

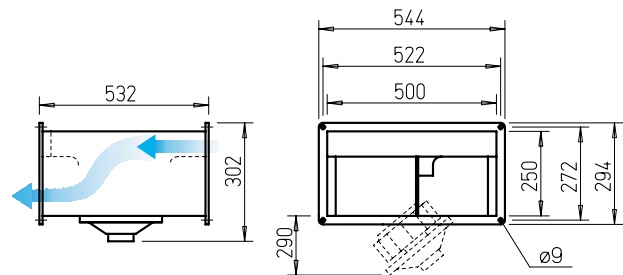
KV 225



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, radio interference-free. 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.

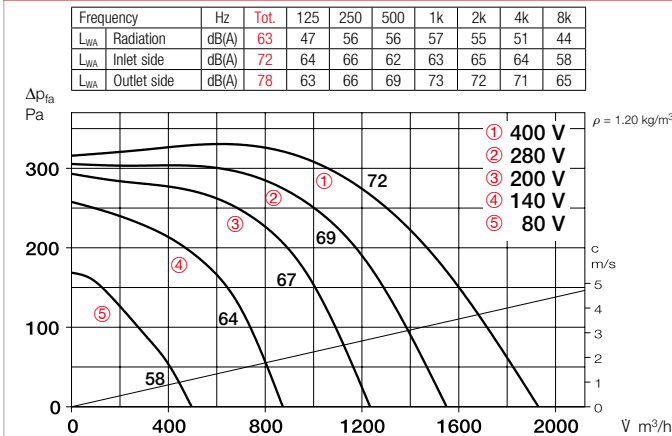
■ **Explosion-proof design**

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.

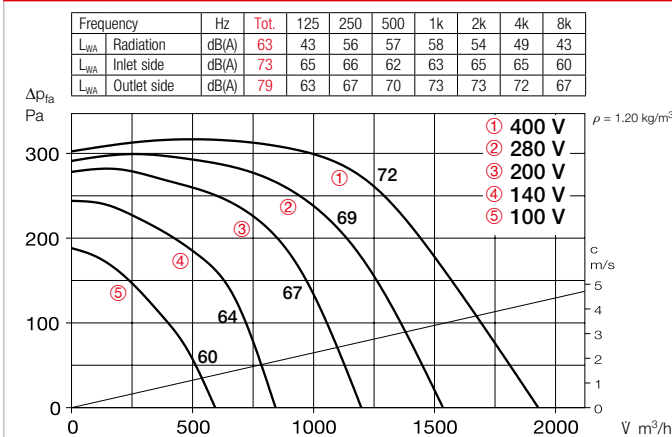
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Type	Ref. no.	Flow rate max.	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temperature at		Wgt net aprx.	Speed controller 5-step		Motor protection circuit breaker for connection of built-in thermal contacts	
					kW	A		Rat. vol.	Control		without motor prot. circ. bre.	with motor prot. circ. bre.		
		V m³/h	min⁻¹	dB(A) in 4 m			No.	+ °C	+ °C	kg	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
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	0.53	0.92	0899	40	40	17	TSD 1.5	01501	—	MSA

Performance curves KVD 225/4/50/25



Performance curves KVD 225/4/50/25 Ex



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
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Temperature control systems for heating elements	487, 492 ff.
Speed controllers and motor protection circuit breakers	599 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 element¹⁾

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 element¹⁾

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.

