

SOUND-INSULATED FANS

Series VENTS Boost-I EC



Mixed-type duct fans with EC motors
in casings with noise
and heat insulation.
Air flow up to **5415 m³/h**.

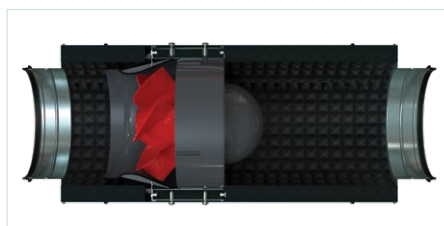
Application

The new VENTS Boost-I EC duct fan series is equipped with a special noise-insulated casing which ensures silent operation and excellent aerodynamic characteristics. The fans are compatible with round air ducts Ø 200, 250, 315, 355, 400 mm air ducts.

Design

The external casing is made of galvanized steel. Sound and heat insulation is provided by 30 mm acoustic material. Due to the improved mixed type impeller, which is a hybrid of axial and centrifugal impeller, the Boost-I EC has low power consumption and noise level with high performance.

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 fans are equipped with highly efficient electronically commutated EC 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

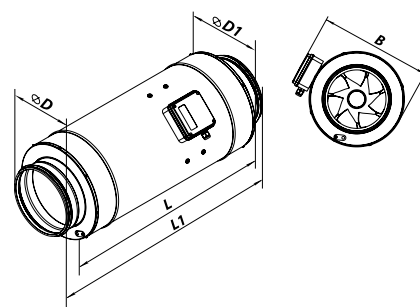
The fan is controlled using a 0-10 V control signal. When the control signal value changes, the EC fan changes its rotation speed and provides air flow required for the ventilation system.

Mounting

The unit is intended for mounting to round air ducts. The fan is installed in the gap between the air ducts. The fan casing has mounting brackets to facilitate suspended installation of the fan. While installing the fan, ensure convenient access for subsequent maintenance and repair. Electrical connection and installation must be performed in accordance with the instruction manual and the electrical connections diagram applied to the terminal box. A single system may have several fans installed in parallel to boost the output capacity or in series to boost the working pressure.

Fan overall dimensions

Type	Dimensions [mm]					Weight [kg]
	ØD	ØD1	L	L1	B	
Boost-I 200 EC	199	281	601	739	339	8.2
Boost-I 250 EC	249	337	601	739	389	9.8
Boost-I 315 EC	314	412	601	739	468	20.7
Boost-I 355 EC	354	412	601	739	471	20.7
Boost-I 400 EC	399	460	648	785	517	22.8



Designation key

Series	Air ducts diameter	Motor type	Options
VENTS BOOST-I: mixed-type duct fan in casings with noise and heat insulation	200; 250; 315; 355; 400	EC: synchronous electronically commutated motor	Un: speed controller with an electronic thermostat and 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

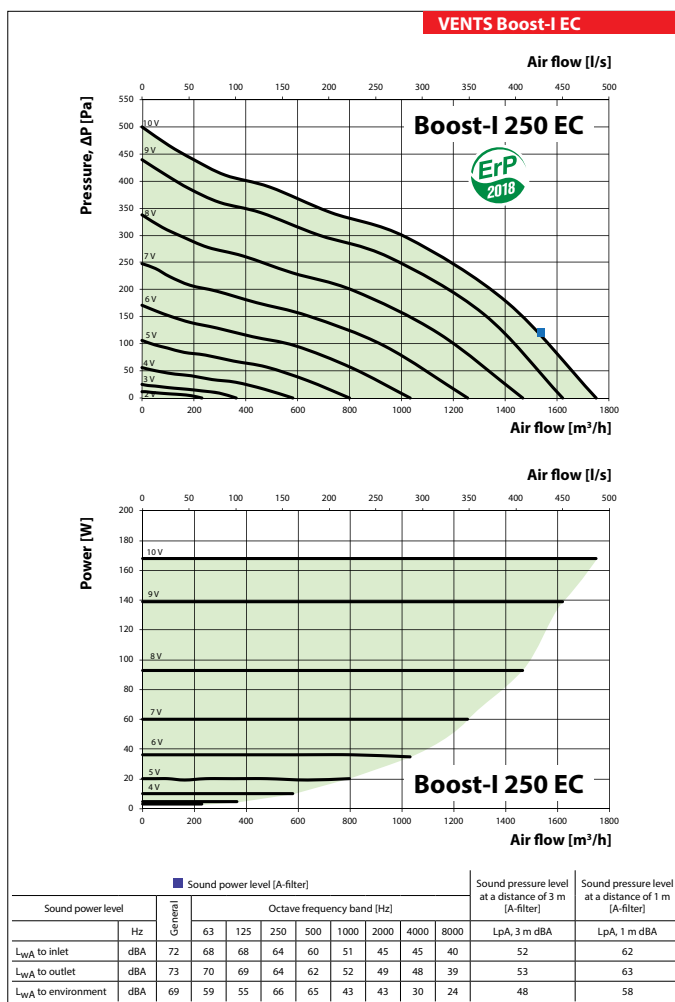
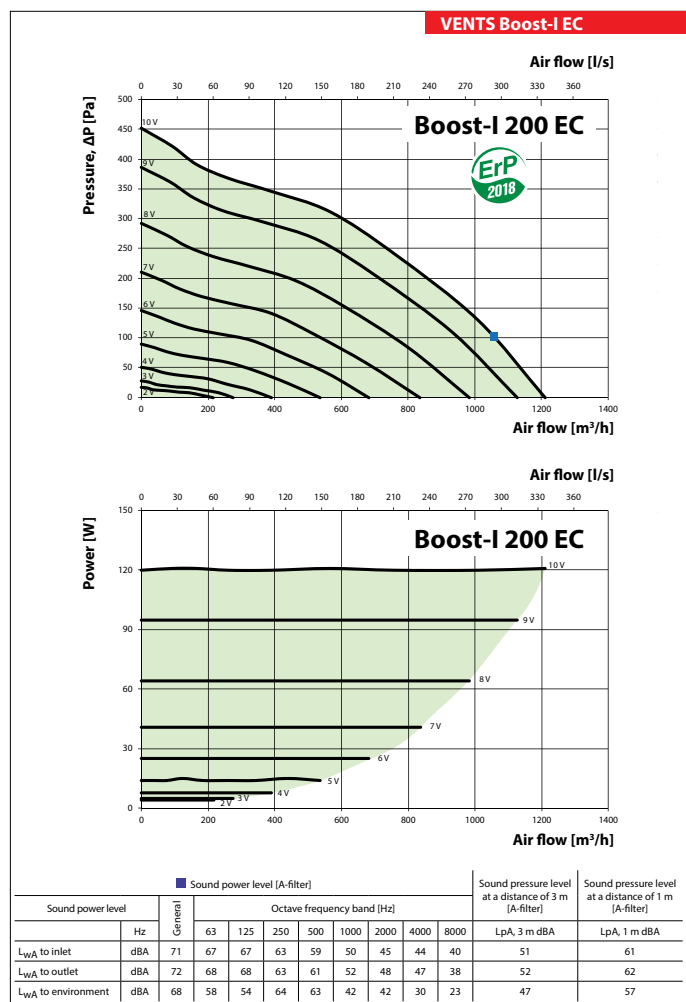


Speed controller R-1/010



Technical data

	Boost-I 200 EC	Boost-I 250 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	121	168
Current [A]	0.96	1.34
Max. air flow [m³/h]	1210	1750
Max. air flow [l/s]	336	486
RPM [min⁻¹]	3100	3282
Noise level at 3m [dBA]	47	48
Transported air temperature [°C]	-25...+55	-25...+55
Protection rating	IPX4	IPX4
Motor protection rating	IP44	IP44



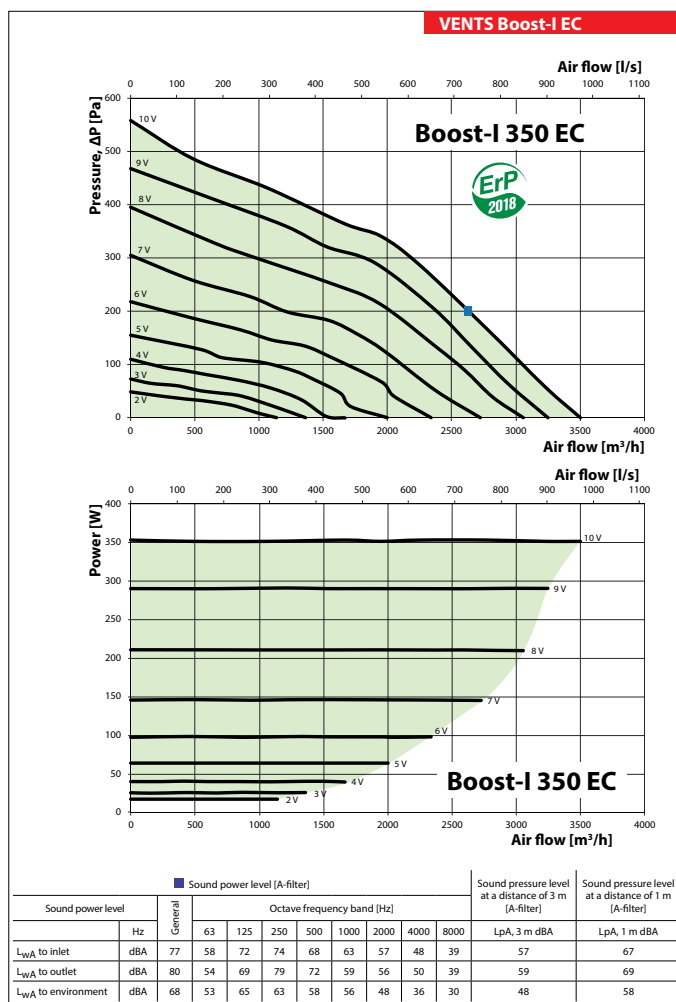
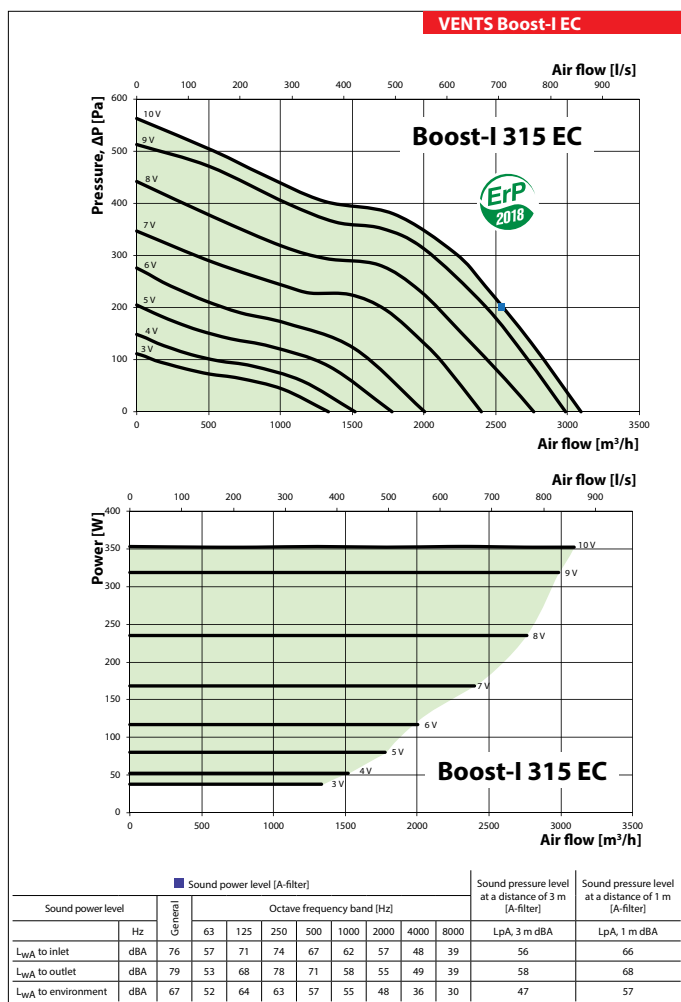


AIR MOVEMENT INDUSTRY

SOUND-INSULATED FANS

Technical data

	Boost-I 315 EC	Boost-I 355 EC
Voltage [V/50 (60) Hz]	1~230	1~230
Power [W]	353	353
Current [A]	1.56	1.56
Max. air flow [m³/h]	3090	3500
Max. air flow [l/s]	858	972
RPM [min⁻¹]	2470	2470
Noise level at 3m [dBA]	47	48
Transported air temperature [°C]	-25...+55	-25...+55
Protection rating	IPX4	IPX4
Motor protection rating	IP44	IP44





Technical data

Boost-I 400 EC	
Voltage [V/50 (60) Hz]	1~230
Power [W]	726
Current [A]	4.80
Max. air flow [m ³ /h]	5415
Max. air flow [l/s]	1504
RPM [min ⁻¹]	2580
Noise level at 3m [dBA]	49
Transported air temperature [°C]	-25...+55
Protection rating	IPX4
Motor protection rating	IP44

