | 1.06 | 1.30 | 2.23 | 3.05 |
| Max. air flow [m³/h] | 2250 | 2350 | 3090 | 3500 |
| RPM [min ⁻¹] | 1375 | 1620 | 1370 | 1585 |
| Noise level at 3 m [dBA] | 58 | 59 | 61 | 64 |
| Transported air temperature [°C] | -25...+45 | -40...+80 | -40...+55 | |
| SEC class | - | - | - | - |
| Protection rating | IPX4 | | | |

To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).



Technical data

| | VKM 450 | |
|-----------------------------------|-----------|-----------|
| Nominal voltage [VAC] | 1~220-240 | |
| Frequency [Hz] | 50 | 60 |
| Power [W] | 665 | 1250 |
| Current [A] | 2.89 | 5.40 |
| Max. air flow [m ³ /h] | 5300 | 6280 |
| RPM [min ⁻¹] | 1265 | 1560 |
| Noise level at 3 m [dBA] | 65 | 73 |
| Transported air temperature [°C] | -40...+70 | -25...+60 |
| SEC class | - | - |
| Protection rating | IPX4 | |

To meet the requirements of ErP 2018, a speed controller and local demand control typology must be applied (connect a sensor).

