

Series
VENTS VKMz



In-line centrifugal fans in galvanized casing with the air capacity up to **1540 m³/h**

■ **Applications**

Supply and exhaust ventilation systems for various premises suitable for external surface mounting. For premises with high requirements to noise level we offer units in low-noise modification (VKMz..Q).

■ **Design**

The fan casing is made of galvanized steel. For easy connection and operation the fan can be equipped with the power cord with a plug (VKMz..R).

■ **Motor**

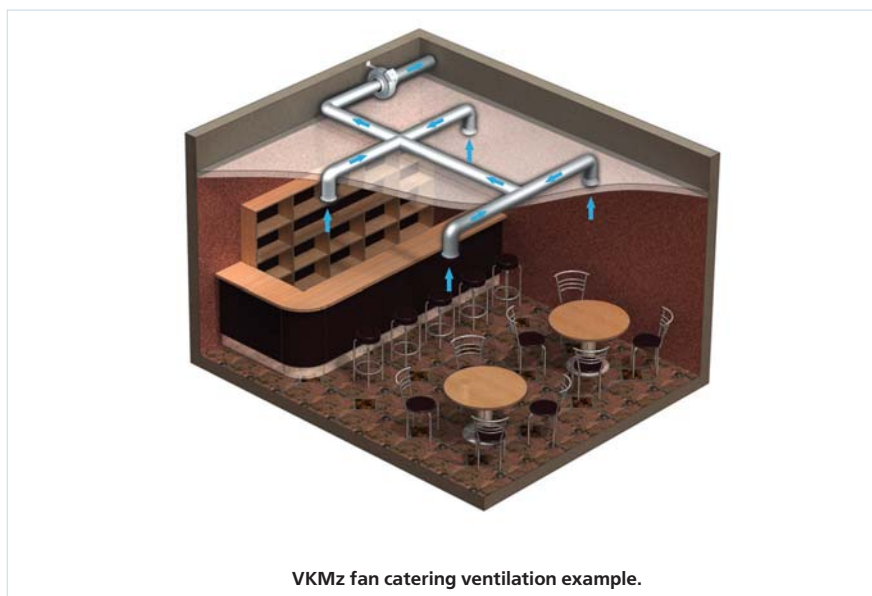
The impeller with backward blades is powered by the single-phase motor with external rotor and overheating protection with automatic restart. The motor is equipped with ball bearings for long service life designed for at least 40 000 hours. For precise features, safe operation and low noise, each impeller is dynamically balanced while assembly. Motor protection rating IP 44.

■ **Speed control**

Both smooth and step speed control is performed with the thyristor or autotransformer controller. Several fans can be connected to one controller in case the total power and operating current do not exceed the rated controller values.

■ **Mounting**

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



Designation key: _____

Fan series	Flange diameter	Additional options
VENTS VKMz	100; 125; 150; 160; 200; 250; 315	Q – low-noise design; R – power cord with C14 plug.

Accessories



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Technical data:

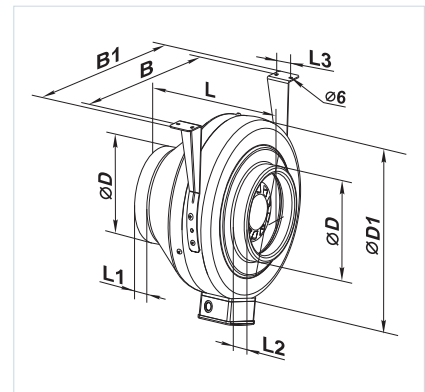
	VKMz 100 Q	VKMz 100	VKMz 125 Q	VKMz 125	VKMz 150	VKMz 160
Voltage [V / 50 Hz]	230	230	230	230	230	230
Power [W]	60	72	60	78	75	78
Current [A]	0,37	0,32	0,37	0,34	0,33	0,34
Maximum air flow [m³/h]	195	250	230	330	455	455
RPM [min ⁻¹]	2670	2820	2605	2820	2770	2760
Noise level at 3 m [dBA]	35	46	35	46	46	46
Maximum operating temperature [°C]	-25 +55	-25 +55	-25 +55	-25 +55	-25 +55	-25 +55
Protection rating	IP X4	IP X4	IP X4	IP X4	IP X4	IP X4

Technical data:

	VKMz 200 Q	VKMz 200	VKMz 250 Q	VKMz 250	VKMz 315 Q	VKMz 315
Voltage [V / 50 Hz]	230	230	230	230	230	230
Power [W]	139	157	134	152	151	185
Current [A]	0,61	0,69	0,59	0,66	0,66	0,81
Maximum air flow [m³/h]	840	1000	980	1070	1330	1540
RPM [min ⁻¹]	2790	2740	2785	2765	2680	2730
Noise level at 3 m [dBA]	48	50	51	52	52	53
Maximum operating temperature [°C]	-25 +50	-25 +45	-25 +50	-25 +50	-25 +50	-25 +45
Protection rating	IP X4	IP X4	IP X4	IP X4	IP X4	IP X4

Fan overall dimensions:

Type	Dimensions [mm]								Mass [kg]
	∅D	∅D1	B	B1	L	L1	L2	L3	
VKMz 100 Q	98	237	253	293	202	23	22	30	3,1
VKMz 100	98	237	253	293	202	23	22	30	3,2
VKMz 125 Q	123	237	253	293	202	23	22	30	3,1
VKMz 125	123	237	253	293	202	23	22	30	3,15
VKMz 150	148	278	294	334	200	25	23	30	3,8
VKMz 160	158	278	294	334	200	25	23	30	3,8
VKMz 200 Q	198	332	340	380	245	25	29	40	4,2
VKMz 200	198	332	340	380	245	25	29	40	4,4
VKMz 250 Q	249	332	340	380	213	25	29	40	4,1
VKMz 250	249	332	340	380	213	25	29	40	4,3
VKMz 315 Q	313	402	410	450	308	33	55	40	5,5
VKMz 315	313	402	410	450	308	33	55	40	5,7



External terminal box for power supply

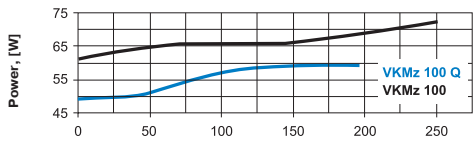
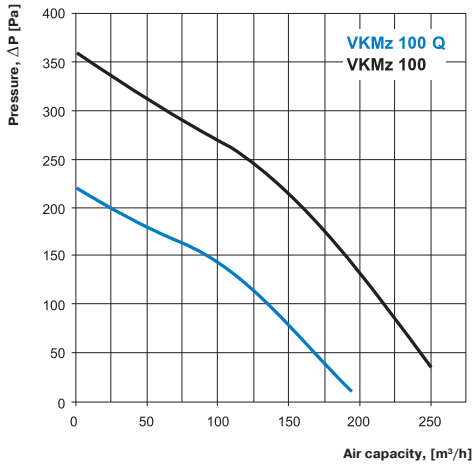


Fastening bracket for easy mounting supplied with the fan



VENTS VKMZ...R is equipped with the power cord

VENTS VKMz



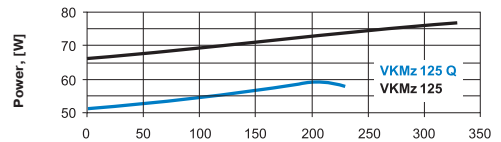
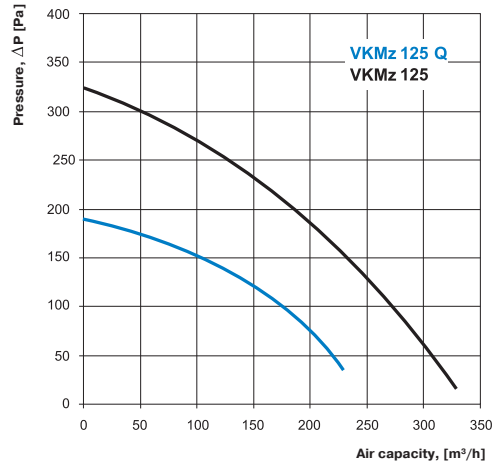
VKMz 100 Q

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	63	51	57	56	57	51	46	40	29
L _{WA} to outlet	dBA	65	54	62	58	61	57	50	45	33
L _{WA} to environment	dBA	55	19	14	21	34	42	41	29	17

VKMz 100

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	72	47	67	68	67	60	54	53	42
L _{WA} to outlet	dBA	73	56	67	72	66	63	58	57	42
L _{WA} to environment	dBA	64	43	60	57	41	24	6	17	24

VENTS VKMz



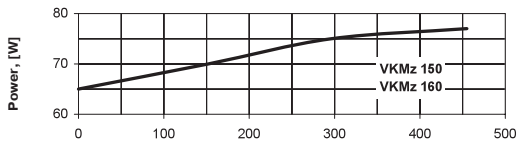
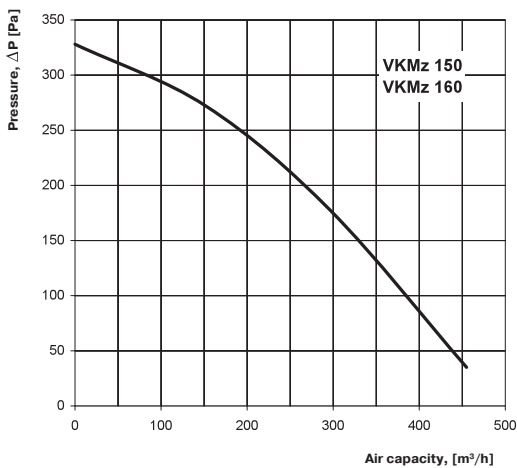
VKMz 125 Q

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	59	31	52	54	53	49	46	35	30
L _{WA} to outlet	dBA	61	35	53	56	60	51	49	35	34
L _{WA} to environment	dBA	64	46	60	59	43	33	15	30	28

VKMz 125

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	75	56	63	68	69	64	61	52	41
L _{WA} to outlet	dBA	75	58	71	74	72	65	65	56	47
L _{WA} to environment	dBA	64	52	64	59	48	36	23	30	27

VENTS VKMz



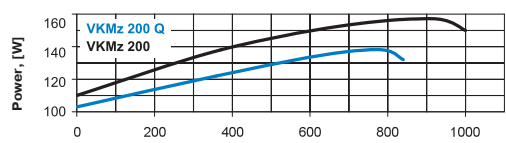
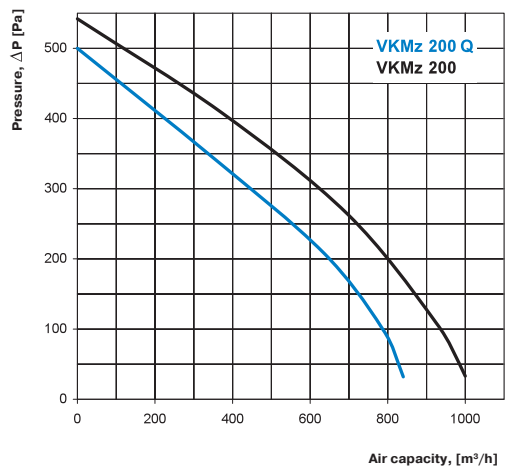
VKMz 150

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	72	42	65	64	64	61	60	48	38
L _{WA} to outlet	dBA	73	47	68	66	69	64	59	47	41
L _{WA} to environment	dBA	63	41	59	54	37	18	17	29	22

VKMz 160

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	69	42	67	66	63	61	58	48	35
L _{WA} to outlet	dBA	72	46	69	65	68	64	63	50	40
L _{WA} to environment	dBA	60	41	60	53	36	20	18	30	24

VENTS VKMz



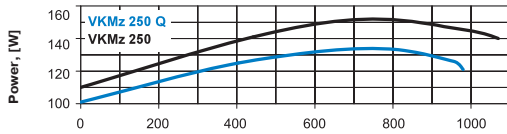
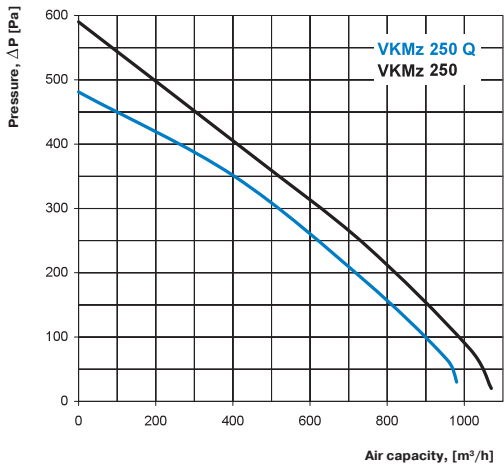
VKMz 200 Q

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	76	47	68	65	70	67	59	58	50
L _{WA} to outlet	dBA	76	49	71	69	72	63	63	60	53
L _{WA} to environment	dBA	64	46	61	57	48	32	27	48	42

VKMz 200

Sound-power level	Hz	Octave-frequency band [Hz]								
		Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	73	51	66	68	71	67	64	58	52
L _{WA} to outlet	dBA	79	51	73	69	74	67	65	60	50
L _{WA} to environment	dBA	68	47	64	64	46	32	30	44	42

VENTS VKMz

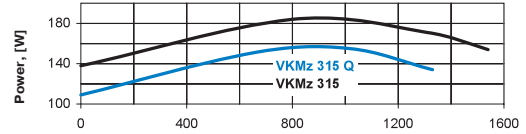
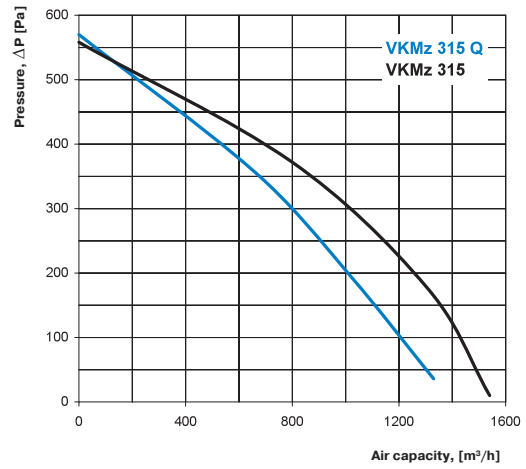


VKMz 250 Q

Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	69	46	59	61	65	62	58	60	54
L _{WA} to outlet	dBA	74	49	59	63	66	67	62	64	56
L _{WA} to environment	dBA	60	42	54	54	44	37	37	52	45

Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	75	60	66	67	67	67	63	56	45
L _{WA} to outlet	dBA	76	60	73	71	69	65	66	59	46
L _{WA} to environment	dBA	65	58	62	60	47	43	40	47	36

VENTS VKMz



VKMz 315 Q

Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	70	35	53	61	65	67	61	58	56
L _{WA} to outlet	dBA	74	41	54	64	73	70	65	62	60
L _{WA} to environment	dBA	59	35	49	53	50	46	51	50	50

Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	77	53	66	71	69	68	66	63	60
L _{WA} to outlet	dBA	78	58	71	74	72	71	71	63	63
L _{WA} to environment	dBA	70	55	66	61	57	48	54	56	51