

## FANS FOR ROUND DUCTS

Series  
**VENTS VKM 100-250 E**Series  
**VENTS VKM 100-315**Series  
**VENTS VKM 355-450**Inline centrifugal fans in steel casing with the air capacity up to **5260 m<sup>3</sup>/h****Applications**

Supply and exhaust systems for various 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. For easy connection and operation the power cord with a plug can be provided (VKM...R).

**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 in high-powered modifications (VKMS). **The VKM...E models are equipped with energy-efficient motor with low energy demand.** The motor is equipped

with ball bearings for long service life designed for at least 40 000 hours. For precise features, safe operation and low noise, each turbine is dynamically balanced while assembly. Motor protection rating IP 44.

**Speed control**

Smooth or step speed control with a thyristor or 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.

**The fan with electronic temperature and control module (U option).**

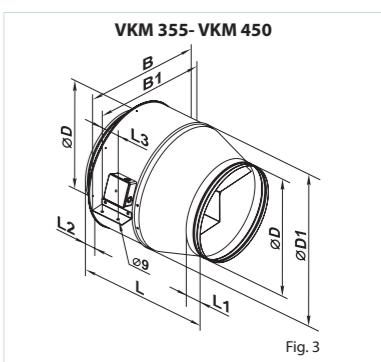
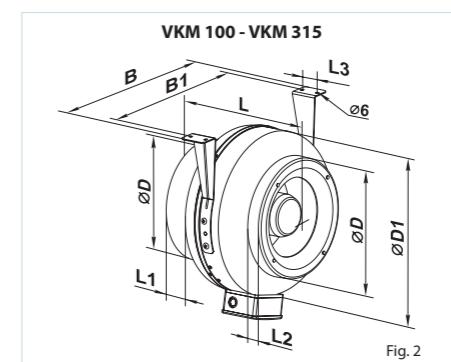
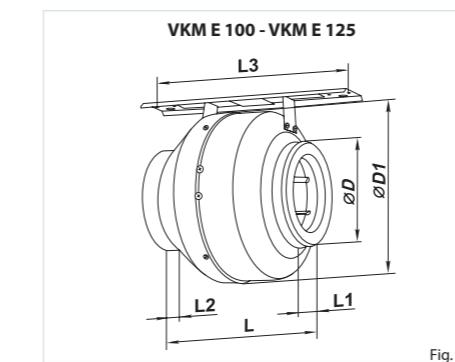
The ideal solution for ventilation of the premises requiring permanent temperature control, i.e. greenhouses. The fan with the electronic temperature and speed control module provides automatic control of the motor speed (air capacity) depending on air temperature in the air duct or in the room. The 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 / U1n option). The temoerature sensor has mechanial protection.

**Fan overall dimensions:**

Type	Dimensions [mm]								Weight [kg]	Fig. no.
	ØD	ØD1	B	B1	L	L1	L2	L3		
VKM 100 E	100	204	—	—	195	20	20	258	2.1	1
VKM 100 Q	98	254	298	258	205	20	25	30	3.45	2
VKM 100	98	254	298	258	205	20	25	30	3.45	2
VKM 125 E	125	204	—	—	195	20	20	258	2.1	1
VKM 125 Q	123	254	298	258	205	20	25	30	3.58	2
VKM 125	123	254	298	258	205	20	25	30	3.58	2
VKM 150 Q	149	304	349	309	200	20	25	30	3.65	2
VKM 150	149	304	349	309	220	25	25	30	3.65	2
VKMS 150	149	340	386	346	226	20	20	40	4.7	2
VKM 160 Q	159	304	349	309	200	20	25	30	3.65	2
VKM 160	159	304	357	317	220	25	25	30	3.65	2
VKMS 160	159	340	386	346	226	20	20	40	4.7	2
VKM 200 E	198	344	390	350	240	25	29	40	6.1	2
VKM 200	198	344	390	350	240	25	29	40	5.7	2
VKMS 200	198	344	390	350	250	25	29	40	5.85	2
VKM 250 E	248	344	390	350	249	25	31	40	6.1	2
VKM 250 Q	248	344	390	350	249	25	31	40	5.1	2
VKM 250	248	344	390	350	249	25	31	40	5.1	2
VKM 315	314	404	454	414	260	25	40	40	7.3	2
VKMS 315	314	404	454	414	288	25	40	40	7.83	2
VKM 355 Q	353	460	522	522	506	60	60	70	18.8	3
VKM 400	398	570	663	634	570	60	60	70	25.1	3
VKM 450	448	608	700	670	644	60	60	80	27.26	3

**Designation key:**

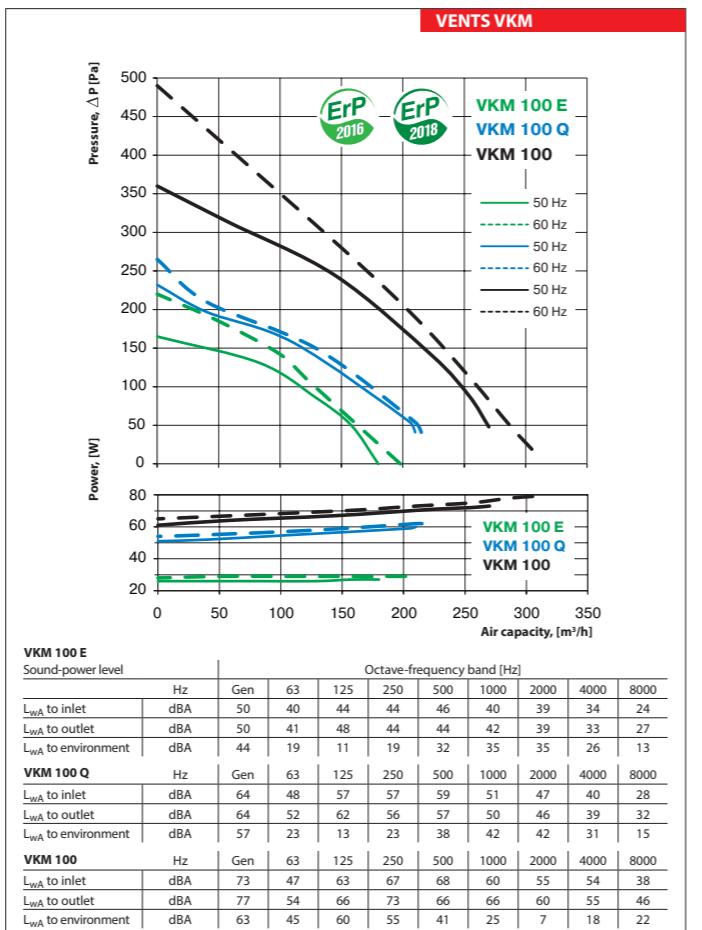
Series	Air duct diameter	Options	ErP data
VENTS VKM	S – high-powered motor	E – low energy demand motor. Q – low-powered motor. Un – speed controller with electronic thermostat and external temperature sensor fixed on 4 m cable. Equipped with power cord and IEC C14 electric plug. P – built-in smooth speed controller and power cord with IEC C14 electric plug. R – power cord with IEC C14 electric plug.	Overall efficiency η, [%] Measurement category MC Efficiency category EC Efficiency grade N Variable speed drive VSD Power [kW] Current [A] Air flow [m <sup>3</sup> /h] Static pressure [Pa] Speed [n/min <sup>-1</sup> ] Specific ratio SR
	100; 125; 150; 160; 200; 250; 315; 355; 400; 450		

**Accessories**

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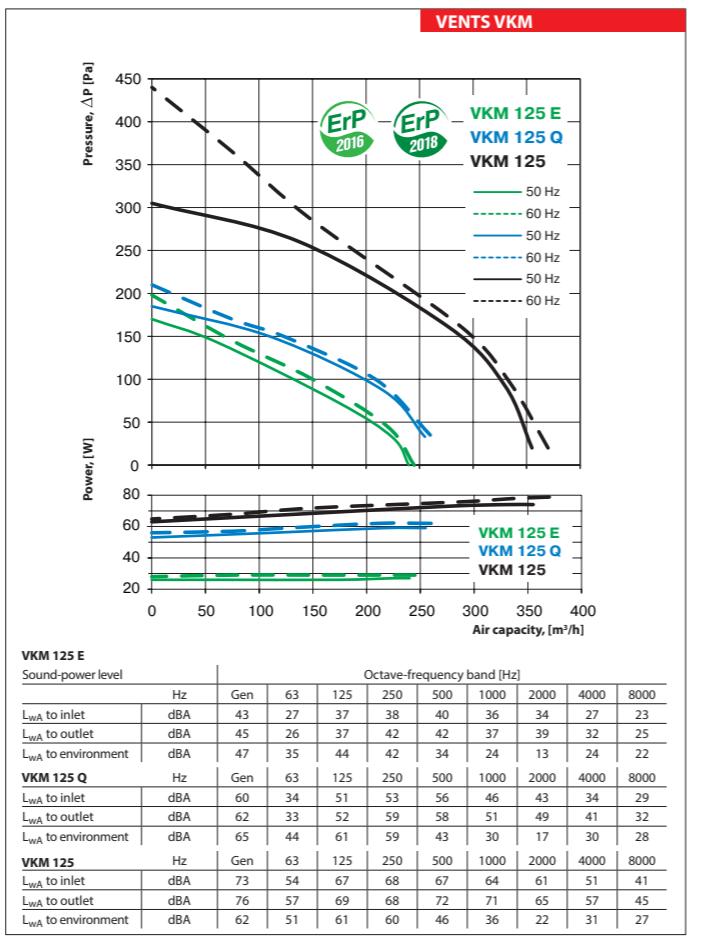
## Technical data:

	VKM 100 E		VKM 100 Q		VKM 100	
Nominal voltage [VAC]	1~ 220-240		1~ 220-240		1~ 220-240	
Frequency [Hz]	50	60	50	60	50	60
Power [W]	27	28	60	61	73	79
Current [A]	0,13	0,13	0,37	0,37	0,32	0,34
Max. air capacity [m³/h]	180	198	210	215	270	305
RPM [min⁻¹]	2745	3230	2620	2700	2830	2850
Noise level at 3 m [dBA]	32	34	36	36	47	48
Transported air temperature [°C]	-25 +50	-25 +50	-25 +55	-25 +50	-25 +55	+50
SEC class	C	C	C			
Protection rating	IP X4		IP X4		IP X4	



## Technical data:

	VKM 125 E		VKM 125 Q		VKM 125	
Nominal voltage [VAC]	1~ 220-240		1~ 220-240		1~ 220-240	
Frequency [Hz]	50	60	50	60	50	60
Power [W]	27	28	60	61	75	80
Current [A]	0,13	0,13	0,37	0,37	0,33	0,35
Max. air capacity [m³/h]	240	245	255	260	355	375
RPM [min⁻¹]	2780	3210	2535	2650	2800	2830
Noise level at 3 m [dBA]	32	34	36	36	47	47
Transported air temperature [°C]	-25 +50	-25 +50	-25 +55	-25 +50	-25 +55	+50
SEC class	B	C	C			
Protection rating	IP X4		IP X4		IP X4	

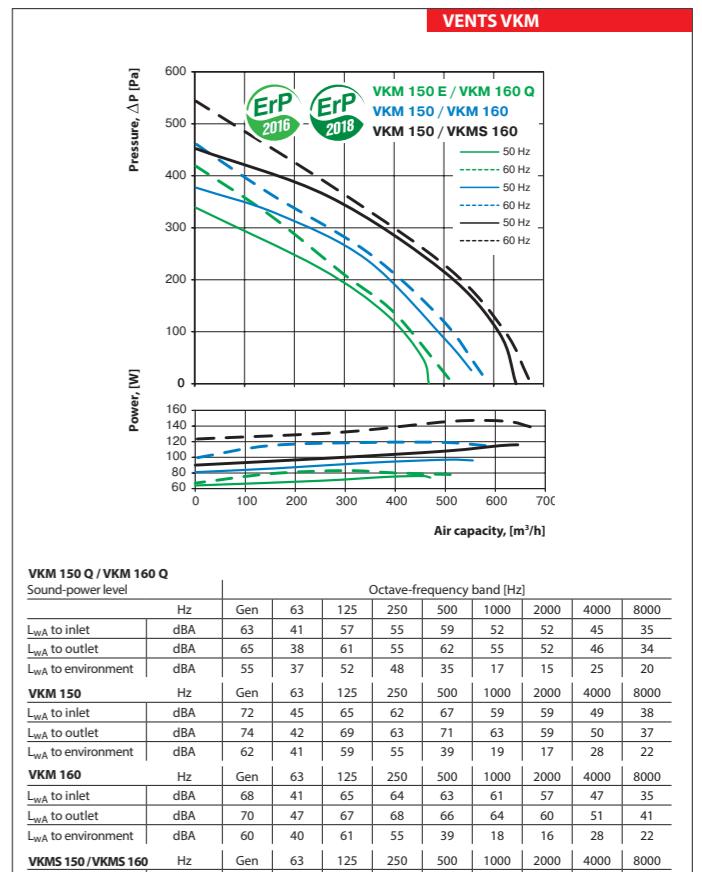


## Technical data:

	VKM 150 Q		VKM 150		VKMS 150	
Nominal voltage [VAC]	1~ 220-240		1~ 220-240		1~ 220-240	
Frequency [Hz]	50	60	50	60	50	60
Power [W]	75	83	98	119	116	146
Current [A]	0,33	0,36	0,43	0,52	0,52	0,65
Max. air capacity [m³/h]	470	510	555	580	645	670
RPM [min⁻¹]	2515	2750	2705	2855	2625	3095
Noise level at 3 m [dBA]	46	47	47	48	50	52
Transported air temperature [°C]	-25 +55	-25 +50	-25 +55	-25 +50	-25 +55	+50
SEC class	B	B	B			
Protection rating	IP X4		IP X4		IP X4	

## Technical data:

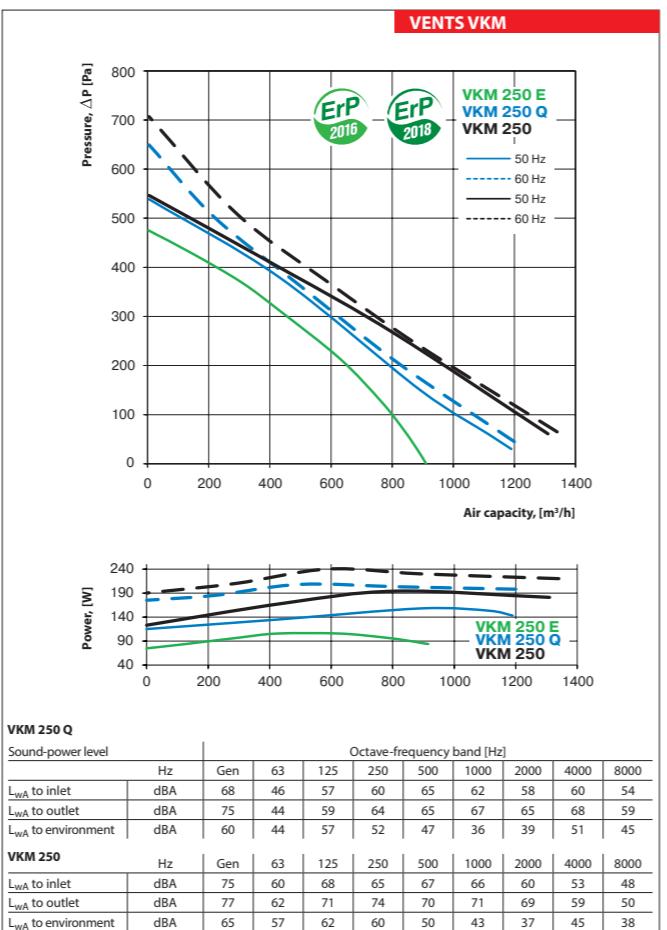
	VKM 200		VKM 200		VKM 200E	
Nominal voltage [VAC]	1~ 220-240		1~ 220-240		230	
Frequency [Hz]	50	60	50	60	50	50
Power [W]	154	205	193	240	95	95
Current [A]	0,67	0,9	0,84	1,05	0,47	0,47
Max. air capacity [m³/h]	950	1000	1100	1140	780	780
RPM [min⁻¹]	2375	2510	2780	2850	1950	1950
Noise level at 3 m [dBA]	48	50	51	53	39	39
Transported air temperature [°C]	-25 +50	-25 +50	-25 +45	-25 +50	-25 +55	-
SEC class	B	B	B			
Protection rating	IP X4		IP X4		IP X4	



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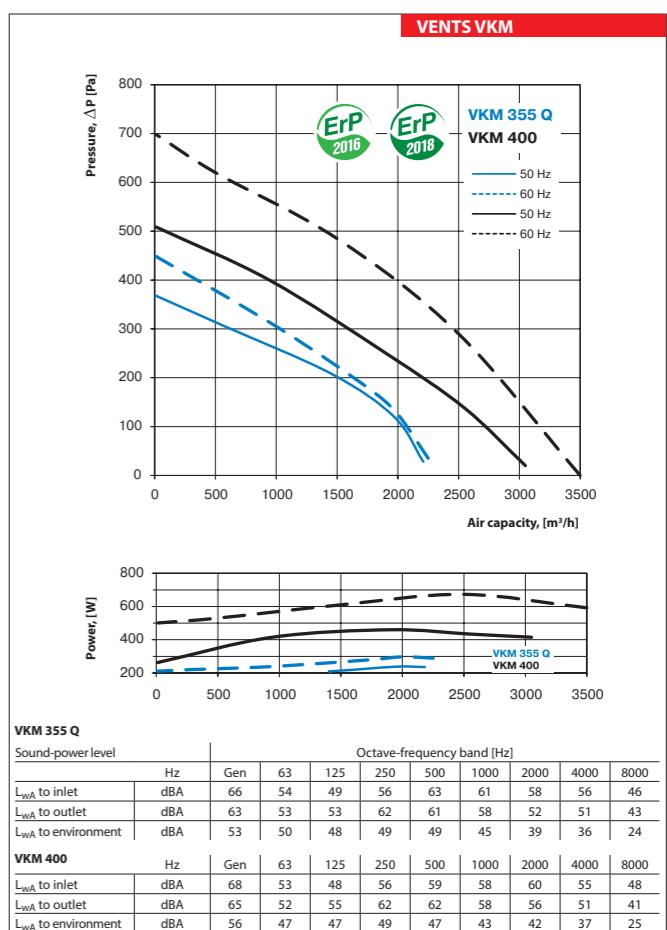
## Technical data:

	VKM 250 Q		VKM 250		VKM 250 E
Nominal voltage [VAC]	1~ 220-240		1~ 220-240		230
Frequency [Hz]	50	60	50	60	50
Power [W]	158	208	194	240	95
Current [A]	0,69	0,91	0,85	1,05	0,47
Max. air capacity [m³/h]	1190	1200	1310	1340	900
RPM [min⁻¹]	2315	2430	2790	2860	2050
Noise level at 3 m [dBA]	52	52	52	53	44
Transported air temperature [°C]	-25 +50	-25 +50	-25 +50	-25 +50	-25 +55
SEC Class	-	-	-	-	B
Protection rating	IP X4		IP X4		IP X4



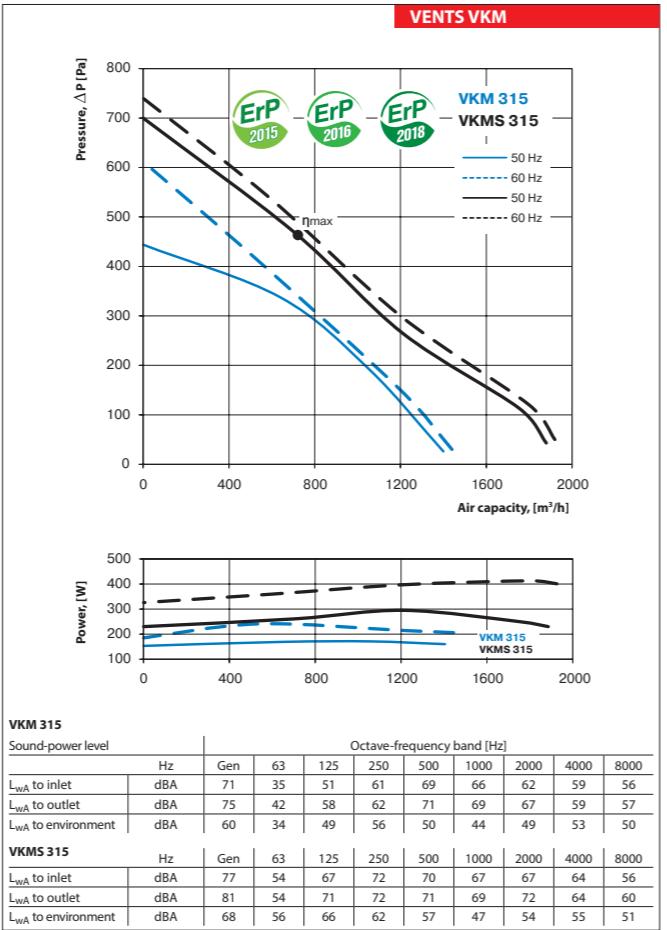
## Technical data:

	VKM 355 Q		VKM 400	
Nominal voltage [VAC]	1~ 220-240		1~ 220-240	
Frequency [Hz]	50	60	50	60
Power [W]	233	297	460	673
Current [A]	1,06	1,3	2,23	3,05
Max. air capacity [m³/h]	2210	2250	3050	3500
RPM [min⁻¹]	1375	1620	1370	1585
Noise level at 3 m [dBA]	58	59	61	64
Transported air temperature [°C]	-25 +45	-25 +45	-40 +80	-40 +55
Protection rating	IP X4		IP X4	



## Technical data:

	VKM 315		VKMS 315	
Nominal voltage [VAC]	1~ 220-240		1~ 220-240	
Frequency [Hz]	50	60	50	60
Power [W]	171	241	296	413
Current [A]	0,77	1,05	1,34	1,8
Max. air capacity [m³/h]	1400	1440	1880	1920
RPM [min⁻¹]	2600	2850	2720	2780
Noise level at 3 m [dBA]	52	53	54	55
Transported air temperature [°C]	-25 +50	-25 +50	-25 +45	-25 +50
Protection rating	IP X4		IP X4	



## Technical data:

	VKM 450	
Nominal voltage [VAC]	1~ 220-240	
Frequency [Hz]	50	60
Power [W]	665	1250
Current [A]	2,89	5,4
Max. air capacity [m³/h]	5260	6280
RPM [min⁻¹]	1265	1560
Noise level at 3 m [dBA]	65	73
Transported air temperature [°C]	-40 +70	-25 +60
Protection rating	IP X4	

