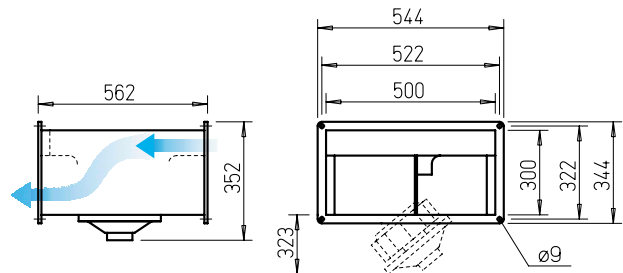


KV 250



Dimensions KV 250



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, radio interference-free. Dynamic balancing and flexible motor mount for low-vibration and low-noise operation.

■ **Electrical connection**

Terminal box (IP65) 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. 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.

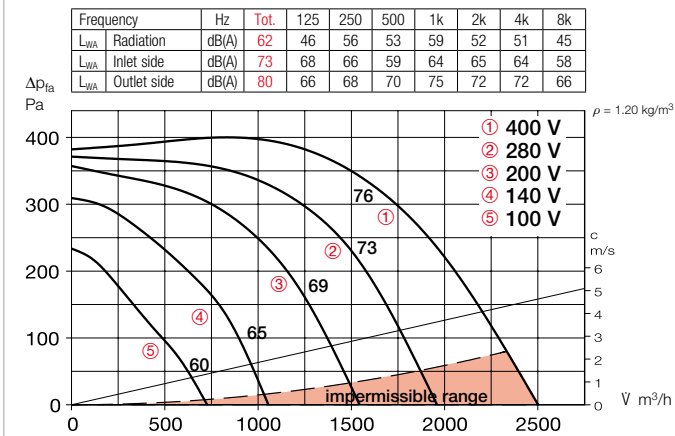
■ **Explosion-proof design**

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	431
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Modular system	428

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		
					kW	A		Rat. vol.	Control		kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
		V m ³ /h	min ⁻¹	dB(A) in 4 m			No.	+ °C	+ °C								
Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 400 V, 50 Hz, protection category IP44																	
KVD 250/4/50/30 Ex	06811	2300	1240	42	0.9	1.8	0899	40	40	21	TSD 3	01502	—	—	MSA	01289	

Performance curves KVD 250/4/50/30 Ex



Accessory details Page

Shutters and weather prot. grille	474, 555 ff.
Filters, heating elements and silencers	475 ff.
Temperature control systems for heating elements	481, 486 f.
Speed controllers and motor protection circuit breakers	593 ff.

Accessories

External wall shutter

VK 50/30 Ref. no. 00876

Automatic overpressure shutter made of light grey plastic.



Weather protection grille

WSG 50/30 Ref. no. 00111

Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation

JVK 50/30 Ref. no. 06912

Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting

FSK 50/30 Ref. no. 00837

For cost-effective integration of rectangular duct fans in round duct systems with Ø 315 mm.



Flexible connector

VS 50/30 Ex Ref. no. 00266

Flexible rectangular duct connector with double-sided flange frame.



Counter flange

GF 50/30 Ref. no. 06921

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.



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.