



Vertical Blowing Roof Fan Model DVN-EC

The DVN-EC roof fan features 3D-profiled backward-curved blades, driven by a high-efficiency and energy-saving EC motor. These fans are ideal for demanding applications such as kitchen extraction, process air systems, and industrial ovens, and can operate continuously at temperatures up to 120°C.

They move large volumes of air at medium pressure without producing excessive noise. The casing, made of seawater-resistant ALMg 3 aluminum with a galvanized steel inner frame, ensures durability and wear resistance. The combination of the casing and motor construction minimizes maintenance and allows for long, uninterrupted operation.

The fans are designed for high performance, minimal power consumption, and maximum efficiency. An adhesive sealing strip and mounting materials are included as standard. The work switch is pre-installed.

General data

Max. airflow	4.945	m ³ /h
Impeller speed	1.511	rpm
Input power	0,642	kW
Voltage (nominal)	1x230/50	V/Hz
Input current	4,75	A
Enclosure class, motor	55	IP
Weight	30,8	KG
Max. Med. Temp.	120	°C
Sound pressure level ±2*	64	dB(A)

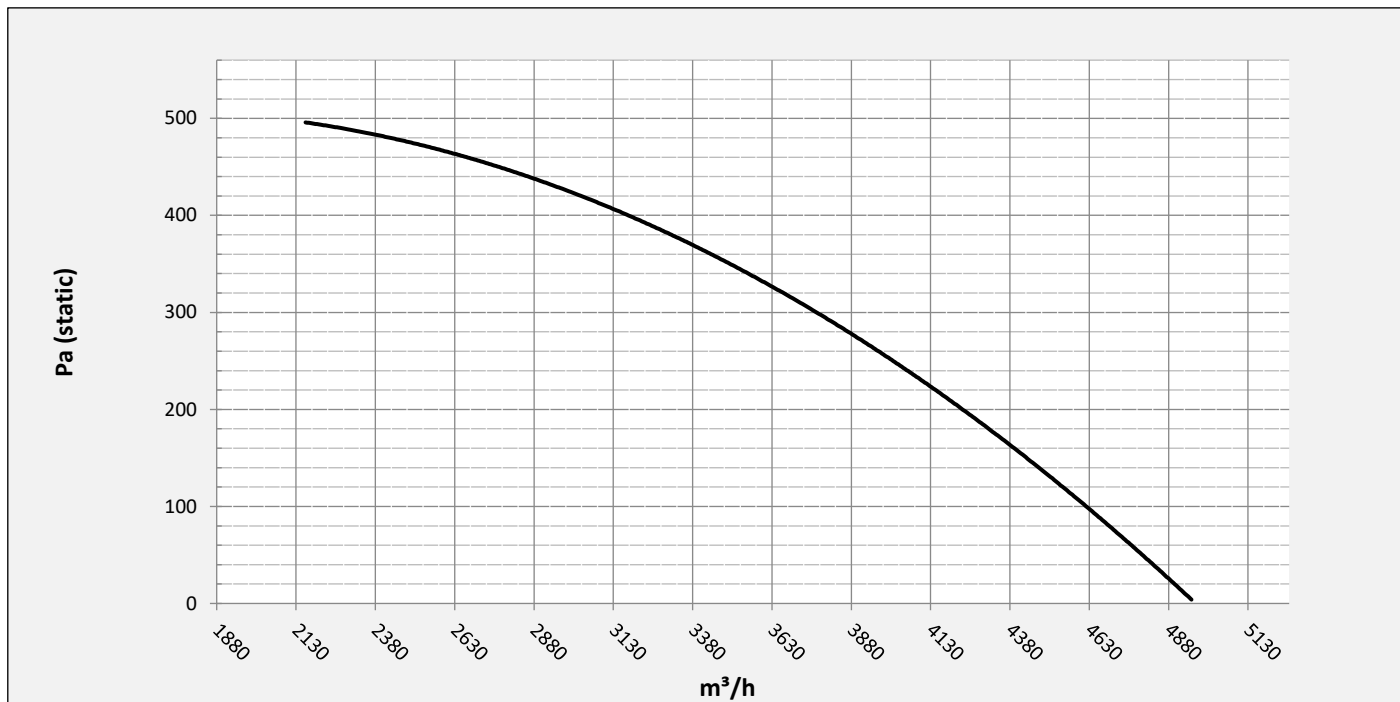
*(at 4m near the fan with inlet
and outlet ducted, in free field)*

Options

- Flat roof socket
- Silencer for use below roof
- Silencer for use above roof
- Gravity Louvre shutter
- Roof duct
- Gravity Back draft damper
- Roof socket for inclined roof
- Roof socket for inclined roof / lead slab
- Speed control

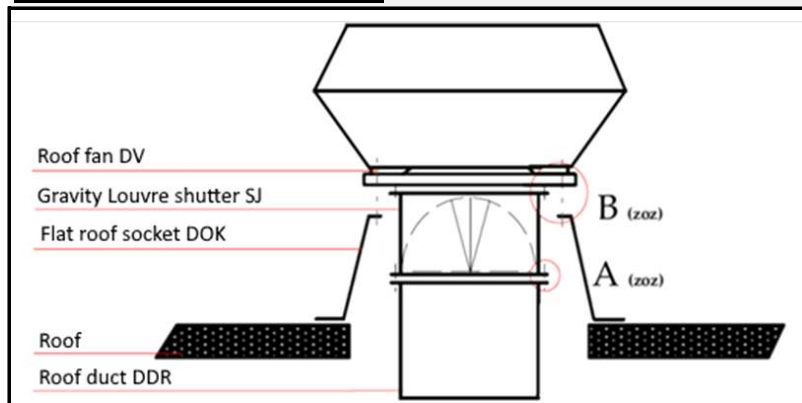
DVN 400EC

Graphe DVN 400EC @ 1511rpm @ 15°C @ 0m

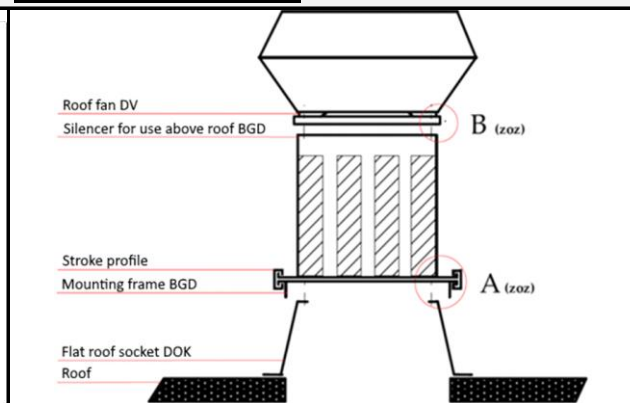


Assembly examples

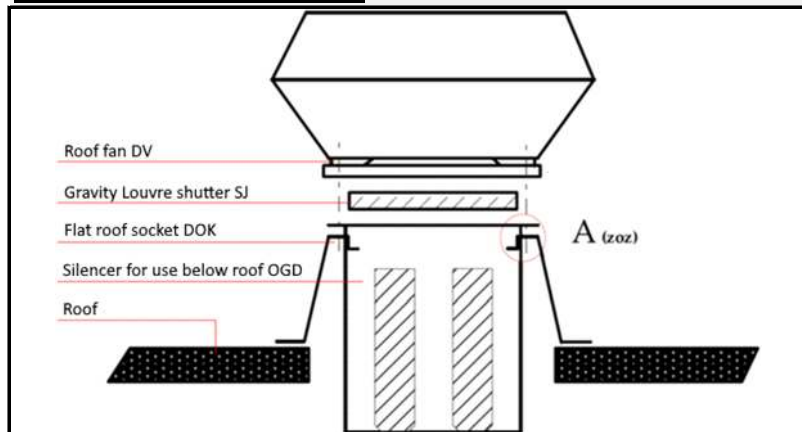
Roof fan + VKS + DOK + DDR



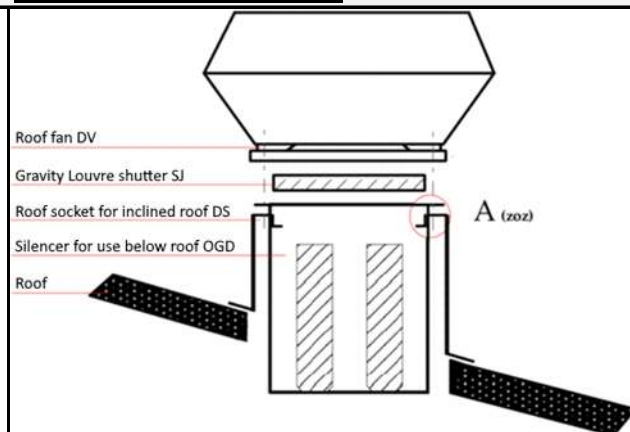
Roof fan + BGD + DOK



Roof fan + SJ + DOK + OGD

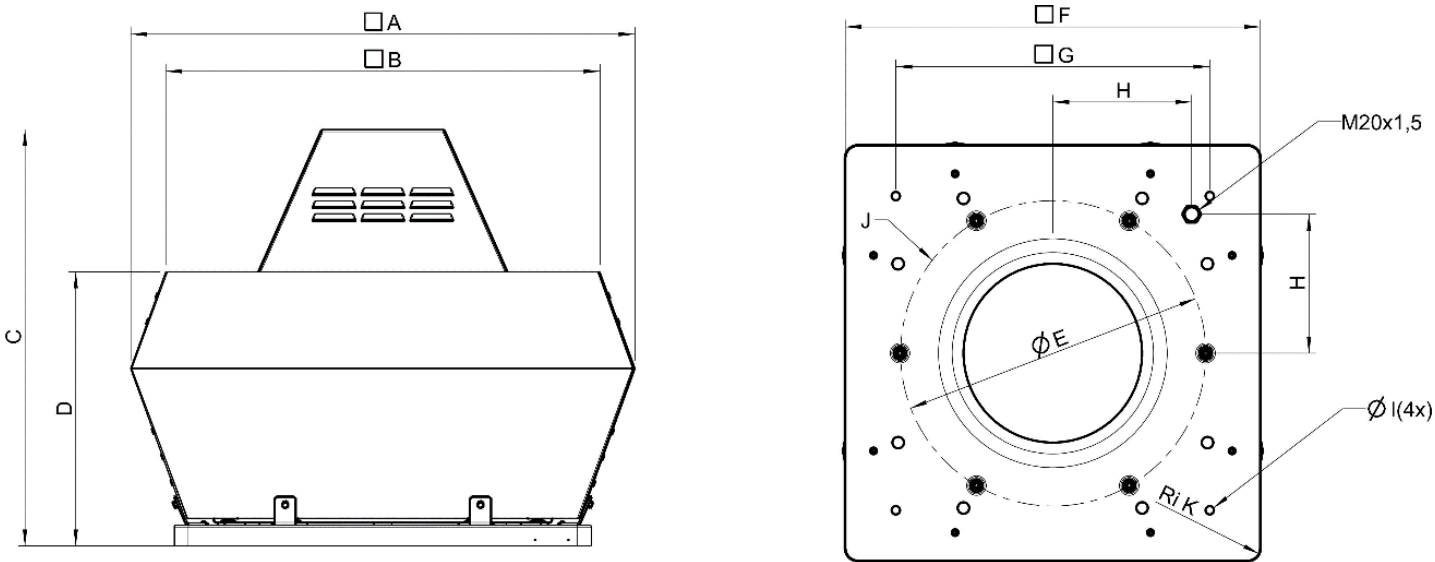


Roof fan + SJ + DS + OGD



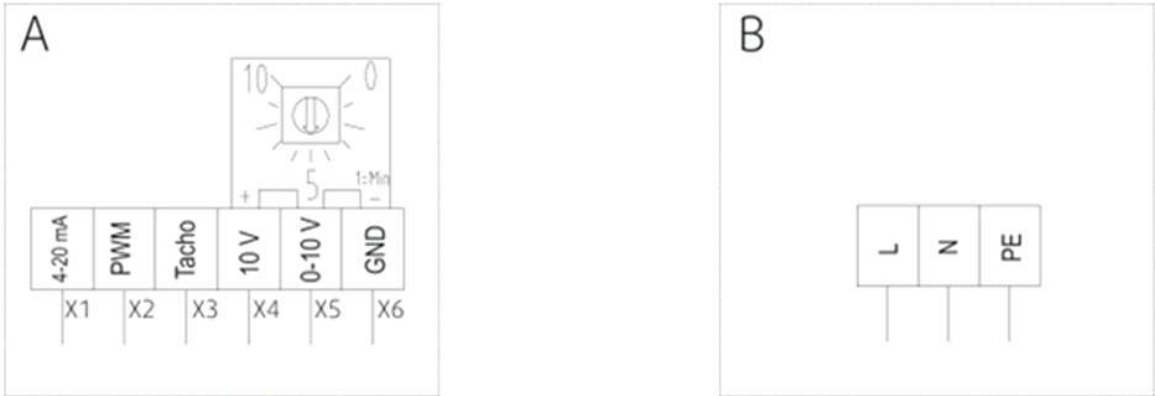
DVN 400EC

Dimensions DVN 400EC



A	B	C	∅D	E	F	G	H	∅I	J	K	L	M
720	618	596	390	438	595	450	200	12 (4x)	∅9 (6)	18,5	--	--

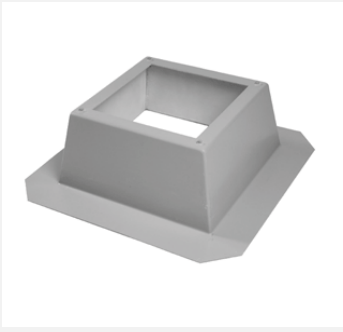
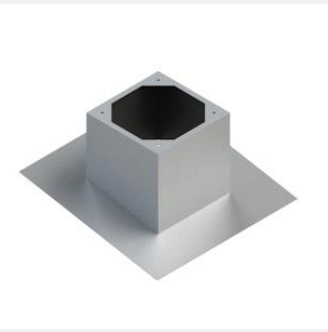
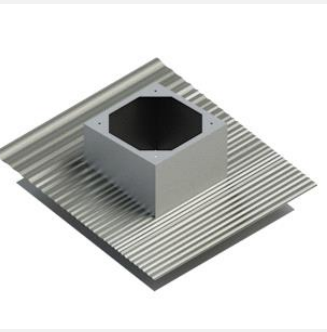
Wiring



A		Terminal box (control)	
4–20 mA	X1	red	DC current [4 — 20 mA]
PWM	X2	brown	PWM- signal input with 80 Hz and voltage 10 to 24 Vpk. When the duty cycle is changed from 10 to 95% the motor changes from 10 to 95% the motor changes speed from 0% to 100% of the maximal speed. Start fire mode: apply +10V to PM for longer than 5 seconds, e.g. by bridging against +10V (X4). Attention! in fire mode, all motor protection functions are disabled!
Tacho	X3	white	Tacho (details, see manual)
10 V	X4	yellow	10 V DC [max. 25 mW or 2.5 mA]
0–10 V	X5	blue	DC voltage [2 — 10 V]
GND	X6	black	Common (Ground)
B		Terminal box (mains)	
L		brown	
N		blue	
PE		green-yellow	

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Accessories for DVN 400EC

		
VKS 355/400 + DDR 355-500	OGD 355/400 + SJ 355/400	VKS 355/400
		
DOK 355/400	OGD 355/400	BGD 355/400
		
DDR 355-500	DS 355/400	DSL 355/400
		
MTP 10		