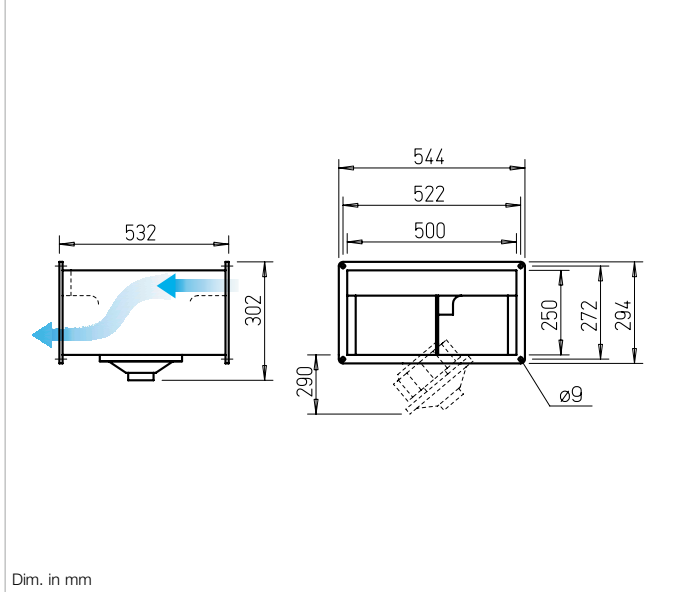


KV 225



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.

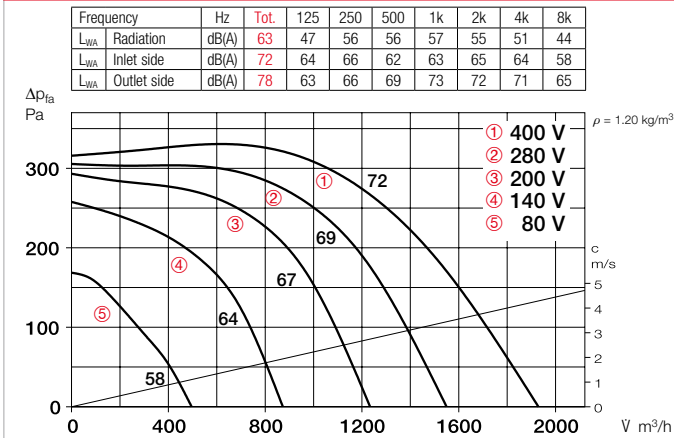
- **Drive**
Through maintenance-free external rotor motor on which the impeller is mounted. Closed design, IP44. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Dynamic balancing and flexible motor mount for low-vibration and low-noise operation.
- **Electrical connection**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

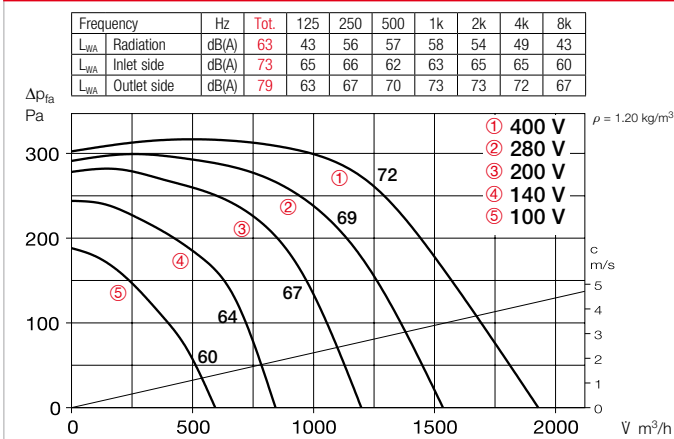
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Selection table	431
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Modular system	428

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		
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	Rat. vol. + °C		Control + °C	kg	without motor prot. circ. brea.	with motor prot. circ. brea.	Type	Ref. no.	Type
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 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



Performance curves KVD 225/4/50/25 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 50/25 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.