

Series
VENTS KSV ES
VENTS KSV Duo ES



Centrifugal fans in sound-insulated casing with the air flow up to **640 m³/h**

■ **Application**

The KSV ES ventilation units are designed for integration into supply ventilation systems requiring high cleaning of intake air and low-noise operation.

The fans are compatible with round air ducts Ø 100, 150 and 200 mm.

■ **Design**

Corrosion resistant casing made of polymer coated steel, internally lined with sound-insulating layer.

The pre-filter and the electrostatic filter are installed at the unit inlet.

Power is supplied through the airtight terminal box inside of the casing.

The ventilation unit design provides convenient maintenance access to the internal parts.

■ **Motor**

The single-speed models are equipped with a four-pole asynchronous electric external rotor motors and centrifugal impellers with backward curved blades. The impellers are dynamically balanced. The motors are compatible with mains frequency 60 Hz.

The double-speed models (Duo) are equipped with asynchronous electric external rotor motors and centrifugal impellers with forward curved blades. The impellers are dynamically balanced. Double-speed control. The ball bearings enable a long operating life.

The motors are equipped with an integrated overheating protection with automatic restart.

■ **Speed control**

Single-speed models: smooth speed control with the external speed controller RS-1-400 (specially ordered accessory).

Two-speed models: smooth speed control with the external speed switch P2-10 (specially ordered accessory).

■ **Mounting**

The compact design offers the ideal mounting solutions for limited mounting space, including suspended ceiling mounting. Wall or ceiling mounting is performed by means of the supplied mounting brackets. The unit is designed for strict horizontal installation. A service access must be provided.

■ **Air filtration**

The service panel in the casing enables quick access to the filters.

Pre-filtering with a G4 filter.

Fine filtration with an electrostatic filter.

■ **Electrostatic filter**

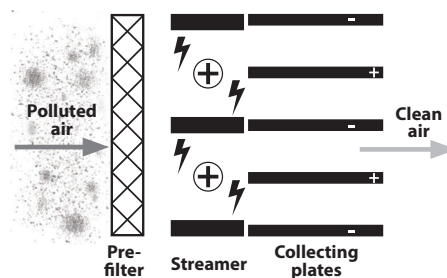
Electrostatic filter enables purification of air from fine dust and soot, spray, smoke and other particles with the size of 0.01 microns and less.

Max. filter cleaning efficiency 98 %.

The electrostatic filters rely on gravity of oppositely charged particles.

The polluted air stream flows through the spray charging unit for the particle ionization.

As a result of the adsorption of the ions on the particle surface the ionized particles are moved by the airstream and accumulated on the collecting plates, which are oppositely charged.



The filter cleaning interval depends on the inlet air pollution density and may vary from 7 up to 21 days.

The filter cleaning interval is determined according to the results of the visual inspection of the filters.

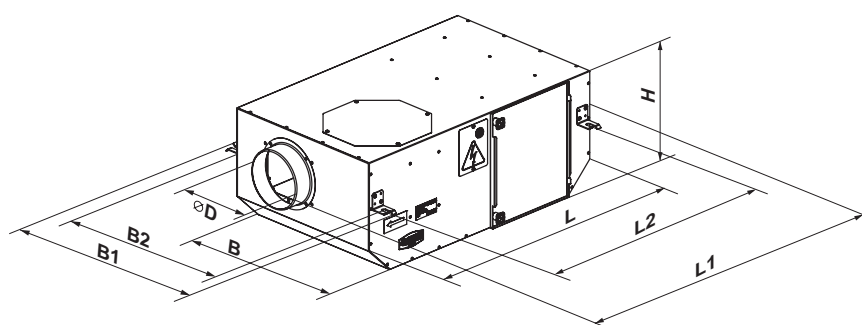
Vacuum cleaning is allowed.

Designation key

Series	Spigot diameter [mm]	Motor modification	Filters	Options
VENTS KSV	100; 150; 200	Duo: double-speed motor Q: low noise and low-powered motor	ES: electrostatic filter	R1: 0.4 m long power cable with a standard electric plug

Overall dimensions

Model	Dimensions [mm]								Mass [kg]
	∅D	L	H	B	L1	B1	L2	B2	
VENTS KSV 100 ES VENTS KSV 100 Duo ES	100	755	250	458	855	551	700	502	16.5
VENTS KSV 150 Q ES VENTS KSV 150 Duo Q ES	150	755	250	458	855	551	700	502	16.5
VENTS KSV 150 ES VENTS KSV 150 Duo ES	150	785	300	458	885	551	730	502	18.5
VENTS KSV 200 ES VENTS KSV 200 Duo ES	200	785	300	658	885	751	730	702	20.5



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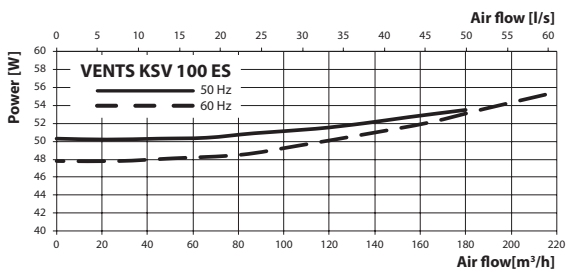
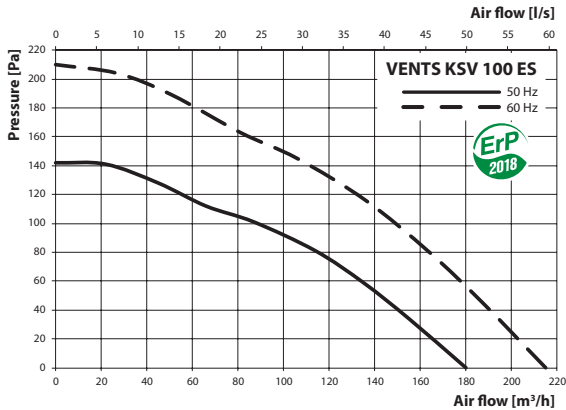
Accessories

Model	Replaceable G4 panel filter	Speed controller
VENTS KSV 100 ES VENTS KSV 150 Q ES	SF 220x400x47-G4	PS-1-400
VENTS KSV 150 ES VENTS KSV 200 ES	SF 270x425x47-G4 SF 270x590x47-G4	
VENTS KSV 100 Duo ES VENTS KSV 150 DUO Q ES	SF 220x400x47-G4	P2-10
VENTS KSV 150 Duo ES VENTS KSV 200 Duo ES	SF 270x425x47-G4 SF 270x590x47-G4	

Technical data

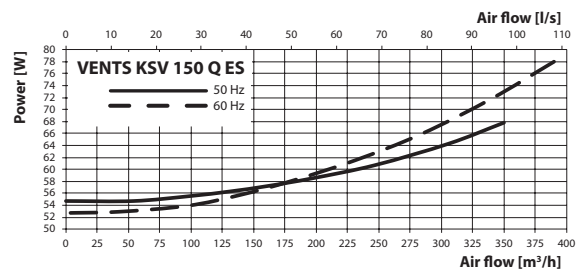
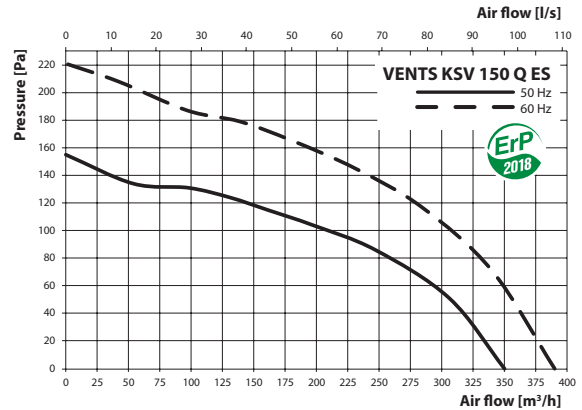
	VENTS KSV 100 ES		VENTS KSV 150 Q ES		VENTS KSV 150 ES		VENTS KSV 200 ES	
Voltage [V]	230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	53	55	68	78	112	131	135	157
Current [A]	0.27	0.24	0.3	0.34	0.51	0.57	0.59	0.68
Air flow [m³/h]	180	215	350	390	460	530	640	645
RPM [min ⁻¹]	1300	1480	1300	1475	1250	1430	1250	1315
Noise level at 3 m [dBA]	23	24	25	26	25	27	34	35
Transported air temperature [°C]	-25...+40		-25...+40		-25...+40		-25...+40	
Protection rating	IPX4		IPX4		IPX4		IPX4	
PM 2.5 Filtration efficiency [%]	97.1		97		95.6		97.4	
SEC class	D		C		C		C	

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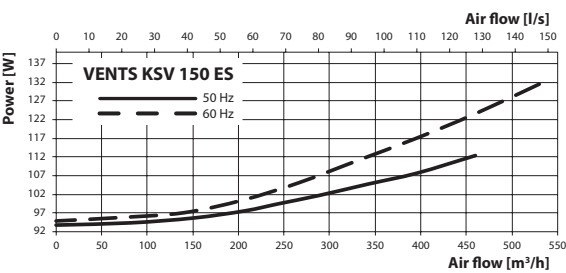
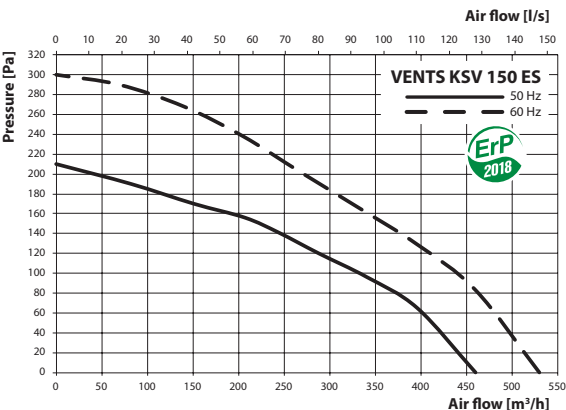
Sound power level, A-filter applied	Hz	Octave-frequency band [Hz]								LpA, 3m [dBA]	LpA, 1m [dBA]	
		Gen	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	48	32	34	40	42	43	40	34	26	27	37
L _{WA} to outlet	dBA	51	27	42	47	45	44	32	24	13	30	40
L _{WA} to environment	dBA	43	31	34	35	38	36	34	31	26	23	33

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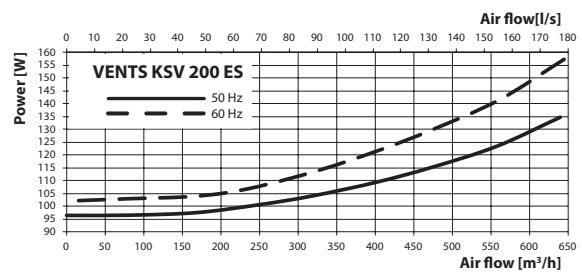
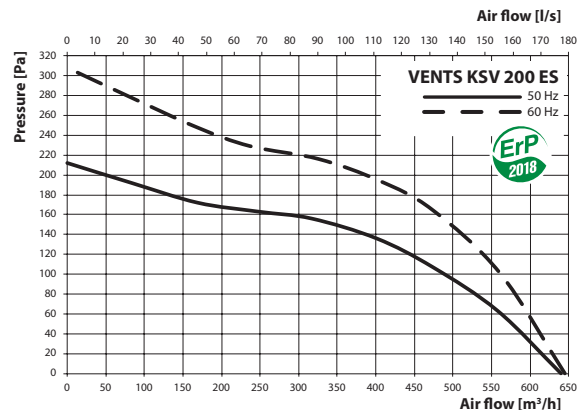
Sound power level, A-filter applied	Hz	Octave-frequency band [Hz]								LpA, 3m [dBA]	LpA, 1m [dBA]	
		Gen	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	53	28	44	49	47	46	34	25	14	33	43
L _{WA} to outlet	dBA	56	39	41	48	51	52	48	41	32	36	46
L _{WA} to environment	dBA	45	26	35	41	39	37	34	30	23	25	35

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Sound power level, A-filter applied	Hz	Octave-frequency band [Hz]								LpA, 3m [dBA]	LpA, 1m [dBA]	
		Gen	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	53	39	40	47	50	41	40	38	27	33	43
L _{WA} to outlet	dBA	58	42	39	47	54	50	51	45	35	37	47
L _{WA} to environment	dBA	48	38	40	41	44	36	29	28	24	27	37

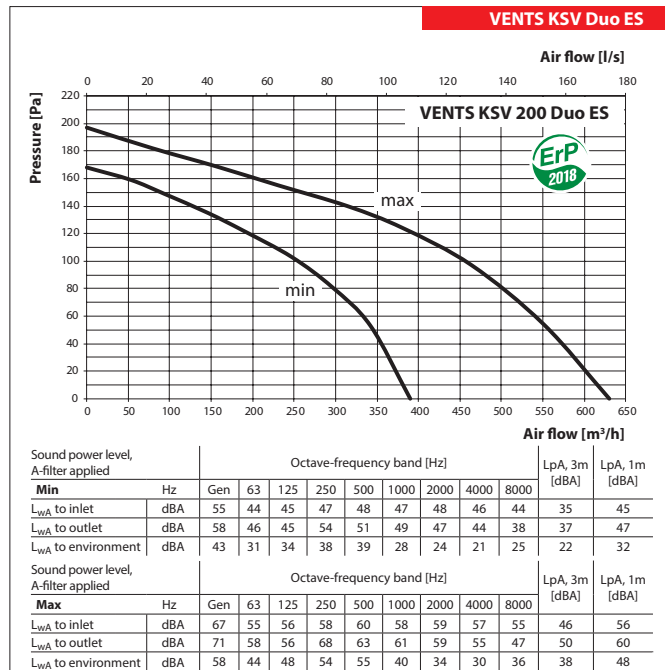
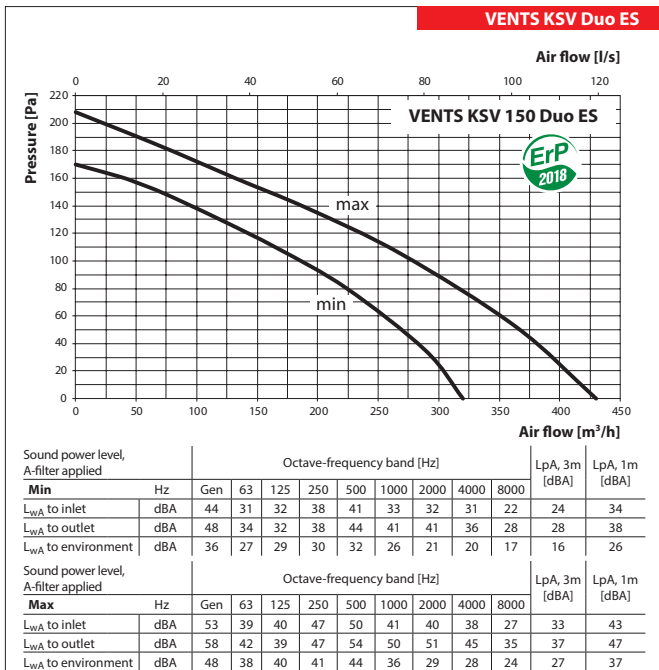
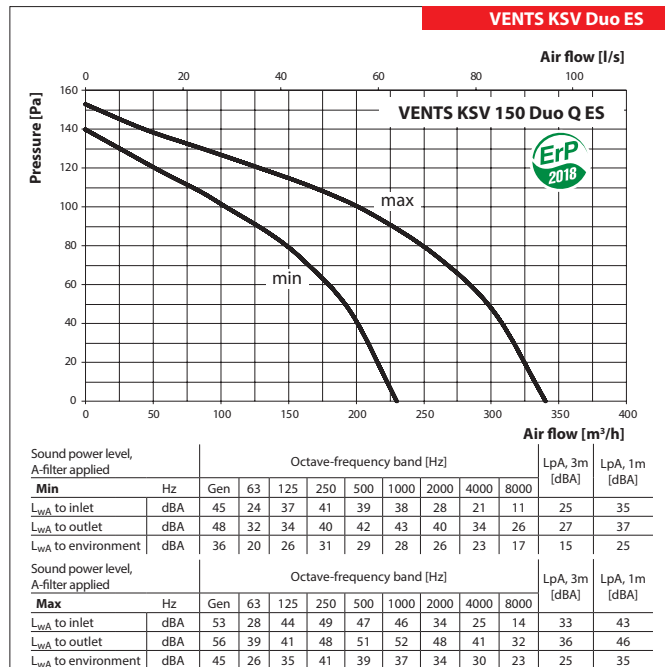
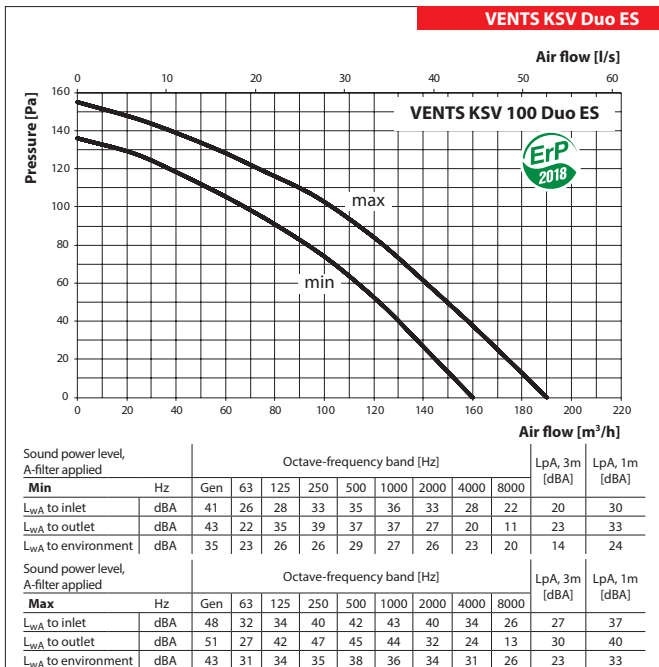
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Sound power level, A-filter applied	Hz	Octave-frequency band [Hz]								LpA, 3m [dBA]	LpA, 1m [dBA]	
		Gen	63	125	250	500	1000	2000	4000			8000
L _{WA} to inlet	dBA	67	55	56	58	60	58	59	57	55	46	56
L _{WA} to outlet	dBA	71	58	56	68	63	61	59	55	47	50	60
L _{WA} to environment	dBA	58	44	48	54	55	40	34	30	36	38	48

Technical data

	VENTS KSV 100 Duo ES		VENTS KSV 150 Duo Q ES		VENTS KSV 150 Duo ES		VENTS KSV 200 Duo ES	
Speed	min	max	min	max	min	max	min	max
Voltage [V]	230/50		230/50		230/50		230/50	
Power [W]	34	42	44	52	92	117	106	123
Current [A]	0.15	0.19	0.19	0.23	0.41	0.55	0.47	0.59
Air flow [m³/h]	160	190	230	340	320	430	390	630
RPM [min ⁻¹]	700	1200	700	1200	700	1200	700	1200
Noise level at 3 m [dBA]	14	23	15	25	16	27	22	38
Transported air temperature [°C]	-25...+40		-25...+40		-25...+40		-25...+40	
Protection rating	IPX4		IPX4		IPX4		IPX4	
PM 2.5 Filtration efficiency [%]	98	97	98	97	97	96	98	97
SEC class	C		C		D		C	



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