



Roof extractors centrifugal self- regulated **CRVB ECOWATT PLUS SERIES**



CRVB-400 ECOWATT PLUS (230V50/60HZ) VE



Centrifugal roof mounted fan in vertical discharge format fitted with:

- EC external rotor motor.
 - Centrifugal backward curved impeller.
 - Steel finger guard.
 - Base manufactured from galvanized sheet steel.
- Cowl manufactured from spun aluminium with very low profile design.
- ON-OFF electrical isolated switched.

And supplies with integral control to enable the fan operating in 4 different modes:

- Constant pressure mode.
- Constant volume mode.
- Proportional mode.
- Min-max mode.

Integrated control

- Possibility to connect up to 32 fans together to design a fan network which can be adjusted and controlled with only one remote control.
- 2 analogue inputs, 0-10V or 4-20mA.
- 1 digital input (Night position - min-max operating mode).
- Main supply: 1~230V±15% 50/60Hz.
- Remote control (PROSYS), to adjust settings, as accessories.

Constant pressure operating mode

- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Night position adjustable between 25-100% of the pressure in high speed.

Constant volume operating mode

- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Night position adjustable between 50-100% of the volume in high speed.

Proportional operating mode

- 2 analogical inputs 0-10V or 4-20mA.
- The control operates in function of the maximum demand parameter.
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.
- Alarm relay output.

Min-max operating mode

- Function of the contact position connected to digital input, the fan runs at high speed or at low speed.
- Minimum fan speed between 0-50%.
- Maximum fan speed between 50-100%.

+ Attributes



Backward curved centrifugal impellers
To prevent accumulation of dirt.



Bird proof guard



Remote control PROSYS ECOWATT
To modify parameters and adjust setting values.

+ Acoustic characteristics

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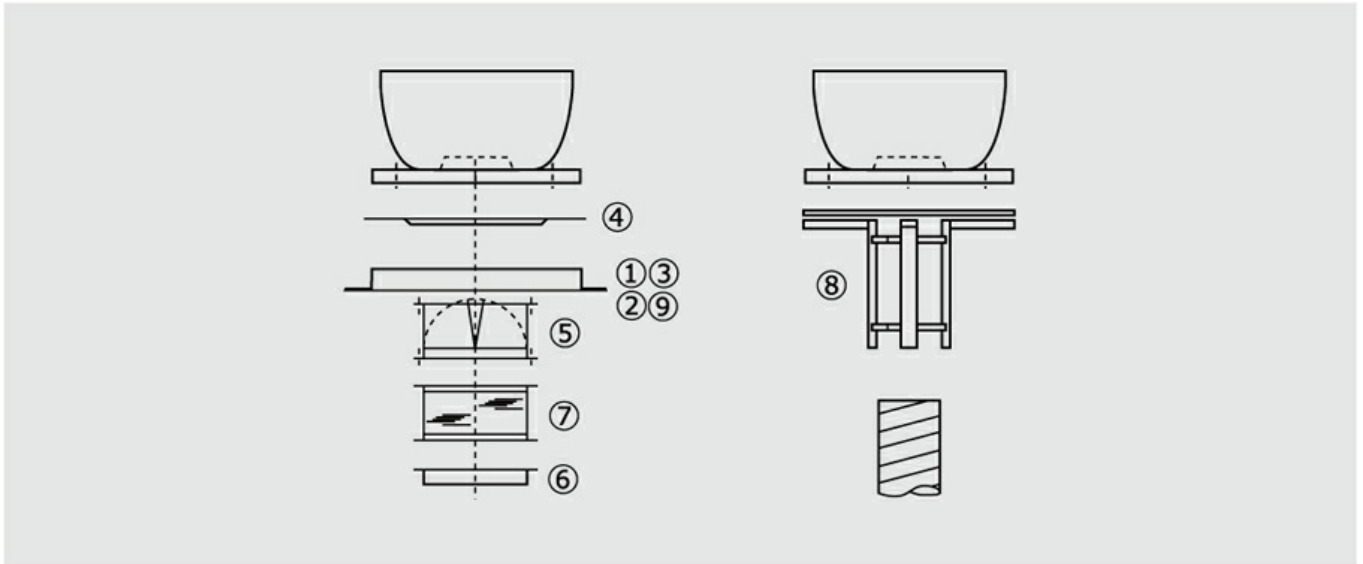
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+ Technical characteristics

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+ Installation

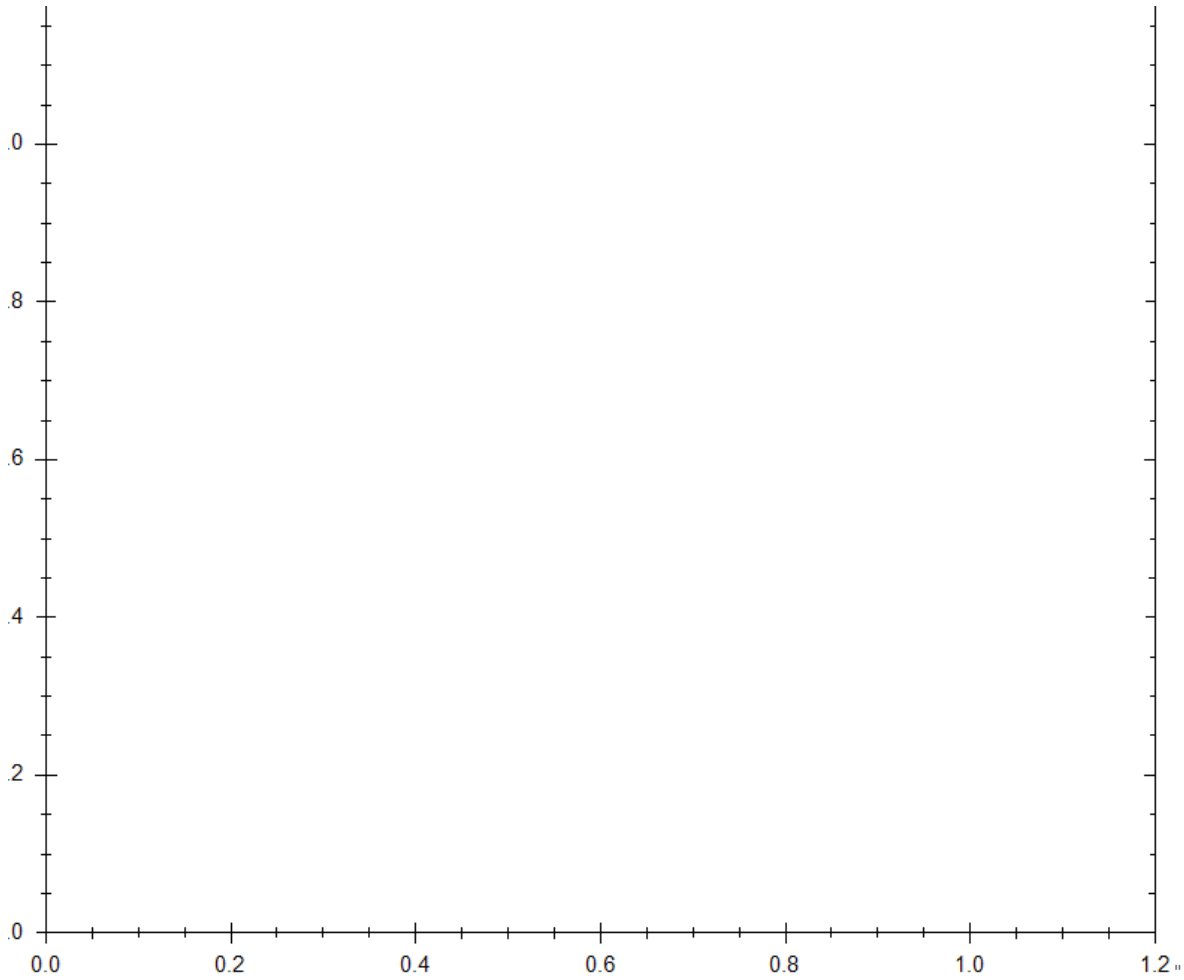


Model of fan	① Sealing frame	② Flat roof insulated up stand	③ Acoustic up stand	④ Accessory adapter plate	⑤ Back draft shutter	⑥ Flange with spigot	⑦ Flexible coupling	⑧ Circular adapter	⑨ Support base for inclined curb mounted installations
315	JMS-435	JBS-435	JAA-435	JPA-435	JCA-435	JBR-435	JAЕ-435	JCC-435	BI-4
355	JMS-560	JBS-560	JAA-560	JPA-560	JCA-560	JBR-560	JAЕ-560	JCC-560	BI-5
400	JMS-560	JBS-560	JAA-560	JPA-560	JCA-560	JBR-560	JAЕ-560	JCC-560	BI-5

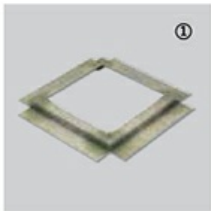
+ Dimensions

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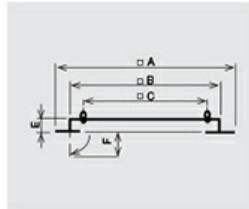
+ Curves



+ Mounting Accessories



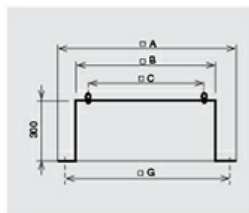
JMS
Sealing frame
 - For mounting a roof fan on an up stand or base.
 - Supplied with screws and gasket for a complete weatherproof seal.



Model	□A	□B	□C	E	F
JMS-300	600	420	330	50	70
JMS-435	725	545	450	50	70



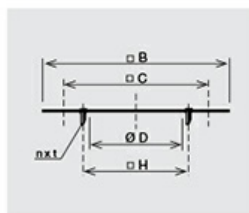
JBS
Flat roof up stand
 - For mounting a fan on a flat roof without up stands.
 - For use on horizontal roofs.
 - Internal insulation to prevent condensation.
 - Supplied with screws and gasket for a complete weather seal.



Model	□A	□B	□C	∅ D (M)	E	□G
JBS-435	600	419	330	11 (M10)	300	510
JBS-560	725	544	450	11 (M10)	300	635



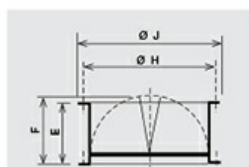
JPA
Accessory adapter plate
 - Used when mounting the accessories (JCA, JBR, JAE).
 - Allows the fan to be disconnected from the upstand without having to remove the duct.



Model	□B	□C	∅ D	nxt	∅ H
JPA-435	419	330	252	4xM8	280
JPA-560	544	450	358	8xM8	395



JCA
Backdraft shutter
 - Prevents backdraft when the fan is not operating.
 - To be mounted at the fan inlet with the JPA plate.

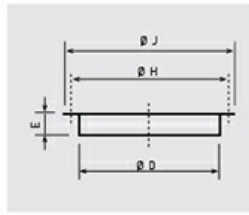


Model	∅ D	E	F	∅ H	∅ J
JCA-435	252	145	174	280	300
JCA-560	358	210	227	395	415



**JBR
Flange**

- For use when circular connection is required directly to the fan.
- To be mounted at the fan inlet with the JPA plate or fixed directly to the fan base (rivets or screws not supplied).

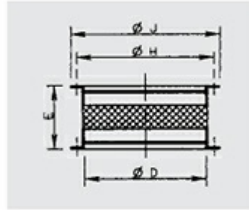


Model	Ø D	E	Ø H	Ø J
JBR-435	252	55	280	300
JBR-560	358	55	395	415



**JAE
Flexible coupling**

- Reduces the transmission of vibrations when the duct is connected directly to the fan.
- To be mounted at the fan inlet with JPA plate.

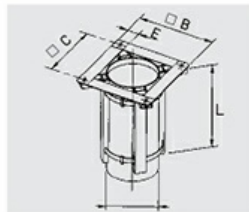


Model	Ø D	E	Ø H	Ø J
JAE-435	252	254	280	300
JAE-56	358	254	395	415



**JCC
Adapter for circular duct**

- For use when fitting the models up to 400, directly to a spirally wound circular duct.

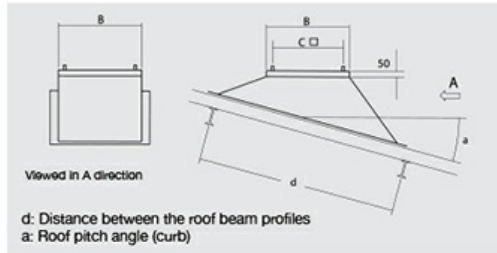


Model	Ø B	Ø C	Ø D	E	L
JCC-435	390	330	250	60	350
JCC-560	520	450	355	70	350



**BI
Support base for inclined curb mounted installations**

- To ensure a proper installation of the CRHB-CRHT roof fan it is essential to specify the roof pitch angle and the distance between the roof beam profiles.

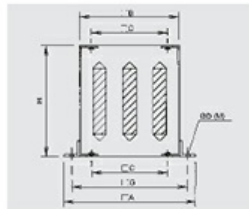


Model	B	C
BI-4	419	330
BI-5	544	450



**JAA
Acoustic up stand**

- Reduces in duct and radiated noise.
- For use when mounting a fan on a flat roof without up stands.
- Supplied with screws and gasket for a complete weather seal.



Model	Ø A	Ø B	Ø C	Ø D (M)	H	Ø G
JAA-435	600	419	330	15 (M12)	750	510
JAA-560	725	545	450	15 (M12)	750	635

Acoustic attenuation in dB(A) at the corresponding frequency band in Hz.

Model	125	250	500	1000	2000	4000	8000
JAA-435	1	7	16	23	25	18	13
JAA-560	2	8	16	29	32	26	17

JAA Attenuator pressure drops.

