

AXIAL FANS

Series
VENTS OV



Series
VENTS OVK



Series
VENTS VKF



Low pressure axial fans in the steel casing with the air capacity up to **12200 m³/h (50 Hz)** and up to **12400 m³/h (60 Hz)** for wall mounting

■ **Applications**

Combined supply and exhaust ventilation systems for various premises where high air capacity at relatively low system resistance is required. OV and OVK fans can be used for the direct air exhaust or pressurization in smoke ventilation systems. OV and OVK fan are suitable for outdoor wall mounting.

■ **Design**

The fan casing and the impeller are made of steel with polymeric coating. OV and OVK fan terminal box is equipped with the cord for remote connection. VKF fan is fitted with the external terminal box mounted on the fan casing.

■ **Motor**

The impellers are powered by two-, four- or six-pole, single or three phase asynchronous motors with external rotor and built-in thermal overheating protection depending on the model. Ball bearings in the motor provide long service life designed for at least 40 000 hours. Motor protection rating IP 44.

■ **Speed control**

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

■ **Mounting**

Fan is installed on the wall surface by means of a square (OV series) or round (OVK series) mounting plate. VKF fan is installed into the duct by means of connecting flanges. The fan is powered through the external remote terminal box. Power supply and installation shall be performed in compliance with the manual and wiring diagram on the terminal box.

Designation key:

Series and modification	Motor modification		Dimension type
	Number of poles	Phase	
VENTS OV – square mounting plate	2 4 6	E – single phase D – three phase	200; 250; 300; 350; 400; 450; 500; 550; 630
VENTS OVK – round mounting plate			
VENTS VKF – mounting into a vent duct			

Accessories



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ErP data

Overall efficiency	η, [%]
Measurement category	MC
Efficiency category	EC
Efficiency grade	N
Variable speed drive	VSD
Power	[kW]
Current	[A]
Air flow	[m ³ /h]
Static pressure	[Pa]
Speed	[n/min ⁻¹]
Specific ratio	SR

Technical data:

	OV / OVK / VKF 2E 200		OV / OVK / VKF 2E 250		OV / OVK / VKF 4E 250		OV / OVK / VKF 2E 300	
Voltage [V / 50 Hz]	1- 220-240		1- 220-240		1- 220-240		1- 220-240	
Frequency, Hz	50	60	50	60	50	60	50	60
Power [W]	55	61	80	91	50	56	145	178
Current [A]	0,26	0,28	0,4	0,42	0,22	0,24	0,66	0,79
Max. air capacity [m ³ /h]	860	875	1050	1150	800	865	2230	2280
RPM [min ⁻¹]	2300	2550	2400	2990	1380	1730	2300	2410
Noise level at 3 m [dBA]	50	51	60	61	55	56	60	61
Transported air temperature [°C]	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50
Protection rating	IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4	

Technical data:

	OV / OVK / VKF 4E 300		OV / OVK / VKF 4E 350		OV / OVK / VKF 4E 400		OV / OVK / VKF 4E 450	
Voltage [V / 50 Hz]	1- 220-240		1- 220-240		1- 220-240		1- 220-240	
Frequency, Hz	50	60	50	60	50	60	50	60
Power [W]	75	92	140	147	180	240	250	325
Current [A]	0,35	0,4	0,65	0,66	0,82	1,08	1,2	1,46
Max. air capacity [m ³ /h]	1340	1475	2500	2650	3580	3890	4680	4790
RPM [min ⁻¹]	1350	1405	1380	1700	1380	1655	1350	1600
Noise level at 3 m [dBA]	58	59	62	63	63	64	64	65
Transported air temperature [°C]	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50
Protection rating	IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4	


Technical data:

	OV / OVK / VKF 4E 500		OV / OVK / VKF 4E 550		OV / OVK / VKF 4E 630		OV / OVK / VKF 6E 630	
Voltage [V / 50 Hz]	1- 220-240		1- 220-240		1- 220-240		1- 220-240	
Frequency, Hz	50	60	50	60	50	60	50	60
Power [W]	420	455	550	654	750	979	540	610
Current [A]	1,95	2,05	2,55	2,88	3,5	4,26	2,4	2,74
Max. air capacity [m ³ /h]	7060	7130	8800	8970	11900	12100	10900	10990
RPM [min ⁻¹]	1300	1630	1300	1580	1360	1625	850	1075
Noise level at 3 m [dBA]	69	69	70	71	75	76	72	72
Transported air temperature [°C]	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50
Protection rating	IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4	





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Technical data:

	OV / OVK / VKF 2D 250		OV / OVK / VKF 4D 250		OV / OVK / VKF 2D 300 		OV / OVK / VKF 4D 300	
	3- 400							
Voltage [V / 50 Hz]	3- 400							
Frequency, Hz	50	60	50	60	50	60	50	60
Power [W]	80	92	60	89	145	165	75	94
Current [A]	0,22	0,24	0,17	0,22	0,25	0,29	0,22	0,25
Max. air capacity [m3/h]	1060	1150	850	885	2310	2390	1310	1530
RPM [min-1]	2600	3030	1400	1750	2350	2570	1380	1640
Noise level at 3 m [dBA]	60	62	55	55	60	61	58	
Transported air temperature [°C]	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50
Protection rating	IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4	

Technical data:

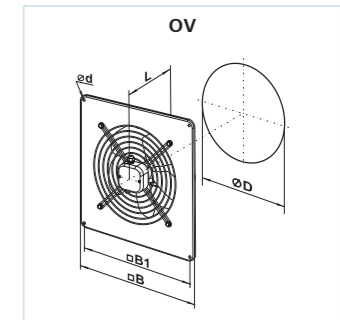
	OV / OVK / VKF 4D 350 		OV / OVK / VKF 4D 400 		OV / OVK / VKF 4D 450 		OV / OVK / VKF 4D 500 	
	3- 400							
Voltage [V / 50 Hz]	3- 400							
Frequency, Hz	50	60	50	60	50	60	50	60
Power [W]	140	150	180	195	250	275	450	370
Current [A]	0,38	0,41	0,47	0,55	0,6	0,65	0,9	0,7
Max. air capacity [m3/h]	2520	2590	3740	3870	5280	5350	6570	6230
RPM [min-1]	1380	1640	1380	1625	1360	1620	1300	1605
Noise level at 3 m [dBA]	62	63	64	65	65	66	72	67
Transported air temperature [°C]	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50	-30 +60	-30 +50
Protection rating	IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4		IP 24 VKF IPX4	

Technical data:

	OV / OVK / VKF 4D 550 		OV / OVK / VKF 4D 630 	
	3- 400			
Voltage [V / 50 Hz]	3- 400			
Frequency, Hz	50	60	50	60
Power [W]	750	600	800	910
Current [A]	1,5	1,1	1,6	1,68
Max. air capacity [m3/h]	9700	7380	12200	12400
RPM [min-1]	1350	1605	1320	1585
Noise level at 3 m [dBA]	73	69	78	79
Transported air temperature [°C]	-30 +60	-30 +50	-30 +60	-30 +50
Protection rating	IP 24 VKF IPX4		IP 24 VKF IPX4	

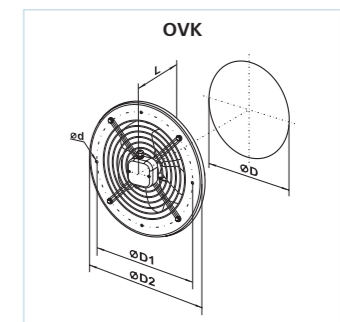
Fan overall dimensions:

Type	Dimensions [mm]					Weight [kg]
	∅D	∅d	B	B1	L	
OV 2E 200	210	7	312	260	145	3.9
OV 2E 250 / OV 2D 250	260	7	370	320	155	4.2
OV 4E 250 / OV 4D 250	260	7	370	320	155	4.1
OV 2E 300	326	9	430	380	195	5.3
OV 2D 300	326	9	430	380	155	5.3
OV 4E 300	326	9	430	380	195	5.1
OV 4D 300	326	9	430	380	155	5.1
OV 4E 350 / OV 4D 350	388	9	485	435	200	7.1
OV 4E 400 / OV 4D 400	417	9	540	490	240	8.8
OV 4E 450 / OV 4D 450	465	11	576	535	250	10.6
OV 4E 500 / OV 4D 500	520	11	655	615	260	14.2
OV 4E 550 / OV 4D 550	570	11	725	675	280	16.6
OV 4E 630 / OV 4D 630	650	11	800	710	295	22.6
OV 6E 630	650	11	800	710	295	22.6



Fan overall dimensions:

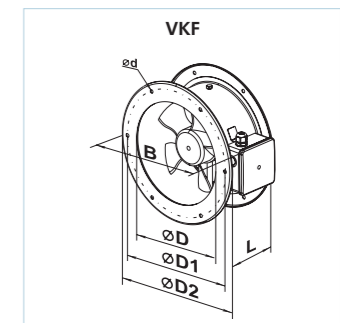
Type	Dimensions [mm]					Weight [kg]
	∅D	∅D1	∅D2	∅d	L	
OVK 2E 200	210	250	280	7	145	2.5
OVK 2E 250 / OVK 2D 250	260	295	320	7	155	3.4
OVK 4E 250 / OVK 4D 250	260	295	320	7	155	3.4
OVK 2E 300	326	380	397	9	195	4.4
OVK 2D 300	326	380	397	9	155	4.4
OVK 4E 300	326	380	397	9	195	4.7
OVK 4D 300	326	380	397	9	155	4.7
OVK 4E 350 / OVK 4D 350	388	442	460	9	200	6.3
OVK 4E 400 / OVK 4D 400	417	504	528	9	240	8.3
OVK 4E 450 / OVK 4D 450	465	578	607	11	250	9.8
OVK 4E 500 / OVK 4D 500	520	590	655	11	260	12.2
OVK 4E 550 / OVK 4D 550	570	645	710	11	280	15.0
OVK 4E 630 / OVK 4D 630	650	760	800	11	295	20.8
OVK 6E 630	650	760	800	11	295	20.8



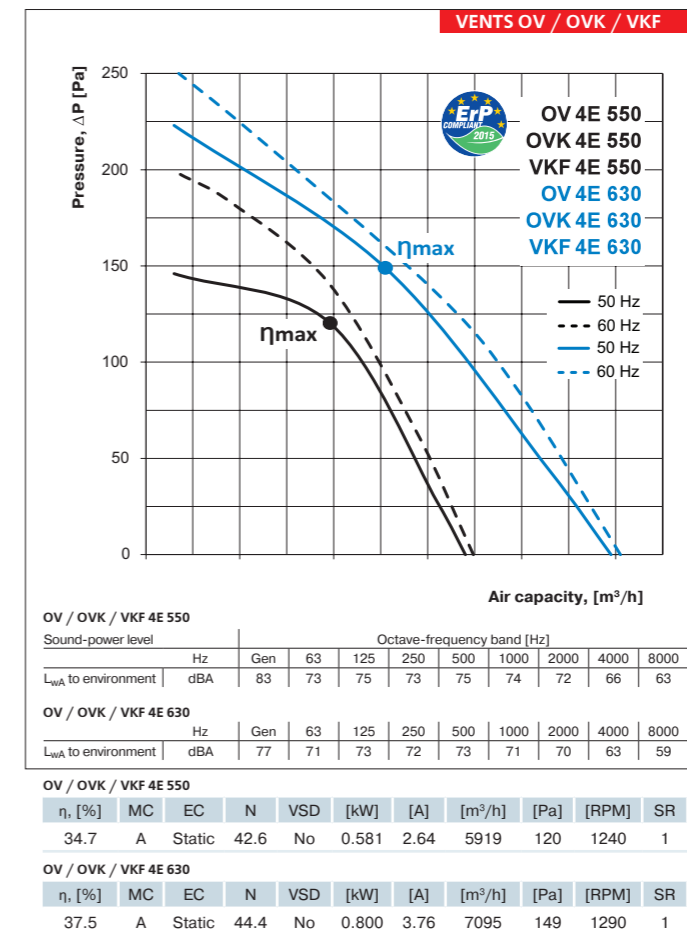
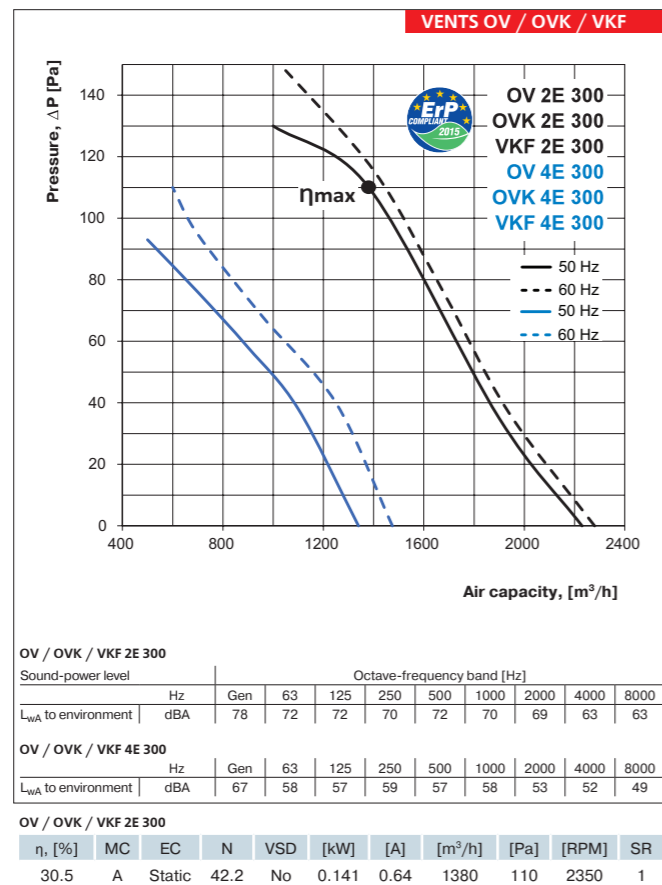
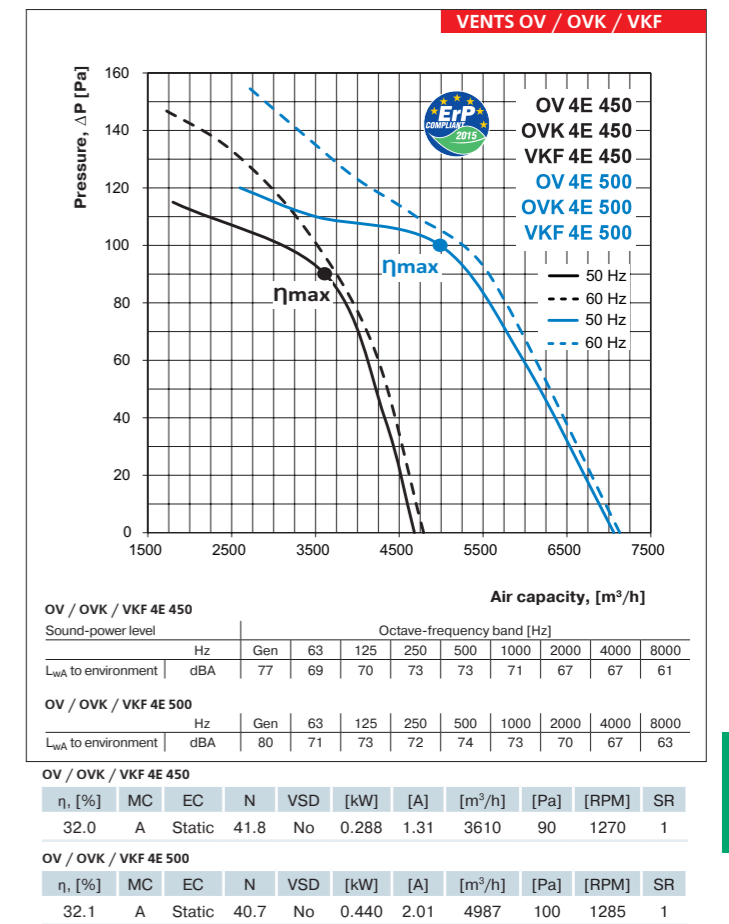
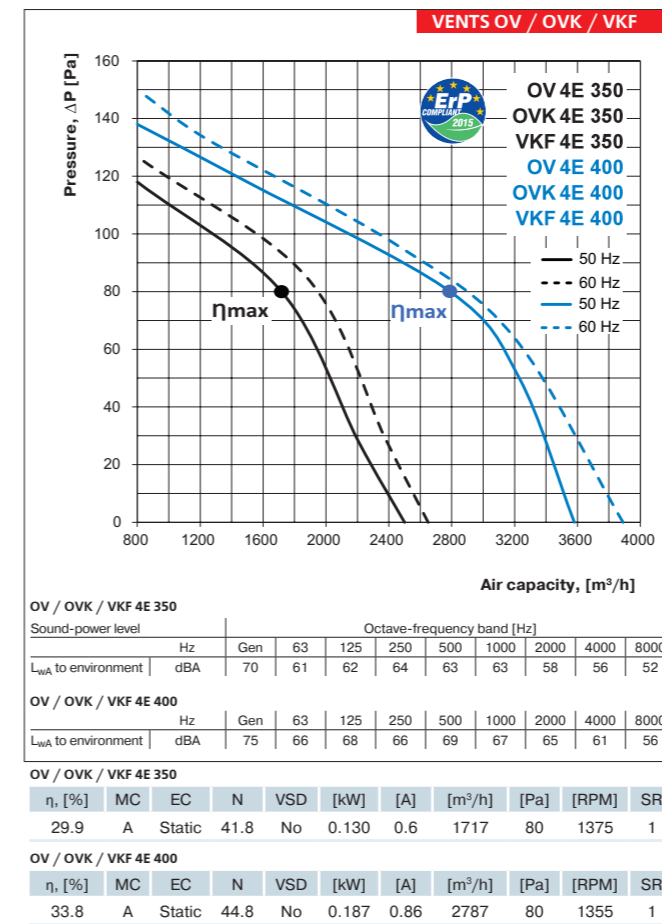
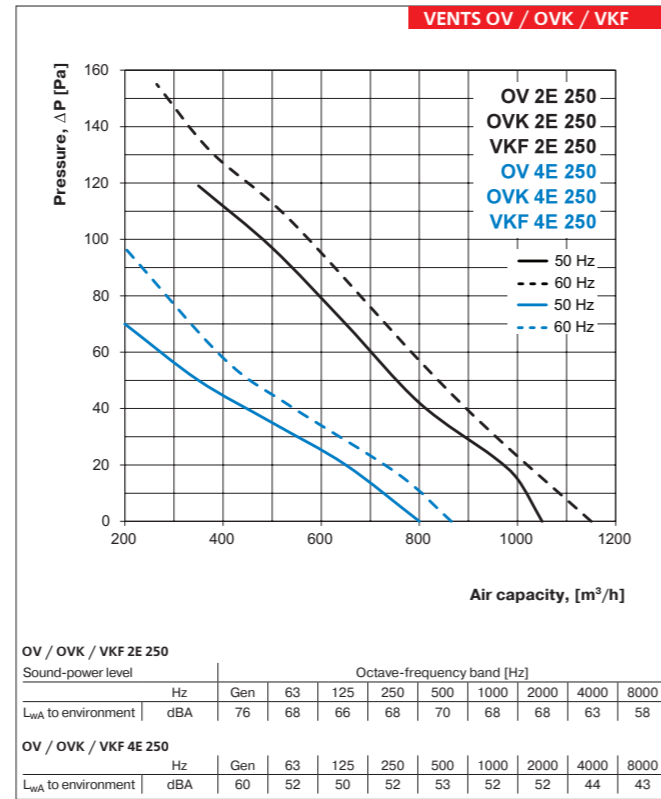
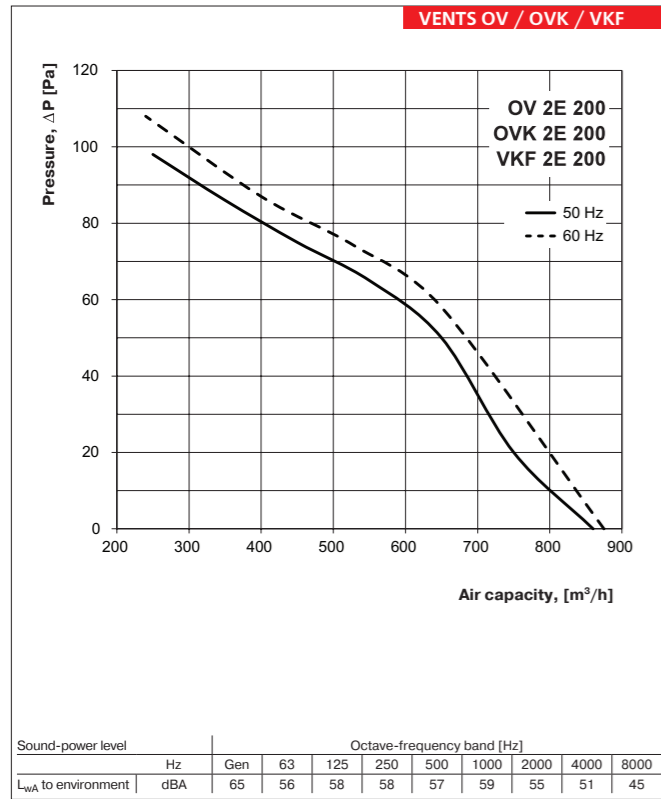
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Fan overall dimensions:

Type	Dimensions [mm]						Weight [kg]
	∅D	∅D1	∅D2	∅d	B	L	
VKF 2E 200	205	235	255	7	290	120	1.95
VKF 2E 250 / VKF 2D 250	260	286	306	7	340	150	3.84
VKF 4E 250 / VKF 4D 250	260	286	306	7	340	150	3.96 / 3.84
VKF 2E 300 / VKF 2D 300	310	356	382	7	410	160	5.31
VKF 4E 300 / VKF 4D 300	310	356	382	7	410	160	5.59 / 5.31
VKF 4E 350 / VKF 4D 350	362	395	421	9.5	450	160	6.37
VKF 4E 400 / VKF 4D 400	412	438	465	9.5	500	170	8.39
VKF 4E 450 / VKF 4D 450	462	487	515	9.5	550	200	10.65
VKF 4E 500	515	541	570	9.5	600	220	12.65
VKF 4E 550	565	605	636	11.5	660	230	17.3
VKF 4E 630	645	674	715	11.5	740	250	20.13

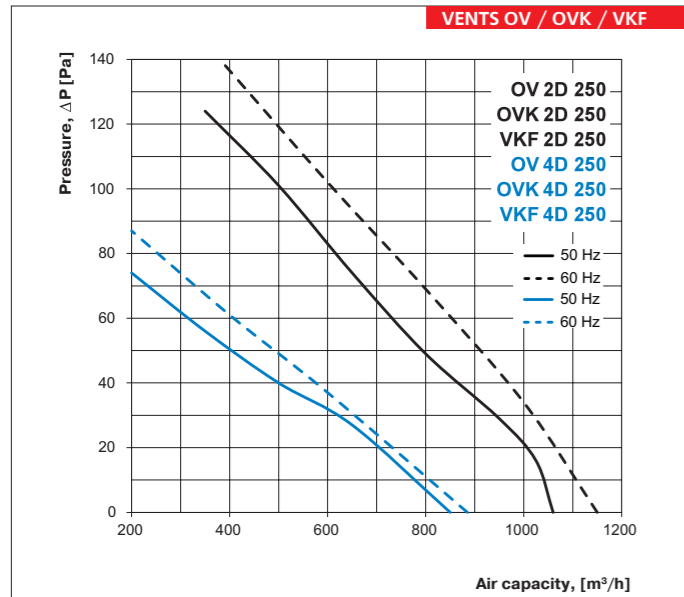


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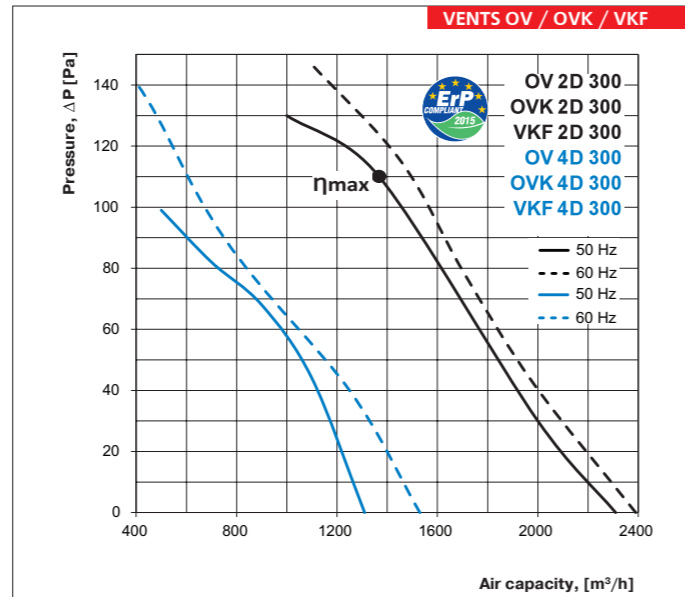


OV / OVK / VKF 2D 250

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	77	67	68	70	69	68	66	60	57

OV / OVK / VKF 4D 250

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	60	49	50	53	54	53	52	45	42



OV / OVK / VKF 2D 300

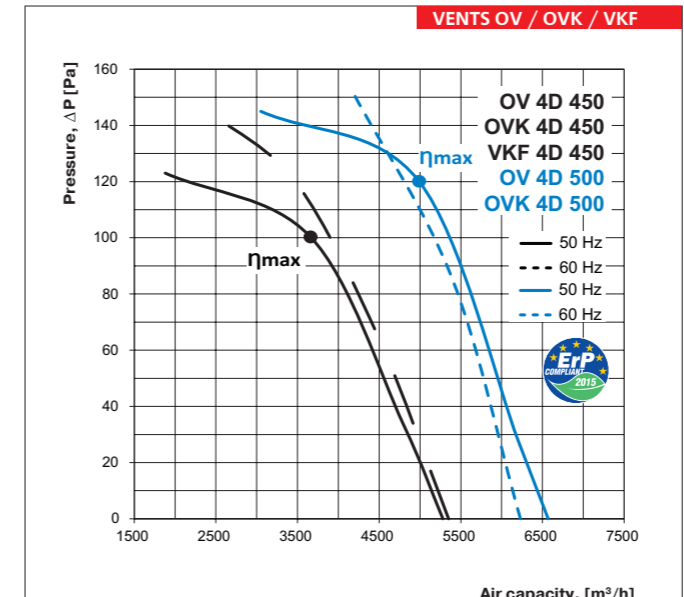
Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	80	72	71	71	74	70	69	65	63

OV / OVK / VKF 4D 300

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	63	58	55	58	56	58	57	52	48

OV / OVK / VKF 2D 300

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
30.3	A	Static	42	No	0.141	0.25	1367	110	2350	1



OV / OVK / VKF 4D 450

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	76	65	68	69	69	70	64	60	57

OV / OVK 4D 500

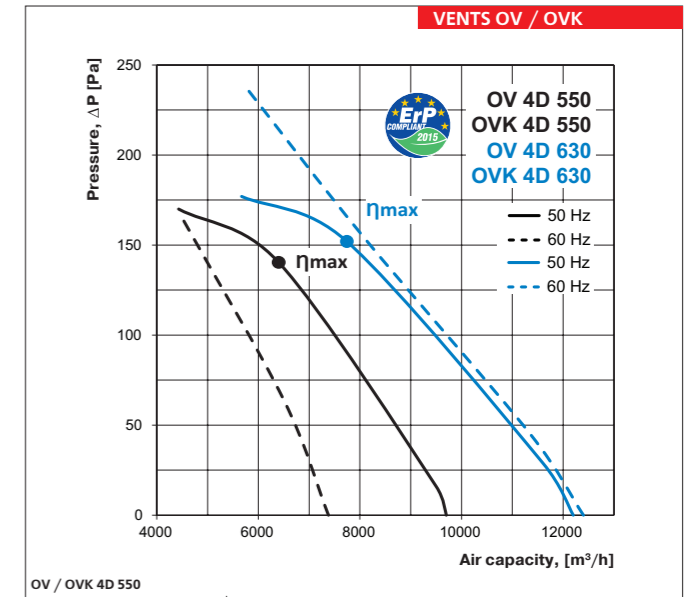
Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	82	73	71	75	78	76	71	65	61

OV / OVK / VKF 4D 450

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
35.1	A	Static	44.8	No	0.296	0.59	3659	100	1310	1

OV / OVK 4D 500

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
35.5	A	Static	43.9	No	0.478	0.9	4988	120	1305	1



OV / OVK 4D 550

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	84	75	79	72	76	71	77	69	68

OV / OVK 4D 630

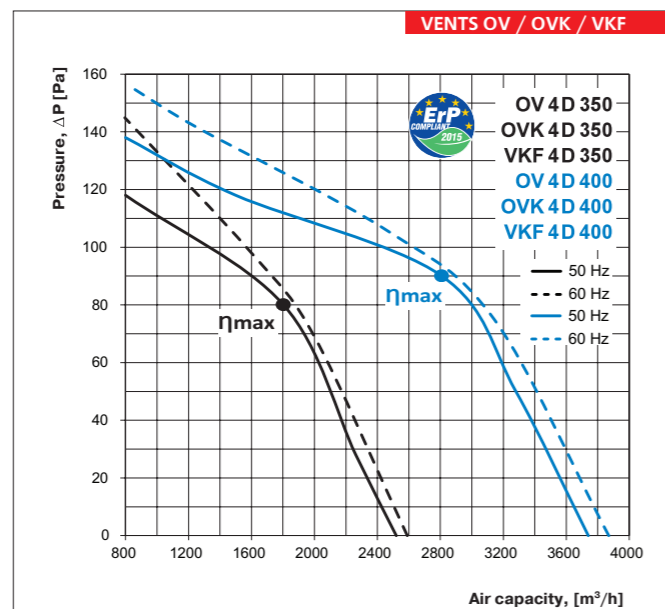
Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	78	75	69	70	74	74	69	65	64

OV / OVK 4D 550

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
38.8	A	Static	46.3	No	0.656	1.27	6400	140	1175	1

OV / OVK 4D 630

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
41.2	A	Static	48.1	No	0.810	1.61	7743	152	1290	1



OV / OVK / VKF 4D 350

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	72	62	61	64	64	61	61	56	54

OV / OVK / VKF 4D 400

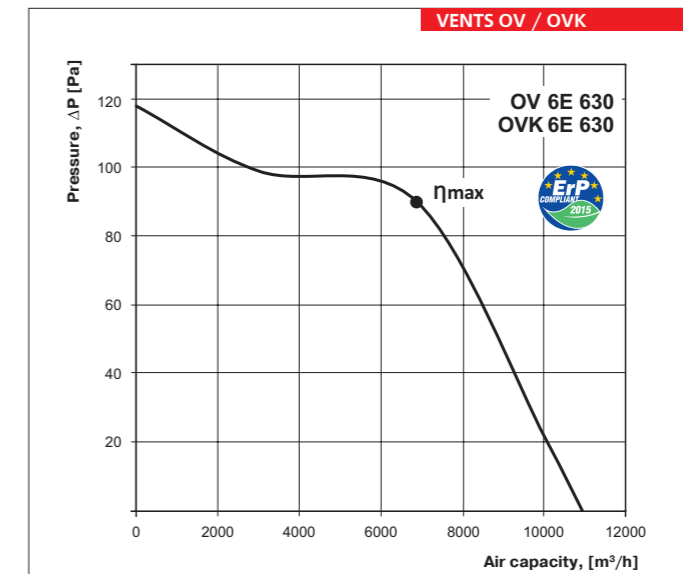
Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	75	65	66	69	66	67	64	60	55

OV / OVK / VKF 4D 350

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
31.7	A	Static	43.7	No	0.129	0.37	1802	80	1400	1

OV / OVK / VKF 4D 400

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
34.3	A	Static	44.9	No	0.209	0.47	2807	90	1365	1



OV / OVK 6E 630

Sound-power level	Octave-frequency band [Hz]									
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L _{WA} to environment	dBA	75	51	56	61	65	67	66	60	54

OV / OVK 6E 630

η _i [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
35	A	Static	43.3	No	0.500	2.55	6857	90	915	1

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