Series
VENTS Boost 150-250 EC



Series
VENTS Boost 315-400 EC



Inline fans in a polymer casing with the air flow of up to **5700 m³/h**

Application
Inline fans for supply and extract ventilation of various commercial and industrial premises requiring powerful air flow. The fans are compatible with Ø 150, 200, 250, 315, 355 and 400 mm air ducts.

Design
The casing is made of polymer (for models 315, 355 and 400, the casing is additionally reinforced with a metal housing). Due to the conically-shaped polymer impeller with specially profiled blades the air stream circular velocity increases, which results in higher air flow and pressure as compared to characteristics of standard axial fans.
The specially designed diffuser, impeller and airflow rectifier at the fan outlet provide smooth air flow distribution and enable the best combination of high air flow, increased pressure and low noise. The fan casing is equipped with an airtight terminal box for connection to power mains.

Motor
The units are equipped with highly efficient electronically commutated DC motors.
These state-of-the-art motors are the most advanced solution in energy efficiency today. EC motors are characterised with high performance and optimum control across the entire speed range. In addition to that, the efficiency of the electronically commutated motor reaches very impressive levels of up to 90 %.

Speed control
The fan is controlled using a 0-10 V control signal. When the control signal value changes, the EC fan changes its rotation speed and provides air flow required for the ventilation system. Several fans can be integrated into a single computer-driven control system. Custom designed software provides high accuracy control of the fans integrated into a network. The computer display shows all the system parameters and the operation mode can be set individually for each fan in the network.

Mounting
The fans can be mounted at any place and at any angle within the ductwork system. Several fans can be installed in one system in parallel to attain higher air flow or in series to increase operating pressure in the system. The fan casing is equipped with fixing brackets for floor, wall or ceiling mounting.
The fans can be mounted using KM-Boost brackets of the appropriate size (purchased separately, available for 315, 355 and 400 models).

Designation key

Series	Air ducts diameter	Motor type	Options
VENTS BOOST EC	150; 200; 250; 315; 355; 400	**EC**: synchronous electronically commutated motor	**Un:** speed controller with an electronic thermostatand a temperature sensor fixed on a 4-meter cable. Temperature-based operation logic. **R:** power cord with a mains plug. **P:** integrated smooth speed controller.

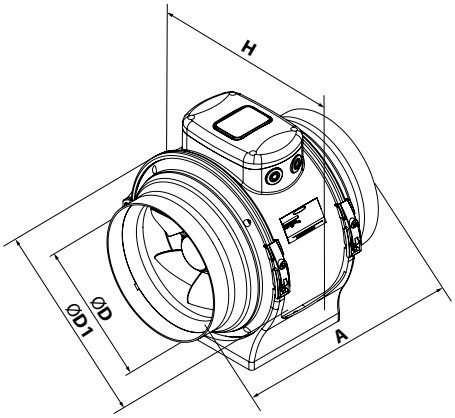
Accessories



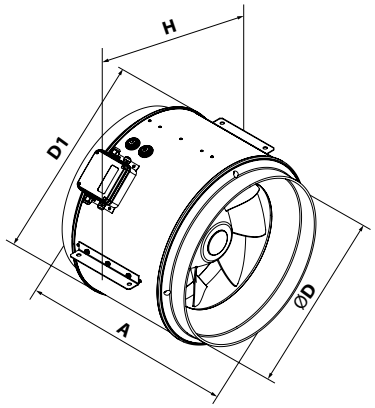
Silencer | Filters | Heaters | Backdraft damper | Air shutter | Clamps | Speed controller R-1/010

Overall dimensions

Model	Dimensions [mm]			
	A	Ø D	D1	H
Boost 150 EC	301	149	247	267
Boost 200 EC	302	199	293	308
Boost 250 EC	293	249	327	342
Boost 315 EC S	388	313	390	450
Boost 355 EC Boost 355 EC S	388	350	390	450
Boost 400 EC	388	395	441	500



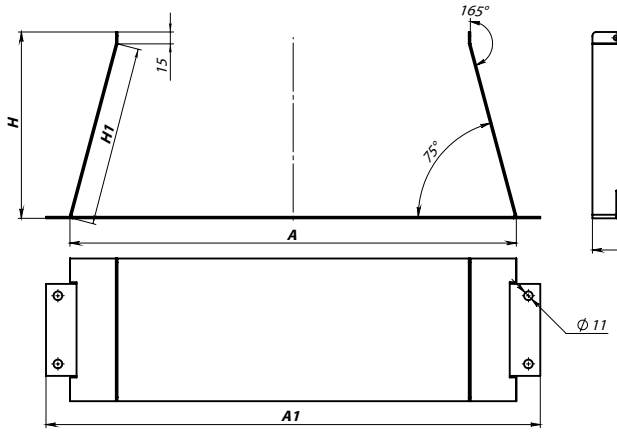
VENTS Boost 150-250 EC



VENTS Boost 315-400 EC

Overall dimensions of brackets

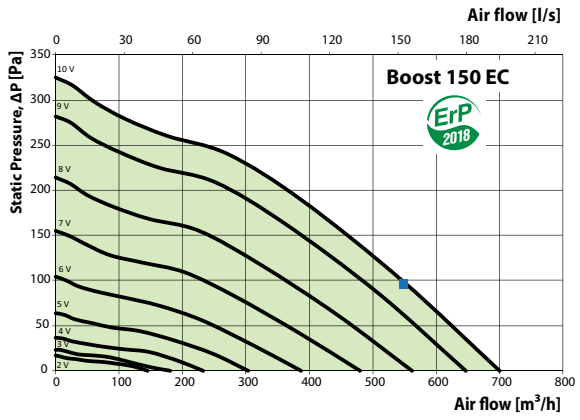
Model	Dimensions [mm]				
	A	A1	H	H1	B
KM-Boost 355	506	567	213	204	180
KM-Boost 400	563	624	235	228	180

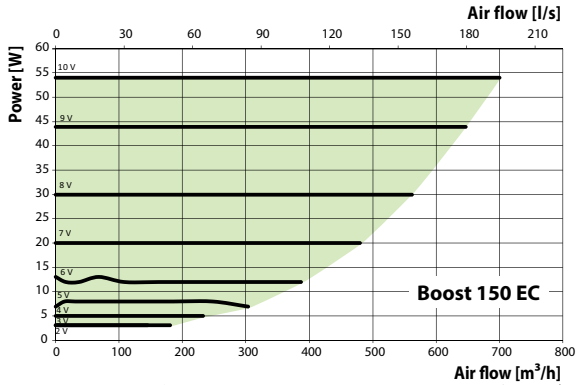


Technical data

	Boost 150 EC	Boost 200 EC
Voltage [V]	1~220-240	1~220-240
Frequency [Hz]	50/60	50/60
Power [W]	54	121
Current [A]	0.48	0.96
Maximum air flow [m³/h]	700	1250
Maximum air flow [l/s]	194	347
RPM [min⁻¹]	3700	3110
Sound pressure level at 3 m distance [dBA]	39	50
Maximum transported air temperature [°C]	-25...+55	-25...+55
Protection rating	IPX4	IPX4
Motor protection rating	IP44	IP44

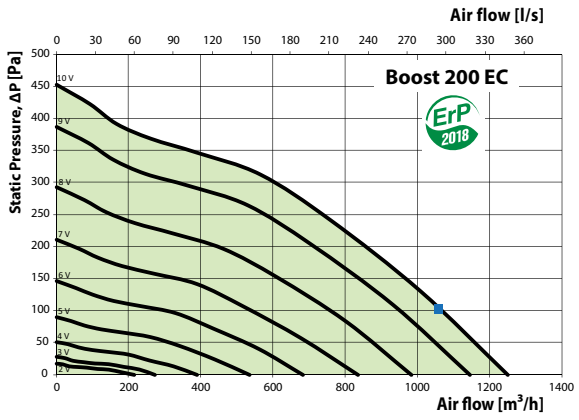
VENTS Boost

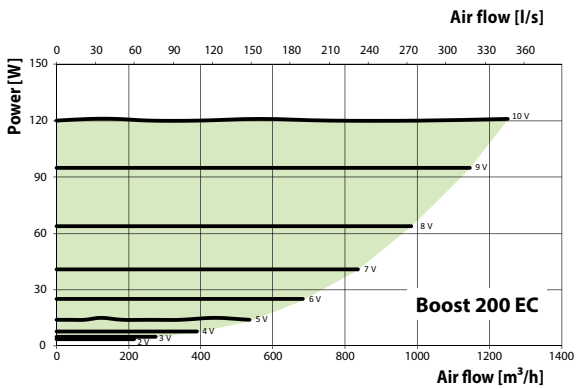




Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	70	45	65	68	55	46	43	47	38	49	59
L_{WA} to outlet	dBA	71	43	64	70	56	43	42	49	42	51	61
L_{WA} to environment	dBA	59	39	57	55	45	39	33	33	27	39	49

VENTS Boost



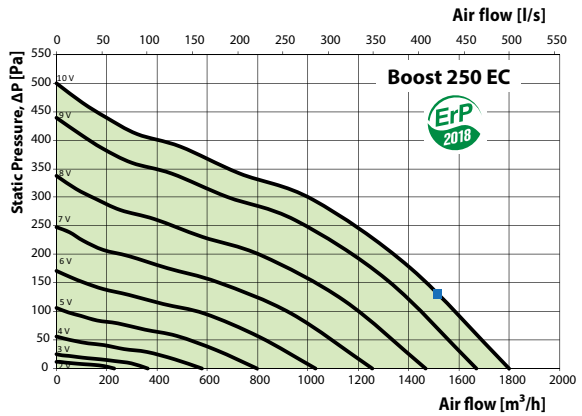


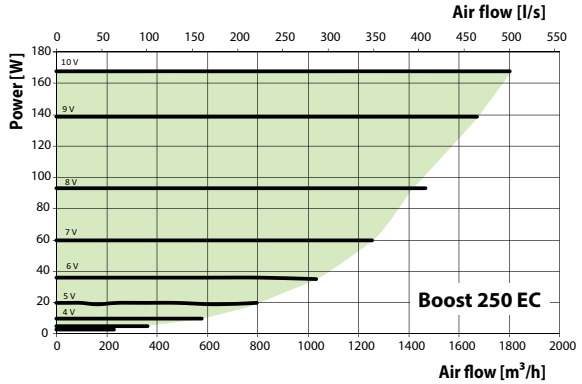
Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	78	53	62	70	73	72	70	64	53	57	67
L_{WA} to outlet	dBA	81	57	65	73	77	74	71	64	54	60	70
L_{WA} to environment	dBA	71	47	50	63	66	66	62	55	44	50	60

Technical data

	Boost 250 EC	Boost 315 EC S
Voltage [V]	1~220-240	1~220-240
Frequency [Hz]	50/60	50
Power [W]	168	353
Current [A]	1.34	1.56
Maximum air flow [m³/h]	1800	3250
Maximum air flow [l/s]	500	903
RPM [min⁻¹]	3282	2424
Sound pressure level at 3 m distance [dBA]	49	55
Maximum transported air temperature [°C]	-25...+55	-25...+55
Protection rating	IPX4	IPX4
Motor protection rating	IP44	IP44

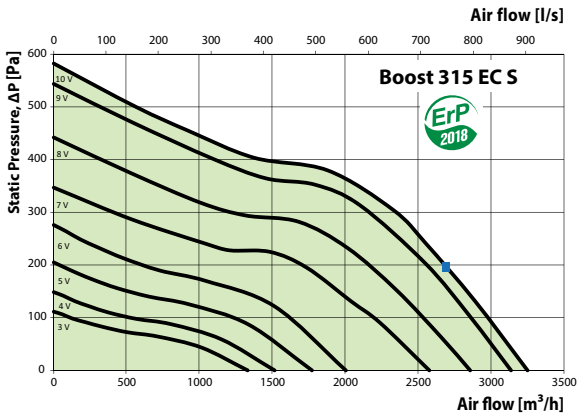
VENTS Boost

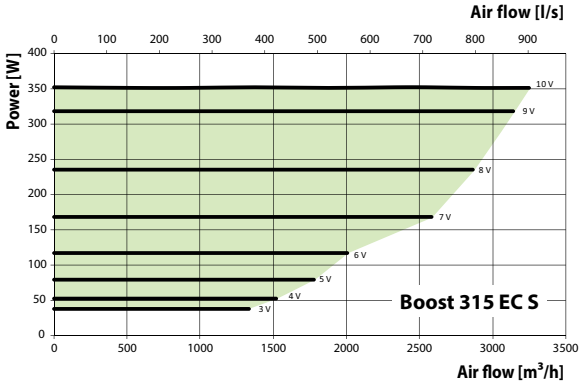




Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	77	73	74	69	64	55	49	49	43	57	67
L_{WA} to outlet	dBA	78	75	74	69	66	56	53	52	42	58	68
L_{WA} to environment	dBA	70	60	56	66	65	44	43	31	24	49	59

VENTS Boost



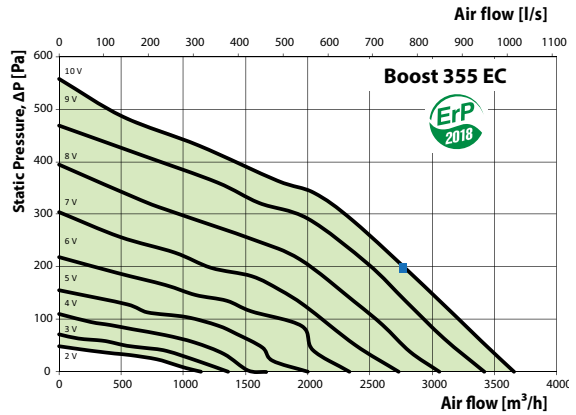


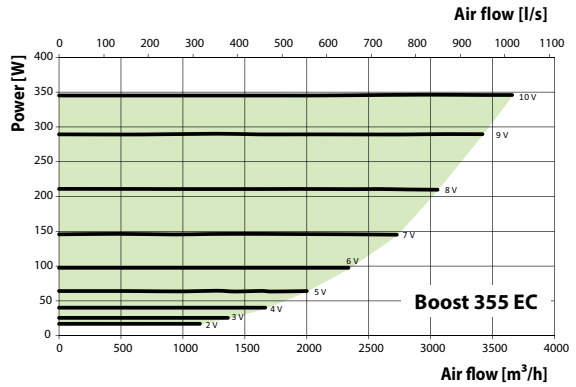
Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	83	73	76	75	75	78	74	69	61	63	73
L_{WA} to outlet	dBA	85	70	79	75	77	81	76	71	64	65	75
L_{WA} to environment	dBA	76	56	64	67	70	71	68	63	53	55	65

Technical data

	Boost 355 EC	Boost 355 EC S
Voltage [V]	1~230	1~230
Frequency [Hz]	50	50
Power [W]	353	701
Current [A]	1.56	3.10
Maximum air flow [m³/h]	3685	4630
Maximum air flow [l/s]	1024	1286
RPM [min⁻¹]	2470	3175
Sound pressure level at 3 m distance [dBA]	55	60
Maximum transported air temperature [°C]	-25...+55	-25...+55
Protection rating	IPX4	IPX4
Motor protection rating	IP44	IP44

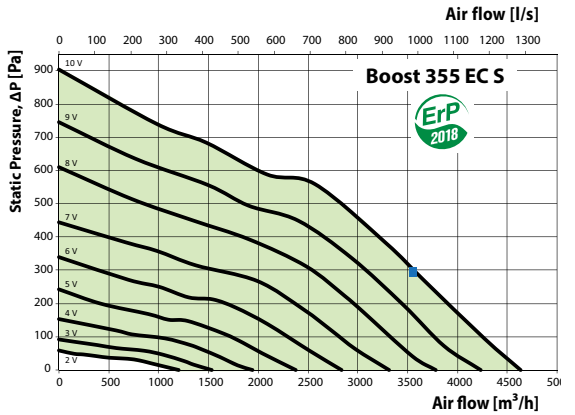
VENTS Boost

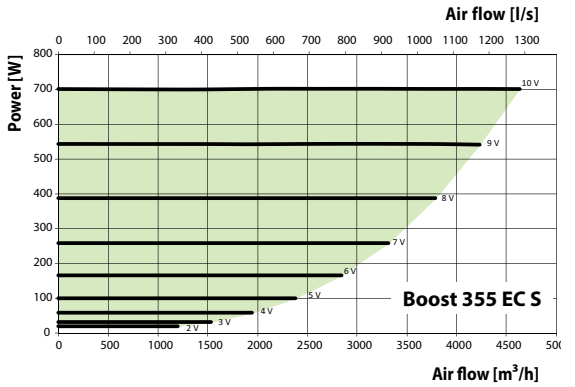




Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	83	73	76	75	75	78	74	69	61	63	73
L_{WA} to outlet	dBA	85	70	79	75	77	81	76	71	64	65	75
L_{WA} to environment	dBA	76	56	64	67	70	71	68	63	53	55	65

VENTS Boost



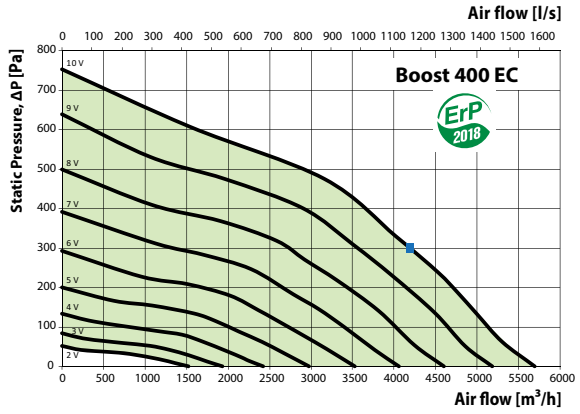


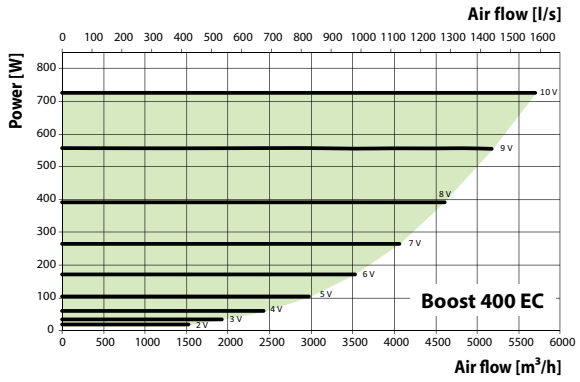
Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	88	74	82	79	79	83	80	75	66	68	78
L_{WA} to outlet	dBA	90	72	83	79	81	86	82	77	70	70	80
L_{WA} to environment	dBA	80	45	63	66	73	77	74	68	57	60	70

Technical data

	Boost 400 EC
Voltage [V]	1~230
Frequency [Hz]	50
Power [W]	726
Current [A]	4.8
Maximum air flow [m³/h]	5700
Maximum air flow [l/s]	1583
RPM [min⁻¹]	2580
Sound pressure level at 3 m distance [dBA]	60
Maximum transported air temperature [°C]	-25...+55
Protection rating	IPX4
Motor protection rating	IP44

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Sound-power level, A -filter		Octave-frequency band [Hz]									LpA, 3 m dBA	LpA, 1 m dBA
	Hz	Gen.	63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet	dBA	87	70	77	78	81	81	79	74	67	66	76
L_{WA} to outlet	dBA	88	62	76	78	83	84	80	75	66	68	78
L_{WA} to environment	dBA	80	59	66	69	74	77	72	67	58	60	70