EVCL

Fan Boxes

CE ERP

Technical Sheet

Rev.00

ecoclima

AIR EVOLUTION

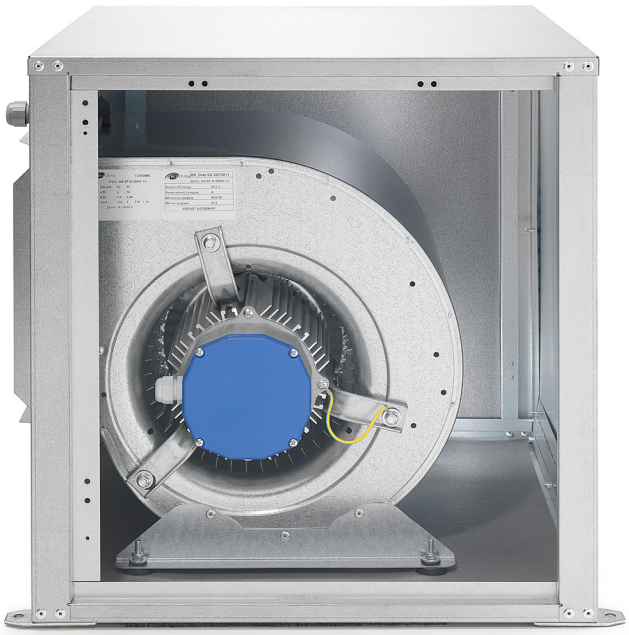
EVCL

Sound-insulated fan boxes

Made of galvanized sheet steel for ventilation and air extraction systems.

Features

- Structure made of galvanized sheet steel;
- Impeller with forward-curved blades made of galvanized steel sheet;
- Cable gland for cable entry;
- Closed motors with thermal protection integrated, class F, equipped with ball bearings, protection rating IP54;
- Monophase 220-240 V 50 Hz;
- Range temperature: -25 °C +60 °C.



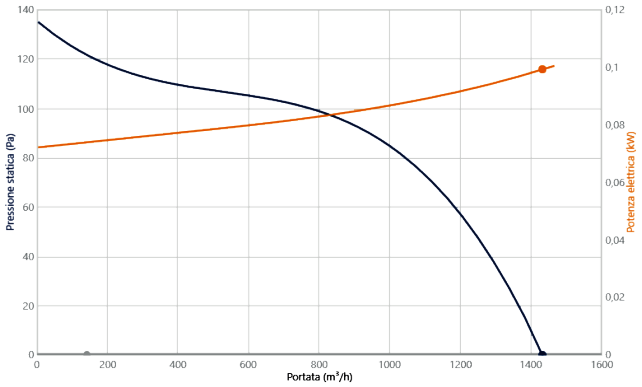
Use

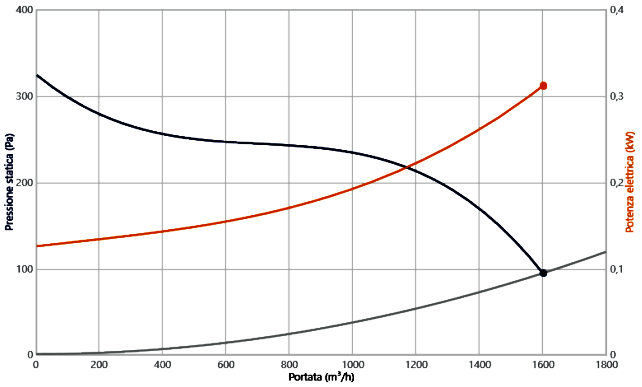
Designed for installation in supply or extract air duct systems, with direct connection to ducts conveying clean or slightly dusty air. Airflow rates from 1000 to 5000 m³/h and static pressure up to 450 Pa.

Accessories

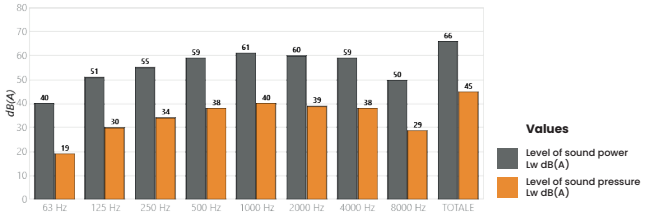
- RCS - Speed controls;
- Roof protection T- EVC;
- Hood with bird mesh C- EVC;
- Threaded bars EBF;

EVCL 7/7 80W - EVCL 7/7 150 W



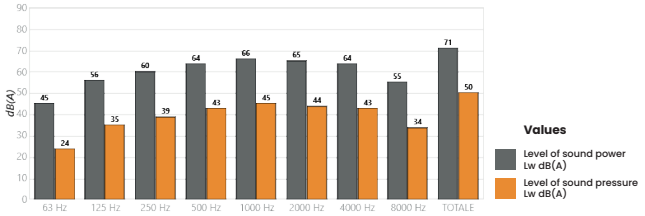


Acoustic: radiation, 3 (m), Open field
The indicated values are obtained under laboratory conditions in accordance with the standard ISO 3744.



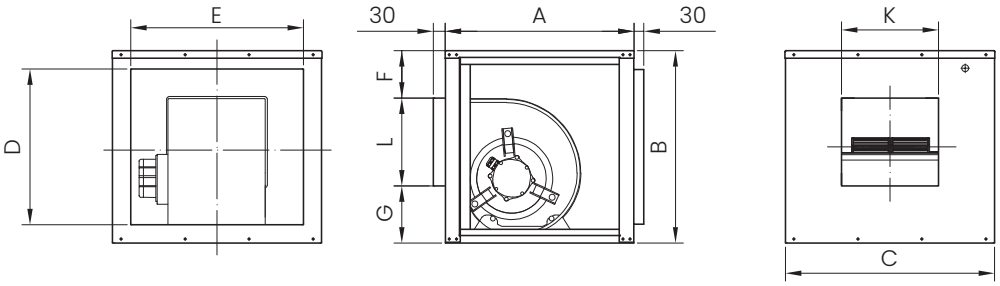
Frequency	Lw dB(A)	Lp dB(A)
63 Hz	40	19
125 Hz	51	30
250 Hz	55	34
500 Hz	59	38
1000 Hz	61	40
2000 Hz	60	39
4000 Hz	59	38
8000 Hz	50	29
Totale	66	45

Acoustic: radiation, 3 (m), Open field
The indicated values are obtained under laboratory conditions in accordance with the standard ISO 3744.

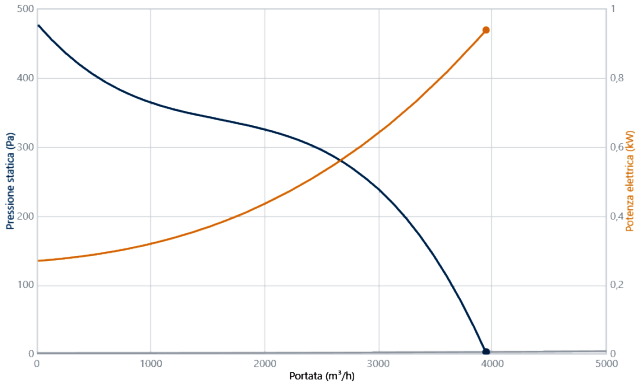


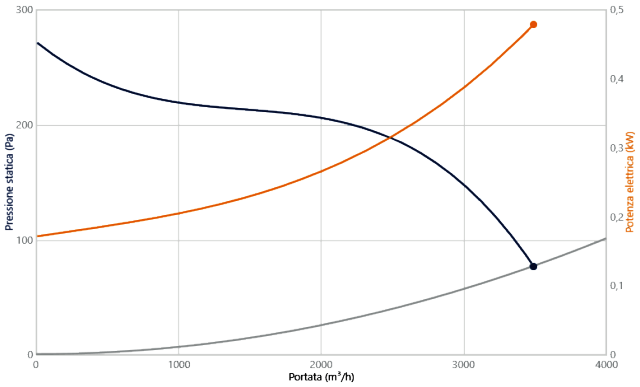
Frequency	Lw dB(A)	Lp dB(A)
63 Hz	45	24
125 Hz	56	35
250 Hz	60	39
500 Hz	64	43
1000 Hz	66	45
2000 Hz	65	44
4000 Hz	64	43
8000 Hz	55	34
TOTALE	71	50

	Measure Unit	EVCL 7/7 - 80W	EVCL 7/7 - 150W
Nr. of poles	-	6	4
Nr. Speed	-	1	1
Supply	Hz	220/240-1F-50	220/240-1F-50
Max consumption	A	0,85	1,4
Nominal Electrical Power	W	80	180
Nominal Mechanical Power	W	80	150
Sound Power	(LWA) / dB(A)	64	69
Temperature range	°C	-25 / +60 °C	-25 / +60 °C
Protection grade	-	IP 54	IP 54
A	mm	450	450
B	mm	460	460
C	mm	500	500
D	mm	370	370
E	mm	410	410
F	mm	115	115
G	mm	135	135
L	mm	210	210
K	mm	232	232
Weight	kg	20	20



EVCL 9/9 550W - EVCL 10/10 250 W





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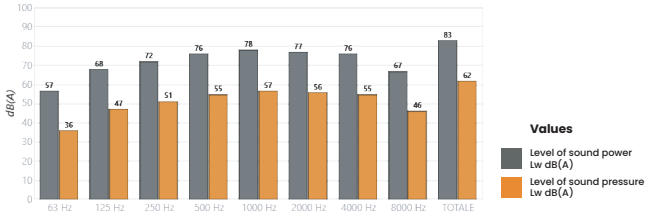
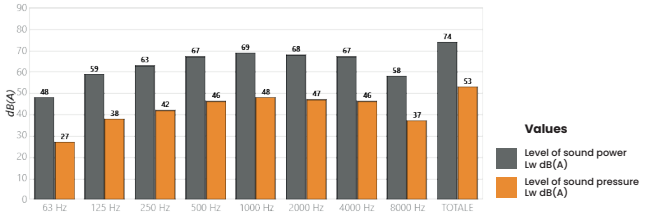


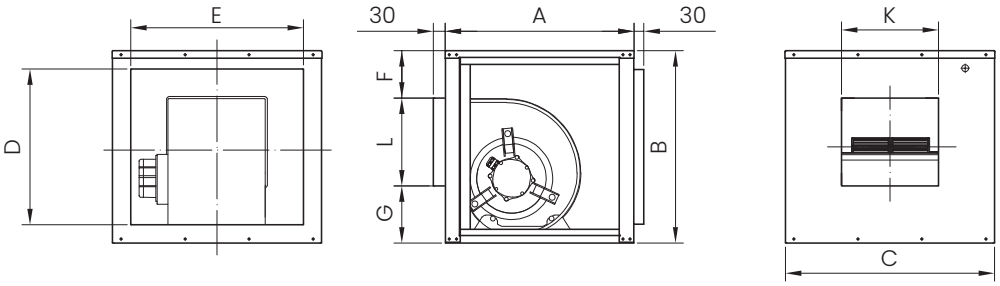
Frequency	Lw dB(A)	Lp dB(A)
63 Hz	57	36
125 Hz	68	47
250 Hz	72	51
500 Hz	76	55
1000 Hz	78	57
2000 Hz	77	56
4000 Hz	76	55
8000 Hz	67	46
TOTALE	83	62

Acoustic: radiation, 3 (m), Open field
The indicated values are obtained under laboratory conditions in accordance with the standard ISO 3744.

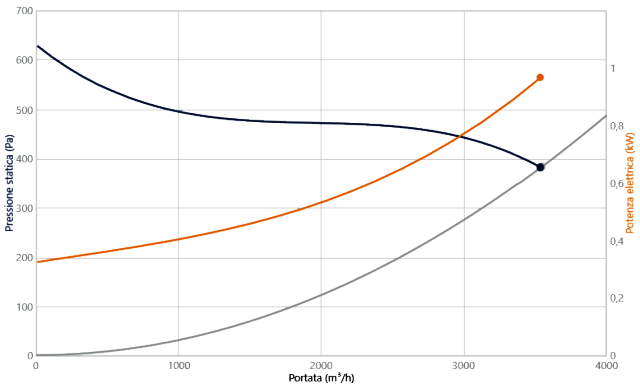


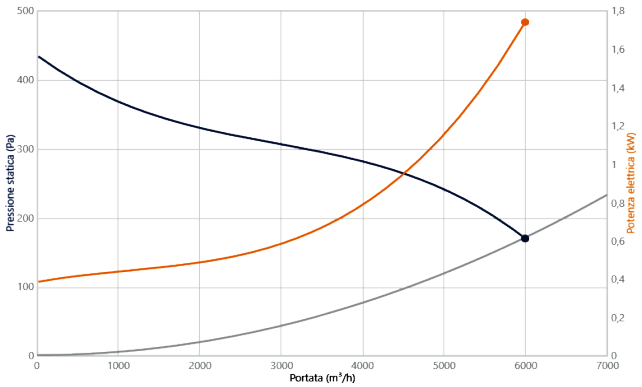
Frequency	Lw dB(A)	Lp dB(A)
63 Hz	48	27
125 Hz	59	38
250 Hz	63	42
500 Hz	67	46
1000 Hz	69	48
2000 Hz	68	47
4000 Hz	67	46
8000 Hz	58	37
TOTALE	74	53

	Measure Unit	EVCL 9/9 - 550W	EVCL 10/10 - 250W
Nr. of poles	-	4	6
Nr. Speed	-	1	1
Supply	Hz	220/240-1F-50	220/240-1F-50
Max consumption	A	4,5	2,2
Nominal Electrical Power	W	660	329
Nominal Mechanical Power	W	550	250
Sound Power	(LWA) / dB(A)	81	72
Temperature range	°C	-25 / +60 °C	-25 / +60 °C
Protection grade	-	IP 54	IP 54
A	mm	500	550
B	mm	522	575
C	mm	550	600
D	mm	426	479
E	mm	454	504
F	mm	107	104
G	mm	147	177
L	mm	268	294
K	mm	303	330
Weight	kg	29	33



EVCL 10/10 550W - EVCL 12/12 750 W





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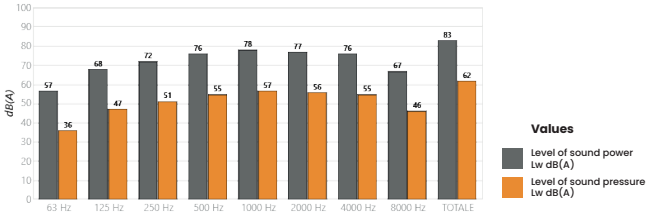

Frequency	Lw dB(A)	Lp dB(A)
63 Hz	57	36
125 Hz	68	47
250 Hz	72	51
500 Hz	76	55
1000 Hz	78	57
2000 Hz	77	56
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TOTALE	83	62

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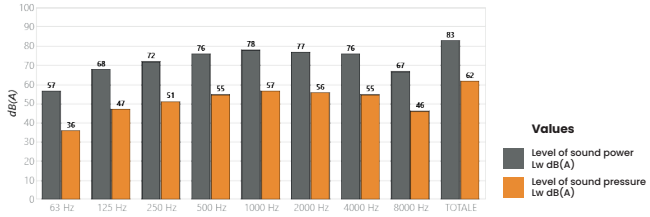
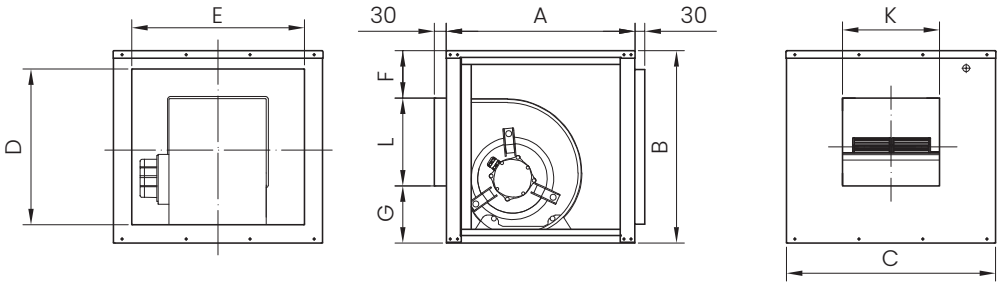


Frequency	Lw dB(A)	Lp dB(A)
63 Hz	57	36
125 Hz	68	47
250 Hz	72	51
500 Hz	76	55
1000 Hz	78	57
2000 Hz	77	56
4000 Hz	76	55
8000 Hz	67	46
TOTALE	83	62

	Measure Unit	EVCL 10/10 - 550W	EVCL 12/12 - 750W
Nr. of Poles	-	4	6
Nr. Speed	-	1	1
Supply	Hz	220/240-1F-50	220/240-1F-50
Max consumption	A	4,5	6
Nominal Electrical Power	W	789	887
Nominal Mechanical Power	W	550	750
Sound Power	(LWA) / dB(A)	81	81
Temperature Range	°C	-25 / +60 °C	-25 / +60 °C
Protection Grade	-	IP 54	IP 54
A	mm	550	650
B	mm	575	650
C	mm	600	700
D	mm	479	554
E	mm	504	604
F	mm	104	105
G	mm	177	198
L	mm	294	347
K	mm	330	392
Weight	kg	34	48

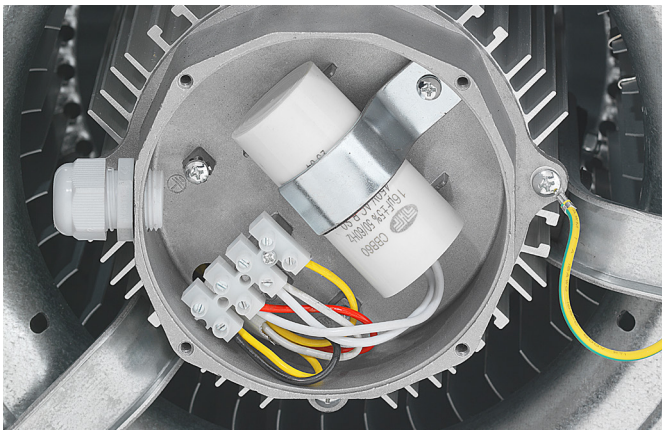


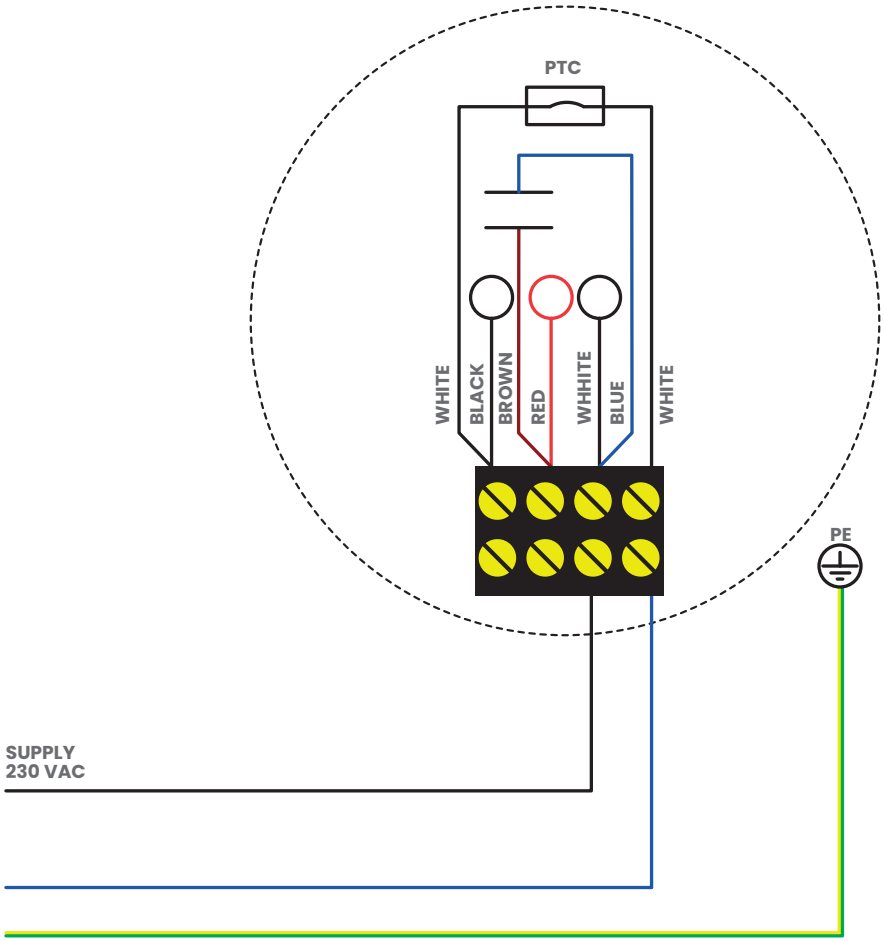
DIRECT CONNECTION

1) Open the access panel and reach the motor terminal box;

2) Connect the terminal box by routing the cable through the provided cable glands;

3) For cable sizing, check the fan's maximum current consumption indicated on the label and in the technical data;





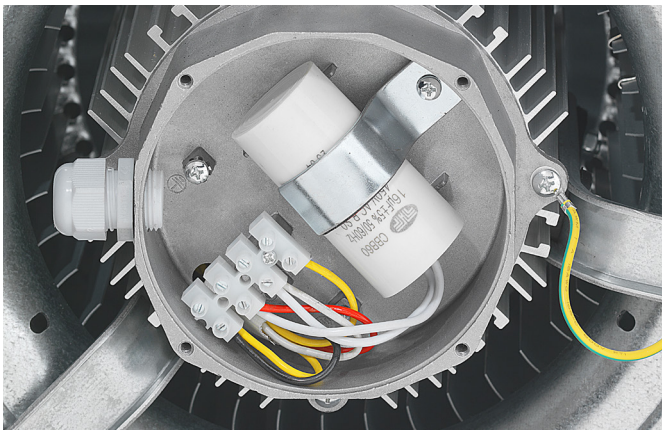
Connections must be carried out by qualified personnel. Before proceeding, make sure the unit is disconnected from the power supply.

CONNECTION WITH REGULATOR

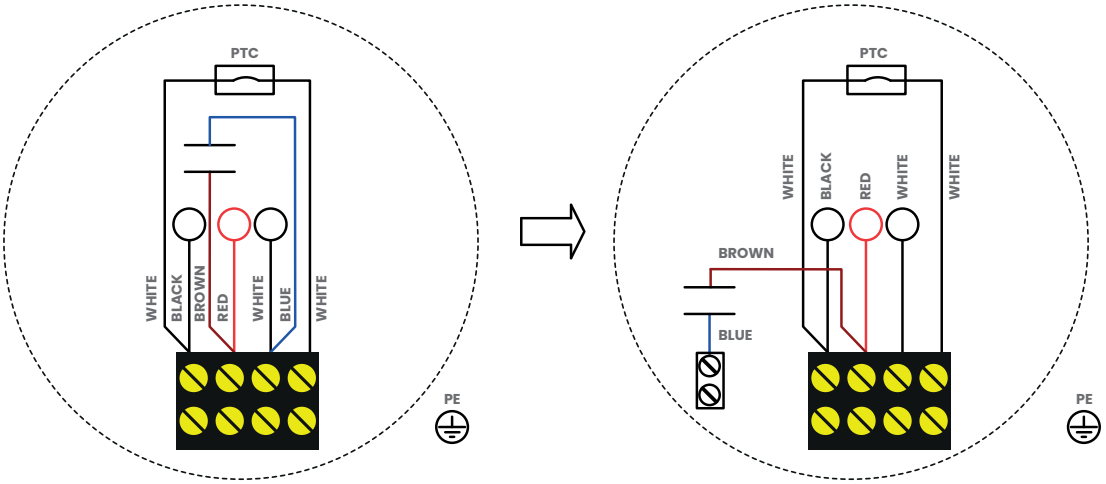
1) Open the access panel and reach the motor terminal box;

2) Connect the terminal box by routing the cable through the provided cable glands;

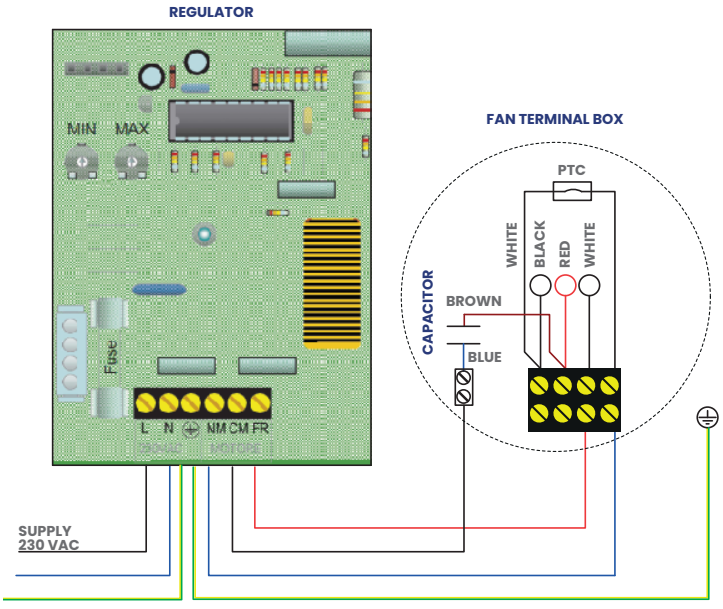
3) Before proceeding with the connection, modify the terminal box as shown in the diagram by disconnecting the capacitor wire connected to terminal **2:**



4) Proceed to connect as in the scheme:



5) For cable sizing, check the fan's maximum current consumption indicated on the label and in the technical data;

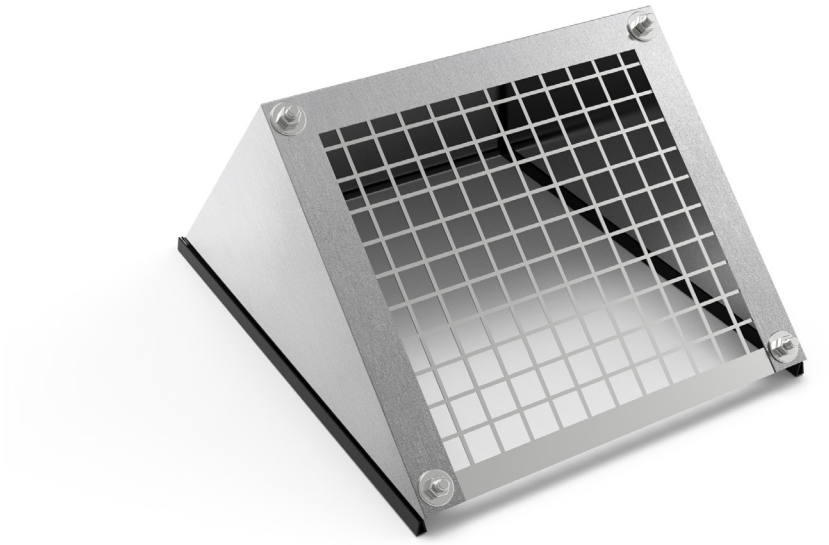


Connections must be carried out by qualified personnel. Before proceeding, make sure the unit is disconnected from the power supply.

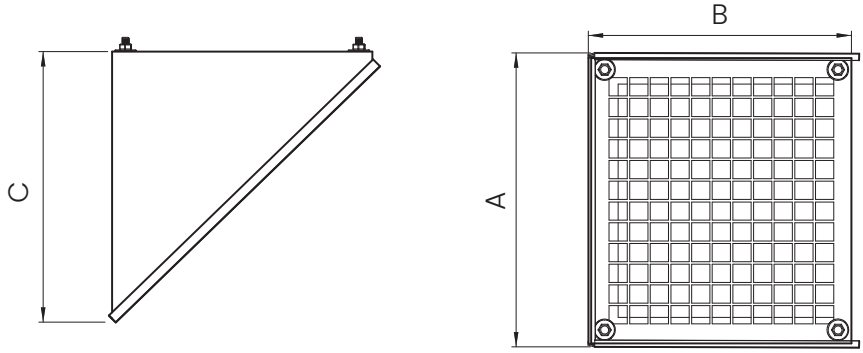
ACCESSORIES

HOOD WITH BIRD MESH C- EVC

The grilled weather hood is a terminal designed to protect air intake and exhaust openings in ventilation systems. Made of galvanized or painted sheet steel, it is equipped with anti-cut rubber trim, front grille, and rain protection profile to prevent the direct entry of water, leaves, and foreign objects. It ensures proper airflow and reliable protection against atmospheric agents, making it ideal for outdoor installations.



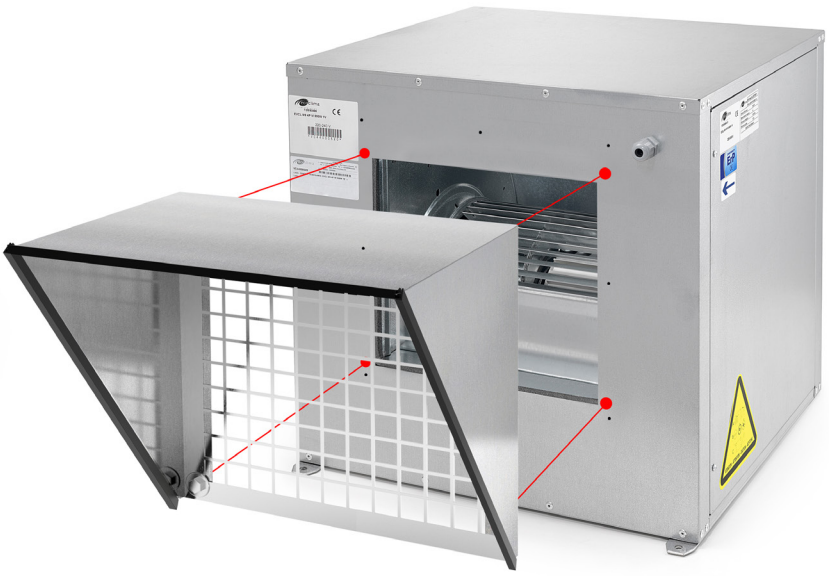
	Measure Unit	EVCL 7/7 80W	EVCL 7/7 150 W	EVCL 9/9 550W	EVCL 10/10 250 W	EVCL 10/10 550W	EVCL 12/12 750 W
A	mm	315	315	390	420	420	490
B	mm	295	295	350	380	380	435
C	mm	300	300	300	300	300	300



INSTALLATION INSTRUCTIONS HOOD WITH BIRD MESH

STEP 1 - Remove the flange by removing the fixing rivets.

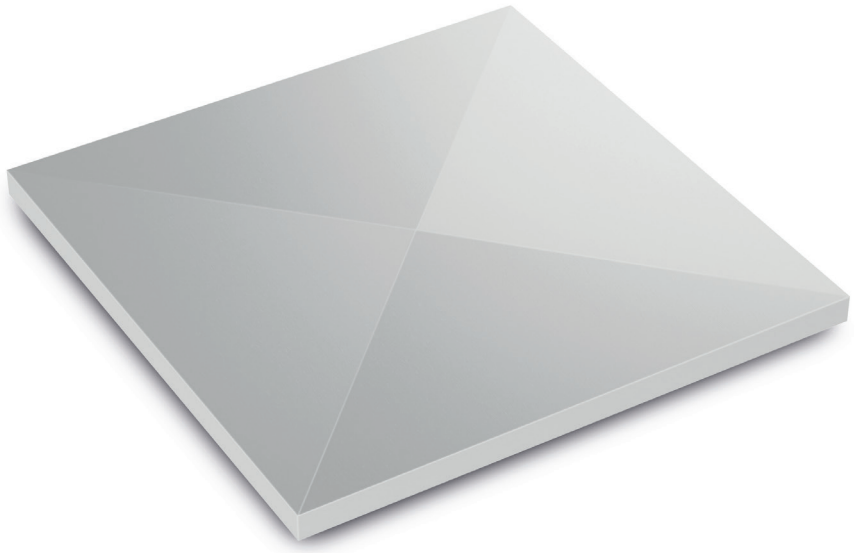
STEP 2 - Mark the holes on the supply air sheet metal panel. (DOOR HOLES).



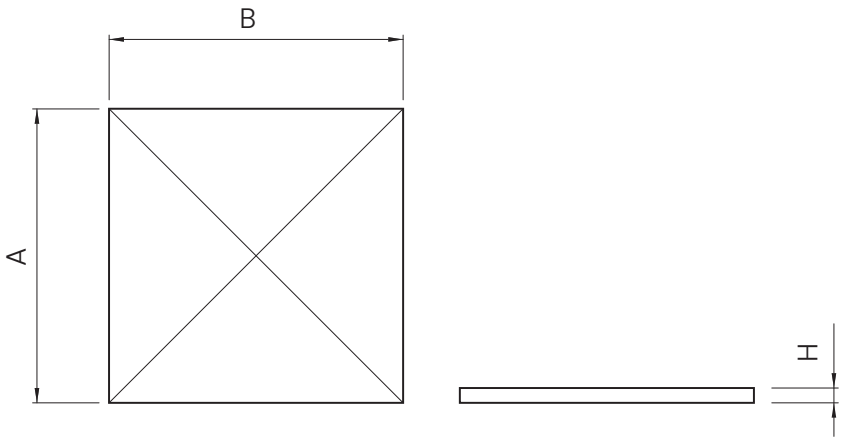
STEP 3 - Install the hood with mesh.

ROOF PROTECTION T- EVC

The weather protection roof is a durable protective cover designed for the outdoor installation of ventilated cabinet units. Made of galvanized sheet steel with a thickness of 5/10 mm, it provides excellent protection against rain and atmospheric agents, helping to preserve the unit's efficiency and durability over time, even in harsh weather conditions.

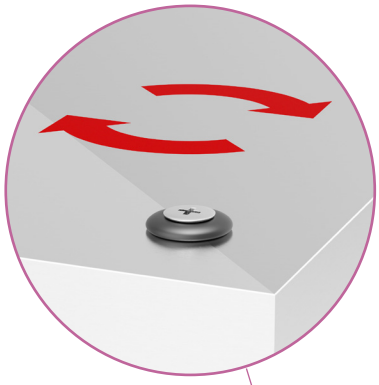


	Measure Unit	EVCL 7/7 80W	EVCL 7/7 150 W	EVCL 9/9 550W	EVCL 10/10 250 W	EVCL 10/10 550W	EVCL 12/12 750 W
A	mm	505	505	605	605	605	755
B	mm	505	505	605	605	605	755
C	mm	25	25	25	25	25	25
Weight	kg	2,34	2,34	3,32	3,32	3,32	4,95



INSTALLATION INSTRUCTIONS
ROOF PROTECTION

STEP 1 - Position the roof on the top of the EVCL .



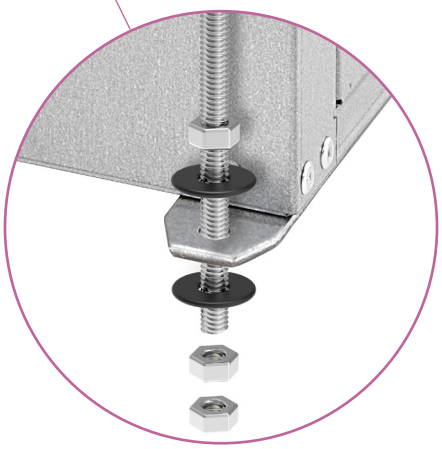
STEP 2 - Drill the steel sheet in the 4 corner
insert and tight the screw
the their washer
securing the roof in position.

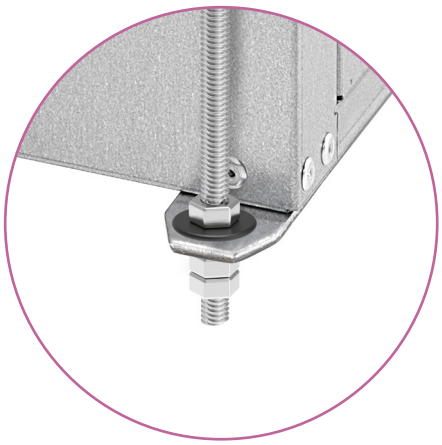
THREADED BARS EBF

M8 threaded rod, 2000 mm long, made of galvanized steel.

The unit is equipped with 4 mounting feet with fixing holes; for suspended installations, the EBF threaded rod can be used.

Bolt and washer not included.





CODE

How to order

EVCL	7/7	80	6P
↓	↓	↓	↓
EVCL	**Version**	**Power (W)**	**Nr. of Poles**
Fan box	7/7	80	4
	7/7	150	6
	9/9	550	
	10/10	250	
	10/10	550	
	12/12	750	

ecoclima

AIR EVOLUTION

Head quarter

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