

SLIMROOF ES SERIES

Radial discharge rooftop centrifugal vacuum cleaners driven by permanent magnet (EC) motors, the same technology adopted by the most popular electric cars, to minimise consumption and simplify the adjustment of the delivered performance.



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Ideal for ensuring the correct air exchange of condominiums, gyms, offices, theatres, discotheques and industrial warehouses that impose limits on the vertical footprint and for which there are stringent requirements for low energy consumption and adjustment of the treated air flows.

The range consists of **10 models**, driven by single-phase and three-phase motors, depending on size, with maximum flow rates between 460 m³/h and 18,600 m³/h.

Certifications

Electromagnetic compatibility standards:

- EN 55014-1
- EN 55014-2
- EN 61000-3-2
- EN 61000-3-3

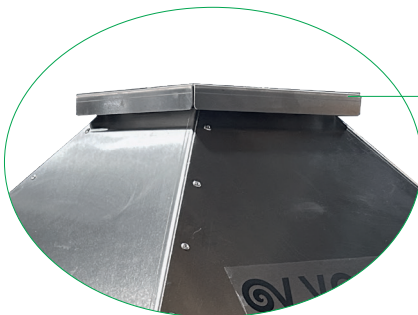
European directives and regulations for CE marking

- Machinery Directive (2006/42/CE)
- Compatibility Directive (2004/30/CE)
- RED Directive (2014/30/CE)
- Ecodesign Directive (2009/125/EC)
- Electric Motors Regulation (2019/1781/EU)
- Fan adjustment
- Ventilation Unit Regulation (2014/1253/EU)

- Standard on the degree of protection of enclosures for electrical equipment (CEI EN 60529/1997)



CONSTRUCTION FEATURES

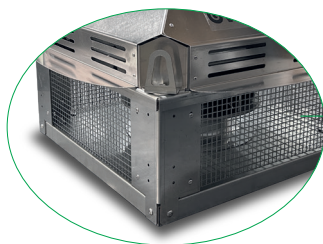
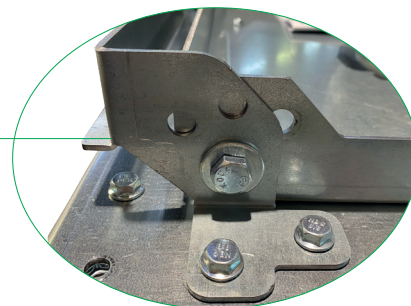


Aluminium covers

Easily removable, thanks to their low weight they are resistant to corrosion, impacts, high temperatures and the action of atmospheric agents. The shape is designed to prevent rain from entering the underlying duct, even in the presence of strong storms.

Pair of hinges

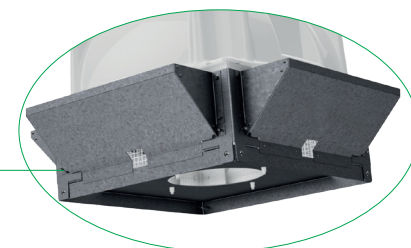
Installed on **SLIMROOF 560 T ES** and **SLIMROOF 630 T ES**, they allow the fan support plate to be tilted, in order to facilitate inspection and maintenance interventions. In smaller models, these hinges are not present, as the reduced weight of the unit makes their installation unnecessary.



Anti-bird grid

KV SLIMROOF kit

Made of aluminum, it allows the vertical discharge of the treated flow, avoiding ingestion in case of installation near building openings.



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- Structure in galvanised steel sheet, integrating the anti-bird grid.
- **High-efficiency centrifugal impellers** of the reverse blade type, self-cleaning, made of reinforced polyamide in models with a diameter up to 220 mm, and in aluminium sheet in the other models.
- **High-efficiency EC motors** (IE5 in single-phase models, IE4 in three-phase) to minimise consumption, external rotor type to reduce overall dimensions and with shafts mounted on ball bearings to increase life. The degree of protection is **IP54**, the **insulation class** is **B**. The advanced integrated electronics allow fine adjustment of the delivered performance.
- Built-in safety switch available upon request.
- Power supply:
 - Single-phase** (230V / 50-60Hz) for models: SLIMROOF 155 M ES, SLIMROOF 190 M ES, SLIMROOF 220 M ES, SLIMROOF 250 M ES and SLIMROOF 310 M ES;
 - Three-phase** (400V / 50-60Hz) for models: SLIMROOF 355 T ES, SLIMROOF 450 T ES, SLIMROOF 500 T ES, SLIMROOF 560 T ES and SLIMROOF 610 T ES.
- Operating temperatures between -30°C and +60°C, variable depending on the model (ref. technical data).
- Electrical insulation class I (earthing required).

SLIMROOF ES

Radial Discharge Roof Centrifugal Vacuum Cleaners with EC Motors

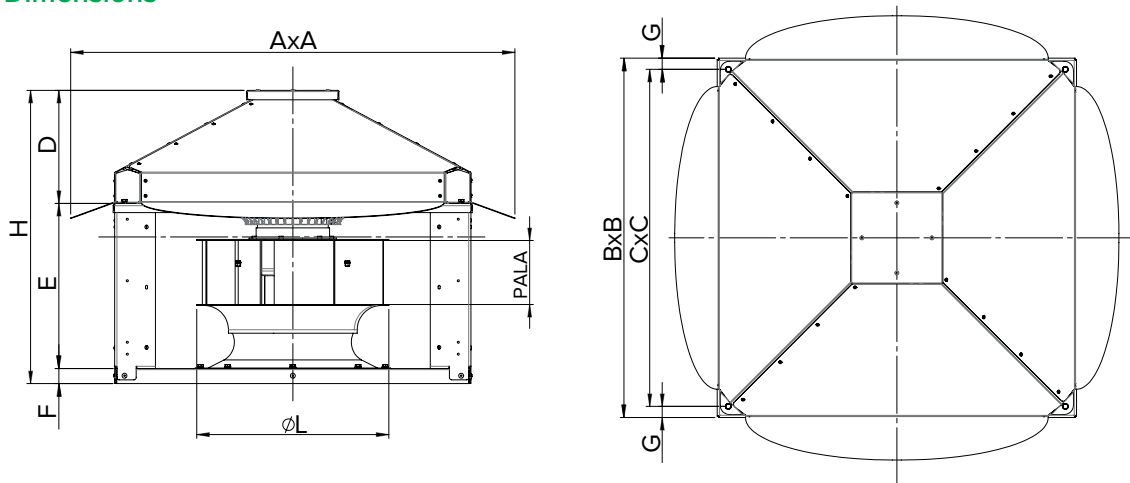
Technical data

PRODUCTS	CODE	Hz	m ³ /h	W motor	Operating Temperature Range (°C)	IP motor	KG
SLIMROOF 155 M ES	15271	50/60	460	55	-25°C/+60°C	IP54	5
SLIMROOF 190 M ES	15272	50/60	760	90	-25°C/+60°C	IP54	5
SLIMROOF 220 M ES	15273	50/60	870	75	-25°C/+60°C	IP54	7
SLIMROOF 250 M ES	15274	50/60	1,640	145	-25°C/+60°C	IP54	9
SLIMROOF 310 M ES	15275	50/60	3,160	360	-25°C/+60°C	IP54	16
SLIMROOF 355 T ES	15276	50/60	4,890	990	-25°C/+60°C	IP54	17.5
SLIMROOF 450 T ES	15277	50/60	6,955	1,006	-25°C/+60°C	IP54	19
SLIMROOF 500 T ES	15278	50/60	13,850	3,000	-25°C/+60°C	IP54	73
SLIMROOF 560 T ES	15279	50/60	16,100	2,770	-25°C/+60°C	IP54	85
SLIMROOF 630 T ES	15311	50/60	18,600	2,700	-25°C/+60°C	IP54	100

* For the exact working point, refer to the curves shown on page 31.



Dimensions

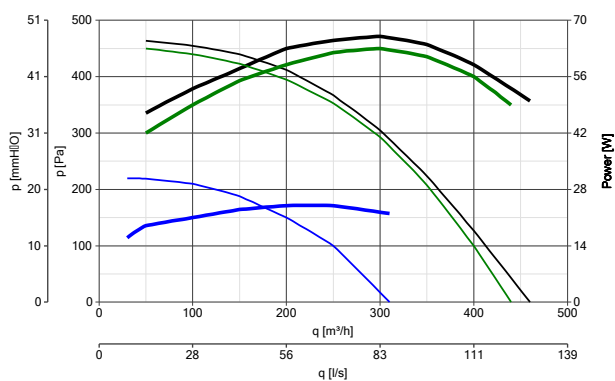


PRODUCTS	CODE	A	B	C	D	E	F	H	IMPELLER
SLIMROOF 155 M ES	15271	435	350	310	120	80	30	230	155x40
SLIMROOF 190 M ES	15272	435	350	310	120	80	30	230	190x40
SLIMROOF 220 M ES	15273	560	450	398	140	90	30	262	220x45
SLIMROOF 250 M ES	15274	560	450	398	140	168	30	340	250x80
SLIMROOF 310 M ES	15275	722	610	550	180	177	30	388	310x115
SLIMROOF 355 T ES	15276	722	610	550	180	265	30	475	355x115
SLIMROOF 450 T ES	15277	722	610	550	180	320	30	532	450x145
SLIMROOF 500 T ES	15278	1180	955	895	300	440	40	780	500x175
SLIMROOF 560 T ES	15279	1180	955	895	300	460	40	800	560x180
SLIMROOF 630 T ES	15311	1300	1055	995	300	500	40	870	630x200

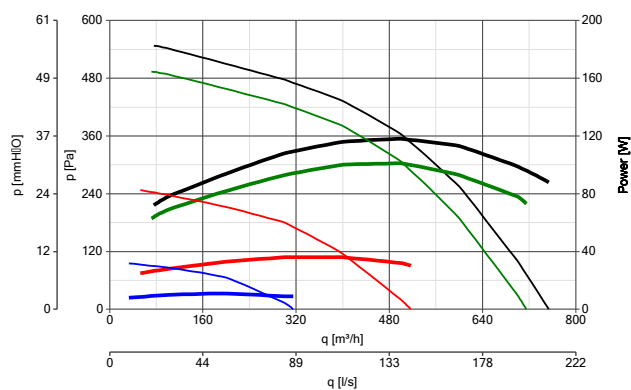


Performance and consumption

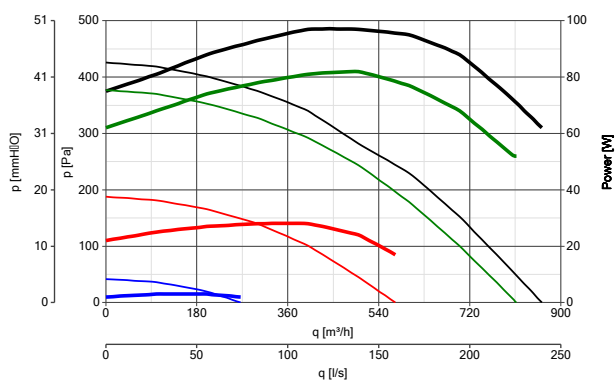
SLIMROOF 155 M ES
code 15271



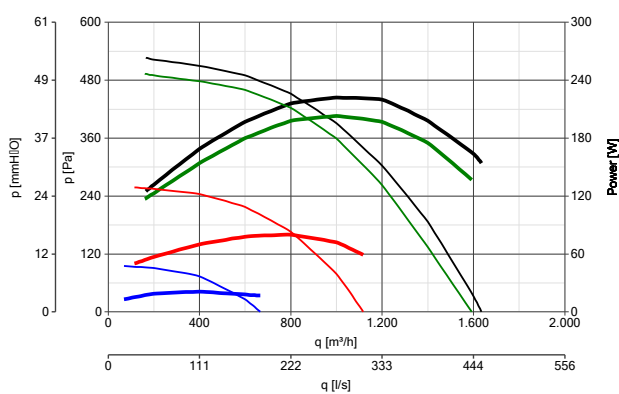
SLIMROOF 190 M ES
code 15272



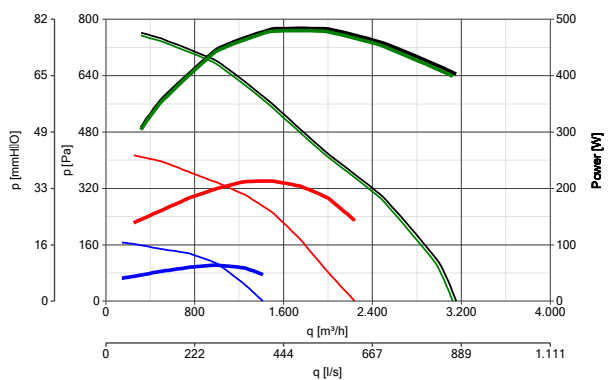
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code 15273



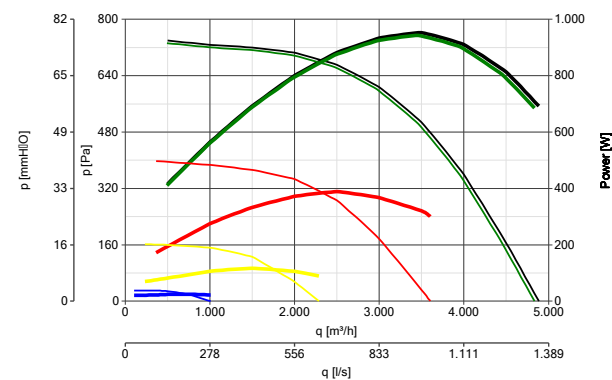
SLIMROOF 250 M ES
code 15274



SLIMROOF 310 M ES
code 15275



SLIMROOF 355 T ES
code 15276



10V

8V

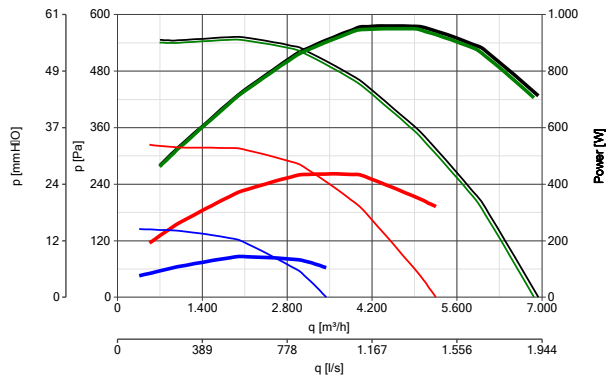
6V

2V

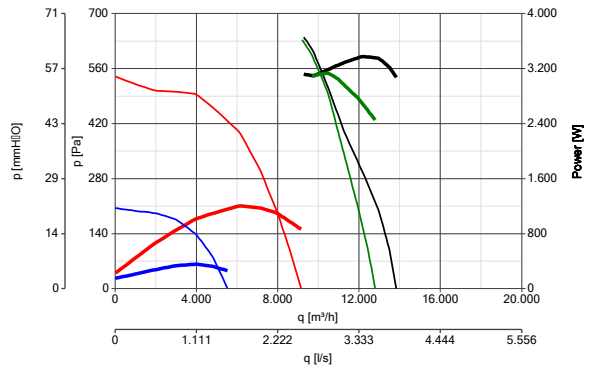
4V

Performance and consumption

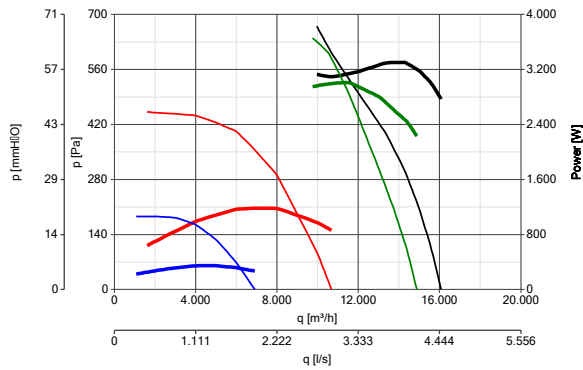
SLIMROOF 450 T ES
code 15277



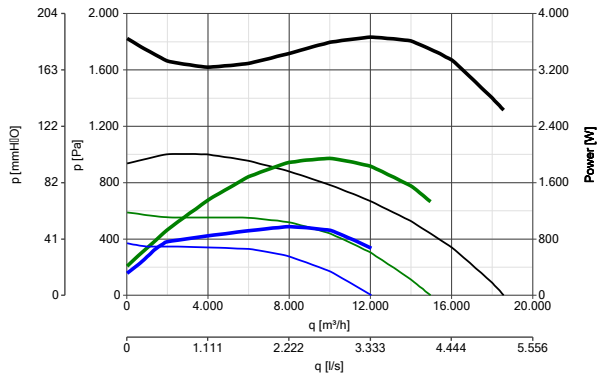
SLIMROOF 500 T ES
code 15278



SLIMROOF 560 T ES
code 15279



SLIMROOF 630 T ES
code 15311



— 10V — 8V — 6V — 2V