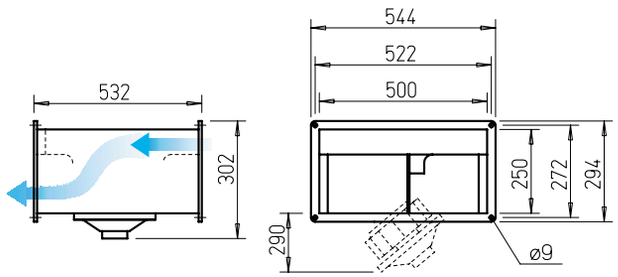
KV 225



Also available in version:

Dimensions KV 225



Dim. in mm

Centrifugal rectangular duct fans with forward curved impeller blades. Retractable motor-impeller unit.

- Low-noise impeller in optimised volute casing for high delivery pressures.
- Compact, flat design for versatile use in extract air and intake air systems in commercial and industrial buildings.

Description

Casing
Double-sided standardised rectangular duct flange profiles, made of galvanised steel sheet, space-saving design.

- Particularly easy to service (cleaning) due to retractable motor-impeller unit.

Impeller
Forward curved impeller made of galvanised steel, good level of efficiency, low noise, aerodynamically optimised volute casing; inlet via nozzle.

Drive
Through maintenance-free external rotor motor on which the impeller is mounted. Closed design, IP44. Winding with moisture proof coating. Ball bearing mounted. Dynamic balancing and flexible motor mount for low-vibration and low-noise operation.

Electrical connection
Terminal box (IP55 for 3~ or 44 for 1~ types) mounted to external cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor protection circuit breaker.

Power control
Possible through voltage reduction by means of 5-step transformer or electronic (continuously variable) controller. The performances at corresponding voltages are shown in the performance diagram.

Noise
The total level and range are specified above the performance diagram for:
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

The inlet side sound power level is also specified above the control voltages in the performance diagram.
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Installation
Installation possible in any position. Note accessibility/swivelling range.

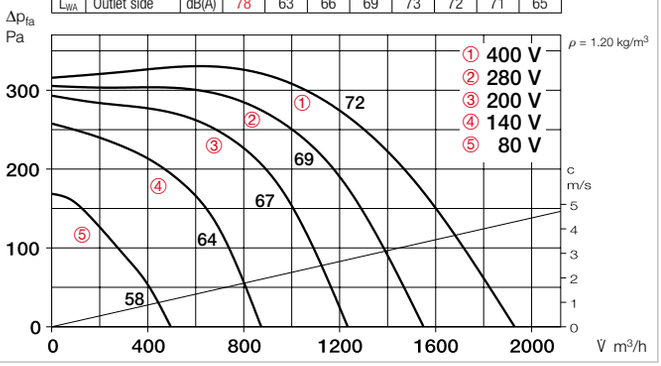
Explosion-proof design
Thermal motor protection through integrated PTC thermistors which must be connected to a tripping unit MSA. Also approved for speed control, whereby the minimum voltage of 100 V must be respected.

Reference	Page
Selection table	439
Techn. description	438
Planning information	14 ff.
Modular system	436

Type	Ref. no.	Flow rate max.	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temperature at		Wgt net aprx.	Speed controller 5-step				Motor protection circuit breaker for connection of built-in thermal contacts	
								Rat. vol.	Control		without motor prot. circ. brea.		with motor prot. circ. brea.			
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Three-phase current motor, 230/400 V, 50 Hz, protection category IP44																
KVD 225/4/50/25	05679	1950	1270	43	0.54	1.6/0.93	0860	45	45	17	**TSD 1.5**	01501	**RDS 2**	01315	**MD**	05849
Ex **Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 400 V, 50 Hz, protection category IP44**																
KVD 225/4/50/25 Ex	06810	1900	1280	43	0.48	0.82	0899	40	40	17	**TSD 1.5**	01501	—	—	**MSA**	01289

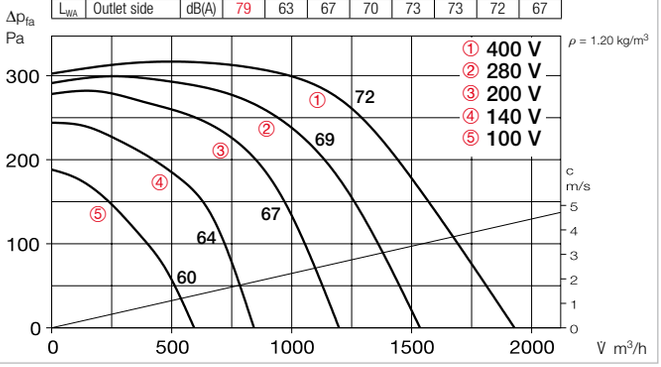
Performance curves KVD 225/4/50/25

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	47	56	56	57	55	51	44
L_{WA}	Inlet side	dB(A)	72	64	66	62	63	65	64	58
L_{WA}	Outlet side	dB(A)	78	63	66	69	73	72	71	65



Performance curves KVD 225/4/50/25 Ex

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	43	56	57	58	54	49	43
L_{WA}	Inlet side	dB(A)	73	65	66	62	63	65	65	60
L_{WA}	Outlet side	dB(A)	79	63	67	70	73	73	72	67



Accessory details	Page
Shutters and weather prot. grille	482, 563 ff.
Filters, heating elements and silencers	483 ff.
Temperature control systems for heating elements	489, 494 f.
Speed controllers and motor protection circuit breakers	601 ff.

Accessories

External wall shutter
VK 50/25 Ref. no. 00875
Automatic overpressure shutter made of light grey plastic.



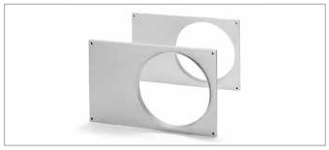
Weather protection grille
WSG 50/25 Ref. no. 00110
Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation
JVK 50/25 Ref. no. 06911
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting
FSK 50/25 Ref. no. 00833
For cost-effective integration of rectangular duct fans in round duct systems with Ø 250 mm.



Flexible connector
VS 50/25 Ref. no. 05695
Flexible rectangular duct connector with double-sided flange frame.
– for explosion-proof fans
VS 50/25 Ex No. 00265



Counter flange
GF 50/25 Ref. no. 06920
Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Rectangular duct silencer
KSD 50/25-30 No. 08729
For outlet and inlet side insertion in the rectangular duct system.



Rectangular duct air filter
KLF 50/25-30 Coarse 70%* 08721
KLF 50/25-30 ePM1 50%* 08645
With large bag filter. Galvanised steel sheet casing with double-sided flanges.



Electric heating element [1)]
EHR-K 8/50/25-30 No. 08704
EHR-K 24/50/25-30 No. 08705
Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.



Temperature control system for electric heating element [1)]
EHSD 16 Ref. no. 05003



Warm water heating element
WHR 2/50/25-30 No. 08784
WHR 4/50/25-30 No. 08785
For installation in rectangular duct system.



Temperature control system for warm water heating element
WHS HE Ref. no. 08319



* See product page 477 for detailed description.
[1)] Cannot be used for explosion-proof version.