

SOUND-INSULATED KITCHEN FAN

Series
VENTS KSK



Centrifugal kitchen fan in sound-insulated casing with the air capacity up to **3500 m³/h**

Application

The fan is designed for extract of contaminated hot air up to 110 °C (120°C within 60 min.) 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

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.

Motor

The fan is fitted with a reliable maintenance-free single or three phase motor with short circuit rotor and a high-efficient steel centrifugal impeller with forward curved blades. The motor is equipped with integrated thermal contacts with leaded outside

terminals for connection to an external protection device. The impeller is mounted on the motor shaft and is balanced statically and dynamically. The motor has F class motor winding insulation and IP 54 ingress protection rating.

Speed control

The fan has both step and smooth speed control options with a transformer or frequency speed controller. Several fans may be connected to one controller if the total power and operating current do not exceed the rated controller parameters.

Mounting

The fan is designed for connection to round air ducts. The fan is fixed to 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 long enough to enable motor-impeller block opening and closing.



Designation key:

Series	Spigot diameter	Motor modification	
		Number of poles	Phase
VENTS KSK	150;160;200;250	4	E – single phase D – three phase

Accessories



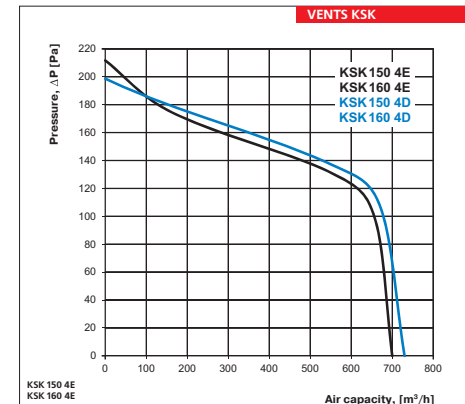
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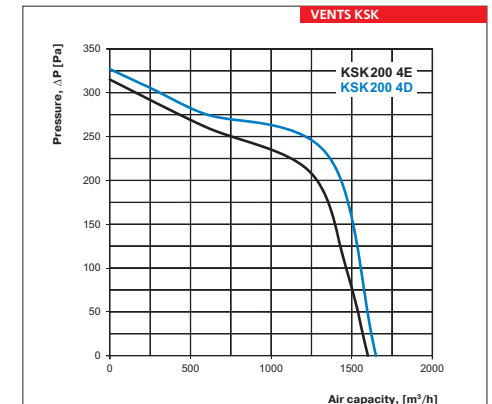
Fixing bracket KM-KSK Sleeve N-KSK Flexible connector VVG-KSK

Technical data:

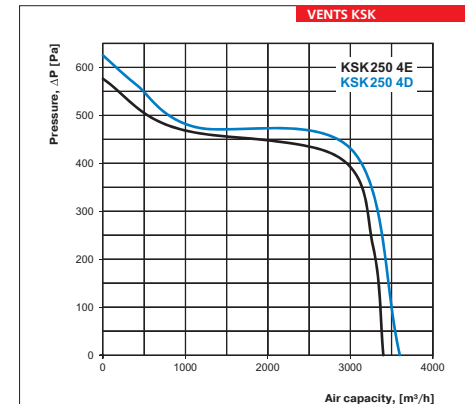
	KSK 150 4E KSK 160 4E	KSK 150 4D KSK 160 4D	KSK 200 4E	KSK 200 4D	KSK 250 4E	KSK 250 4D
Voltage [V / 50 Hz]	1~ 230	3~ 380	1~ 230	3~ 380	1~ 230	3~ 380
Power [W]	180	180	550	750	1500	1500
Current [A]	1.7	0.6	3	2	11	3.4
Max. air capacity [m ³ /h]	700	730	1600	1650	3400	3500
RPM [min ⁻¹]	1450	1455	1475	1465	1500	1470
Noise level at 3 m [dBA]	41	41	45	45	51	51
Transported air temperature [°C]	-20...+110 (120 within 60 min.)					
Protection rating	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



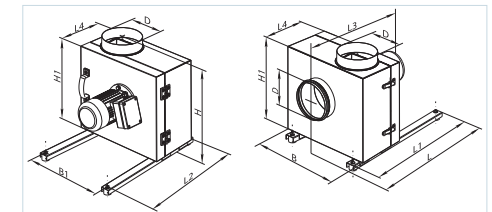
Sound-power level	Hz	Gen	Octave-frequency band [Hz]							
			63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	76	68	70	72	62	59	63	57	61
L _{WA} to outlet	dBA	77	73	77	79	70	66	67	60	53
L _{WA} to environment	dBA	67	51	56	57	50	49	48	40	33



Sound-power level	Hz	Gen	Octave-frequency band [Hz]							
			63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	79	71	75	75	66	62	65	58	64
L _{WA} to outlet	dBA	82	78	78	81	74	68	69	64	56
L _{WA} to environment	dBA	59	53	60	58	54	50	51	42	36



Sound-power level	Hz	Gen	Octave-frequency band [Hz]							
			63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dBA	82	75	79	80	71	65	68	63	65
L _{WA} to outlet	dBA	85	79	80	82	79	71	70	65	61
L _{WA} to environment	dBA	63	55	63	61	57	53	53	45	41



Fan overall dimensions:

Type	Dimensions [mm]										Weight [kg]
	ØD	B	B1	H	H1	L	L1	L2	L3	L4	
KSK 150 4E	150	410	330	540	365	525	500	470	475	205	17.0
KSK 150 4D	150	410	330	540	365	525	500	470	475	205	17.0
KSK 160 4E	160	410	330	540	365	525	500	470	475	205	17.0
KSK 160 4D	160	410	330	540	365	525	500	470	475	205	17.0
KSK 200 4E	200	485	365	600	425	625	600	570	515	235	25.0
KSK 200 4D	200	485	365	600	425	625	600	570	515	235	25.0
KSK 250 4E	250	575	435	665	505	700	675	645	620	285	40.0
KSK 250 4D	250	575	435	665	505	700	675	645	620	285	40.0