PLUG EC



Double-panel structure

Isolating switch included

EC Technology

DESCRIPTION

Ventilation box, PLUG EC model with high acoustic attenuation, allowing installation in any position. Airflow up to 17000 m³/h. Equipped with isolating switch and airflow controller.

Modular structure in extruded aluminium profile according to DIN 17615 with 30 mm thickness and reinforced nylon corners. Double-wall panels with 25 mm thickness, with outer face in Magnelis steel with corrosion class C5, inner face in galvanized steel sheet according to EN 10192. The intermediate insulation of the panels is filled with self-extinguishing polystyrene boards 25 mm thick, with a density of 30 kg/m³, providing high resistance to different mechanical stresses. The base of the unit is equipped with threaded rivets for mounting anti-vibration feet (supplied). Supplied with closed rear panel in the S version and without panel in the filter version.

Available in 9 sizes, standard version (S) or filter version (F).

STANDARDS AND CERTIFICATIONS

Class IE5

Mechanical Protection IP55

ADVANTAGES

- Low-consumption electronically commutated motor.
- Corrosion class C5.
- 25 mm thick panels.
- Internal speed controller for operating point adjustment.
- Factory-installed isolating switch as standard.

ACCESSORIES

- Protection for rain
- Rain Roof
- Constant airflow control
- CO_2 control
- On - Off switch
- 0-10 V airflow controller
- Differential air pressure switch

COMPONENTS

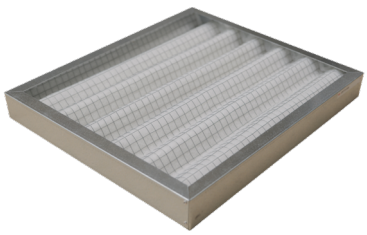
MOTOR

External rotor electronically commutated high-efficiency motors, insulation class F, with minimum efficiency class IE4 and IE5, with IP54 and IP55 mechanical protection. Mod-Bus connection (250 to 560).



FAN

Direct-drive centrifugal fans with single-inlet high-efficiency backward-curved impeller, statically and dynamically balanced according to ISO 1940 and AMCA 204-G2.5. The PLUG FAN centrifugal fan is directly driven by an EC motor, external rotor electronically commutated high-efficiency, insulation class F, efficiency class IE4 and IE5, and mechanical protection IP54 and IP55.



FILTERS

ePM10 50% / M5 class filter according to EN 779 and ISO 16890. Installed in rails designed to maintain bypass leakage values within F9 class, according to EN 1886.

CHARACTERISTICS

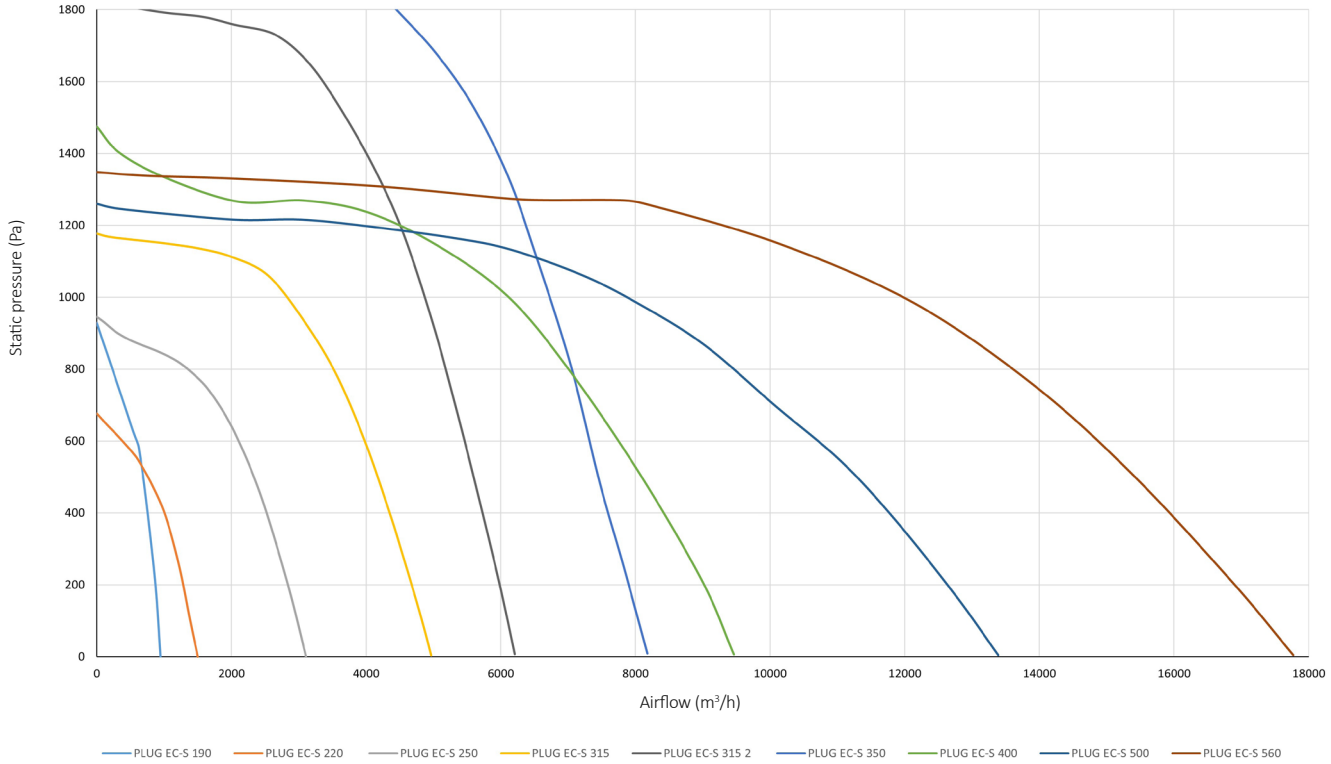
PLUG EC - S	190	220	250	315	315-2	350	400	500	560
Airflow (m³/h)	997	1393	2618	4828	6098	8039	9249	13 030	17 355
Static Pressure (Pa)	100								
Rotational Speed (rpm)	4200	3000	3080	2920	3640	3400	2500	1860	1750
Motor Power (kW)	0,17	0,2	0,5	1,35	2,5	3,7	2,5	3,5	5
Power Supply (V | F | Hz)	230 | 1 | 50				400 | 3 | 50				
Motor IP Class	IP 54	IP 44	IP 54	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
IMAX (A)	1,3	1,3	2,5	5,8	3,8	5,5	3,8	5,3	7,6
Sound Pressure (dB (A))*	37	37	41	49	55	56	54	53	57

PLUG EC - F	190	220	250	315	315-2	350	400	500	560
Airflow (m³/h)	975	1347	2545	4647	5888	7780	8795	12 550	16 496
Static Pressure (Pa)	100								
Rotational Speed (rpm)	4200	3000	3080	2920	3640	3400	2500	1860	1750
Motor Power (kW)	0,17	0,2	0,5	1,35	2,5	3,7	2,5	3,5	5
Power Supply (V | F | Hz)	230 | 1 | 50				400 | 3 | 50				
Motor IP Class	IP 54	IP 44	IP 54	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55
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Sound Pressure (dB (A)) *	37	37	41	49	55	56	54	53	57

* Sound pressure level at 4 m, measured in free field according to ISO 3744

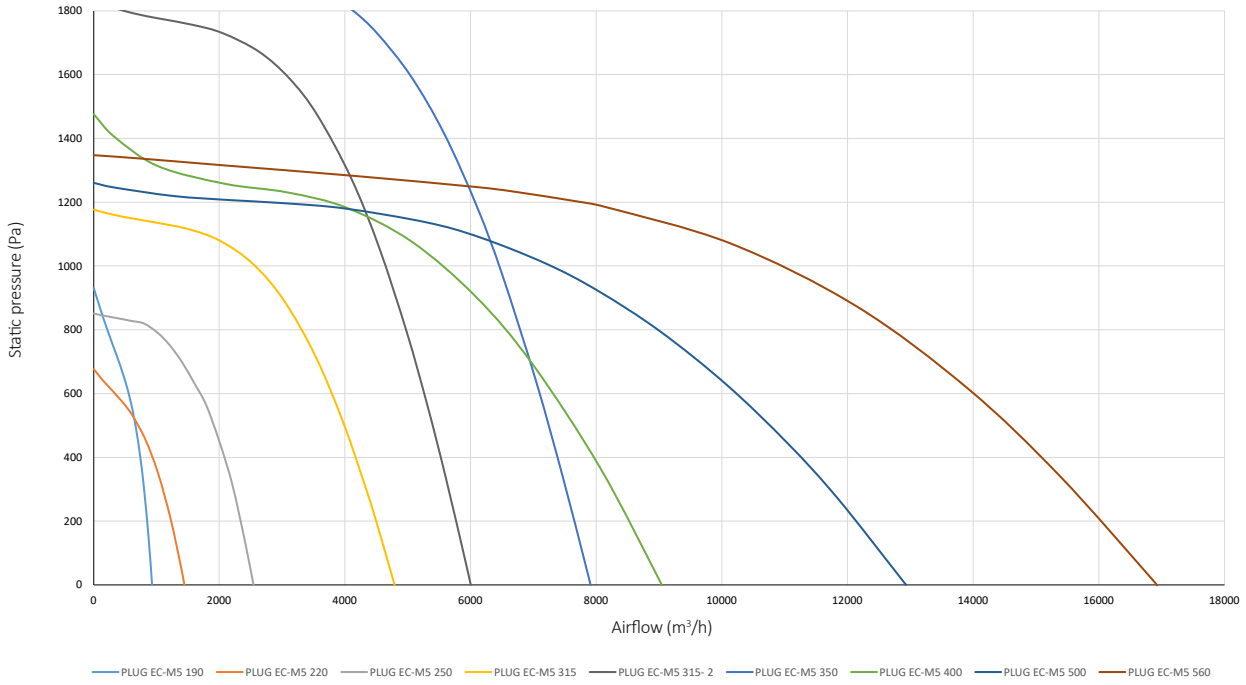
PERFORMANCE CURVES

PLUG EC-S



CHARACTERISTICS

PLUG EC-F



DIMENSIONS

PLUG EC - S	190	220	250	315	315-2	350	400	500	560
A (mm)	360	400	480	515	515	565	615	795	795
L (mm)	360	400	480	515	515	565	615	795	795
P (mm)	360	400	480	600	600	650	700	1000	1000
Weight (kg)	11	14	28	33	35	40	84	112	131

PLUG EC-F	190	220	250	315	315-2	350	400	500	560
A (mm)	360	400	480	515	515	565	615	795	795
L (mm)	360	400	480	515	515	565	615	795	795
P (mm)	360	400	480	600	600	650	700	1000	1000
Weight (kg)	12	15	29	34	36	42	86	114	133

