

DVEX 450D4 ROOF FAN ATEX

Item no. 32816

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Description

- Certified according to ATEX
- Speed-controllable
- Integral thermistors (PTC *)

The DVEX models have impellers with backward-curved blades and external rotor motors. The casing is made from aluminium and the base frame from galvanised steel, with a copper inlet cone.

To protect the motor from overheating these fans have integral thermistors (PTC) with external leads which must be connected to the U-EK230E motor protection relay.

From size 315 up to 450 the tilting device FTG is premounted, at 560 and 630 available as accessory.

Explosions proof version comply with EN 60079-0, 60079-7, EN 1127-1 and EN 13463-1. Improved safety in accordance with Ex e IIB T3.

* Positive Temperature Coefficient

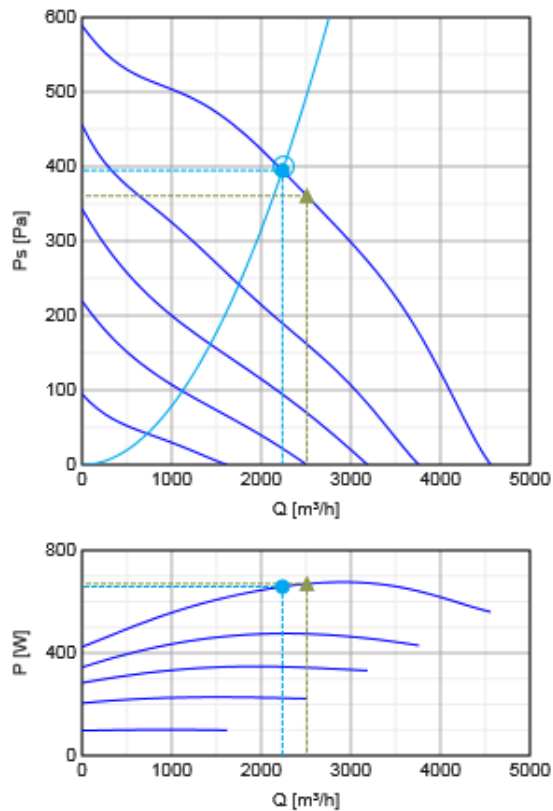


Technical parameters

Voltage	400	V
Frequency	50	Hz
Phase	3	~
Power	720	W
Current	2,46/1,42	A
Max. airflow	4550	m³/h
Fan impeller speed	1360	r.p.m.
Temperature range, ambient and duct	-20...+40	°C
Sound pressure level at 4 m	57	dB(A)
Sound pressure level at 10 m	49	dB(A)
Weight	40	kg
Insulation class, motor	F	
Enclosure class, motor	44	IP
Motor protection	U-EK230E	
Certificate	SP 07ATEX3132X	
Explosion proof	II 2G c Ex e IIB T3	

Performance

Diagrams



Hydraulic data

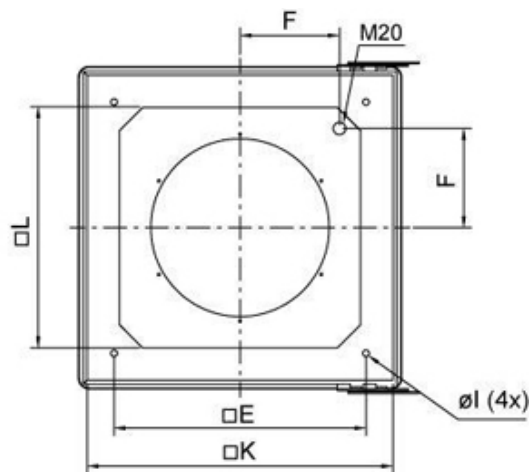
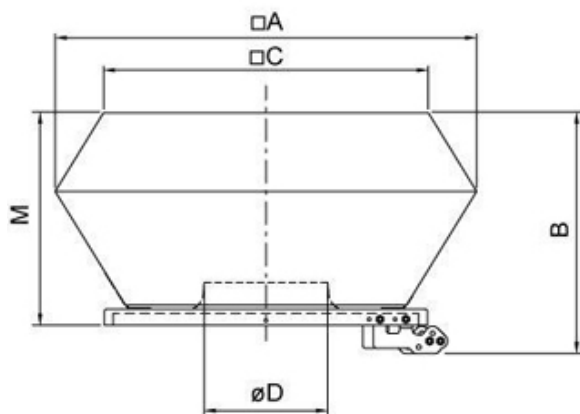
	Required point		Working point						
	Q [m³/h]	Ps [Pa]	Q [m³/h]	Ps [Pa]	P [W]	n [r.p.m.]	I [A]	SFP [kW/m³/s]	U [V]
Max efficiency			▲ 2509	▲ 361	▲ 670	1359	1.25	0.961	400
User	○ 2250	○ 400	● 2236	● 395	● 659	1362	1.24	1.06	400

Acoustic data

Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	58	64	71	71	68	66	58	52	76
Outlet	dB(A)	58	67	74	75	75	70	62	53	80

Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	58	65	71	71	68	66	58	52	76
Outlet	dB(A)	58	67	74	75	75	70	62	53	80

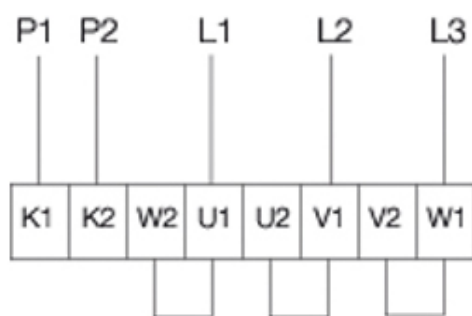
Dimensions



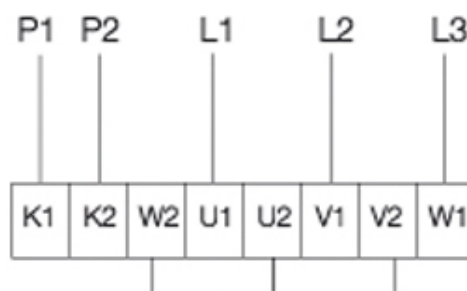
	□A	B	□C	øD	□E	F	øI	□K	□L	M
DVEX 450	900	517	730	289	535	237	12	636	490	465

Wiring

230V3~ (D)



400V3~ (Y)



Accessories

Electric accessories

Ex e-Terminal box 1,5/6mm² 32A (2704)
 R-DK4 KT Transformer (302568) (6051)
 REV-3POL ATEX 11kW-25A ON/OFF (36414)
 REV-5POL/07 ON/OFF (33980)
 RTRD 2 Speed Cont. Systemair (5941)
 RTRDU 2 Speed contr. Systemair (5945)
 U-EK230E EX Motorprotec. (30199)

Accessories

ASF 355-500 inlet flange DVS (9569)
 ASK 450/500 inflow box SSD (300907)
 ASS-EX 355-500 flex. con. DVEX (4831)
 FDS 450/500 flat roof socket (9551)
 FDS-L 450/500 flat roof socket (95282)
 SSD 450-500 socket silencer (9563)
 TDA DV 450-500 Adapter (301394)
 TG 640-1230 Roof curb (1728)
 TG 640-800 Roof curb (1729)
 VKS-EX 355-500 Back draft da. (8484)

Documentation



(ATEX Fans IMO CE .pdf, 879kB)



(SP07ATEX3132X_suppl_1_DVEX450D4.pdf, 523kB)



[\(2012-01 EG-Konformitaetserklaerung DVEX DE-EN.pdf, 148kB\)](#)



[\(IMO ATEX-2013-10_312435.pdf, 3MB\)](#)