

Series
VENTS VKP EC



Centrifugal fans with air flow up to **11190 m³/h** for rectangular ducts

■ **Application**

Supply and exhaust ventilation systems for commercial, office and other public or industrial premises for various premises requiring cost-effective solution and controlled ventilation. EC motors in VKP fans reduce energy consumption by 1.5-3 times and ensure high performance and low noise level. Such characteristics are of special importance for ventilation of banks, supermarkets, restaurants, hotels and other public facilities including swimming pool ventilation. The fans are compatible with 300x150, 400x200, 500x250, 500x300, 600x300, 600x350, 700x400, 800x500, 900x500, 1000x500 mm rectangular ducts.

■ **Design**

Fan casing is made of galvanized steel. All inner components are interconnected by means of rivets. The fan is equipped with 20 mm standard flanges.

■ **Motor**

The impellers with backward curved blades are powered with high efficient electronically commutated (EC) direct current motors with external rotor. As of today, such motor type is the most advanced solution for energy saving. EC motors are featured by high performance and the optimal control over the

whole range of fan speeds. Premium efficiency reaching up to 90 % is an absolute advantage of electronically commutated motors.

■ **Integrated functions and control**

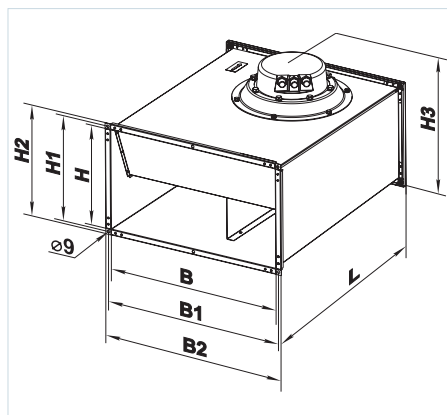
The fan is controlled with the external control signal 0-10 V (air flow as a function of temperature level, pressure and smoke conditions etc). Should the control value factor get changed, the EC motor changes its speed and the fan boosts as much air flow to the ventilation system as required. Maximum speed of the fan does not depend on the current frequency and it can operate at 50 or 60 Hz mains supply. The fans can be integrated to the unified PC control system. The respective software allows controlling all the fan units with high accuracy and setting particular operation mode for each fan.

■ **Mounting**

The fans are mounted into the rectangular ducts. The fans can be mounted in any position with respect to the airflow direction which is indicated with a pointer on the casing. Access for the fan maintenance shall be provided. The casing is equipped with a removable access door for inspection and maintenance purposes.

Fan overall dimensions

Type	Dimensions [mm]								Mass [kg]
	B	B1	B2	H	H1	H2	H3	L	
VKP 300x150 M1 EC	300	320	340	150	170	190	228	350	5.5
VKP 300x150 L1 EC	300	320	340	150	170	190	228	350	6.0
VKP 400x200 M1 EC	400	420	440	200	220	240	278	440	8.3
VKP 400x200 L1 EC	400	420	440	200	220	240	286	440	10.0
VKP 500x250 M1 EC	500	520	540	250	270	290	328	530	15.7
VKP 500x250 L1 EC	500	520	540	250	270	290	360	530	17.9
VKP 500x300 L1 EC	500	520	540	300	320	340	410	530	18.7
VKP 600x300 M1 EC	600	620	640	300	320	340	407	650	24.1
VKP 600x300 L1 EC	600	620	640	300	320	340	370	680	26.5
VKP 600x350 L3 EC	600	620	640	350	370	390	512	650	36.0
VKP 600x350 M1 EC	600	620	640	350	370	390	457	650	25.2
VKP 700x400 L3 EC	700	720	740	400	420	440	555	750	43.0
VKP 700x400 M1 EC	700	720	740	400	420	440	496	750	42.2
VKP 800x500 L3 EC	800	820	840	500	520	540	670	850	54.3
VKP 800x500 M3 EC	800	820	840	500	520	540	614	850	62.3
VKP 900x500 L3 EC	900	920	940	500	520	540	656	950	72.0
VKP 1000x500 L3 EC	1000	1020	1040	500	520	540	656	950	77.0



Designation key

Series	Flange diameter [WxH]	Motor modification	Phase	Motor
VENTS VKP	300x150; 400x200; 500x250; 500x300; 600x300; 600x350; 700x400; 800x500; 900x500; 1000x500	M: medium pressure motor L: high pressure motor	1: single phase 3: three phase	EC: synchronous electronically commutated motor

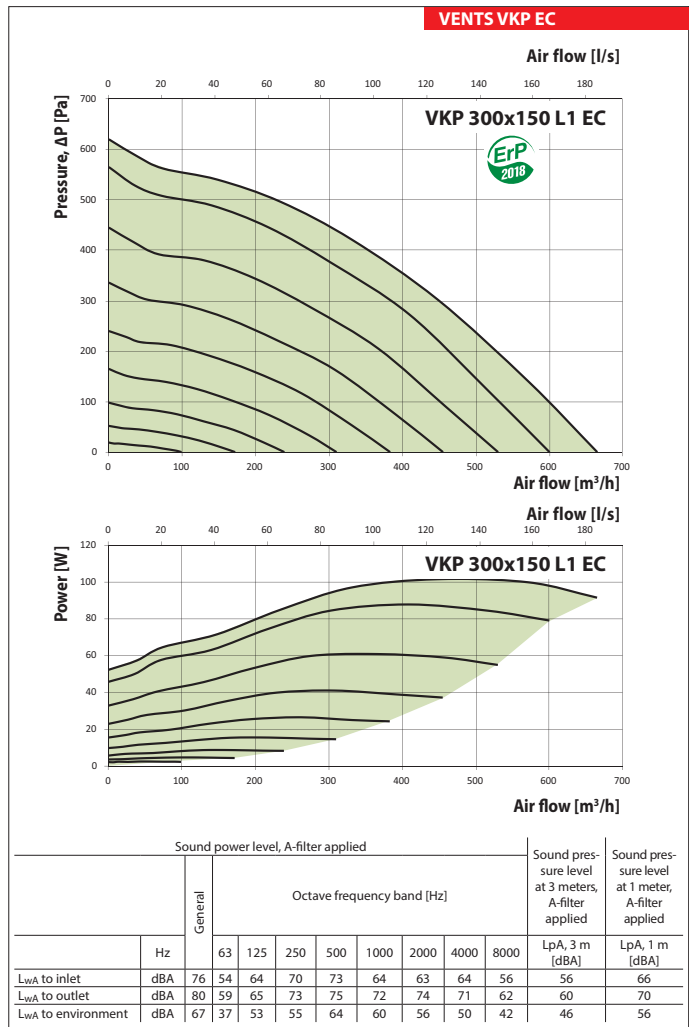
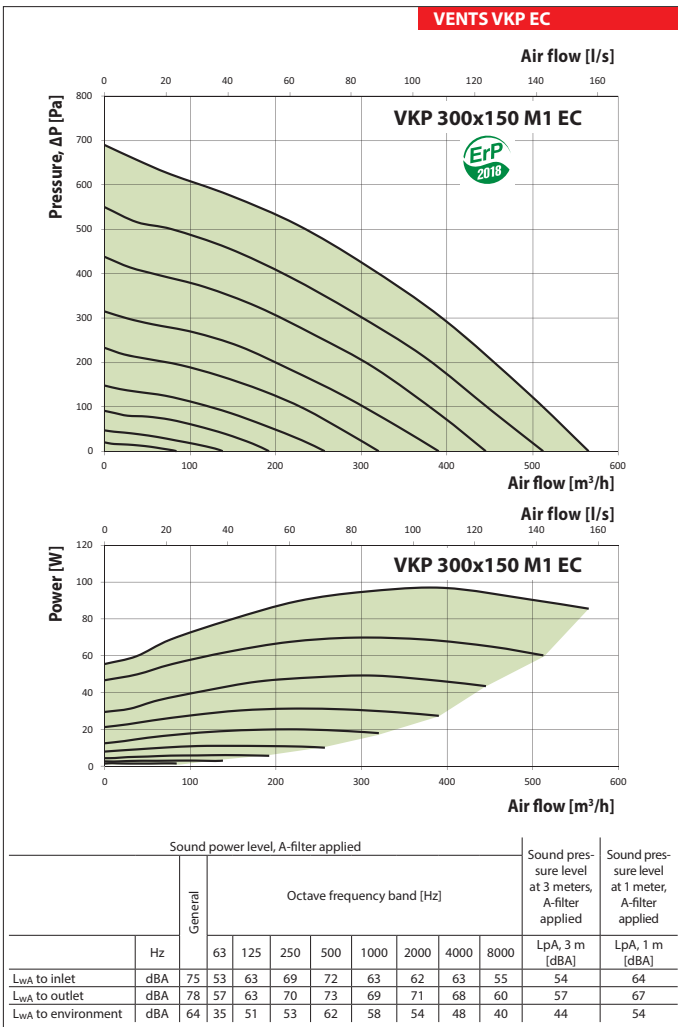
Accessories



Technical data

	VKP 300x150 M1 EC	VKP 300x150 L1 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	97	101
Current [A]	0.73	0.80
Maximum air flow [m³/h]	565	665
RPM [min ⁻¹]	3300	3500
Noise level at 3 m [dBA]	44	46
Transported air temperature [°C]	-25...+50	
SEC class	B	B
Motor protection	IP55	IP54
Protection rating	IPX4	

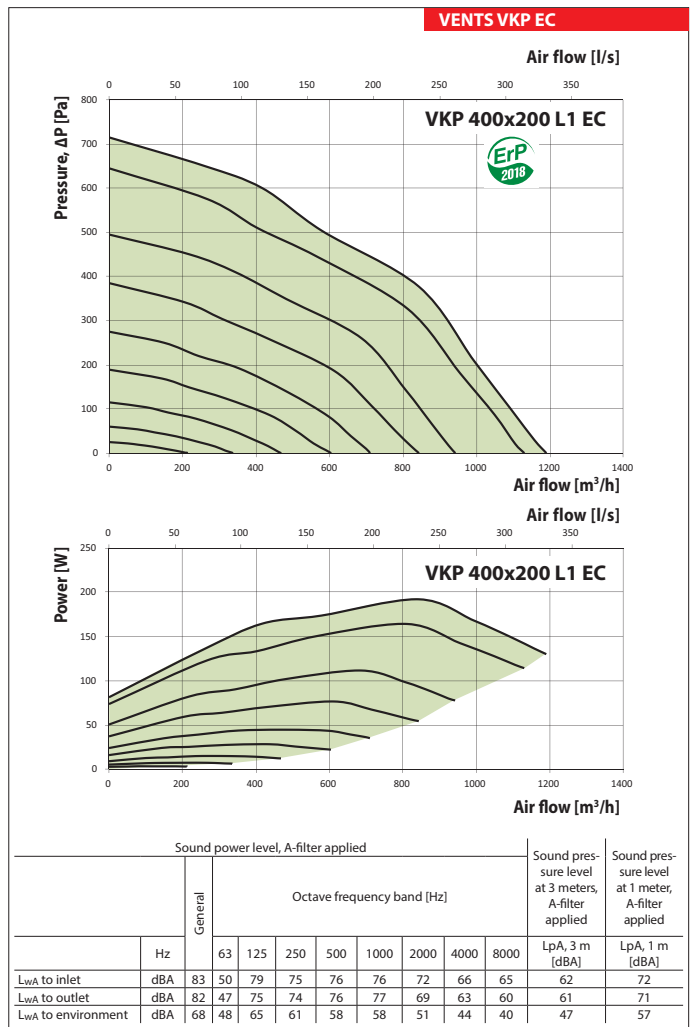
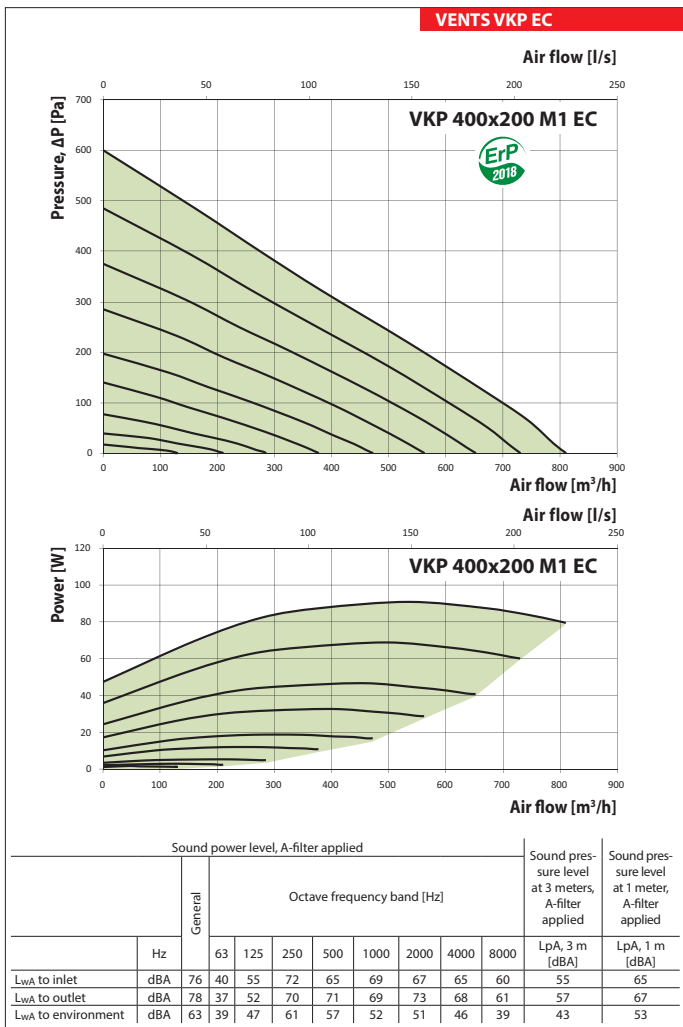
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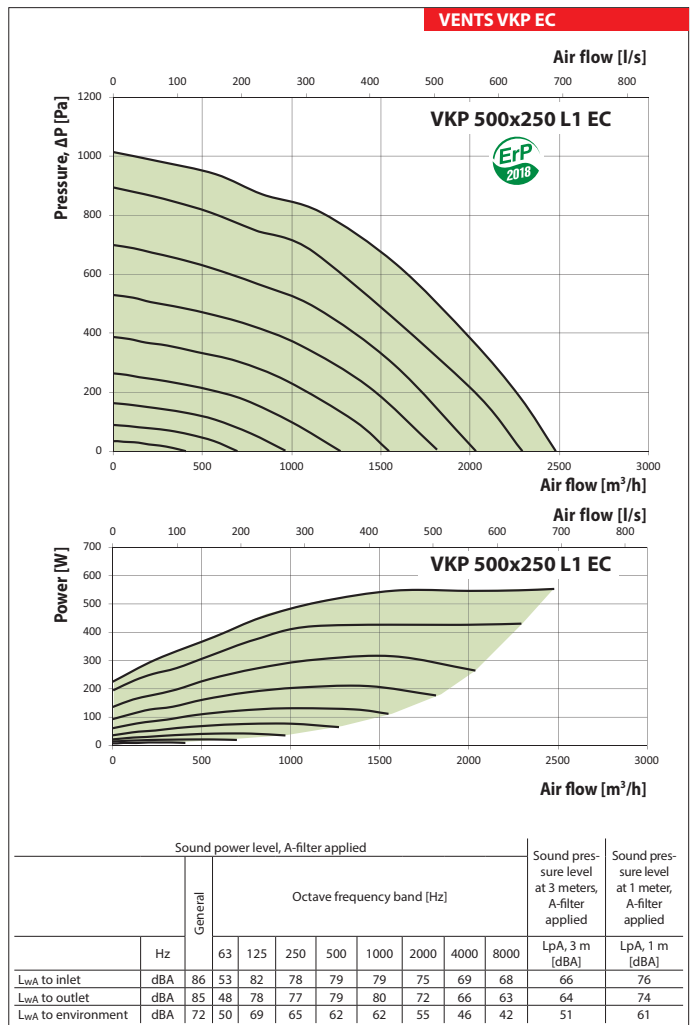
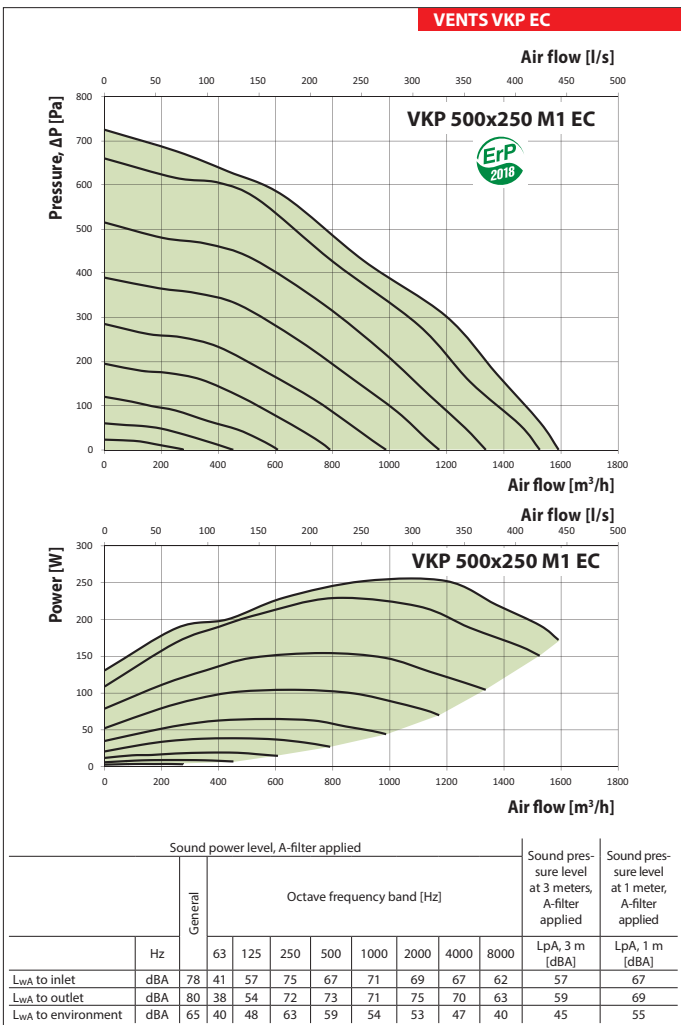
	VKP 400x200 M1 EC	VKP 400x200 L1 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	91	192
Current [A]	0.69	1.43
Maximum air flow [m³/h]	810	1190
RPM [min⁻¹]	2470	3010
Noise level at 3 m [dBA]	43	47
Transported air temperature [°C]	-25...+50	
SEC class	B	-
Motor protection	IP55	IP54
Protection rating	IPX4	



Technical data

	VKP 500x250 M1 EC	VKP 500x250 L1 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	252	555
Current [A]	1.85	4,10
Maximum air flow [m³/h]	1590	2480
RPM [min ⁻¹]	2500	3100
Noise level at 3 m [dBA]	45	51
Transported air temperature [°C]	-25...+50	
Motor protection	IP54	
Protection rating	IPX4	

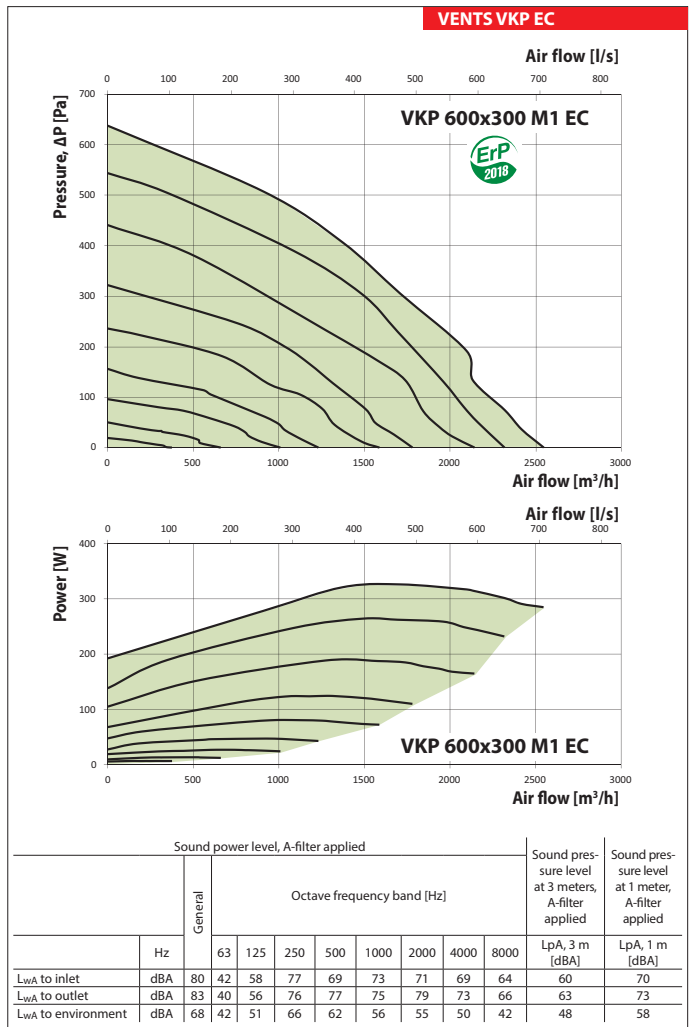
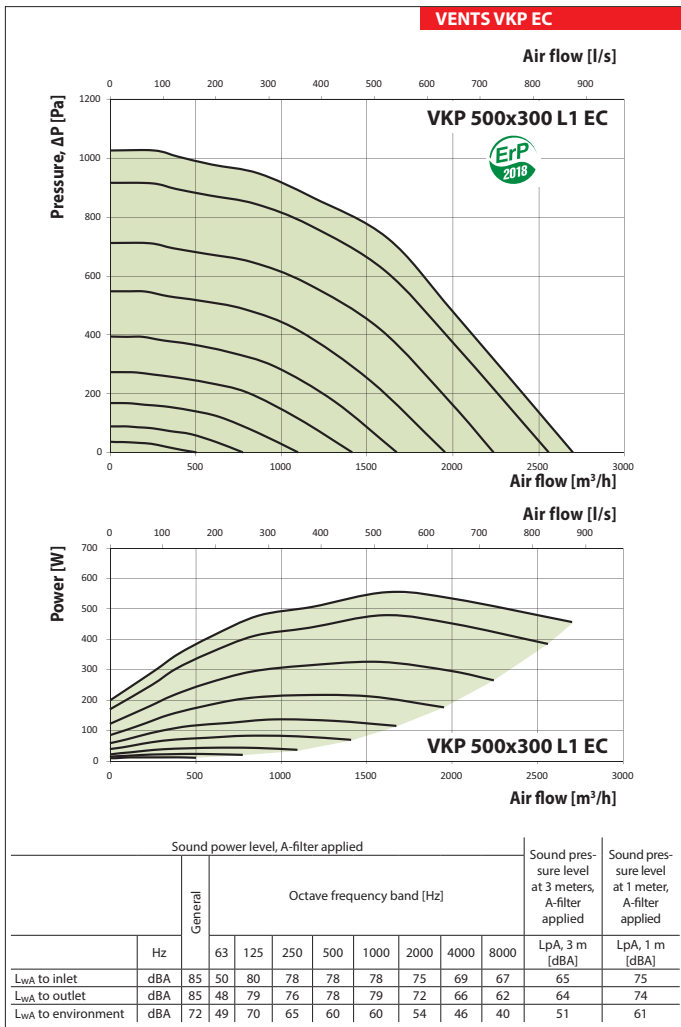
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	VKP 500x300 L1 EC	VKP 600x300 M1 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	553	326
Current [A]	4.20	2.45
Maximum air flow [m³/h]	2700	2545
RPM [min⁻¹]	3100	2000
Noise level at 3 m [dBA]	51	48
Transported air temperature [°C]	-25...+50	
Motor protection	IP54	
Protection rating	IPX4	

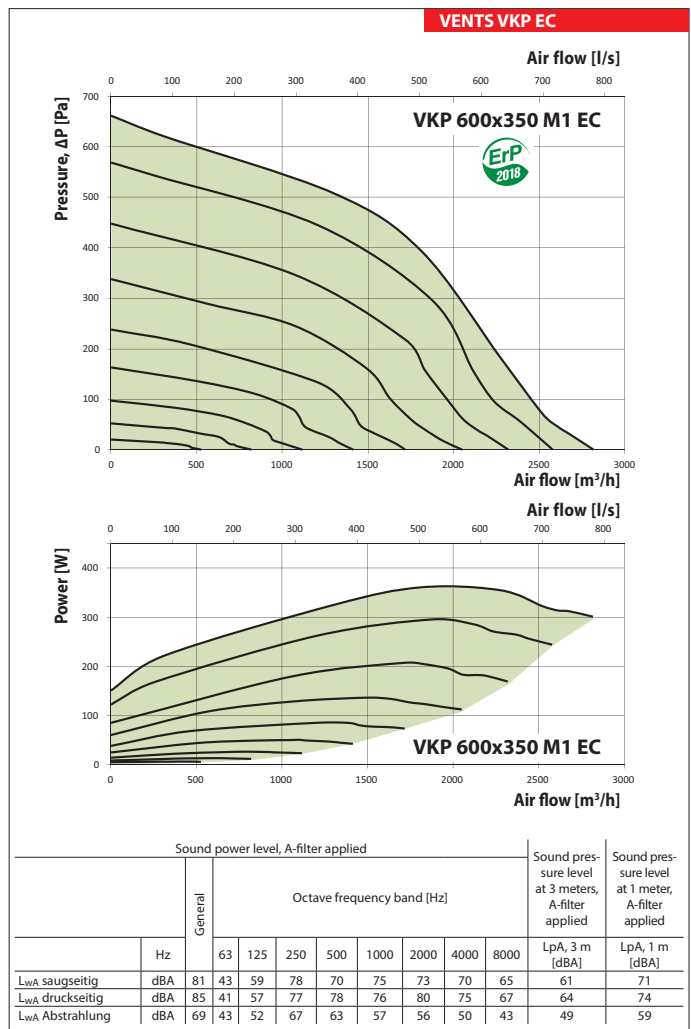
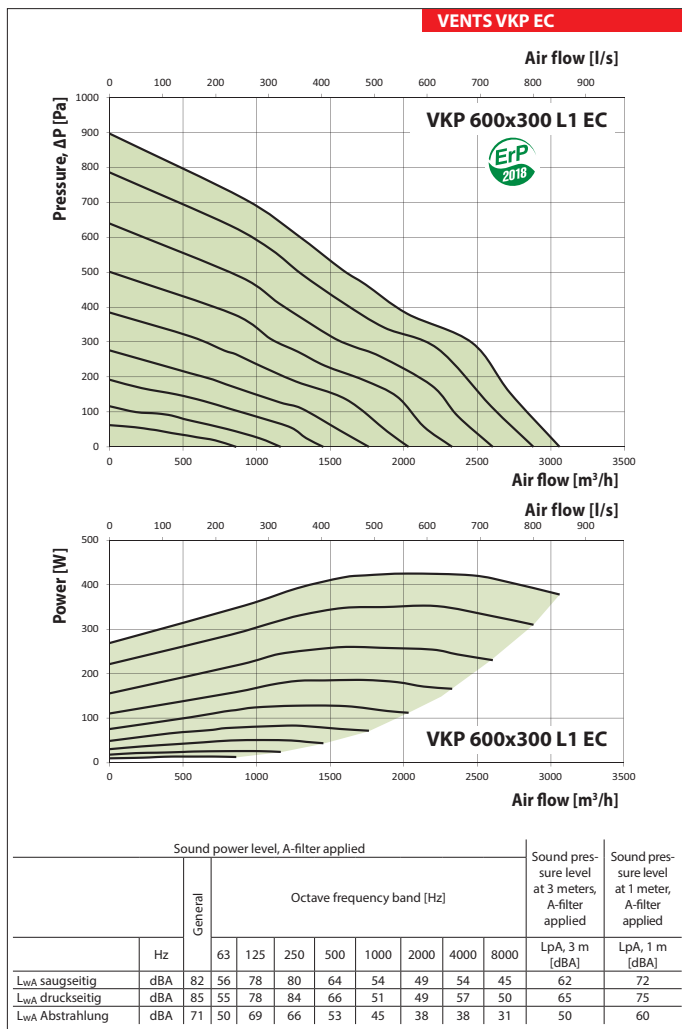


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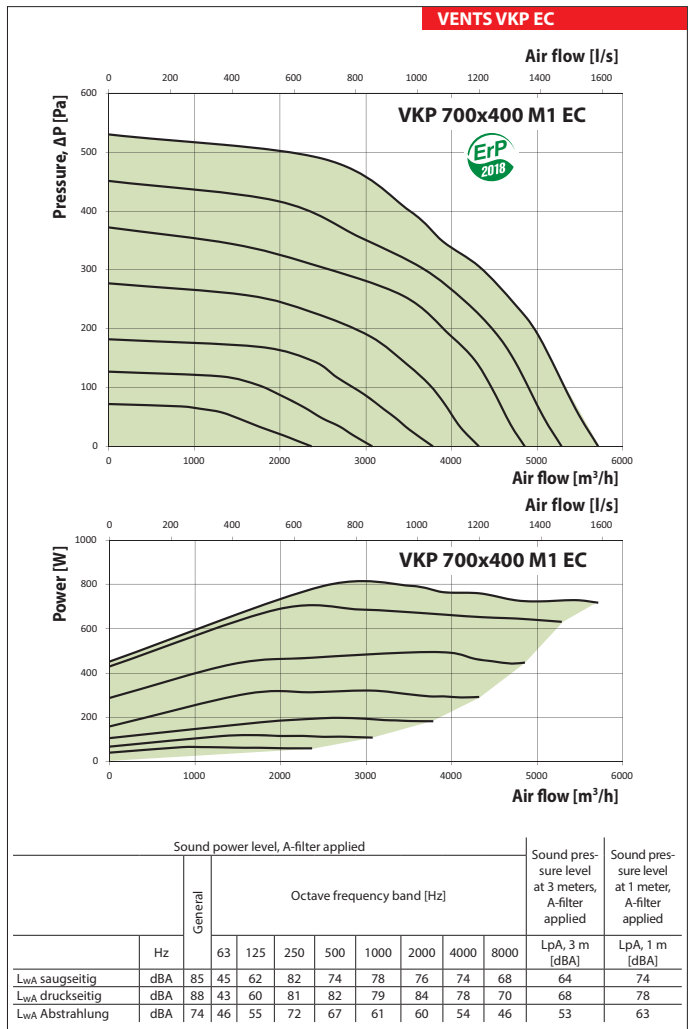
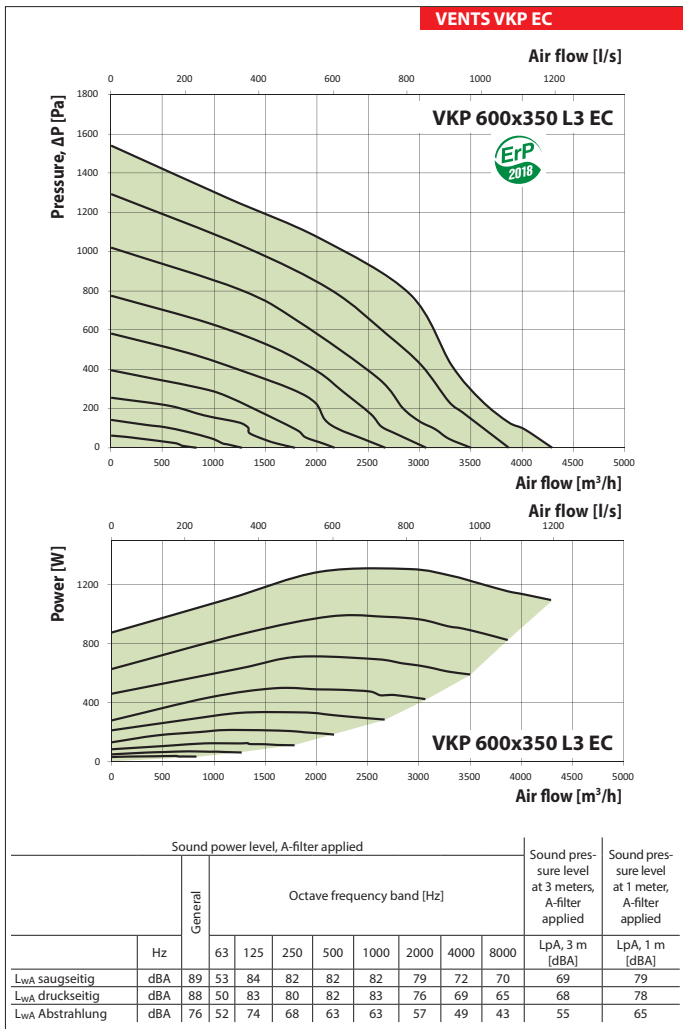
	VKP 600x300 L1 EC	VKP 600x350 M1 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	425	361
Current [A]	2.76	2.62
Maximum air flow [m³/h]	3060	2815
RPM [min⁻¹]	2160	2000
Noise level at 3 m [dBA]	50	49
Transported air temperature [°C]	-25...+50	
Motor protection	IP54	
Protection rating	IPX4	

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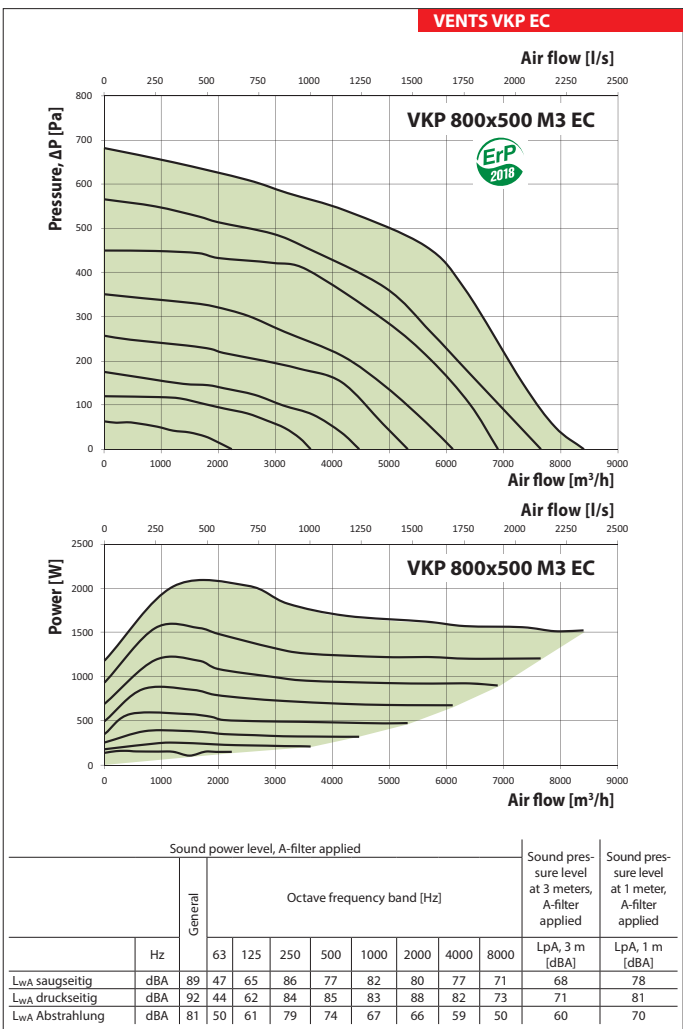
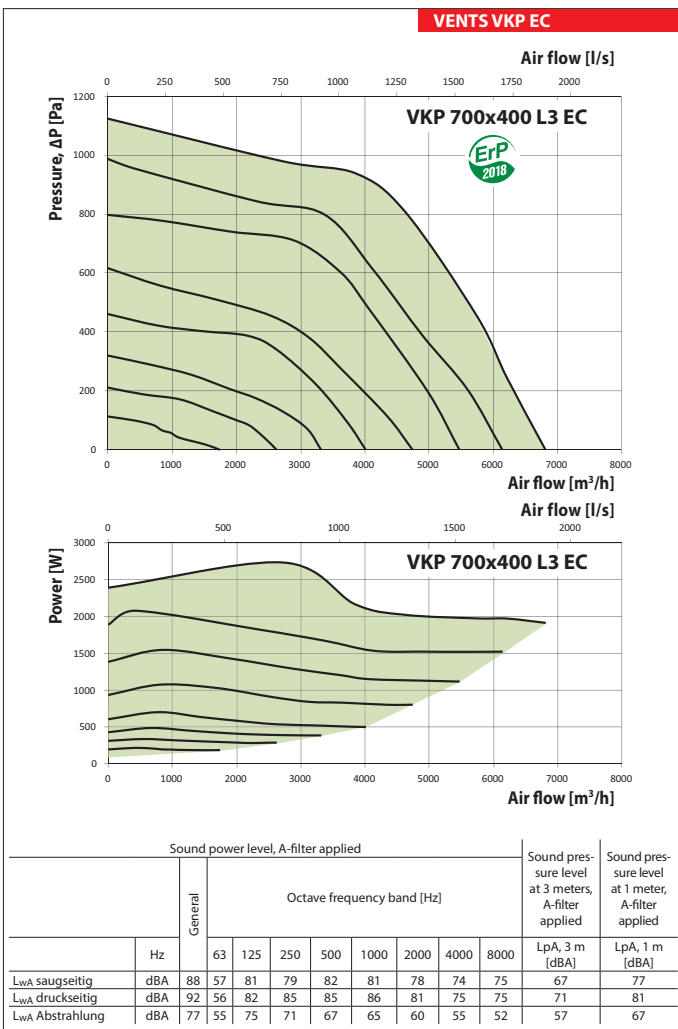
	VKP 600x350 L3 EC	VKP 700x400 M1 EC
Voltage [V/50 (60) Hz]	3~400	1~230
Power [W]	1308	795
Current [A]	2.35	3.48
Maximum air flow [m³/h]	4290	5710
RPM [min ⁻¹]	3160	1400
Noise level at 3 m [dBA]	55	53
Transported air temperature [°C]	-25...+50	
Motor protection	IP54	
Protection rating	IPX4	



Technical data

	VKP 700x400 L3 EC	VKP 800x500 M3 EC
Voltage [V/50 (60) Hz]	3~400	3~400
Power [W]	2748	2025
Current [A]	2.80	2.01
Maximum air flow [m³/h]	6810	8395
RPM [min ⁻¹]	2530	1470
Noise level at 3 m [dBA]	57	60
Transported air temperature [°C]	-25...+50	
Motor protection	IP54	
Protection rating	IPX4	

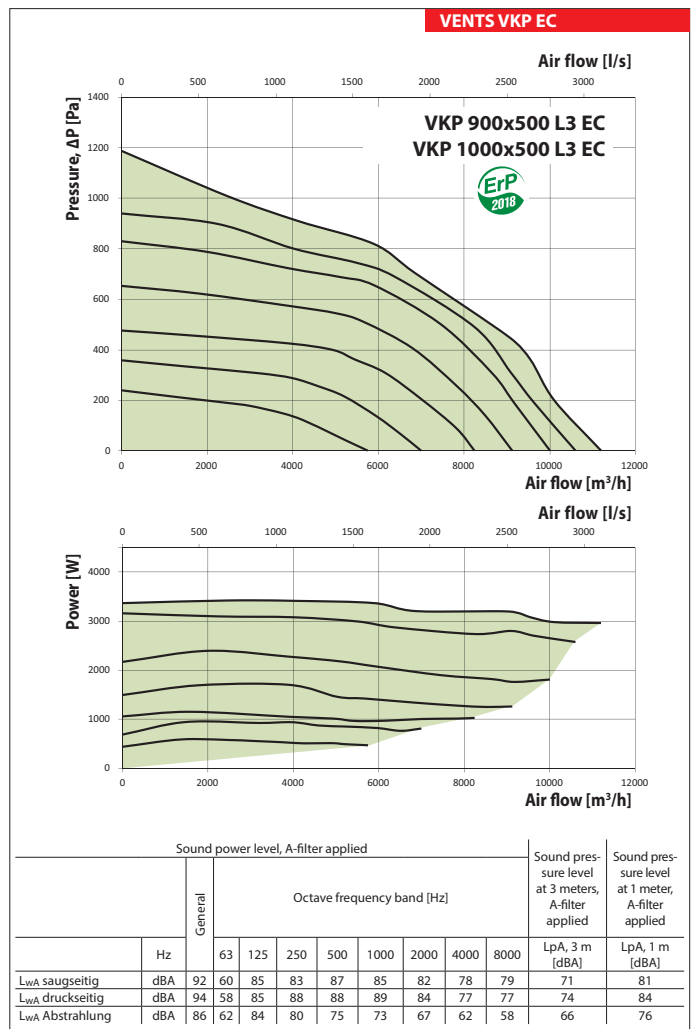
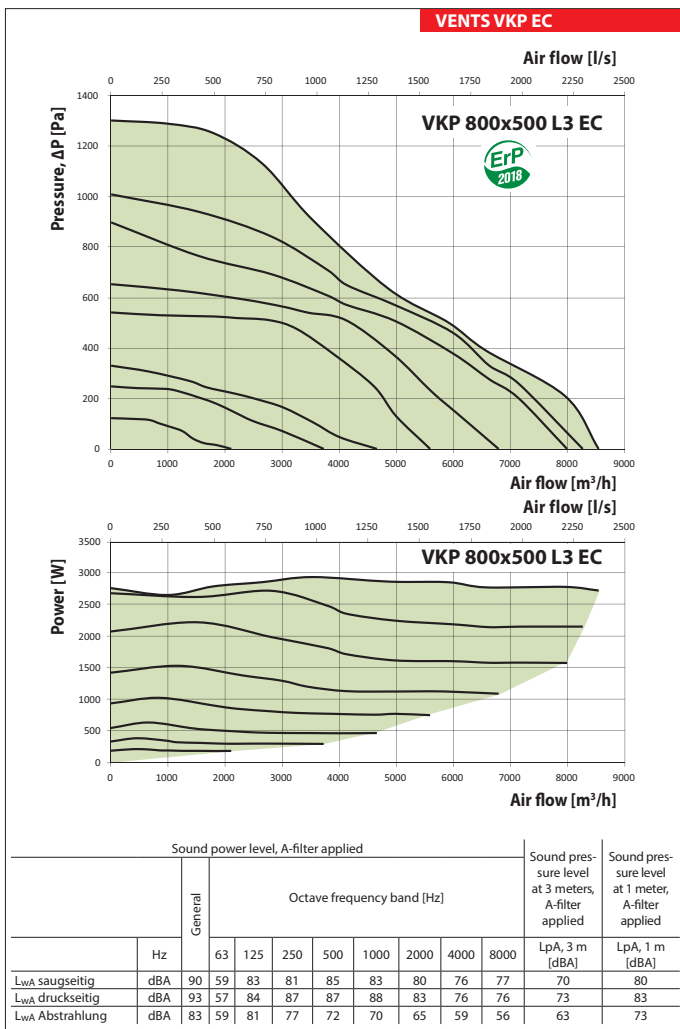
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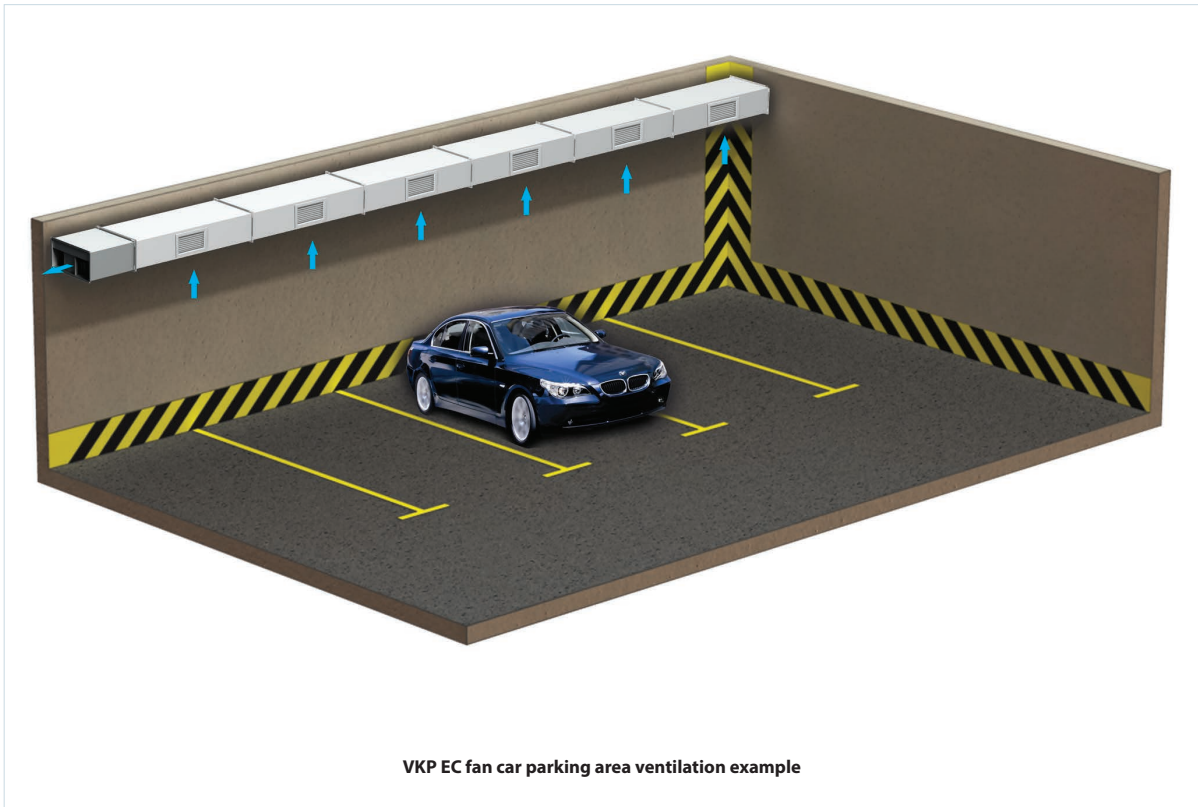
Technical data

	VKP 800x500 L3 EC	VKP 900x500 L3 EC	VKP 1000x500 L3 EC
Voltage [V/50 (60) Hz]	3~400	3~400	3~400
Power [W]	2925	3429	3429
Current [A]	3.05	5.00	5.00
Maximum air flow [m³/h]	8535	11190	11190
RPM [min ⁻¹]	2400	1800	1800
Noise level at 3 m [dBA]	63	66	66
Transported air temperature [°C]		-25...+50	
Motor protection		IP54	
Protection rating		IPX4	





VKP EC fan school class ventilation example



VKP EC fan car parking area ventilation example