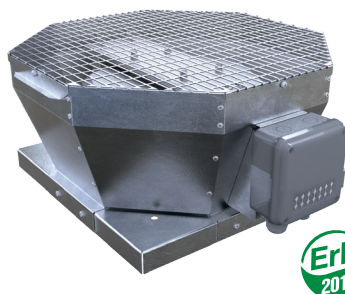


Series
VENTS VKV
VENTS VKVz
VENTS VKVA



Centrifugal roof fans with vertical air exhaust and with maximum air flow of up to **17010 m³/h**

■ **Application**

Exhaust ventilation systems for commercial, office and other public or industrial premises for various premises suitable for roof mounting. Compatible with Ø 200-630 mm air ducts. Suitable for any roof types as well as vertical ventilation shafts.

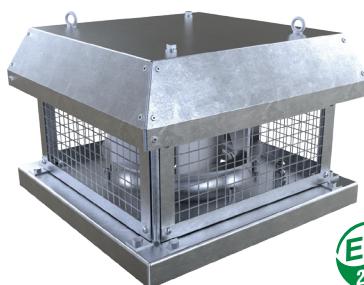
■ **Design**

The fan casing is made of steel with polymeric coating (VENTS VKV and VENTS VKH models), aluminum (VENTS VKVA), galvanized steel (VENTS VKVz, VENTS VKHz).

■ **Motor**

2-, 4- or 6-pole single- or three-phase asynchronous motors with an external rotor and impeller with backward curved blades. The motor is equipped with thermal overheating protection with automatic restart as well as ball bearings for long service life. For precise features, safe operation and low noise, each turbine is dynamically balanced while assembly. Motors protection rating IP44, IP54.

Series
VENTS VKH
VENTS VKHz



Centrifugal roof fans with horizontal air exhaust and with maximum air flow of up to **17010 m³/h**

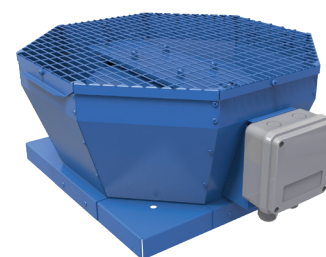
■ **Speed control**

Step speed control is performed by means of the 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**

The fan is mounted on the roof directly above the ventilating duct or shaft and is firmly fixed to the flat surface by means of a connecting plate. While mounting VKH fans directly onto the flat roof a supporting block shall be provided to prevent water and snow drops into the vent of the ventilation shaft. Electrical connection and installation shall be performed in compliance with the manual and circuit diagram on the terminal box.

For connection of the fans to round air ducts use the following accessories: KKV damper, GVK flexible connector, FKV counter flange. For mounting of the fans to flat surface use the mounting frame RKV.



VENTS VKV



VENTS VKH

Designation key

Series and modification	Casing material	Motor modification		Turbine standard size
		Number of poles	Phase	
VENTS VKV: vertical air exhaust VENTS VKH: horizontal air exhaust	_: steel with polymeric coating A: aluminum z: galvanized steel	2 4 6	E: single-phase D: three-phase	190; 220; 225; 250; 280; 310; 355; 400; 450; 500; 560; 630; 710

Accessories



Flexible connector



Counterflange



Mounting frame



Silencers



Backdraft damper



Air shutter



RS-...-T



Speed controllers
RSA5D-...-T



RSA5D-...-M

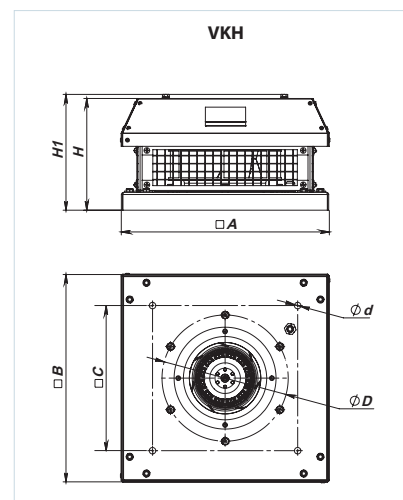
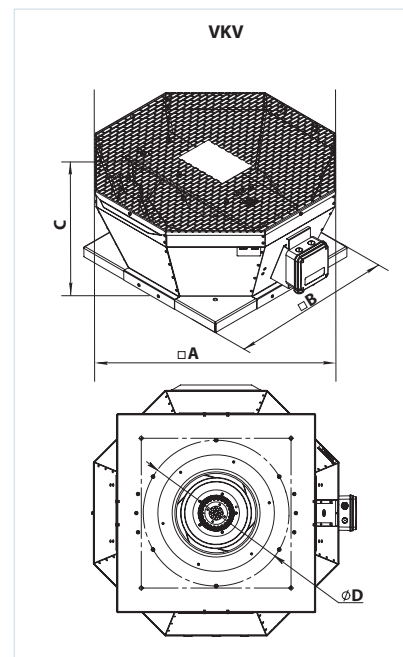
Fan overall dimensions

Type	Dimensions [mm]			øD, flange connection dimensions	Mass [kg]
	A	B	C		
VKV/VKVz/VKVA 2E 190	417	355	170	213	7
VKV/VKVz/VKVA 2E 220*			190		
VKV/VKVz/VKVA 2E 225*			215	210	
VKV/VKVz/VKVA 4E 225*					
VKV/VKVz/VKVA 2E 250	481	425	240	285	9
VKV/VKVz/VKVA 4E 250			276		
VKV/VKVz/VKVA 4E 280	547	425		285	20
VKV/VKVz/VKVA 2E 310			613		
VKV/VKVz/VKVA 4E 310*	300	26			
VKV/VKVz/VKVA 4D 310*			738	375	438
VKV/VKVz/VKVA 4E 355	598	430			
VKV/VKVz/VKVA 4D 355			668	425	445
VKV/VKVz 4E 400	859	460			
VKV/VKVz 6E 400			833	485	605
VKV/VKVz 4D 400	939	600			
VKV/VKVz 4E 450			951	600	674
VKV/VKVz 6E 450	992	600			
VKV/VKVz 4D 450			951	600	674
VKV/VKVz 6E 500*	992	600			
VKV/VKVz 4D 500*			951	600	674
VKV/VKVz 6D 500*	992	600			
VKV/VKVz 6E 560			951	600	674
VKV/VKVz 4D 560	992	600			
VKV/VKVz 6D 560			951	600	674
VKV/VKVz 6D 630*	992	600			
VKV/VKVz 6D 710*			951	600	674

*The counter flange (not included in the delivery set) should be mounted together with the inlet ring.

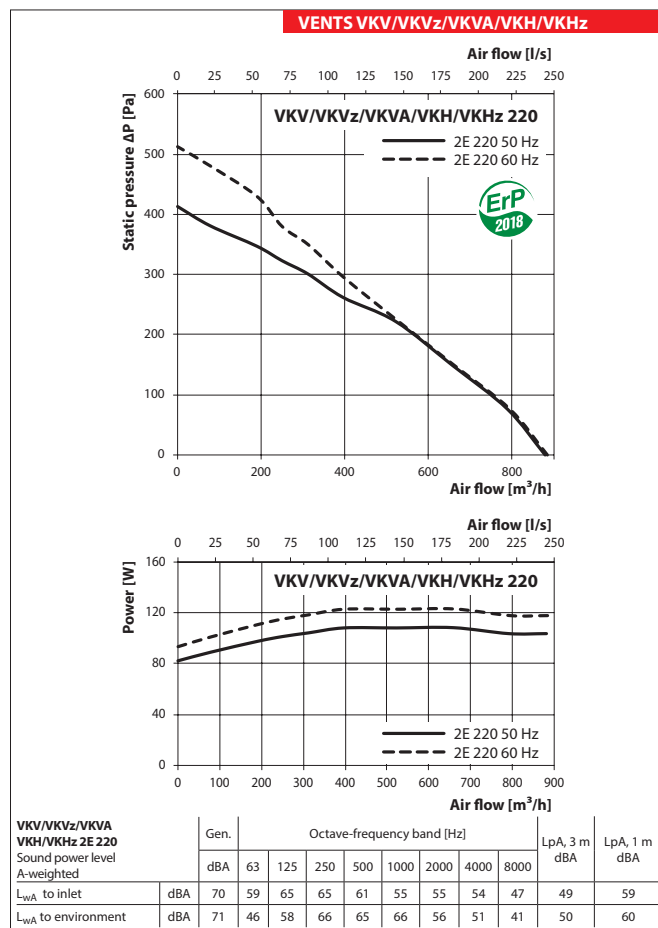
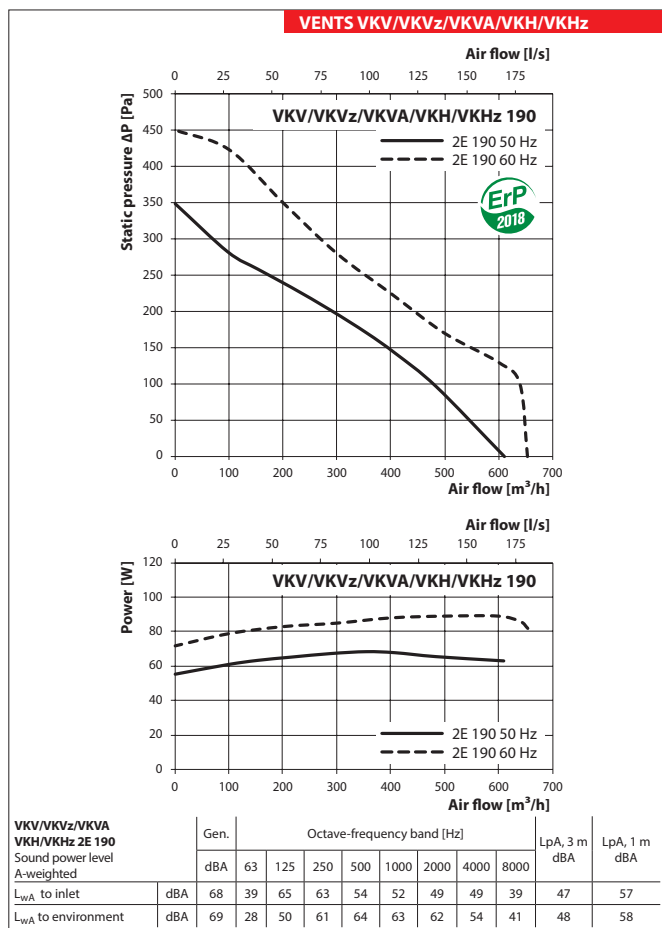
Fan overall dimensions

Type	Dimensions [mm]						øD, flange connection dimensions	Mass [kg]					
	H	H1	A	B	C	ød							
VKH/VKHz 2E 190	189	195	351	350	245	11	213	8.2					
VKH/VKHz 2E 220	180	186	337	338				7					
VKH/VKHz 2E 225	210	217	351	350		11	210	9.2					
VKH/VKHz 4E 225	233	240						8.8					
VKH/VKHz 2E 250	237	244	451	450	330	11	285	12.7					
VKH/VKHz 4E 250								12.1					
VKH/VKHz 4E 280	265	272				11	291	13.5					
VKH/VKHz 2E 310	251	258						13.2					
VKH/VKHz 4E 310	287	294				11	285	14.2					
VKH/VKHz 4D 310								14.2					
VKH/VKHz 4E 355	322	361	625	620	450	11	438	28.3					
VKH/VKHz 4D 355	347	386						30.3					
VKH/VKHz 4E 400	376	415						35					
VKH/VKHz 6E 400								32.7					
VKH/VKHz 4D 400	420	459				11	438	35					
VKH/VKHz 4E 450								46.6					
VKH/VKHz 6E 450								45.6					
VKH/VKHz 4D 450								45.5					
VKH/VKHz 6E 500	461	501	710	700	535	11	605	52.8					
VKH/VKHz 4D 500	490	530						46.6					
VKH/VKHz 6D 500	461	501						52.7					
VKH/VKHz 6E 560	489	528						76.4					
VKH/VKHz 4D 560								81.4					
VKH/VKHz 6D 560	520	560						76.4					
VKH/VKHz 6D 630								96.3					
VKH/VKHz 6D 710	570	619	1060	1050	840	20	674	134					



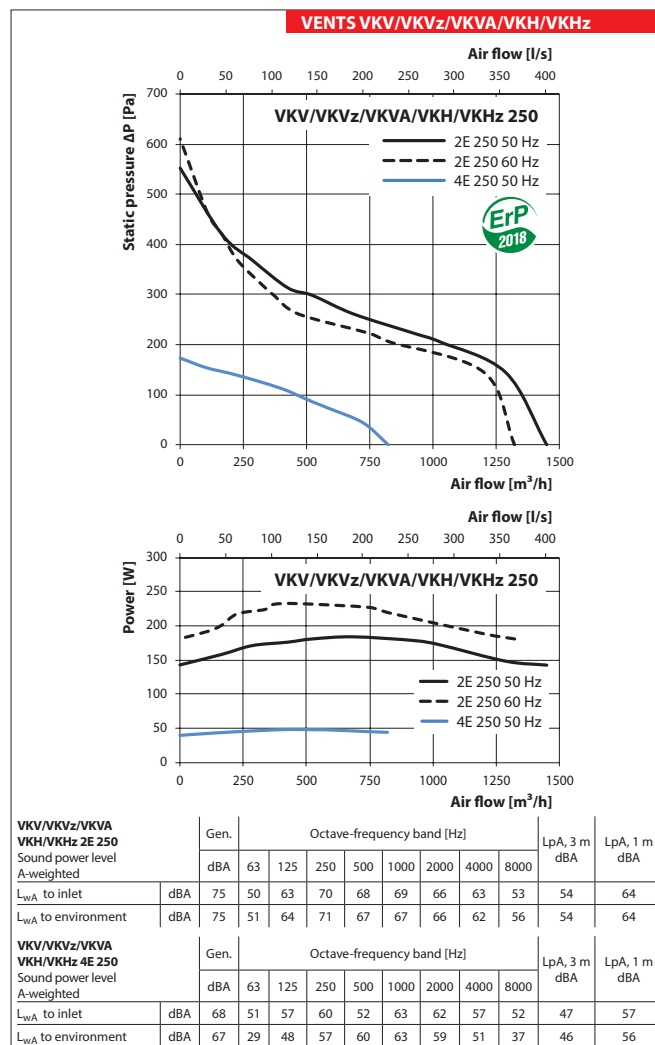
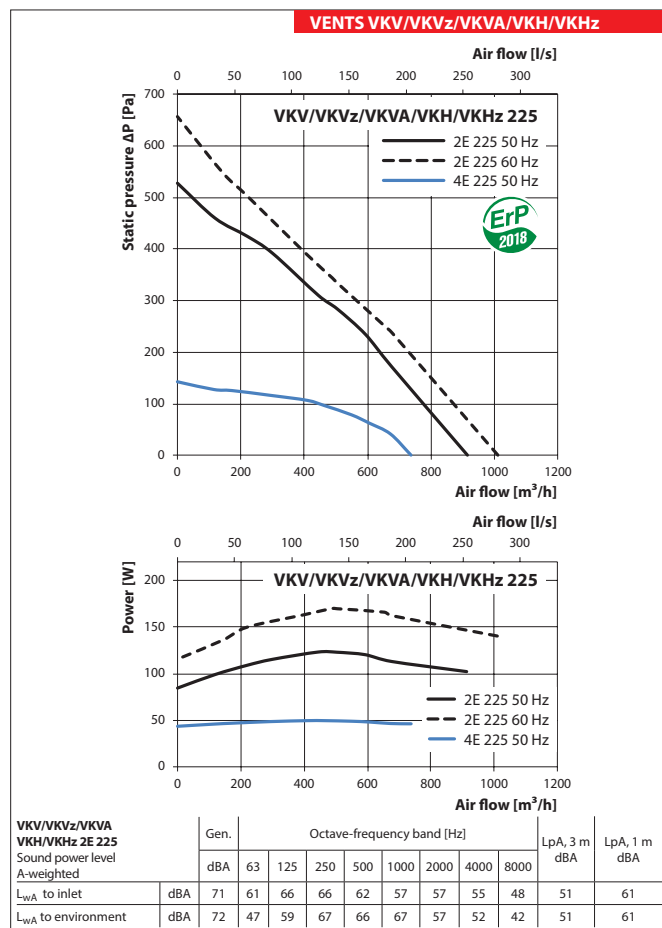
Technical data

	VKV/VKVz/VKVA/ VKH/VKHz 2E 190		VKV/VKVz/VKVA/ VKH/VKHz 2E 220	
Voltage [V]	1~230		1~230	
Frequency [Hz]	50	60	50	60
Power [W]	69	89	108	118
Current [A]	0.30	0.40	0.49	0.54
Max. air flow [m ³ /h]	610	654	880	883
RPM [min ⁻¹]	2680	2980	2580	2840
Sound pressure level at 3 m [dBA]	48	49	50	51
Transported air temperature [°C]	-25...+50		-25...+50	
Protection rating	IPX4		IPX4	
Motor protection rating	IP44		IP44	
SEC class	C		C	



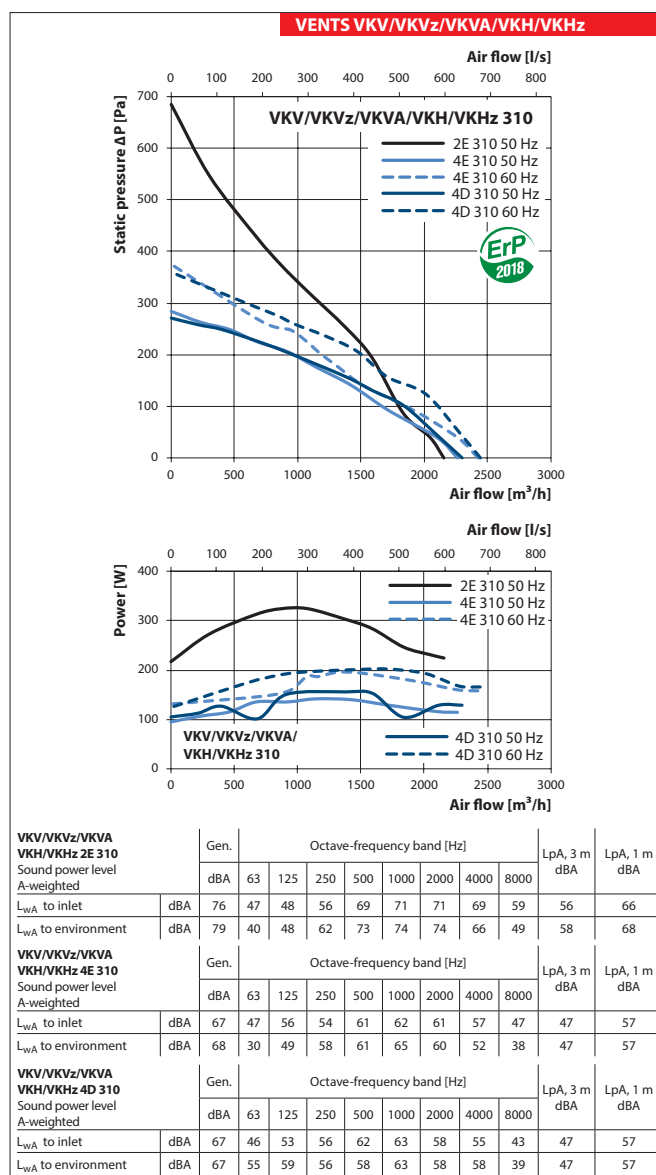
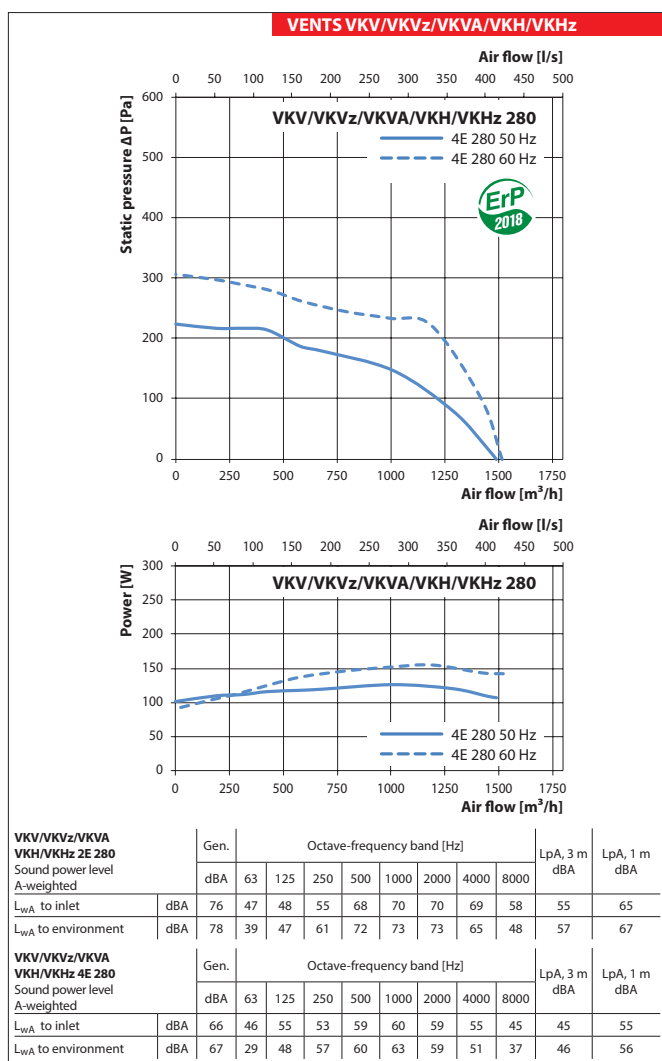
Technical data

	VKV/VKVz/VKVA/ VKH/VKHz 2E 225		VKV/VKVz/VKVA/ VKH/VKHz 4E 225		VKV/VKVz/VKVA/ VKH/VKHz 2E 250		VKV/VKVz/VKVA/ VKH/VKHz 4E 250	
Voltage [V]	1~230		1~230		1~230		1~230	
Frequency [Hz]	50	60	50		50	60	50	
Power [W]	123	169	49		184	232	48	
Current [A]	0.54	0.70	0.22		0.81	0.90	0.23	
Max. air flow [m ³ /h]	915	1 010	738		1 450	1 320	820	
RPM [min ⁻¹]	2790	2820	1400		2480	2320	1440	
Sound pressure level at 3 m [dBA]	51	52	45		54	53	46	
Transported air temperature [°C]	-25...+50		-25...+50		-25...+50		-25...+50	
Protection rating	IPX4		IPX4		IPX4		IPX4	
Motor protection rating	IP44		IP44		IP44		IP44	
SEC class	C		B		-		B	



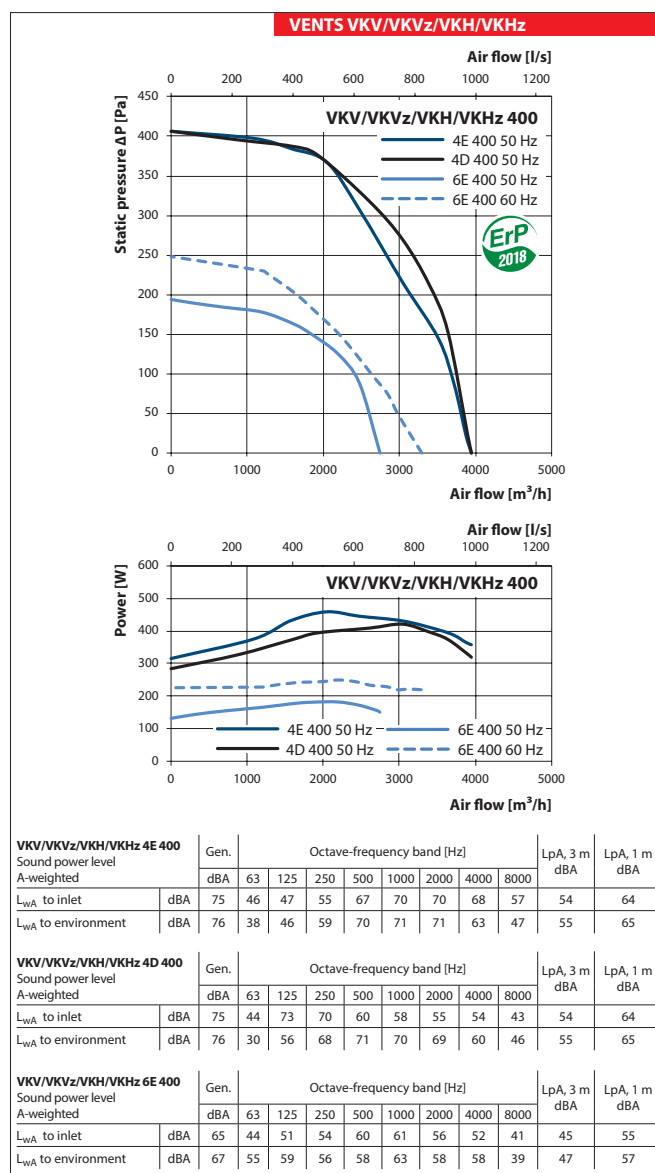
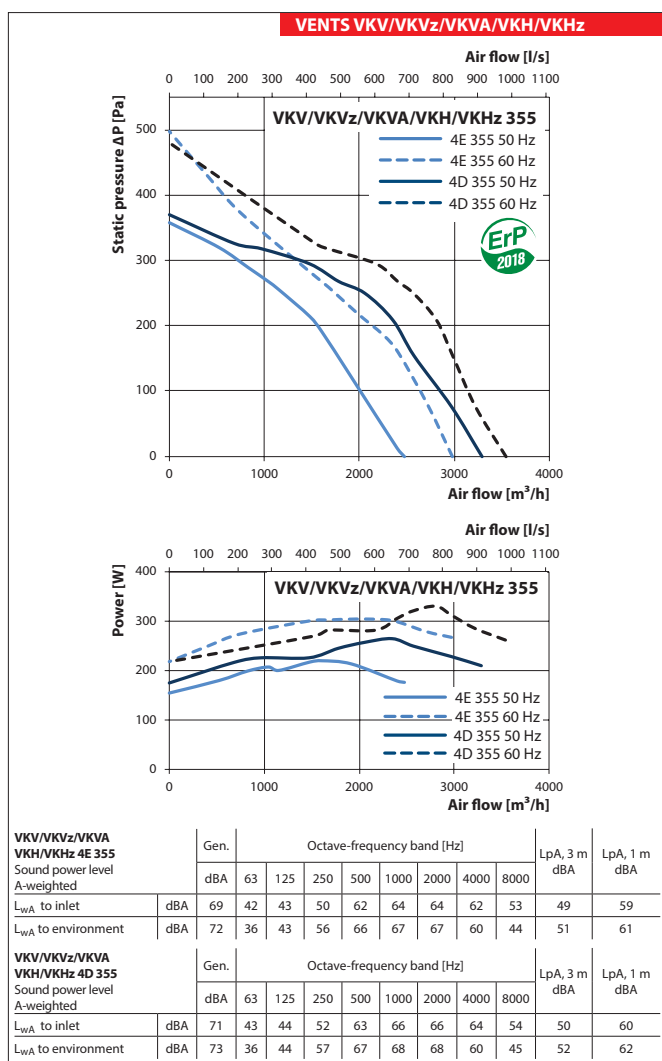
Technical data

	VKV/VKVz/VKVA/ VKH/VKHz 4E 280		VKV/VKVz/VKVA/ VKH/VKHz 2E 310		VKV/VKVz/VKVA/ VKH/VKHz 4E 310		VKV/VKVz/VKVA/ VKH/VKHz 4D 310	
Voltage [V]	1~230		1~230		1~230		3~400	
Frequency [Hz]	50	60	50	50	60	50	60	60
Power [W]	125	155	324	141	195	155	202	
Current [A]	0.61	0.99	1.42	0.64	0.87	0.29	0.32	
Max. air flow [m³/h]	1 490	1 520	2 150	2 265	2 425	2 300	2 442	
RPM [min⁻¹]	1446	1710	2620	1420	1740	1410	1550	
Sound pressure level at 3 m [dBA]	46	46	58	47	49	47	48	
Transported air temperature [°C]	-25...+50		-25...+50		-25...+50		-25...+50	
Protection rating	IPX4		IPX4		IPX4		IPX4	
Motor protection rating	IP44		IP44		IP54		IP54	



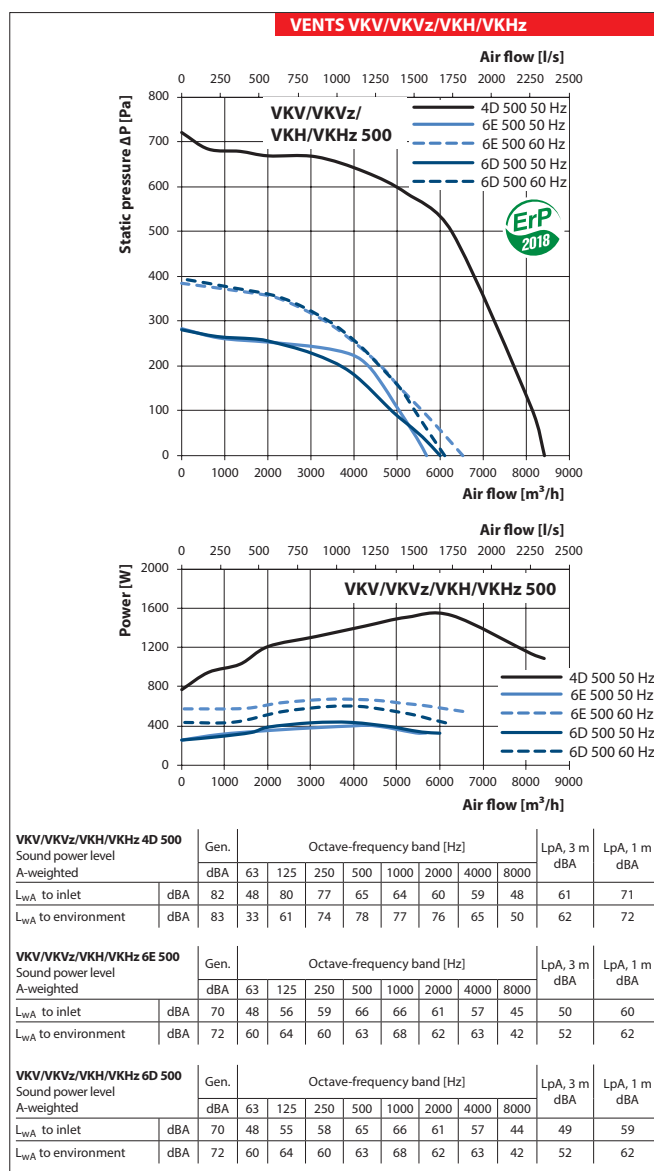
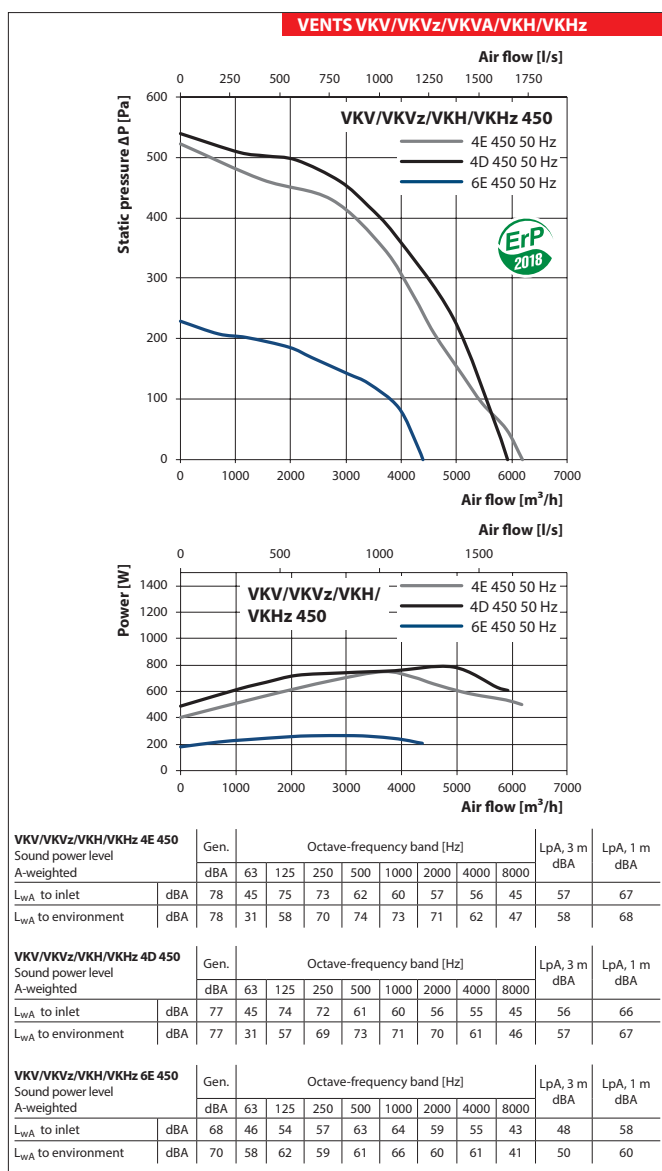
Technical data

	VKV/VKVz/VKVA/ VKH/VKHz 4E 355		VKV/VKVz/VKVA/ VKH/VKHz 4D 355		VKV/VKVz/ VKH/VKHz 4E 400		VKV/VKVz/ VKH/VKHz 6E 400		VKV/VKVz/ VKH/VKHz 4D 400	
Voltage [V]	1~230		3~400		1~230		1~230		3~400	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	50
Power [W]	219	304	264	330	457	184	249	420		
Current [A]	0.96	1.33	0.58	0.64	2.00	0.89	1.10	0.99		
Max. air flow [m ³ /h]	2 480	2 976	3 290	3 540	3 950	2 740	3 289	3 950		
RPM [min ⁻¹]	1420	1580	1430	1650	1440	945	1071	1440		
Sound pressure level at 3 m [dBA]	51	52	52	53	55	47	49	55		
Transported air temperature [°C]	-25...+50		-30...+60		-30...+60		-30...+60		-30...+60	
Protection rating	IPX4		IPX4		IPX4		IPX4		IPX4	
Motor protection rating	IP54		IP54		IP54		IP54		IP54	



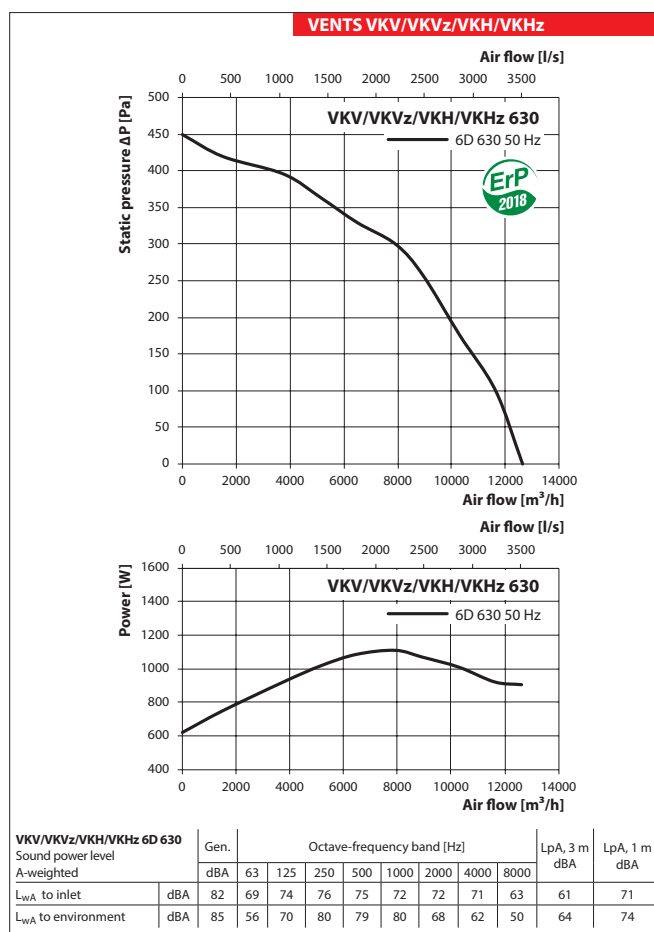
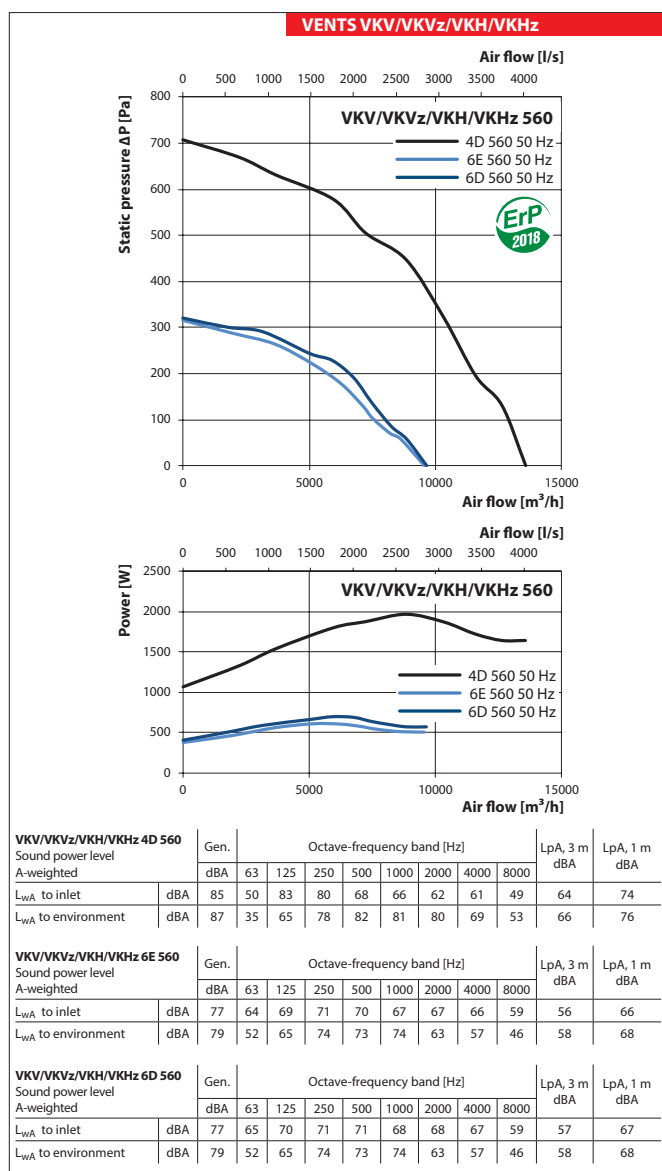
Technical data

	VKV/VKVz/ VKH/VKHz 4E 450	VKV/VKVz/ VKH/VKHz 6E 450	VKV/VKVz/ VKH/VKHz 4D 450	VKV/VKVz/ VKH/VKHz 4D 500	VKV/VKVz/ VKH/VKHz 6E 500	VKV/VKVz/ VKH/VKHz 6D 500
Voltage [V]	1~230	1~230	3~400	3~400	1~230	3~400
Frequency [Hz]	50	50	50	50	50 60	50 60
Power [W]	749	268	755	1527	407 673	440 599
Current [A]	3.35	1.25	1.50	2.64	1.81 3.05	1.23 1.32
Max. air flow [m³/h]	6 180	4 380	5 920	8 435	5 680 6 532	6 000 6 122
RPM [min⁻¹]	1400	940	1440	1460	970 1120	978 1125
Sound pressure level at 3 m [dBA]	58	50	57	62	52 54	52 54
Transported air temperature [°C]	-30...+60	-30...+60	-30...+50	-30...+50	-25...+60	-25...+60
Protection rating	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Motor protection rating	IP54	IP54	IP54	IP54	IP54	IP54



Technical data

	VKV/VKVz/ VKH/VKHz 4D 560	VKV/VKVz/ VKH/VKHz 6E 560	VKV/VKVz/ VKH/VKHz 6D 560	VKV/VKVz/ VKH/VKHz 6D 630
Voltage [V]	3~400	1~230	3~400	3~400
Frequency [Hz]	50	50	50	50
Power [W]	1970	613	696	1110
Current [A]	3.36	2.70	1.44	2.42
Max. air flow [m³/h]	13 560	9 560	9 630	12 640
RPM [min⁻¹]	1400	930	970	957
Sound pressure level at 3 m [dBA]	66	58	58	64
Transported air temperature [°C]	-25...+50	-25...+50	-25...+50	-25...+50
Protection rating	IPX4	IPX4	IPX4	IPX4
Motor protection rating	IP54	IP54	IP54	IP54



Technical data

	VKV/VKVz/VKH/VKHz 6D 710
Voltage [V]	3~400
Frequency [Hz]	50
Power [W]	2583
Current [A]	4.87
Max. air flow [m ³ /h]	17 010
RPM [min ⁻¹]	945
Sound pressure level at 3 m [dBA]	67
Transported air temperature [°C]	-25...+70
Protection rating	IPX4
Motor protection rating	IP54

