

Series
VENTS OV



Series
VENTS OVK



Series
VENTS VKF



Low pressure axial fans in the steel casing with the air flow up to **15500 m³/h** for wall and duct mounting

■ **Applications**

Combined supply and exhaust ventilation systems for various premises where high air flow 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 a cable 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 40000 hours. Motor protection rating IP44-IP54.

■ **Speed control**

Step speed control with an external auto transformer (available upon separate order)

■ **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
VENTS OV: square mounting plate VENTS OVK: round mounting plate VENTS VKF: mounting into a vent duct	Number of poles	Phase	200; 250; 300; 350; 400; 450; 500; 550; 630, 710, 800
	2 4 6 8	E: single phase D: three phase	

Accessories



Speed controllers
RSA5D-...-M RSASE-...-T

Technical data

	OV/OVK/VKF 2E 200		OV/OVK/VKF 2E 250		OV/OVK/VKF 4E 250		OV/OVK/VKF 2E 300		OV/OVK/VKF 4E 300	
Voltage [V]	1~230		1~230		1~230		1~230		1~230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60
Power [W]	55	61	80	91	50	56	145	178	75	92
Current [A]	0.26	0.28	0.4	0.42	0.22	0.24	0.66	0.79	0.35	0.4
Max. air flow [m³/h]	860	875	1050	1150	800	865	2230	2280	1340	1475
RPM [min ⁻¹]	2300	2550	2400	2990	1380	1730	2300	2410	1350	1405
Noise level at 3 m [dBA]	48	49	50	51	38	39	53	54	44	45
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
Protection rating	IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4	

	OV/OVK/VKF 4E 350		OV/OVK/VKF 4E 400		OV/OVK/ VKF 4E 450	OV/OVK/ VKF 4E 450 (220V/60Hz)	OV/OVK/ VKF 6E 450	OV/OVK/ VKF 6E 450 (220V/60Hz)	OV/OVK/ VKF 4E 500	OV/OVK/ VKF 4E 500 (220V/60Hz)
Voltage [V]	1~230		1~230		1~230		1~230		1~230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60
Power [W]	140	147	180	240	250	325	151	161	420	455
Current [A]	0.65	0.66	0.82	1.08	1.2	1.46	0,78	0,8	1.95	2.05
Max. air flow [m³/h]	2500	2650	3580	3890	4680	4790	3200	3250	7060	7130
RPM [min ⁻¹]	1380	1700	1380	1655	1350	1600	945	1115	1300	1630
Noise level at 3 m [dBA]	46	47	53	54	56	57	52	52	58	59
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30 +60	-30 +50	-30...+60	-30...+50
Protection rating	IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4	

	OV/OVK/ VKF 6E 500	OV/OVK/ VKF 6E 500 (220V/60Hz)	OV/OVK/ VKF 4E 550	OV/OVK/ VKF 4E 550 (220V/60Hz)	OV/OVK/ VKF 6E 550	OV/OVK/ VKF 6E 550 (220V/60Hz)	OV/OVK/ VKF 4E 630	OV/OVK/ VKF 4E 630 (220V/60Hz)	OV/OVK/ VKF 6E 630	OV/OVK/ VKF 6E 630 (220V/60Hz)
Voltage [V]	1~230		1~230		1~230		1~230		1~230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60
Power [W]	220	268	550	654	330	375	750	979	540	610
Current [A]	1,1	1,22	2.55	2.88	1,6	1,63	3.5	4.26	2,4	2,74
Max. air flow [m³/h]	4880	5380	8800	8970	6400	6520	11900	12100	10900	10990
RPM [min ⁻¹]	945	1105	1300	1580	950	1060	1360	1625	850	1075
Noise level at 3 m [dBA]	56	56	62	63	58	58	67	68	59	59
Transported air temperature [°C]	-30 +60	-30 +50	-30...+60	-30...+50	-30 +60	-30 +50	-30...+60	-30...+50	-30 +60	-30 +50
Protection rating	IP 24 BKF IPX4		IP 24 BKF IPX4		IP 24 BKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4	

	OV/OVK/VKF 2D 250		OV/OVK/VKF 4D 250		OV/OVK/VKF 2D 300		OV/OVK/VKF 4D 300		OV/OVK/VKF 4D 350		OV/OVK/VKF 4D 400	
Voltage [V]	3~400		3~400		3~400		3~400		3~400		3~400	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60	50	60
Power [W]	80	92	60	89	145	165	75	94	140	150	180	195
Current [A]	0.22	0.24	0.17	0.22	0.25	0.29	0.22	0.25	0.38	0.46	0.47	0.55
Max. air flow [m³/h]	1060	1150	850	885	2310	2390	1310	1530	2350	2660	3740	3870
RPM [min ⁻¹]	2600	3030	1400	1750	2350	2570	1380	1640	1419	1638	1380	1625
Noise level at 3 m [dBA]	51	52	38	38	52	52	45	45	46	46	54	54
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
Protection rating	IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4	

VENTS OV
 VENTS OVVK
 VENTS VKF
 FAN SERIES

AXIAL FANS

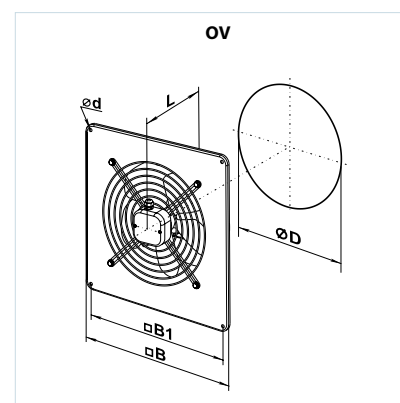
Technical data

	OV/OVK/ VKF 4D 450	OV/OVK/ VKF 4D 450 (220V/60Hz)	OV/OVK/ VKF 6D 450	OV/OVK/ VKF 6D 450 (220V/60Hz)	OV/OVK/ VKF 4D 500	OV/OVK/ VKF 4D 500 (220V/60Hz)	OV/OVK/ VKF 6D 500	OV/OVK/ VKF 6D 500 (220V/60Hz)	OV/OVK/ VKF 4D 550	OV/OVK/ VKF 4D 550 (220V/60Hz)
Voltage [V]	3~400		3~400		3~400		3~400		3~400	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60
Power [W]	250	275	148	175	450	370	230	281	750	600
Current [A]	0.6	0.65	0,42	0,47	0.9	0.7	0,58	0,59	1.5	1.1
Max. air flow [m³/h]	5280	5350	3500	3580	6570	6230	4900	5430	9700	7380
RPM [min ⁻¹]	1360	1620	900	1050	1300	1605	920	1015	1350	1605
Noise level at 3 m [dBA]	56	56	53	53	60	60	57	57	64	64
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
Protection rating	IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4	

	OV/OVK/ VKF 6D 550	OV/OVK/ VKF 6D 550 (220V/60Hz)	OV/OVK/VKF 4D 630	OV/OVK/ VKF 4D 630 (220V/60Hz)	OV/OVK/ VKF 6D 630	OV/OVK/ VKF 6D 630 (220V/60Hz)	OV/OVK/VKF 6D 710	OV/OVK/VKF 8D 710	OV/OVK/VKF 8D 800
Voltage [V]	3~400		3~400		3~400		3~400	3~400	3~400
Frequency [Hz]	50	60	50	60	50	60	50	50	50
Power [W]	337	447	800	910	550	716	1150	700	700
Current [A]	0,9	0,95	1.6	1.68	1,45	1,56	2.0	1.5	1.7
Max. air flow [m³/h]	6400	6520	12200	12400	10950	11120	15440	12000	15550
RPM [min ⁻¹]	910	1020	1320	1585	900	1060	830	710	710
Noise level at 3 m [dBA]	61	61	69	69	72	73	63	61	66
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+60	-30...+60
Protection rating	IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4		IP24 VKF IPX4	IP24 VKF IPX4	IP 24 VKF IPX4

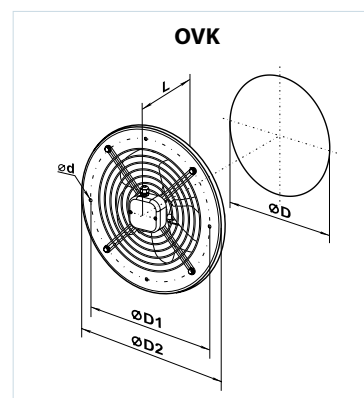
Fan overall dimensions

Type	Dimensions [mm]					Mass [kg]
	Ø D	Ø d	B	B1	L	
OV 2E 200	210	7	312	260	125	3.0
OV 2E 250 / OV 2D 250	260	7	370	320	135	4.0
OV 4E 250 / OV 4D 250	260	7	370	320	135	3.5
OV 2E 300 / OV 2D 300	317	9	430	380	145	6.1 / 5.4
OV 4E 300 / OV 4D 300	317	9	430	380	145	5.0 / 5.4
OV 4E 350 / OV 4D 350	374	9	485	435	165	7.8
OV 4E 400 / OV 4D 400	416	9	540	490	220	8.8
OV 4E 450 / OV 4D 450 OV 6E 450 / OV 6D 450	465	11	576	535	230	10.5
OV 4E 500 / OV 4D 500 OV 6E 500 / OV 6D 500	520	11	655	615	250	14.0
OV 4E 550 / OV 4D 550 OV 6E 550 / OV 6D 550	570	11	725	675	260	16.5
OV 4E 630 / OV 4D 630 OV 6E 630 / OV 6D 630	650	11	800	710	275	20.0
OV 6D 710 / OV 8D 710	725	13	900	810	350	33.0
OV 8D 800	800	13	970	910	350	44.0

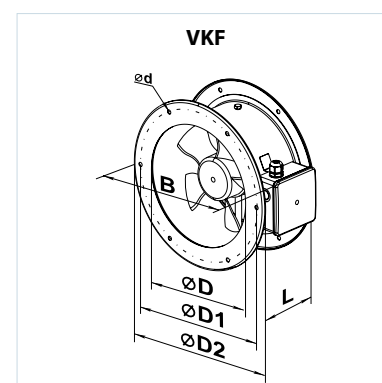


Fan overall dimensions

Type	Dimensions [mm]					Mass [kg]
	Ø D	Ø D1	Ø D2	Ø d	L	
OVK 2E 200	210	250	280	7	125	2.8
OVK 2E 250 / OVK 2D 250	260	318	340	7	135	3.8
OVK 4E 250 / OVK 4D 250	260	318	340	7	135	3.4
OVK 2E 300 / OVK 2D 300	317	380	397	9	145	5.9 / 5.1
OVK 4E 300 / OVK 4D 300	317	380	397	9	145	5.0 / 5.1
OVK 4E 350 / OVK 4D 350	374	442	460	9	165	7.5
OVK 4E 400 / OVK 4D 400	417	504	528	9	220	8.5
OVK 4E 450 / OVK 4D 450 OVK 6E 450 / OVK 6D 450	465	578	607	11	230	10.0
OVK 4E 500 / OVK 4D 500 OVK 6E 500 / OVK 6D 500	520	590	655	11	250	14.0
OVK 4E 550 / OVK 4D 550 OVK 6E 550 / OVK 6D 550	570	645	710	11	260	16.5
OVK 4E 630 / OVK 4D 630 OVK 6E 630 / OVK 6D 630	650	760	800	11	275	20.0
OVK 6D 710 / OVK 8D 710	725	820	890	13	350	31.0
OVK 8D 800	800	900	970	13	350	42.0

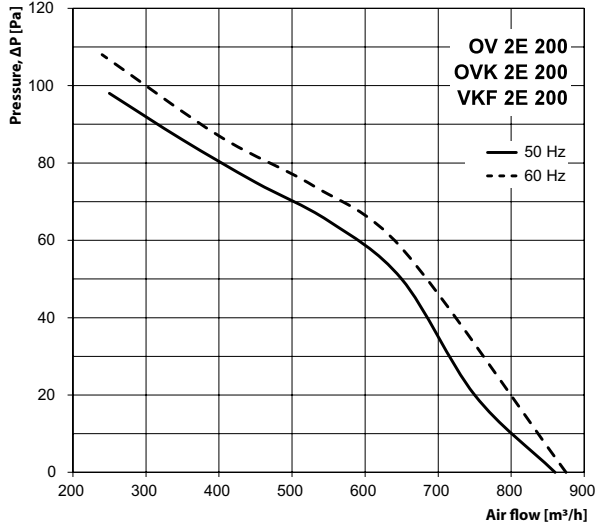


Type	Dimensions [mm]						Mass [kg]
	Ø D	Ø D1	Ø D2	Ø d	B	L	
VKF 2E 200	205	235	255	7	290	120	3.0
VKF 2E 250/VKF 2D 250	260	286	306	7	340	150	3.9
VKF 4E 250/VKF 4D 250	260	286	306	7	340	150	4.0
VKF 2E 300/VKF 2D 300	310	356	382	7	410	160	6.2 / 5.7
VKF 4E 300/VKF 4D 300	310	356	382	7	410	160	6.2
VKF 4E 350/VKF 4D 350	362	395	421	9.5	450	160	7.7
VKF 4E 400/VKF 4D 400	412	438	465	9.5	500	170	8.1
VKF 4E 450/VKF 4D 450	465	578	607	11	230	10.0	9.1
VKF 6E 450/VKF 6D 450	462	487	515	9.5	550	200	
VKF 4E 500/VKF 4D 500	570	645	710	11	260	16.5	11.0
VKF 6E 500/VKF 6D 500	515	541	570	9.5	600	220	
VKF 4E 550/VKF 4D 550	725	820	890	13	350	31.0	13.9
VKF 6E 550/VKF 6D 550	565	605	636	11.5	660	230	
VKF 4E 630/VKF 4D 630	645	674	715	11.5	740	250	16.4
VKF 6E 630/VKF 6D 630							
VKF 6D 710/VKF 8D 710	725	767	805	11.5	835	250	30.0
VKF 8D 800	800	845	880	11.5	910	280	40.0



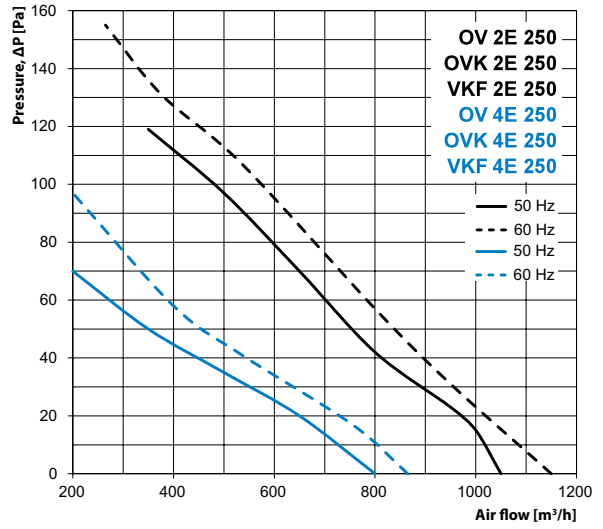
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VENTS OV/OVK/VKF



Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	68	28	39	52	58	66	62	57	50	48	58

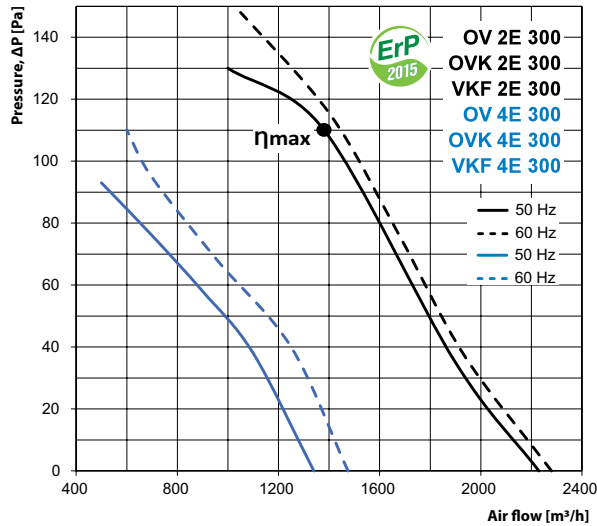
VENTS OV/OVK/VKF



Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	70	29	40	54	60	68	64	59	52	50	60

Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	59	25	39	43	49	54	54	49	43	38	48

VENTS OV/OVK/VKF

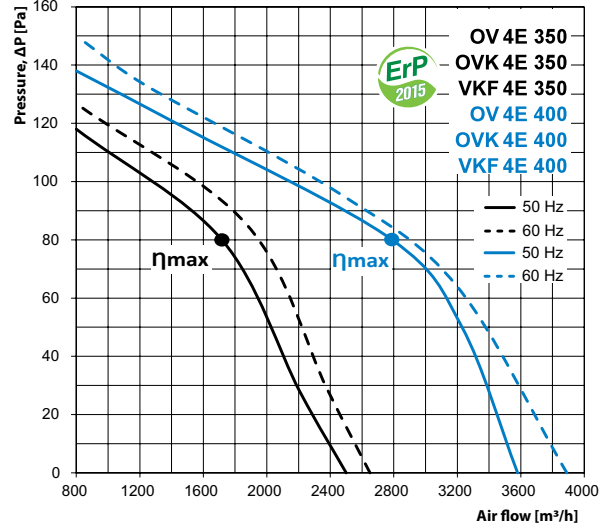


Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	74	40	49	63	63	71	67	60	56	53	63

Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	64	41	52	47	54	60	60	52	44	44	54

OV/OVK/VKF 2E 300	η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
	30.5	A	Static	42.2	No	0.141	0.64	1380	110	2350	1

VENTS OV/OVK/VKF

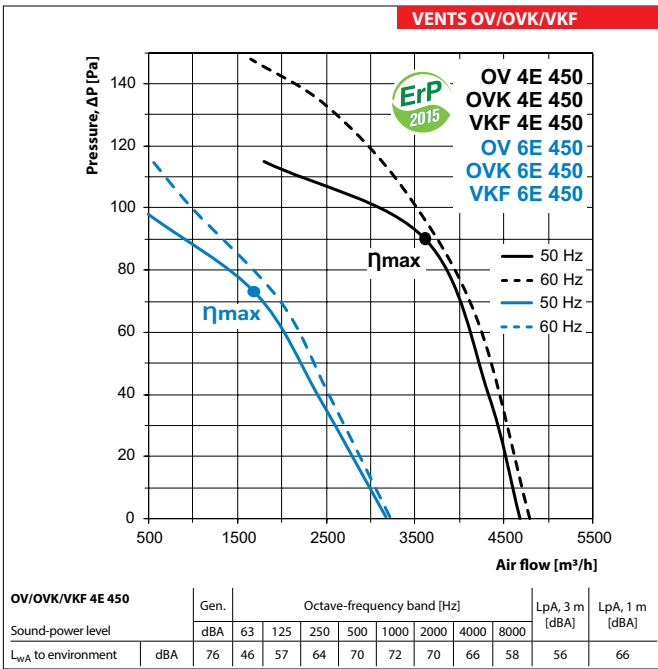


Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	67	26	43	49	60	62	62	53	46	46	56

Sound-power level	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2000	4000			8000
L _{WA} to environment	dBA	73	46	52	58	65	68	68	65	57	53	63

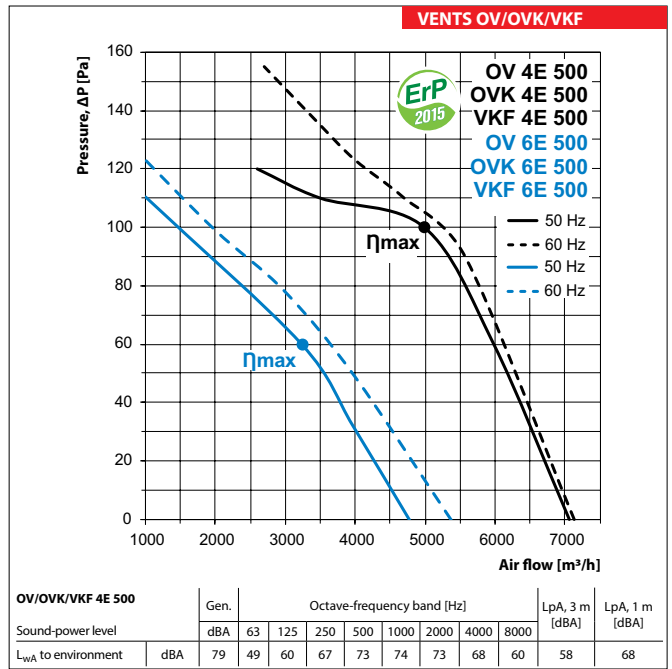
OV/OVK/VKF 4E 350	η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
	29.9	A	Static	41.8	No	0.130	0.6	1717	80	1375	1

OV/OVK/VKF 4E 400	η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
	33.8	A	Static	44.8	No	0.187	0.86	2787	80	1355	1



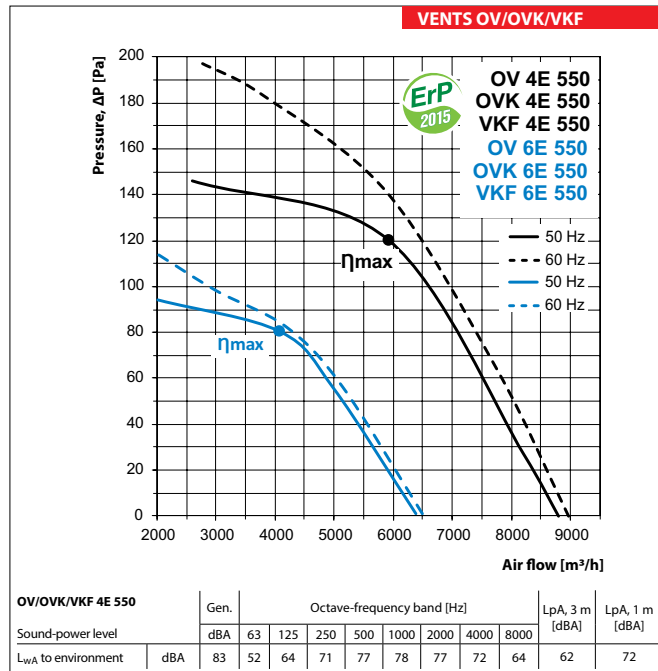
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
32.0	A	Static	41.8	No	0.288	1.31	3610	90	1270	1

η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
28.3	A	Static	37.2	No	0.139	0.7	1733	72	910	1



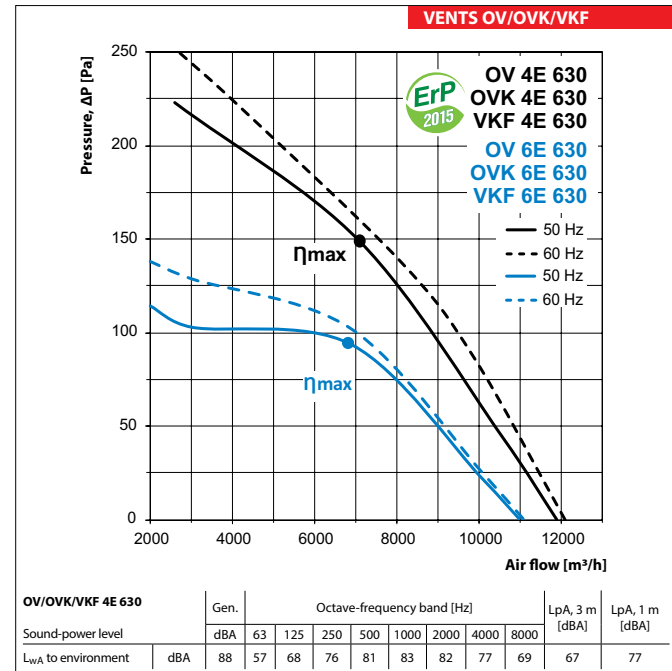
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
32.1	A	Static	40.7	No	0.440	2.01	4987	100	1285	1

η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
30.1	A	Static	41.1	No	0.186	0.86	3288	60	900	1



η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
34.7	A	Static	42.6	No	0.581	2.64	5919	120	1240	1

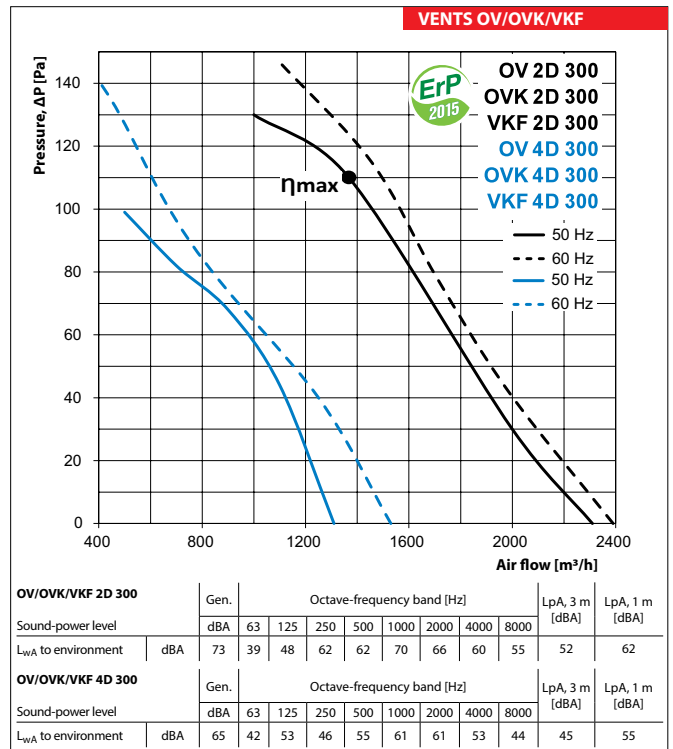
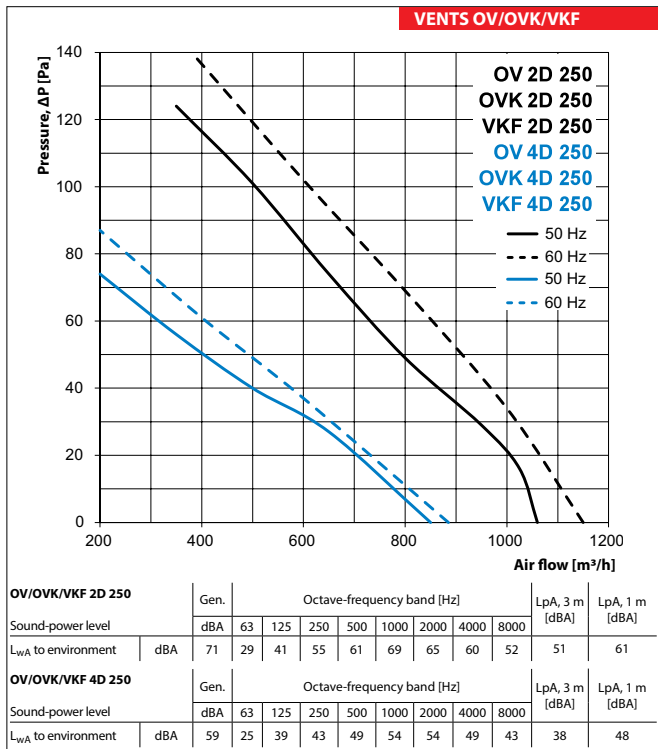
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
33.3	A	Static	43.1	No	0.279	1.34	4087	80	910	1



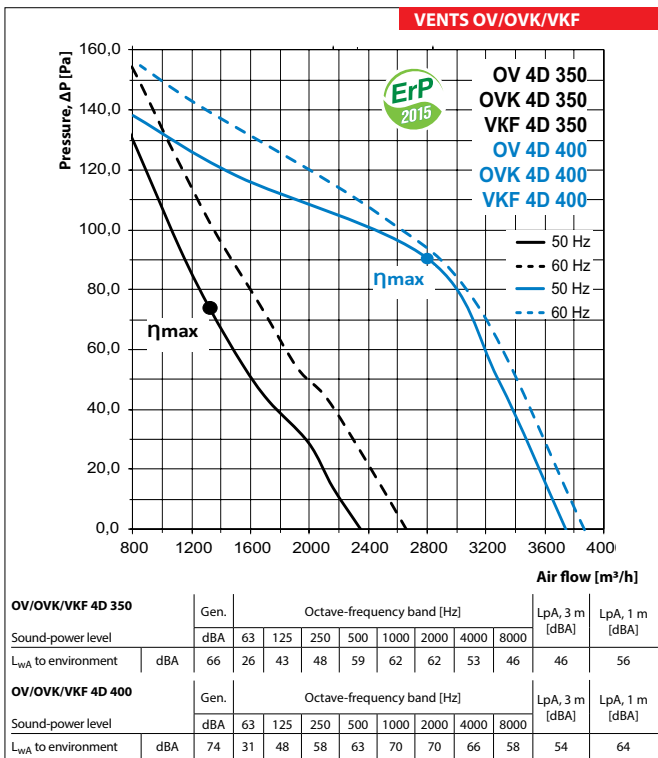
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
37.5	A	Static	44.4	No	0.800	3.76	7095	149	1290	1

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

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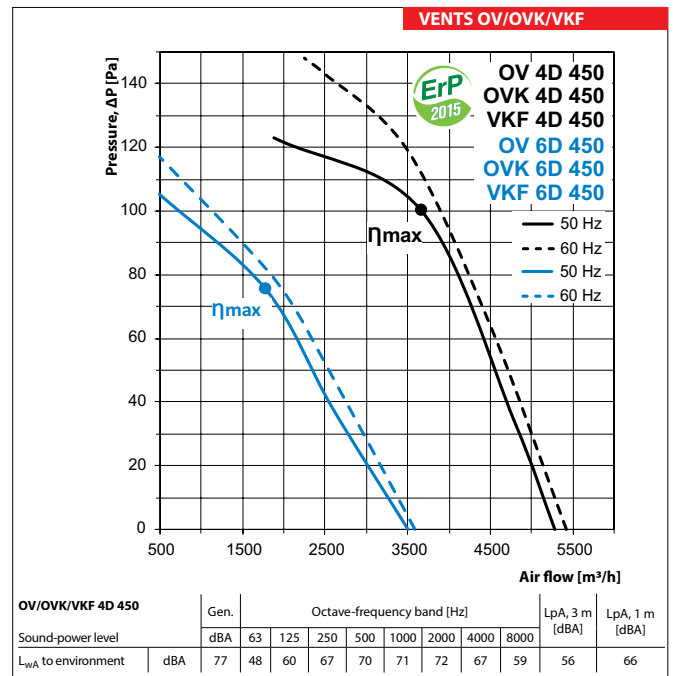


η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
30.3	A	Static	42	No	0.141	0.25	1367	110	2350	1



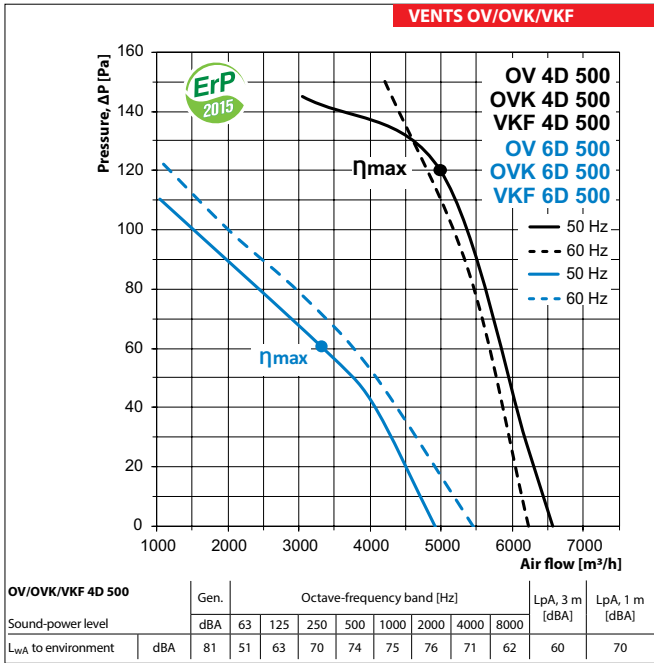
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
31.7	A	Static	43.7	No	0.129	0.37	1802	80	1400	1

η [%]	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



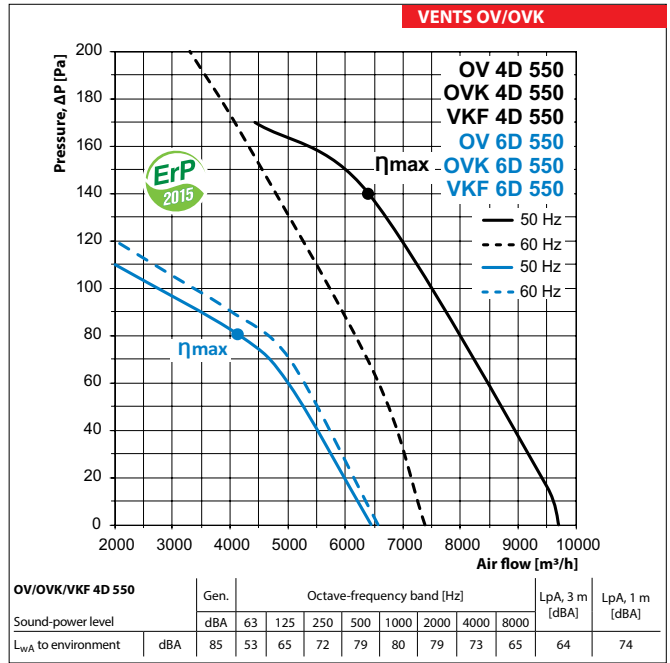
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
35.1	A	Static	44.8	No	0.296	0.59	3659	100	1310	1

η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
28.4	A	Static	37.9	No	0.145	0.4	1790	75	900	1



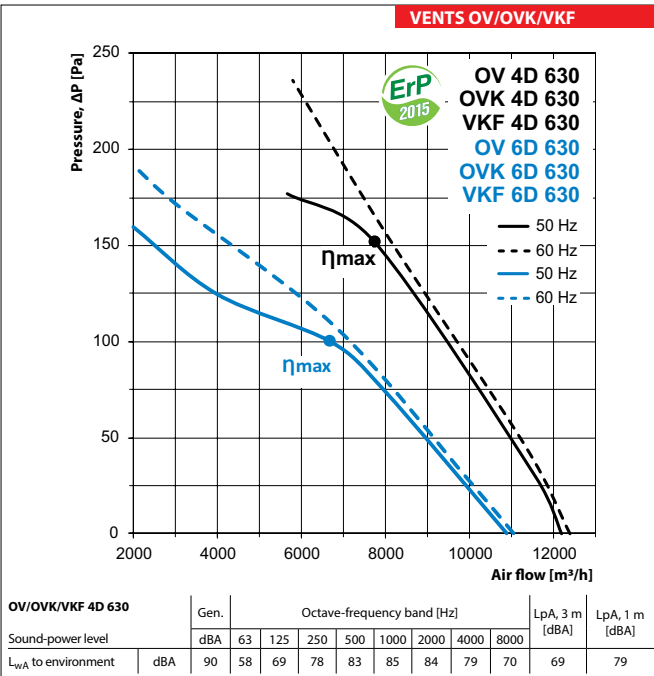
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
35.5	A	Static	43.9	No	0.478	0.9	4988	120	1305	1

η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
30.5	A	Static	41.5	No	0.185	0.47	3308	60	915	1



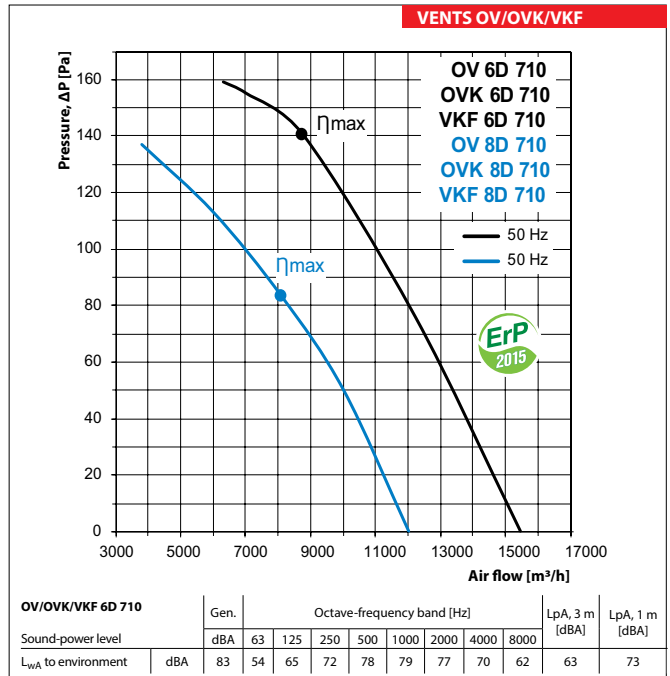
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
38.8	A	Static	46.3	No	0.656	1.27	6400	140	1175	1

η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
34.4	A	Static	44.3	No	0.273	0.74	4142	80	920	1



η [%]	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

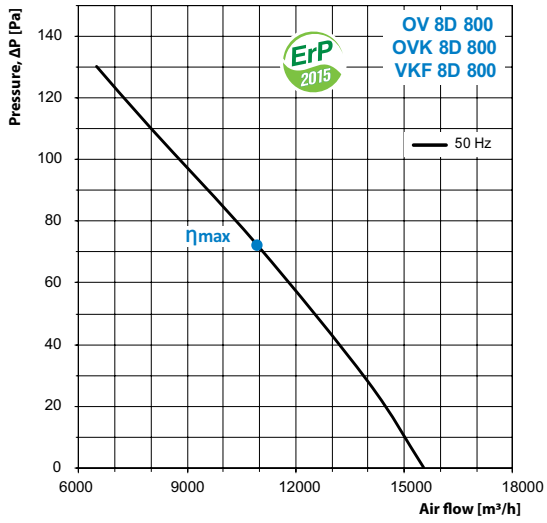
η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
37.0	A	Static	45.2	No	0.515	1.33	6737	100	920	1



η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
35,6	A	Static	42	No	0,979	1,91	8777	140	830	1

η [%]	MC	EC	N	VSD	kW	A	m³/h	Pa	RPM	SR
29,4	A	Static	37	No	0,648	1,48	8110	83	810	1

VENTS OV/OVK/VKF



OV/OVK/VKF 8D 800		Gen.	Octave-frequency band [Hz]							LpA, 3 m [dBA]	LpA, 1 m [dBA]	
Sound-power level	dBA	63	125	250	500	1000	2000	4000	8000			
L _{WA} to environment	dBA	88	57	69	77	82	83	81	74	65	67	77

OV/OVK/VKF 8D 800											
η [%]	MC	EC	N	VSD	kW	A	m ³ /h	Pa	RPM	SR	
32,2	A	Static	39,5	No	0,695	1,7	10955	72	710	1	