

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 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 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:

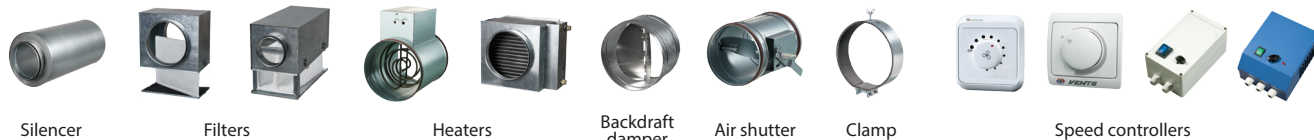
- speed control knob for setting the motor speed
- thermostat control knob for setting the temperature set point
- thermostat indicator light

VKM...Un - the model with an external temperature sensor fixed on a 4 m cable (Un / U1n 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.</p> <p>Q: low-powered motor.</p> <p>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> <p>P: built-in smooth speed controller and power cord with IEC C14 electric plug (Ø100-315).</p> <p>R: power cord with IEC C14 electric plug.</p>

Accessories



Silencer

Filters

Heaters

Backdraft damper

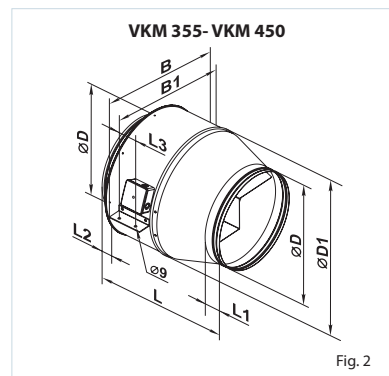
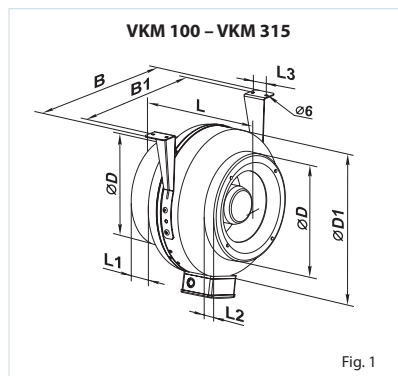
Air shutter

Clamp

Speed controllers

Fan overall dimensions

Type	Dimensions [mm]								Weight [kg]	Fig. no.
	∅D	∅D1	B	B1	L	L1	L2	L3		
VKM 100 Q	98	255	310	270	205	20	25	30	2.9	1
VKM 100	98	255	310	270	205	20	25	30	3.2	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 E	148	305	360	320	200	20	25	30	4.25	1
VKM 150	149	305	360	320	220	25	25	30	5.0	1
VKMS 150	148	340	390	350	245	20	20	40	6.4	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



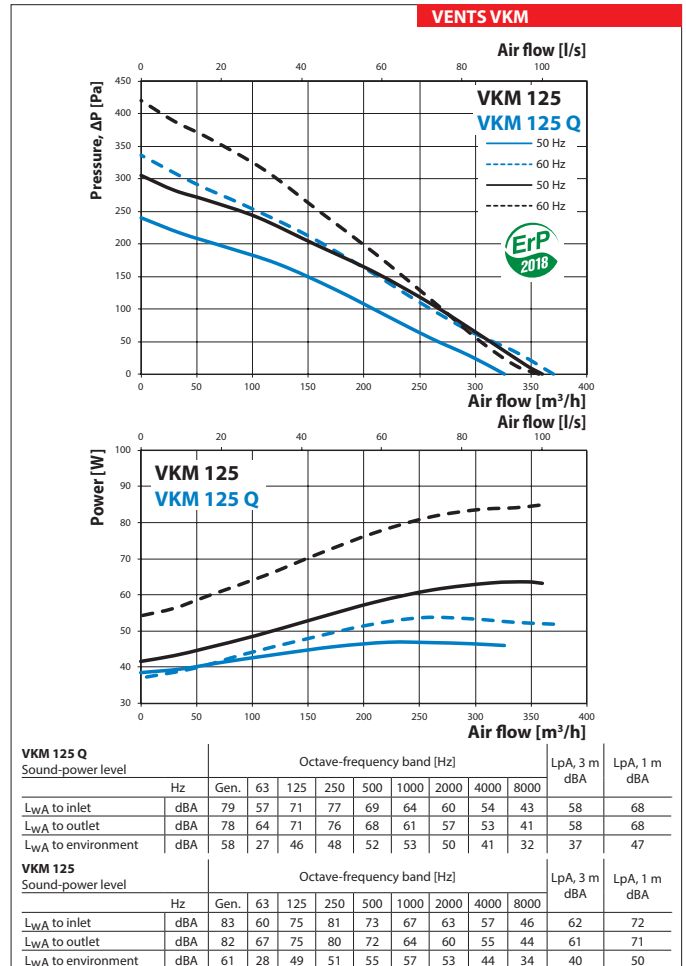
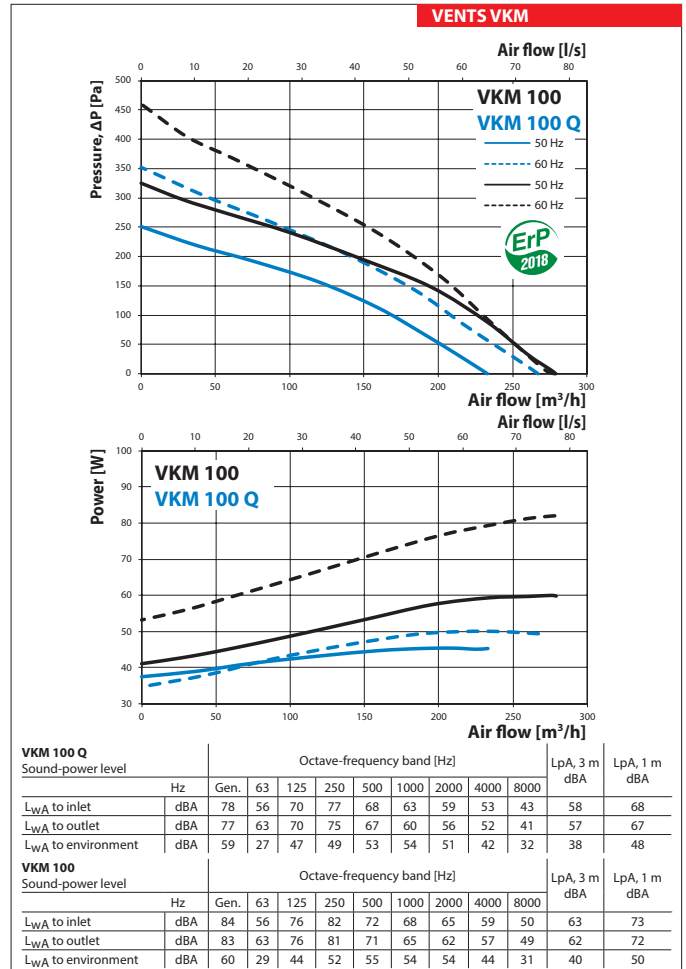
FANS FOR ROUND DUCTS

Technical data

	VKM 100 Q		VKM 100	
Nominal voltage [VAC]	1~ 230			
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			

Technical data

	VKM 125 Q		VKM 125	
Nominal voltage [VAC]	1~ 230			
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			

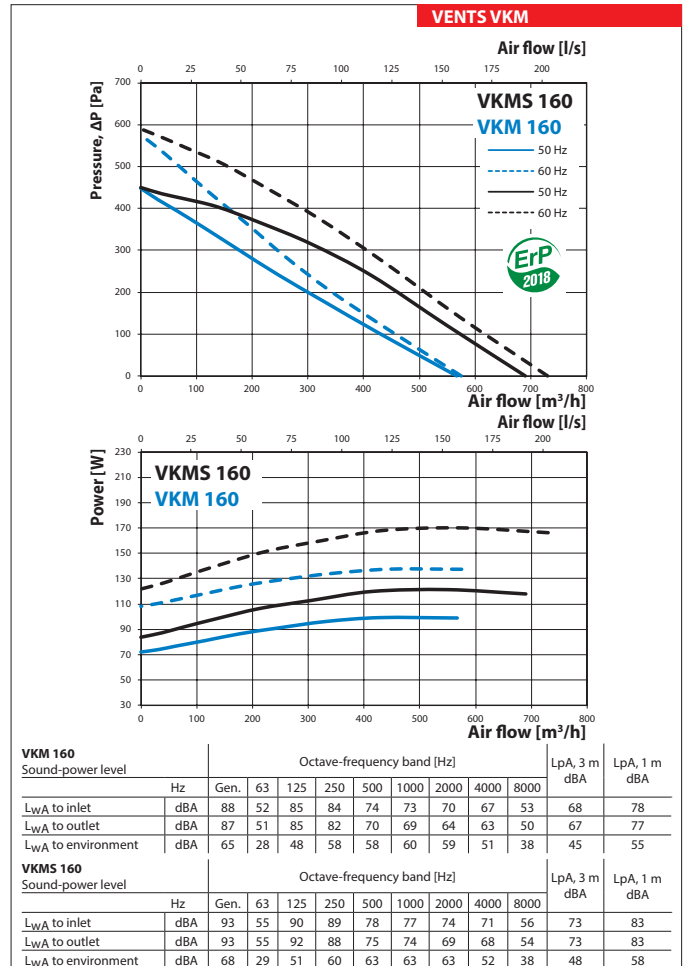
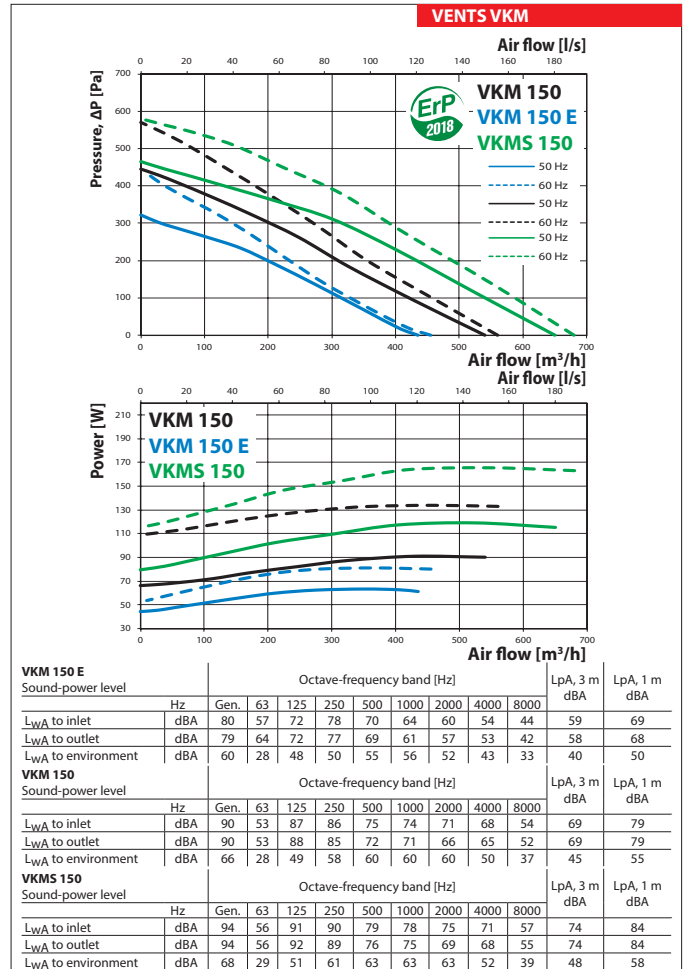


Technical data

	VKM 150 E		VKM 150		VKMS 150	
Nominal voltage [VAC]	1~ 230					
Frequency [Hz]	50	60	50	60	50	60
Power [W]	63	81	91	134	119	165
Current [A]	0.26	0.28	0.42	0.60	0.52	0.73
Max. air flow [m³/h]	435	455	540	560	650	680
RPM [min⁻¹]	2830	2840	2770	3125	2820	3250
Noise level at 3 m [dBA]	40	40	45	46	48	49
Transported air temperature [°C]	-25...+45					
SEC class	C	-	C	-	C	-
Protection rating	IPX4					

Technical data

	VKM 160		VKMS 160	
Nominal voltage [VAC]	1~ 230			
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			



FANS FOR ROUND DUCTS

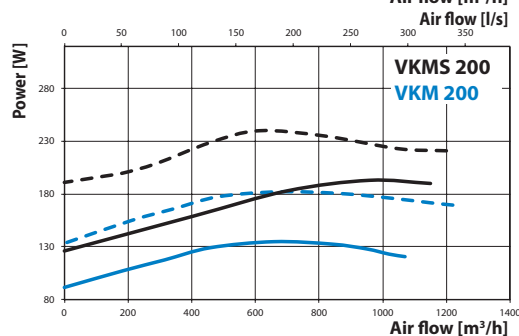
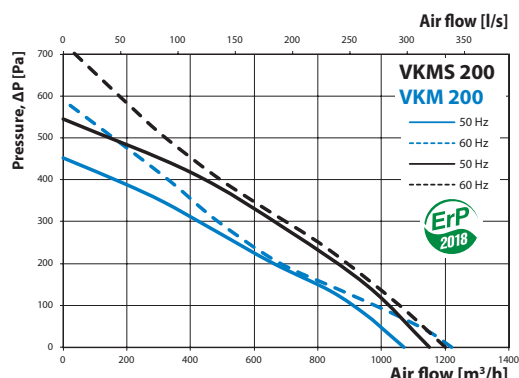
Technical data

	VKM 200		VKMS 200	
Nominal voltage [VAC]	1~ 230			
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			

Technical data

	VKM 250 E	VKM 250	
Nominal voltage [VAC]	1~ 230		
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		

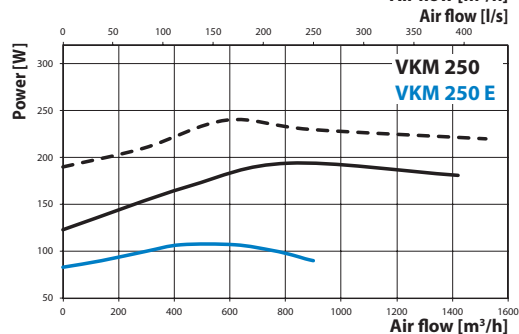
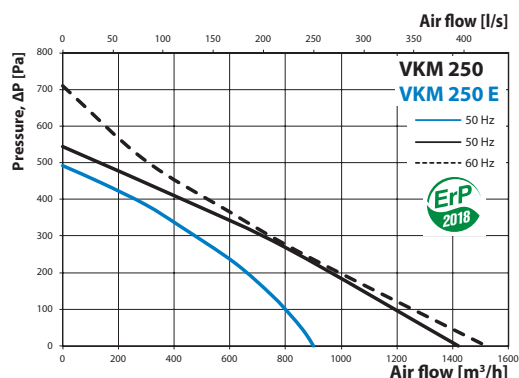
VENTS VKM



VKM 200 Sound-power level	Hz	Octave-frequency band [Hz]								LpA, 3 m dBA	LpA, 1 m dBA	
		Gen.	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	90	49	78	87	81	81	82	74	63	69	79
L _{WA} to outlet	dBA	87	46	77	81	79	79	82	74	64	67	77
L _{WA} to environment	dBA	68	29	52	60	63	63	62	53	39	48	58

VKMS 200 Sound-power level	Hz	Octave-frequency band [Hz]								LpA, 3 m dBA	LpA, 1 m dBA	
		Gen.	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	95	56	92	91	79	78	75	72	57	74	84
L _{WA} to outlet	dBA	94	56	92	89	75	74	69	68	54	74	84
L _{WA} to environment	dBA	70	29	52	62	64	64	64	53	39	49	59

VENTS VKM



VKM 250 E Sound-power level	Hz	Octave-frequency band [Hz]								LpA, 3 m dBA	LpA, 1 m dBA	
		Gen.	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	89	60	76	83	81	83	79	75	64	68	78
L _{WA} to outlet	dBA	87	63	75	72	80	82	80	75	62	66	76
L _{WA} to environment	dBA	67	34	48	59	62	62	60	49	38	47	57

VKM 250 Sound-power level	Hz	Octave-frequency band [Hz]								LpA, 3 m dBA	LpA, 1 m dBA	
		Gen.	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	90	61	78	85	83	85	81	77	65	70	80
L _{WA} to outlet	dBA	88	64	77	73	82	84	82	77	63	68	78
L _{WA} to environment	dBA	71	38	52	62	66	65	64	58	44	50	60

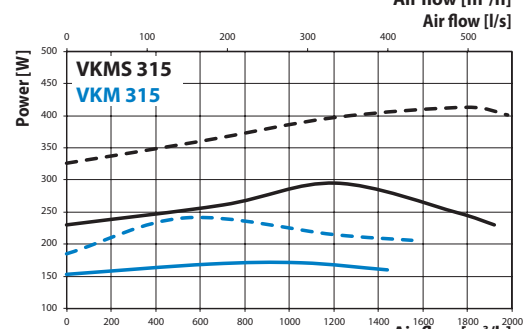
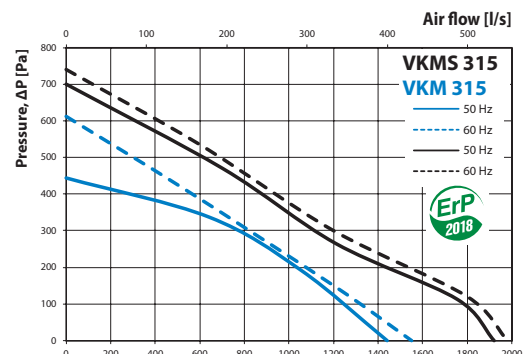
Technical data

	VKM 315		VKMS 315	
Nominal voltage [VAC]	1~ 230			
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			

Technical data

	VKM 355 Q		VKM 400	
Nominal voltage [VAC]	1~ 230			
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			

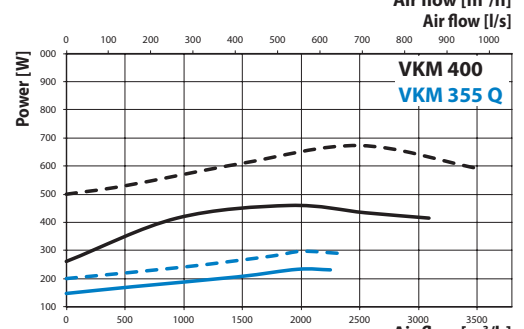
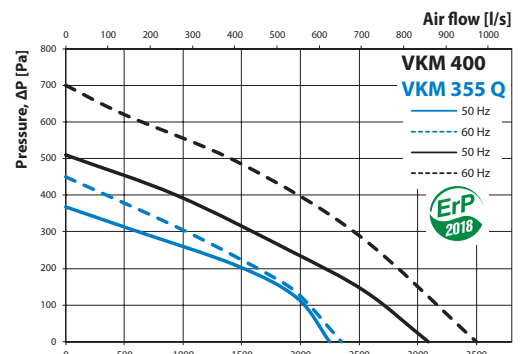
VENTS VKM



VKM 315		Octave-frequency band [Hz]									LpA, 3 m	LpA, 1 m	
Sound-power level		Hz	Gen.	63	125	250	500	1000	2000	4000	8000	dBA	dBA
L _{WA} to inlet	dBA	92	62	80	87	85	87	83	79	66	71	81	
L _{WA} to outlet	dBA	91	66	79	75	84	87	84	79	65	70	80	
L _{WA} to environment	dBA	72	37	51	64	67	67	65	53	41	52	62	

VKMS 315		Octave-frequency band [Hz]									LpA, 3 m	LpA, 1 m	
Sound-power level		Hz	Gen.	63	125	250	500	1000	2000	4000	8000	dBA	dBA
L _{WA} to inlet	dBA	94	63	81	88	86	88	84	80	68	73	83	
L _{WA} to outlet	dBA	92	67	81	77	86	88	86	81	66	72	82	
L _{WA} to environment	dBA	74	38	53	66	69	69	67	54	42	54	64	

VENTS VKM



VKM 355 Q		Octave-frequency band [Hz]									LpA, 3 m	LpA, 1 m	
Sound-power level		Hz	Gen.	63	125	250	500	1000	2000	4000	8000	dBA	dBA
L _{WA} to inlet	dBA	92	62	80	87	85	87	83	79	66	71	81	
L _{WA} to outlet	dBA	91	66	79	75	84	87	84	79	65	70	80	
L _{WA} to environment	dBA	72	37	51	64	67	67	65	53	41	52	62	

VKM 400		Octave-frequency band [Hz]									LpA, 3 m	LpA, 1 m	
Sound-power level		Hz	Gen.	63	125	250	500	1000	2000	4000	8000	dBA	dBA
L _{WA} to inlet	dBA	97	59	84	82	86	92	93	88	78	77	87	
L _{WA} to outlet	dBA	96	61	75	85	82	90	94	86	78	76	86	
L _{WA} to environment	dBA	81	35	57	66	75	77	77	66	58	61	71	

Technical data

	VKM 450	
Nominal voltage [VAC]	1~ 230	
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	

