



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	7.172	m ³ /h
Impeller speed	1.510	rpm
Input power	1,14	kW
Voltage (nominal)	1x230/50	V/Hz
Input current	8,87	A
Enclosure class, motor	55	IP
Weight	52,5	KG
Max. Med. Temp.	120	°C
Sound pressure level ±2*	68	dB(A)

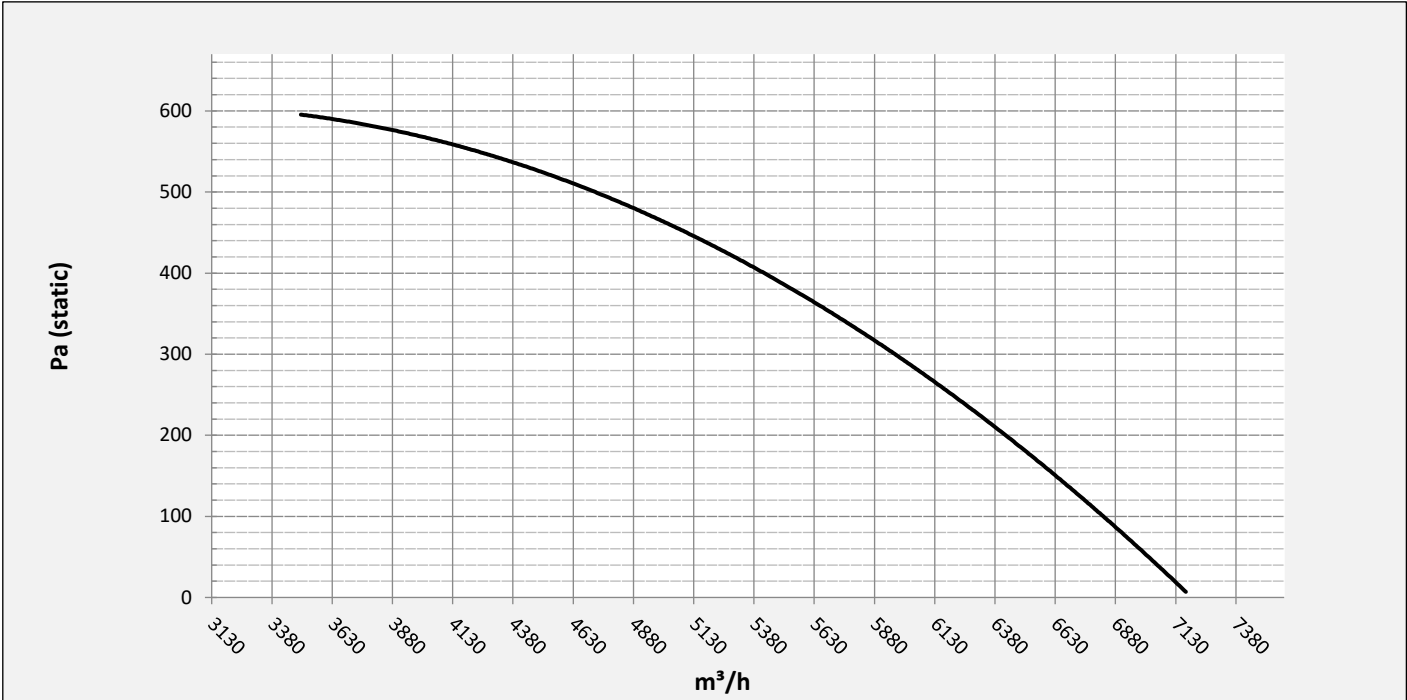
*(at 4m near the fan with inlet
and outlet ducted, in free field)*

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

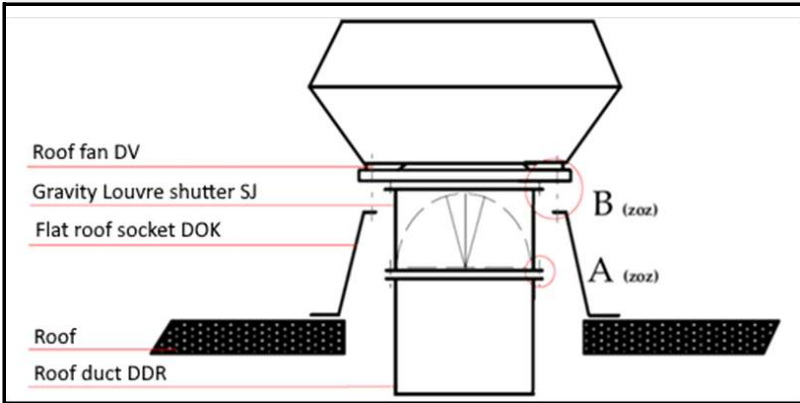
DVN 450EC-K

Graphe DVN 450EC-K @ 1510rpm @ 15°C @ 0m

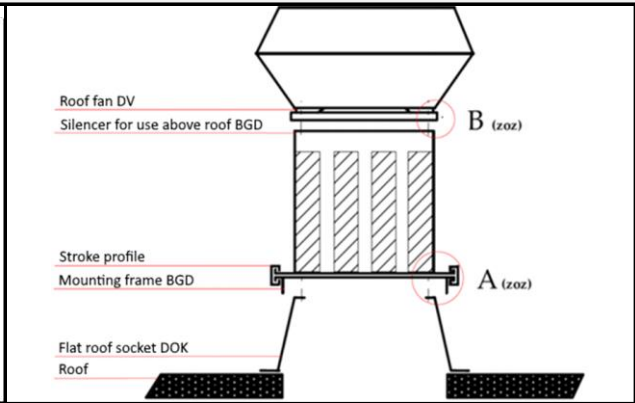


Assembly examples

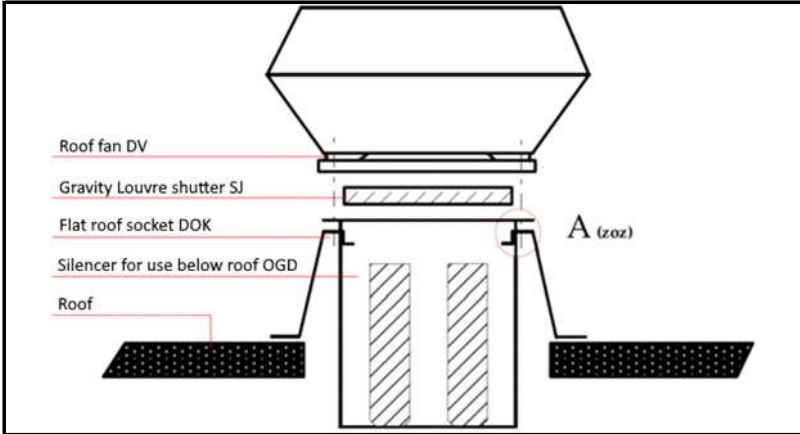
Roof fan + VKS + DOK + DDR



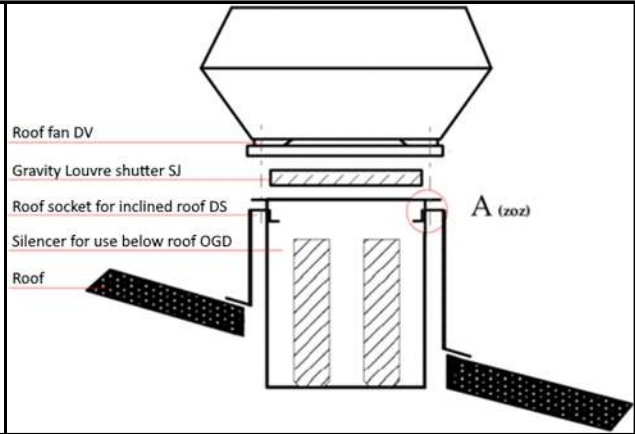
Roof fan + BGD + DOK



Roof fan + SJ + DOK + OGD

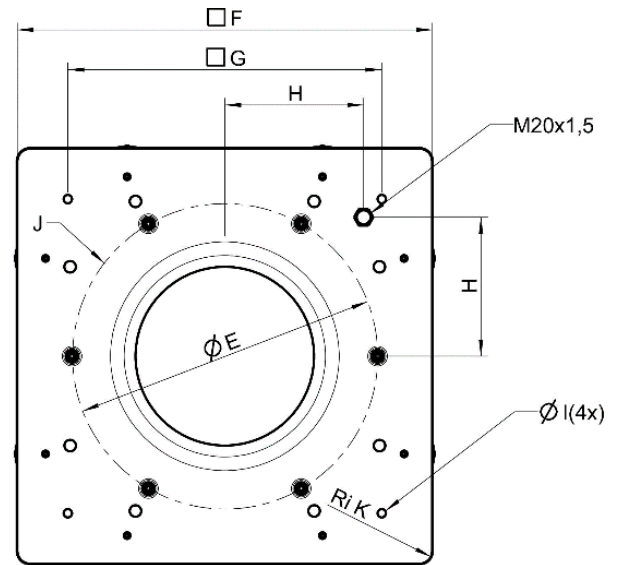
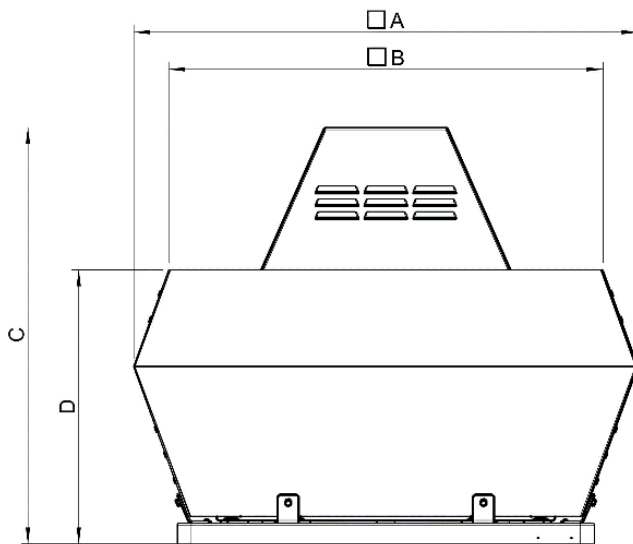


Roof fan + SJ + DS + OGD



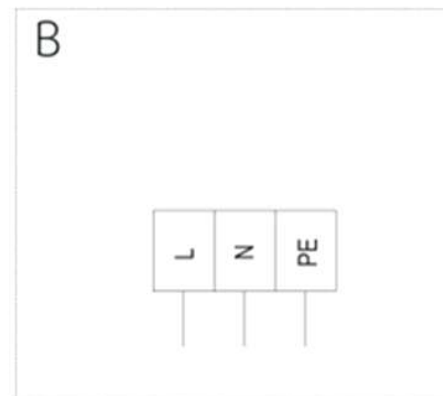
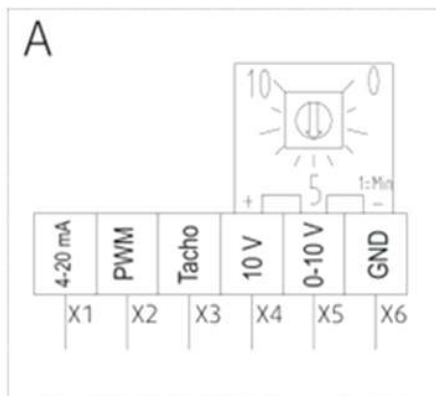
DVN 450EC-K

Dimensions DVN 450EC-K



A	B	C	ØD	E	F	G	H	ØI	J	K	L	M
900	730	676	465	438	665	535	237	12 (4x)	Ø9 (6)	18,5	--	--

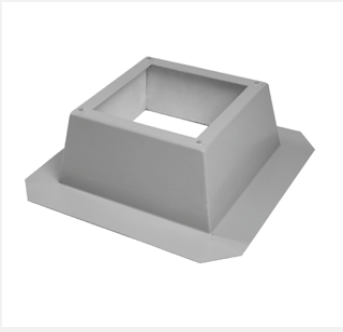
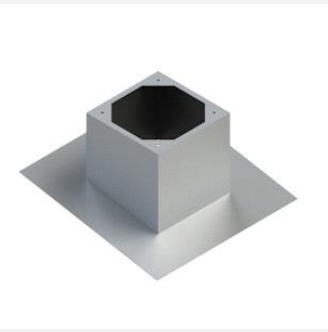
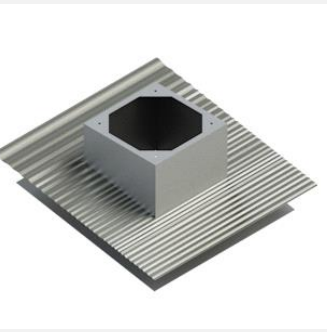
Wiring



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	

DVN 450EC-K

Accessories for DVN 450EC-K

		
VKS 450/500 + DDR 355-500	OGD 450/500 + SJ 450/500	VKS 450/500
		
DOK 450/500	OGD 450/500	BGD 450/500
		
DDR 355-500	DS 450/500	DSL 450/500
		
MTP 10		