

VBP+

Assistance fan for hybrid ventilation

Hybrid working: allows natural ventilation when stopped / at very low speed.



Low energy consumption: only 35 W at 800 m³/h.



Constant pressure: adapted to demand controlled ventilation



Fire safety: can withstand hot smoke up to 400°C for 30 mn

Adapts to weather conditions: management system (ms version) with temperature sensor.



Renovation or new building, on natural ventilation ductwork.

Alarm output (ms version).



Low maintenance: low air speed = lower dusting.

Not critical: ensures natural ventilation if the fan stops.



Hybrid ventilation, more energy efficient than ever

The VBP+ hybrid ventilation fan range is the ideal solution for the renovation of buildings equipped with natural or passive stack ventilation ducts, improving the performance of the ventilation through a very low electrical consumption.

Its hybrid working, at very low pressure, (natural or mechanical mode) enables to automatically adapt to weather conditions to keep the pressure in the ductwork, all year long. The VBP+ is specially designed for demand controlled ventilation (humidity sensitive, presence detection or other activation modes) thanks to its pressure management. Located on a terrace or on a slope roof, the VBP+ is easily installed on the top of chimney through adaptation parts. Its large free area (equivalent to 8 ducts of $\varnothing 125$ mm) allows to gather several collective or individual ducts without reducing the cross section. Not critical in case of supply default with its patented blades design (no pressure losses when stopped), the VBP+ requires a very light maintenance in comparison with standard mechanical systems, making of it a privileged solution for social housing. Equipped with an EC motor, the VBP+ has a very low energy consumption. The VBP+ exists in two versions, both fire resistant, which enable the VBP+ «C4» and the VBP+ «R» to withstand to hot smoke up to 400°C for 30 minutes.

Patented smart blades design

The unique smart propeller design of VBP+ prevents from creating pressure loss when stopped: the central blades are parallel to the airflow, the airflow being generated through static peripheral paddles. Thus, the system is not critical in case of supply failure (natural ventilation working mode). The C4 version offers a galvanized steel propeller; the R version is equipped with a plastic one.

Fire safety

The VBP+ fan range offers a very high level of fire safety: thanks to body and structure in galvanized steel and their patented design, the R version and the C4 version enable to extract smoke up to 400 °C, at their nominal airflow, during 30 minutes. Thanks to the non-combustible matrix made of calcium silicate protecting the motor, the C4 version can still operate to fire smoke up to 400°C, at least during 30 minutes.





VBP+ Fan for hybrid ventilation

VBP+ R

VB21828 (ST) / VB21826 (MS)

VBP+ C4

VB21829 (ST) / VB21827 (MS)

Standard code

Airflow characteristics

Max. airflow	m ³ /h	800
Max. pressure @ Max. airflow	Pa	27
Max. pressure @ 200 m ³ /h	Pa	39 (ST) / 35 (MS)

Acoustics

Max. sound power level Lw	dB(A)	59
Max. sound pressure level Lp @ 4m	dB(A)	36

Electrics

Motor type	EC (Electronic commutation)	
Power supply	230 VAC, 50-60 Hz	
Max. power	W	42
IP degrees of protection	IP54	

Control

Degree of pollution	1	
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Characteristics

Weight	kg	17
Colours	metal grey / black	
Material (main)	galvanised steel / PE	
External dimensions	mm	888 / ø590

Fire safety

Guarantee of extracted nominal airflow*	■
Preservation of the motor running*	-

Installation

Number of available draft connections	1	
Outlet	ø354	

Installation	mm	installation on terrace, head of the air duct / 3 x screws ø8
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Operation

Direct-drive impeller	by motor coupler	
Max. speed	RPM	650

Remark: the indicated pressure is the **static** pressure.

*Test conditions = 400°C ; 30 minutes

Max. airflow	m ³ /h	800
Max. pressure @ Max. airflow	Pa	27
Max. pressure @ 200 m ³ /h	Pa	39 (ST) / 35 (MS)

Motor type	EC (Electronic commutation)	
Power supply	230 VAC, 50-60 Hz	
Max. power	W	42
IP degrees of protection	IP54	

by built-in potentiometer (ST) or by management system (MS)

Degree of pollution	1	
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Weight	kg	17
Colours	metal grey / black	
Material (main)	galvanised steel / PE	
External dimensions	mm	888 / ø590

Guarantee of extracted nominal airflow*	■
Preservation of the motor running*	-

Number of available draft connections	1	
Outlet	ø354	

Installation	mm	installation on terrace, head of the air duct / 3 x screws ø8
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Direct-drive impeller	by motor coupler	
Max. speed	RPM	650

Max. airflow	m ³ /h	800
Max. pressure @ Max. airflow	Pa	23
Max. pressure @ 200 m ³ /h	Pa	35

Motor type	EC (Electronic commutation)	
Power supply	230 VAC, 50-60 Hz	
Max. power	W	46
IP degrees of protection	IP54	

by built-in potentiometer (ST) or by management system (MS)

Degree of pollution	1	
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Weight	kg	20
Colours	metal grey / black	
Material (main)	galvanised steel / PE	
External dimensions	mm	888 / ø590

Guarantee of extracted nominal airflow*	■
Preservation of the motor running*	■

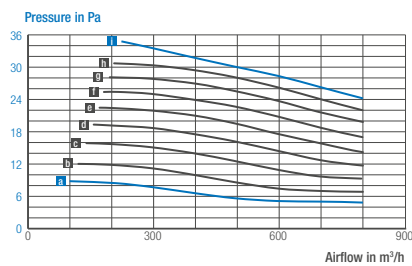
Number of available draft connections	1	
Outlet	ø354	

Installation	mm	installation on terrace, head of the air duct / 3 x screws ø8
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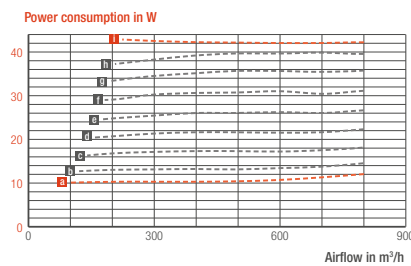
Direct-drive impeller	by shaft / motor coupler	
Max. speed	RPM	650

■ standard

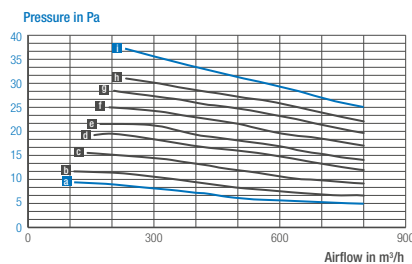
Airflow characteristics



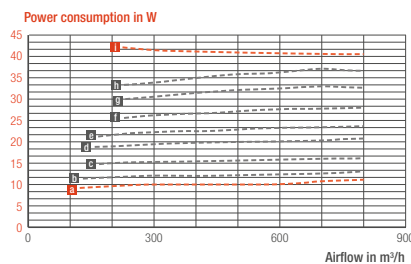
— VBP+ C4 – Minimum and maximum speeds
 - - VBP+ C4 – Intermediate curves (examples)



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 - - VBP+ C4 – Intermediate curves (examples)

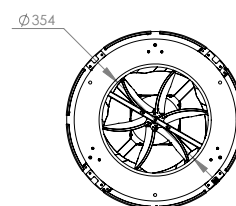
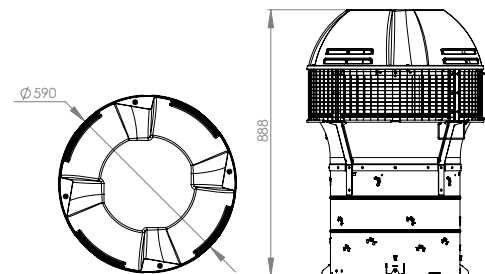


— VBP+ R – Minimum and maximum speeds
 - - VBP+ R – Intermediate curves (examples)



- - VBP+ R – Minimum and maximum speeds
 - - VBP+ R – Intermediate curves (examples)

Dimensions in mm



FLV596GB_v8