

Series
VENTS KSK



Centrifugal kitchen fan in sound-insulated casing with air flow up to **8138 m³/h**

■ **Application**

The fan is designed for ventilation of contaminated, grease-laden (using grease filters), humid and hot air with temperature up to 120 °C in conditions of high air resistance in the system. This fan model fits for the following applications:

- kitchen exhaust ventilation systems
- exhaust ventilation systems for removal of post-welding gases
- industrial bakery ventilation systems.

■ **Design description**

The fan casing is made of galvanized steel plate and is internally insulated with 50 mm mineral wool layer. The swivel block of the impeller and motor provides easy access to the fan internals for easy and effective cleaning.



The intake and exhaust flange diameter match with standard ventilation air ducts. The flanges are equipped with a rubber sealing. The fan is installed in the mounting frames with integrated vibration connectors.

■ **Electric motor**

Equipped with a highly reliable single-phase or three-phase motor with squirrel-cage rotor and steel high-performance centrifugal impeller with forward-curved blades (for sizes 150 to 250 mm) or backward-curved

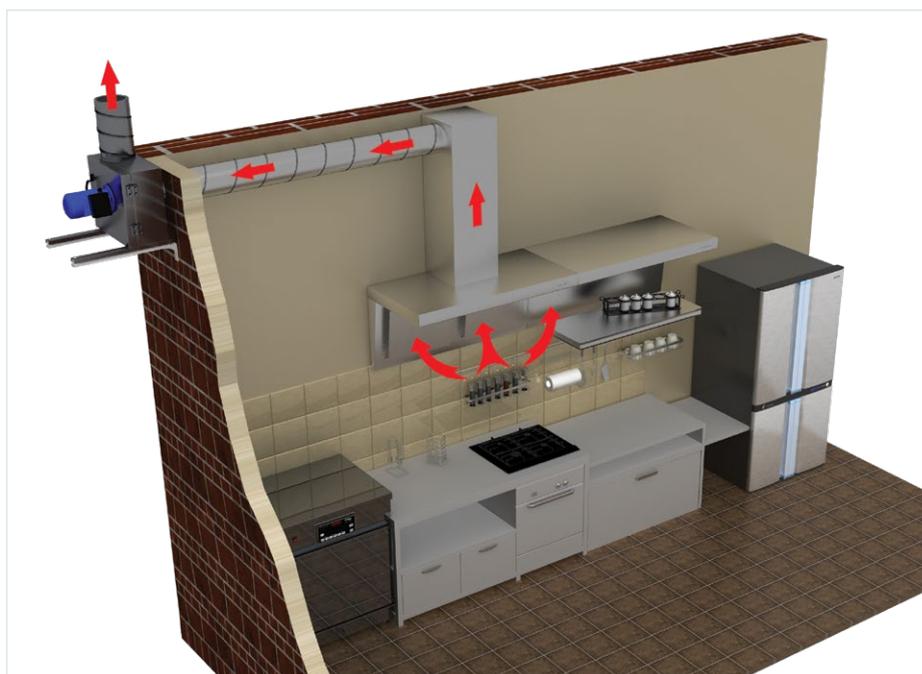
blades (for sizes 315 to 450 mm). The impeller is mounted on the motor shaft and is balanced statically and dynamically. The motor has F class motor winding insulation and IP54 ingress protection rating.

■ **Speed control**

Three-phase motors: Step speed control with transformer speed controller is available for all models. Single-phase motors: non-adjustable.

■ **Mounting**

The fan is designed for connection to round air ducts. The fan is fixed to the wall with the mounting bracket KM-KSK (separate delivery). The fan is connected to power mains on the terminal box on the motor. The cable length must be sufficient with respect to the motor-impeller block movement.



Designation key:

Fan series	Spigot diameter	Motor	
		Poles	Phase
VENTS KSK	150; 160; 200; 250; 315; 355; 400; 450	2	E: single-phase D: three-phase
		4	
		6	

Accessories



Fixing bracket KM-KSK

Sleeve N-KSK

Flexible connector VVH-KSK

Backdraft damper

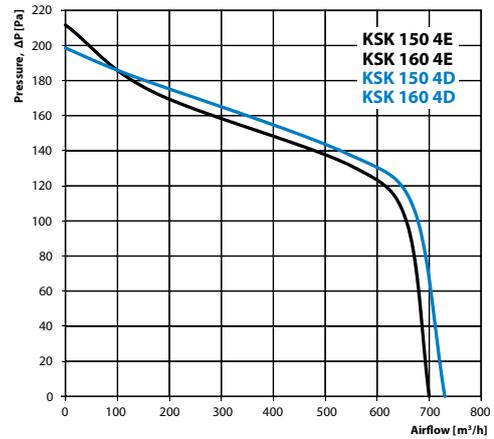
Speed controller RSA5D-...-M

Technical data

	KSK 150 4E KSK 160 4E	KSK 150 4D KSK 160 4D
Voltage [V/Hz]	230/50	400/50
Power [W]	180	180
Current [A]	1.7	0.6
Maximum air flow [m ³ /h]	700	730
RPM [min ⁻¹]	1450	1455
Noise level at 3 m [dBA]	41	41
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

	KSK 200 4E	KSK 200 4D
Voltage [V/Hz]	230/50	400/50
Power [W]	550	750
Current [A]	3	2
Maximum air flow [m ³ /h]	1600	1650
RPM [min ⁻¹]	1475	1465
Noise level at 3 m [dBA]	45	45
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

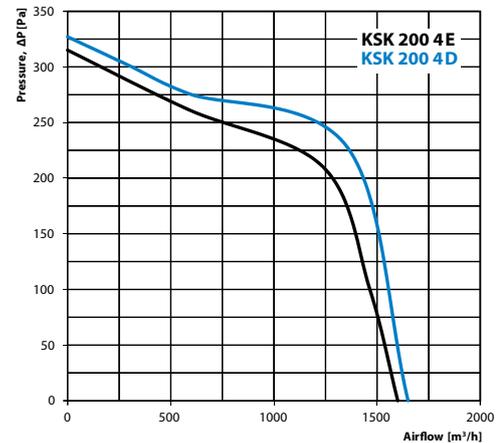
VENTS KSK



		Sound power level, A-filter applied								Sound pressure level at 3 meters, A-filter applied	Sound pressure level at 1 meters, A-filter applied	
		General										
		Octave frequency band, Hz										
	Hz	63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]	
L _{WA} to inlet	dBA	80	65	78	74	71	66	64	59	55	60	70
L _{WA} to outlet	dBA	82	58	81	76	73	68	66	62	57	62	72
L _{WA} to environment	dBA	62	47	60	55	52	47	45	40	36	41	51

		Sound power level, A-filter applied								Sound pressure level at 3 meters, A-filter applied	Sound pressure level at 1 meters, A-filter applied	
		General										
		Octave frequency band, Hz										
	Hz	63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]	
L _{WA} to inlet	dBA	79	59	77	73	70	66	64	59	55	59	69
L _{WA} to outlet	dBA	81	71	79	75	71	67	65	61	57	61	71
L _{WA} to environment	dBA	61	44	59	55	51	47	45	41	36	41	51

VENTS KSK



		Sound power level, A-filter applied								Sound pressure level at 3 meters, A-filter applied	Sound pressure level at 1 meters, A-filter applied	
		General										
		Octave frequency band, Hz										
	Hz	63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]	
L _{WA} to inlet	dBA	85	69	83	78	75	70	68	63	58	65	75
L _{WA} to outlet	dBA	86	61	85	80	76	72	69	65	60	66	76
L _{WA} to environment	dBA	66	50	64	59	55	50	48	43	38	45	55

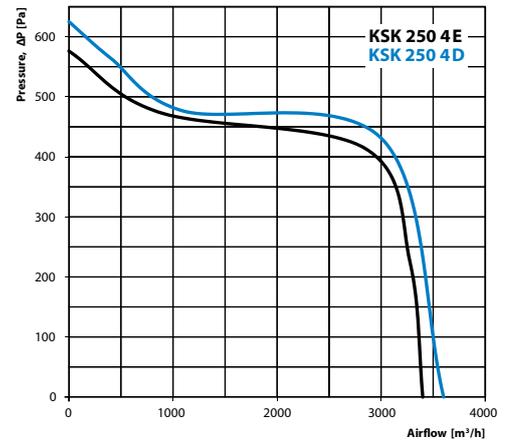
		Sound power level, A-filter applied								Sound pressure level at 3 meters, A-filter applied	Sound pressure level at 1 meters, A-filter applied	
		General										
		Octave frequency band, Hz										
	Hz	63	125	250	500	1000	2000	4000	8000	LpA, 3 m [dBA]	LpA, 1 m [dBA]	
L _{WA} to inlet	dBA	84	63	82	78	74	70	67	63	58	64	74
L _{WA} to outlet	dBA	86	76	84	80	76	72	70	65	61	66	76
L _{WA} to environment	dBA	66	50	64	59	55	50	48	43	38	45	55

SOUND-INSULATED KITCHEN FAN

	KSK 250 4E	KSK 250 4D
Voltage [V/Hz]	230/50	400/50
Power [W]	1500	1500
Current [A]	11	3.4
Maximum air flow [m³/h]	3400	3500
RPM [min⁻¹]	1500	1470
Noise level at 3 m [dBA]	51	51
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

	KSK 315 4E	
Voltage [V/Hz]	230/50	230/60
Power [W]	304	383
Current [A]	1.84	1.72
Maximum air flow [m³/h]	1970	2310
RPM [min⁻¹]	1475	1750
Noise level at 3 m [dBA]	46	47
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

VENTS KSK



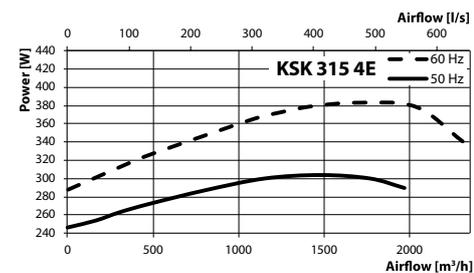
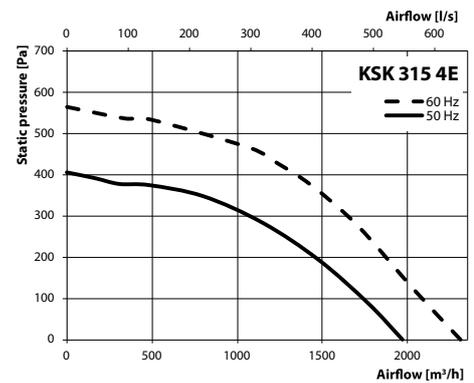
KSK 250 4E

	Hz	General	Octave frequency band, Hz								Sound pressure level at 3 meters, A-filter applied LpA, 3 m [dBA]	Sound pressure level at 1 meters, A-filter applied LpA, 1 m [dBA]
			63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet	dBA	90	81	87	83	80	76	74	70	66	70	80
L _{WA} to outlet	dBA	92	76	90	86	83	79	77	72	68	72	82
L _{WA} to environment	dBA	72	46	69	65	62	58	56	51	47	51	61

KSK 250 4D

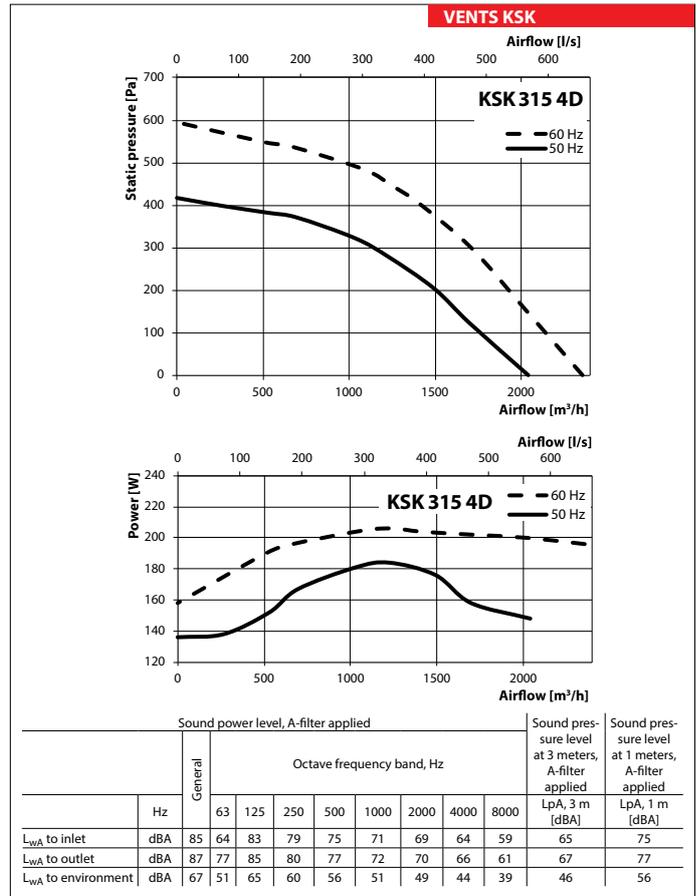
	Hz	General	Octave frequency band, Hz								Sound pressure level at 3 meters, A-filter applied LpA, 3 m [dBA]	Sound pressure level at 1 meters, A-filter applied LpA, 1 m [dBA]
			63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet	dBA	89	67	88	83	79	75	72	67	63	69	79
L _{WA} to outlet	dBA	91	81	89	85	81	76	74	69	64	71	81
L _{WA} to environment	dBA	71	55	70	64	60	55	52	47	42	51	61

VENTS KSK



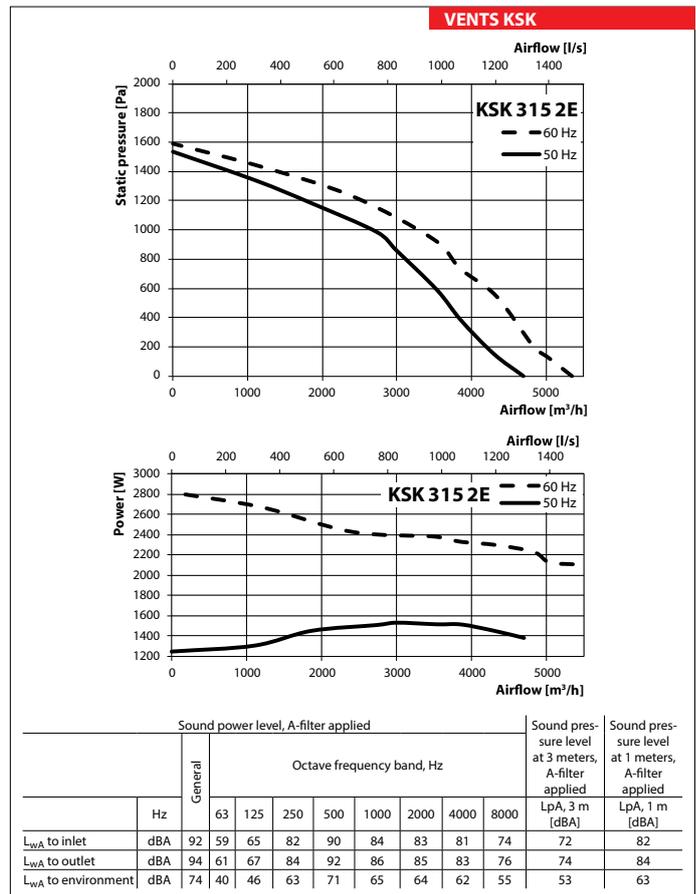
	Hz	General	Octave frequency band, Hz								Sound pressure level at 3 meters, A-filter applied LpA, 3 m [dBA]	Sound pressure level at 1 meters, A-filter applied LpA, 1 m [dBA]
			63	125	250	500	1000	2000	4000	8000		
L _{WA} to inlet	dBA	85	66	69	83	78	79	78	73	64	65	75
L _{WA} to outlet	dBA	87	66	71	84	79	81	79	74	66	67	77
L _{WA} to environment	dBA	67	45	49	63	58	59	58	53	44	46	56

	KSK 315 4D	
Voltage [V/Hz]	400/50	400/60
Power [W]	184	206
Current [A]	0.70	0.70
Maximum air flow [m³/h]	2040	2355
RPM [min⁻¹]	1488	1776
Noise level at 3 m [dBA]	46	48
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	



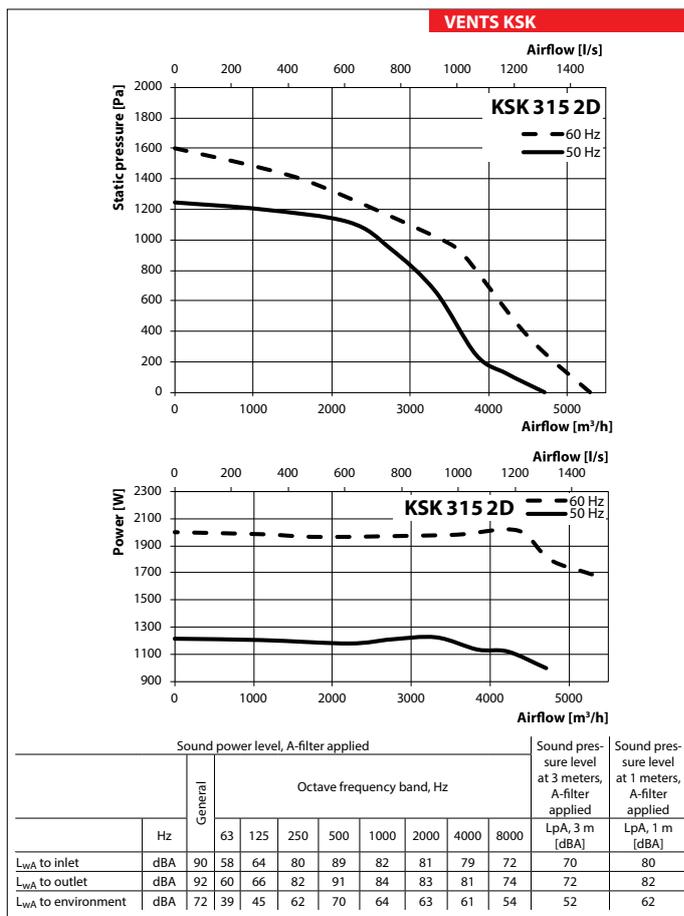
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	KSK 315 2E	
Voltage [V/Hz]	230/50	230/60
Power [W]	1531	2816
Current [A]	7.35	11.92
Maximum air flow [m³/h]	4695	5345
RPM [min⁻¹]	3125	3384
Noise level at 3 m [dBA]	53	55
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

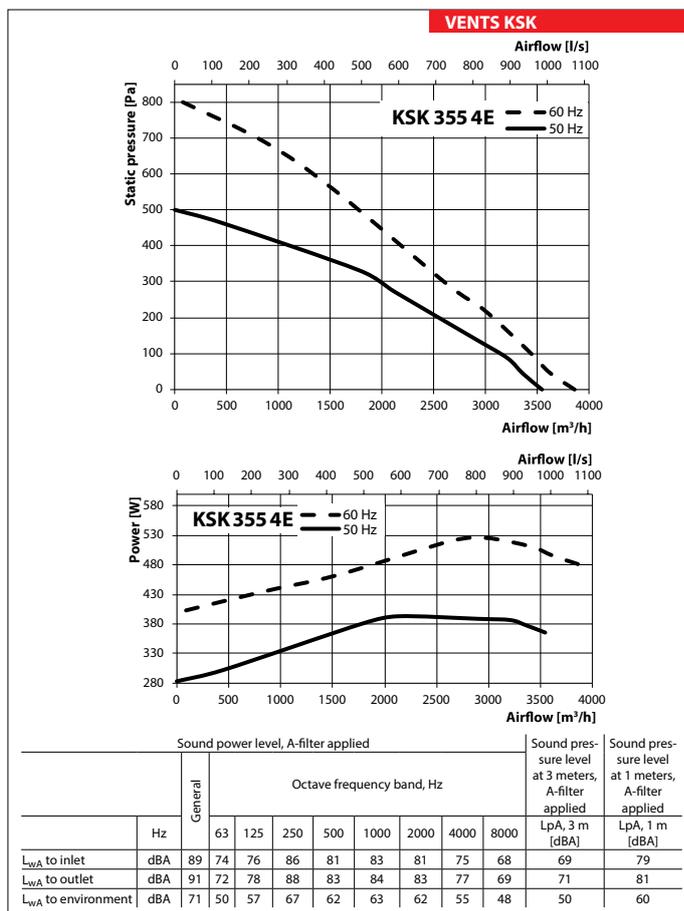


SOUND-INSULATED KITCHEN FAN

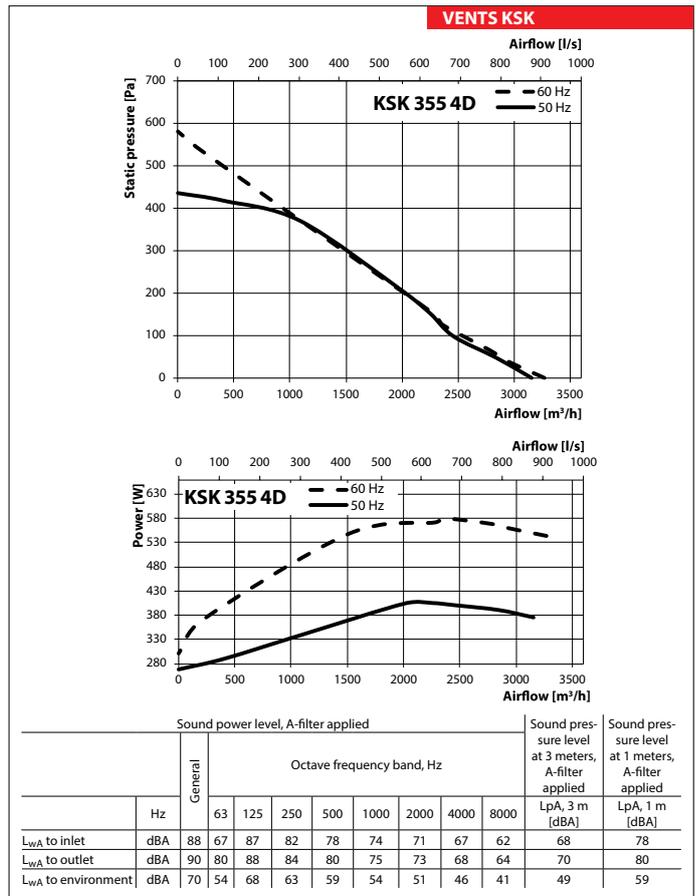
	KSK 315 2D	
Voltage [V/Hz]	400/50	400/60
Power [W]	1225	2011
Current [A]	2.80	3.40
Maximum air flow [m ³ /h]	4710	5290
RPM [min ⁻¹]	3025	3328
Noise level at 3 m [dBA]	52	54
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	



	KSK 355 4E	
Voltage [V/Hz]	230/50	230/60
Power [W]	393	525
Current [A]	2.11	2.34
Maximum air flow [m ³ /h]	3545	3860
RPM [min ⁻¹]	1517	1705
Noise level at 3 m [dBA]	50	52
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

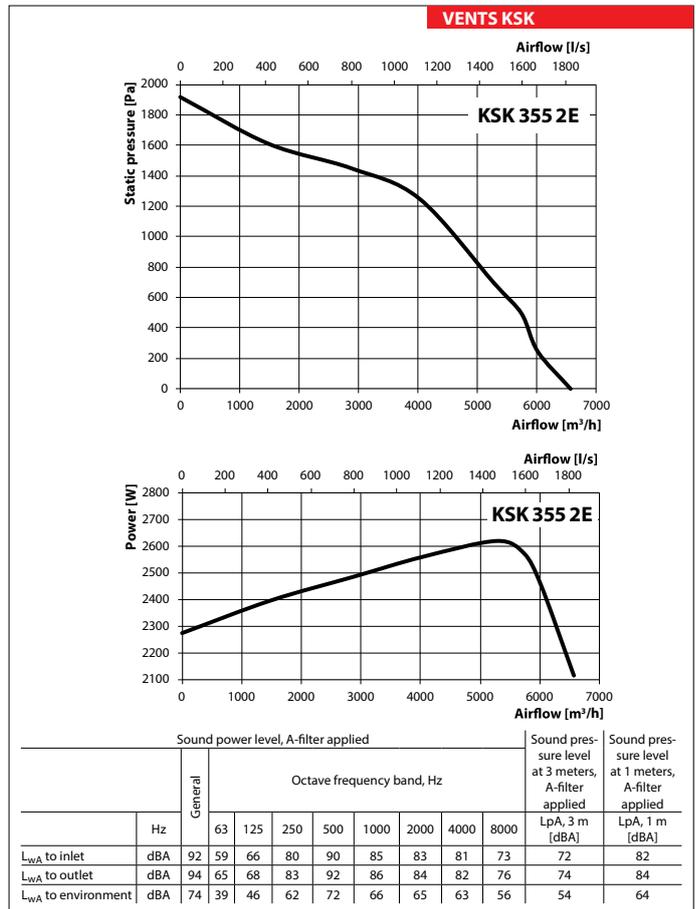


	KSK 355 4D	
Voltage [V/Hz]	400/50	400/60
Power [W]	405	580
Current [A]	0.87	1.25
Maximum air flow [m³/h]	3155	3270
RPM [min ⁻¹]	1379	1578
Noise level at 3 m [dBA]	49	50
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	



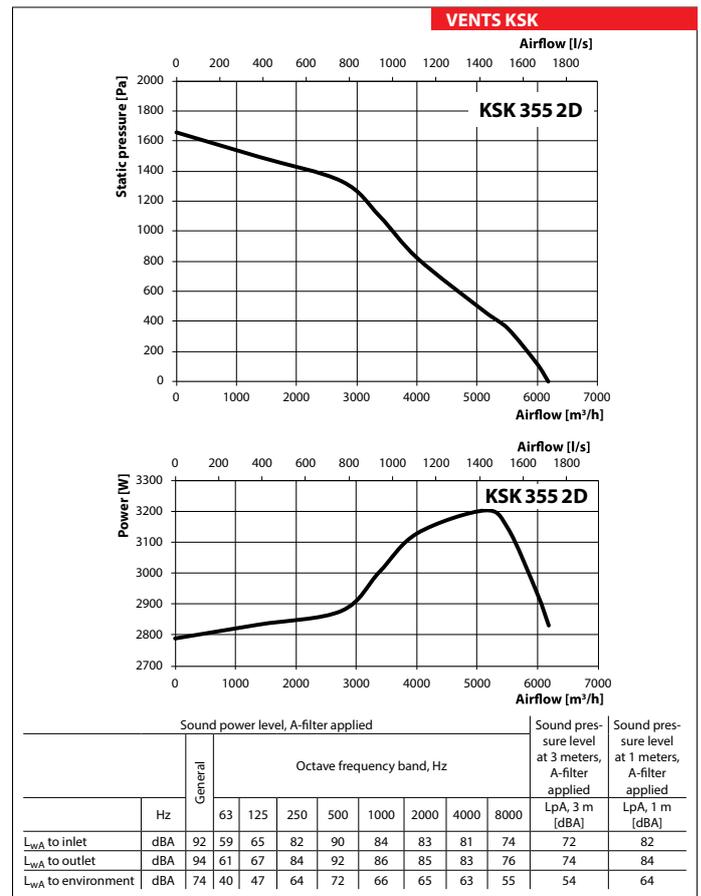
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	KSK 355 2E	
Voltage [V/Hz]	230/50	
Power [W]	2621	
Current [A]	12.66	
Maximum air flow [m³/h]	6570	
RPM [min ⁻¹]	2890	
Noise level at 3 m [dBA]	54	
Maximum operating temperature [°C]	-20...+120	
Protection rating	IP54	

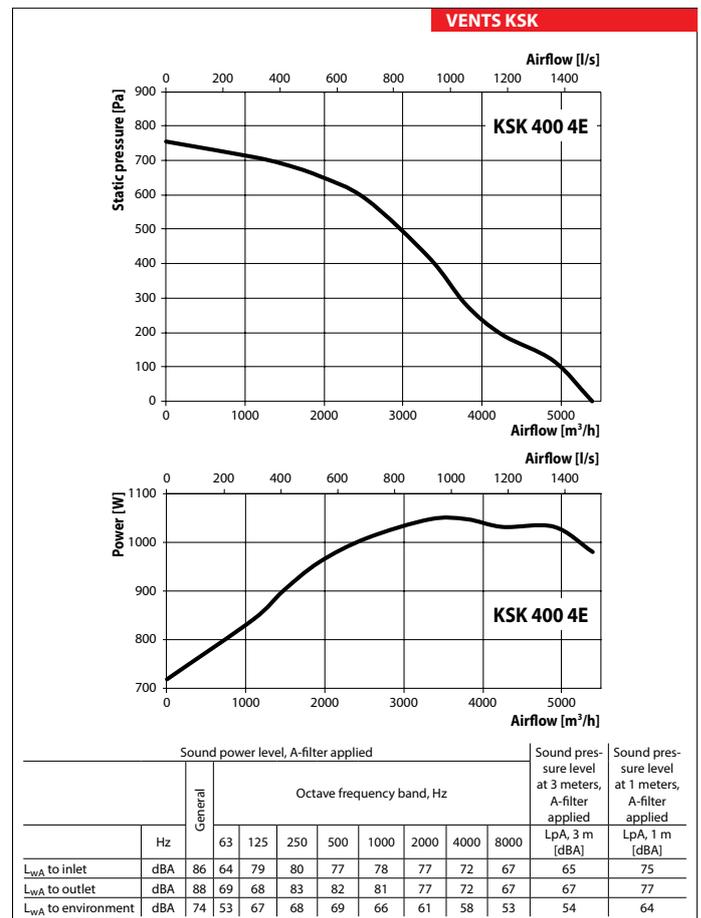


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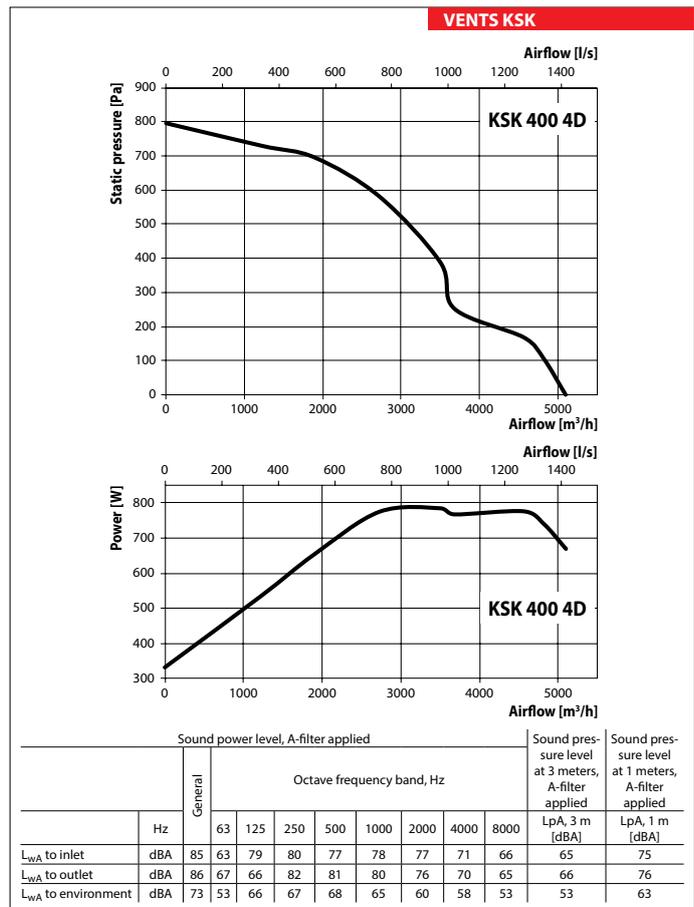
	KSK 355 2D
Voltage [V/Hz]	400/50
Power [W]	3145
Current [A]	6.12
Maximum air flow [m³/h]	6185
RPM [min ⁻¹]	2652
Noise level at 3 m [dBA]	54
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54



	KSK 400 4E
Voltage [V/Hz]	230/50
Power [W]	1048
Current [A]	5,00
Maximum air flow [m³/h]	5392
RPM [min ⁻¹]	1440
Noise level at 3 m [dBA]	54
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54

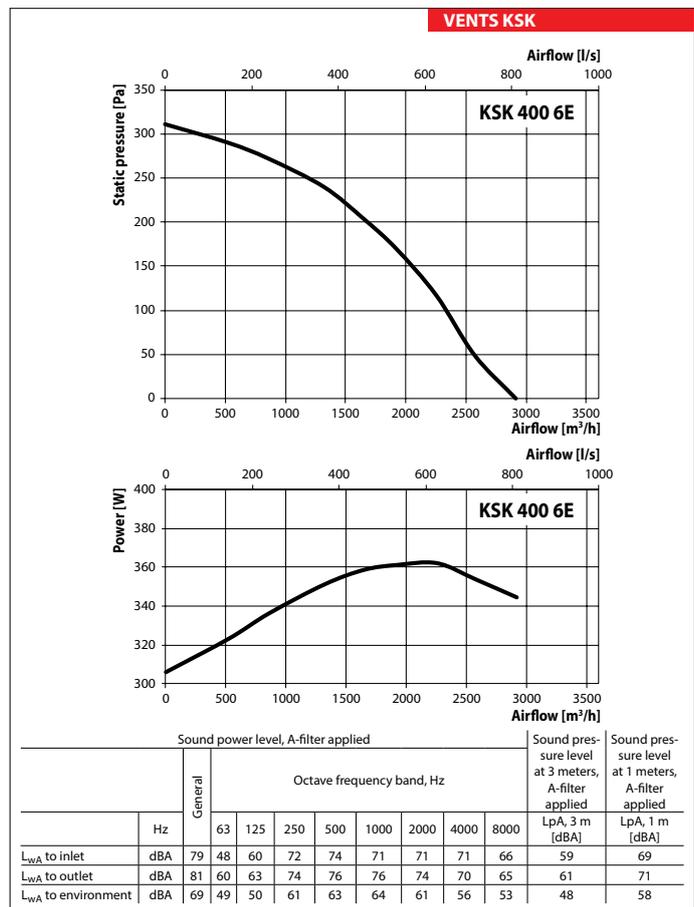


	KSK 400 4D
Voltage [V/Hz]	400/50
Power [W]	785
Current [A]	2.25
Maximum air flow [m ³ /h]	5098
RPM [min ⁻¹]	1470
Noise level at 3 m [dBA]	53
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54



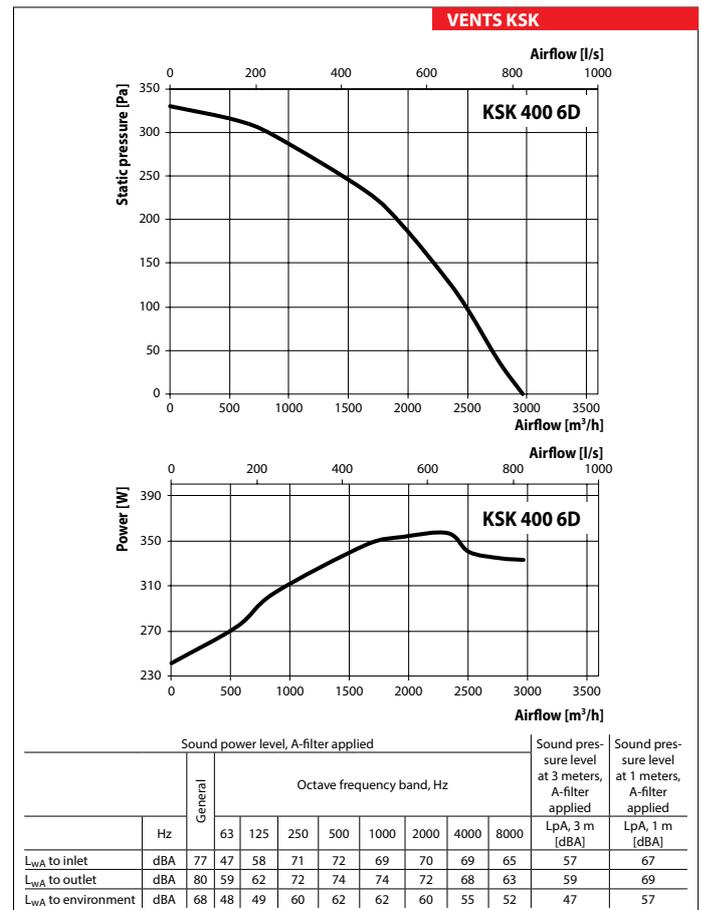
FAN SERIES VENTS KSK

	KSK 400 6E
Voltage [V/Hz]	230/50
Power [W]	362
Current [A]	1.71
Maximum air flow [m ³ /h]	2915
RPM [min ⁻¹]	930
Noise level at 3 m [dBA]	48
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54

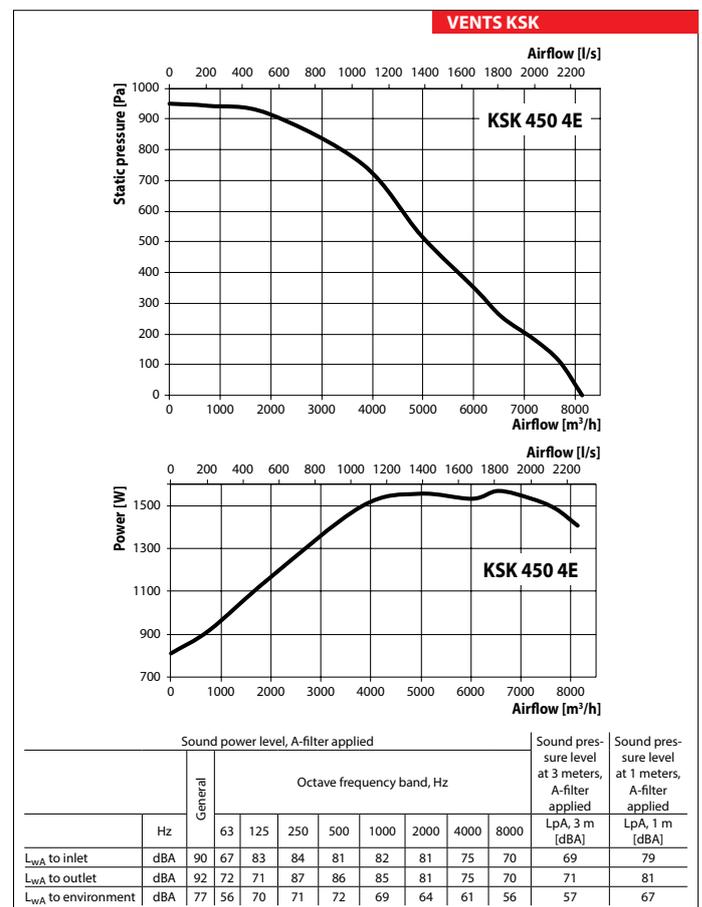


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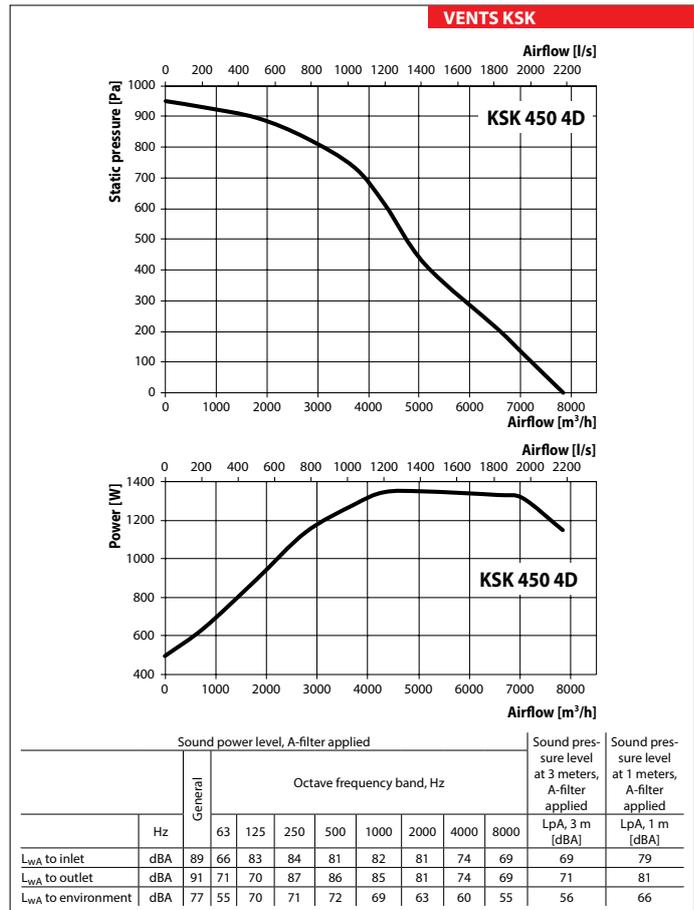
	KSK 400 6D
Voltage [V/Hz]	400/50
Power [W]	357
Current [A]	0.92
Maximum air flow [m ³ /h]	2966
RPM [min ⁻¹]	948
Noise level at 3 m [dBA]	47
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54



	KSK 450 4E
Voltage [V/Hz]	230/50
Power [W]	1570
Current [A]	7.25
Maximum air flow [m ³ /h]	8138
RPM [min ⁻¹]	1470
Noise level at 3 m [dBA]	57
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54

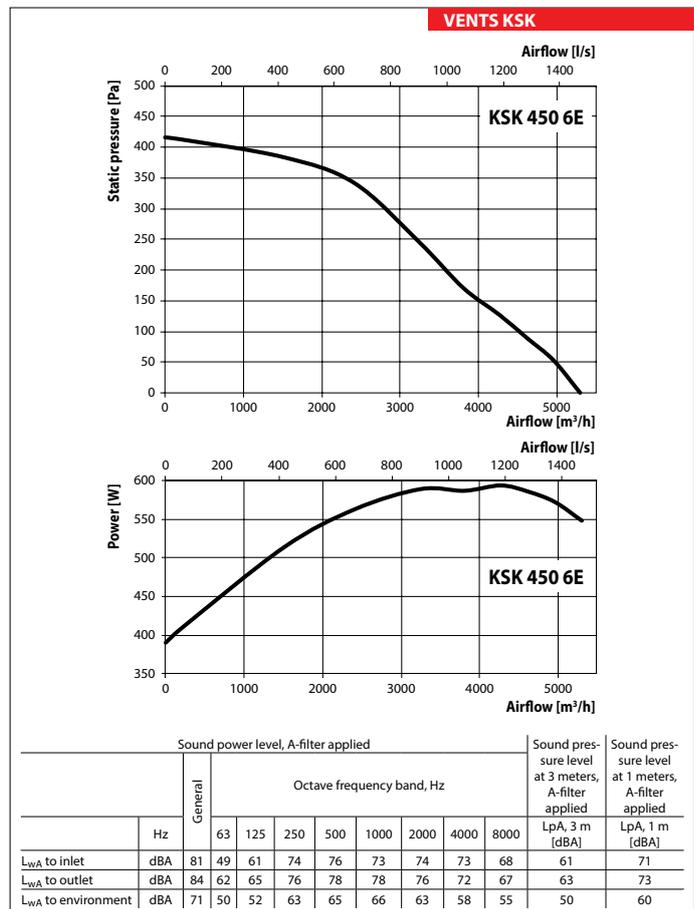


	KSK 450 4D
Voltage [V/Hz]	400/50
Power [W]	1350
Current [A]	2.81
Maximum air flow [m³/h]	7840
RPM [min ⁻¹]	1450
Noise level at 3 m [dBA]	56
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54



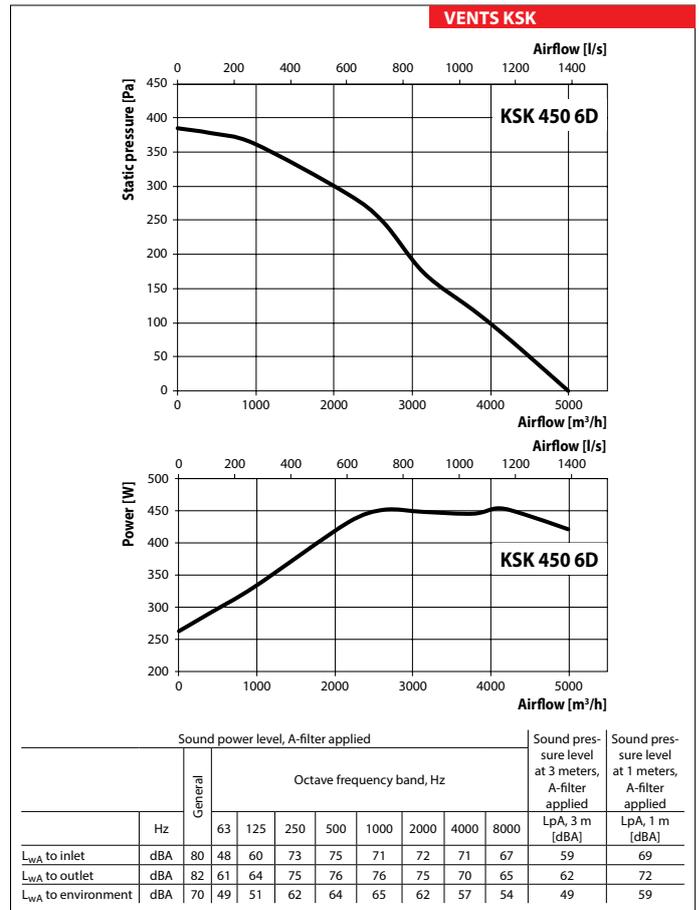
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	KSK 450 6E
Voltage [V/Hz]	230/50
Power [W]	594
Current [A]	2.85
Maximum air flow [m³/h]	5299
RPM [min ⁻¹]	970
Noise level at 3 m [dBA]	50
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54



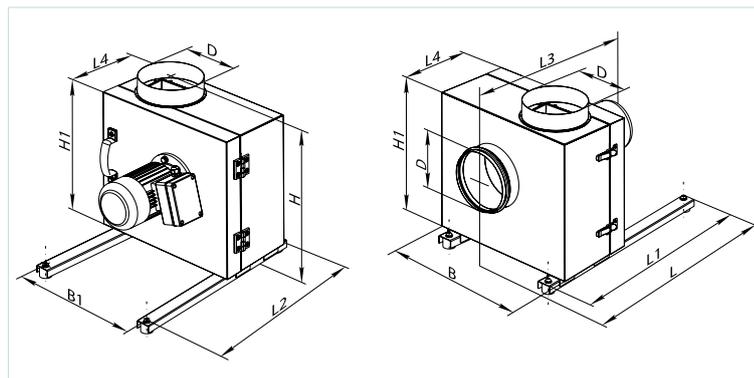
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	KSK 450 6D
Voltage [V/Hz]	400/50
Power [W]	454
Current [A]	1.33
Maximum air flow [m³/h]	4991
RPM [min⁻¹]	920
Noise level at 3 m [dBA]	49
Maximum operating temperature [°C]	-20...+120
Protection rating	IP54



Fan overall dimensions

Type	Dimensions [mm]										Mass [kg]
	∅D	B	B1	H	H1	L	L1	L2	L3	L4	
KSK 150 4E	150	410	330	540	365	525	500	470	475	205	17
KSK 150 4D	150	410	330	540	365	525	500	470	475	205	17
KSK 160 4E	160	410	330	540	365	525	500	470	475	205	17
KSK 160 4D	160	410	330	540	365	525	500	470	475	205	17
KSK 200 4E	200	485	365	600	425	625	600	570	515	235	25
KSK 200 4D	200	485	365	600	425	625	600	570	515	235	25
KSK 250 4E	250	575	435	665	505	700	675	645	620	285	40
KSK 250 4D	250	575	435	665	505	700	675	645	620	285	40
KSK 315 4E	315	690	550	708	600	715	700	650	612	327	53
KSK 315 4D	315	690	550	708	600	715	700	650	612	327	52
KSK 315 2E	315	690	550	708	600	715	700	650	672	327	61
KSK 315 2D	315	690	550	708	600	715	700	650	672	327	60
KSK 355 4E	355	740	600	764	655	727	700	650	637	352	60
KSK 355 4D	355	740	600	764	655	727	700	650	637	352	59
KSK 355 2E	355	740	600	764	655	727	700	650	737	352	68
KSK 355 2D	355	740	600	764	655	727	700	650	737	352	65
KSK 400 4E	400	906	700	900	790	908	900	850	747	402	92
KSK 400 4D	400	906	700	900	790	908	900	850	747	402	92
KSK 400 6E	400	906	700	900	790	908	900	850	687	402	87
KSK 400 6D	400	906	700	900	790	908	900	850	687	402	87
KSK 450 4E	450	996	750	980	870	925	900	850	782	437	109
KSK 450 4D	450	996	750	980	870	925	900	850	782	437	109
KSK 450 6E	450	996	750	980	870	925	900	850	739	437	105
KSK 450 6D	450	996	750	980	870	925	900	850	739	437	105



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