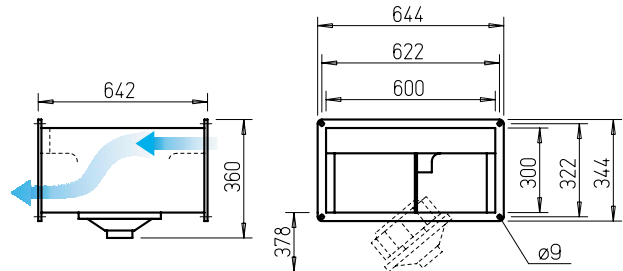


KV 280



Dimensions KV 280



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.

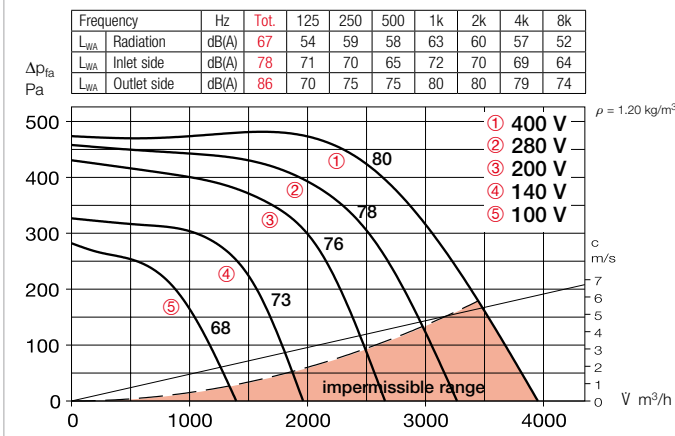
■ **Explosion-proof design**

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.

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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		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 230/400 V, 50 Hz, protection category IP44																	
KVD 280/4/60/30 Ex	06812	3450	1340	47	1.45	2.9	0899	40	40	34	TSD 5.5	01503	—	—	MSA	01289	

Performance curves KVD 280/4/60/30 Ex



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Temperature control systems for heating elements	487, 492 f.
Speed controllers and motor protection circuit breakers	599 ff.

Accessories

External wall shutter

VK 60/30 Ref. no. 00877

Automatic overpressure shutter made of light grey plastic.



Weather protection grille

WSG 60/30 No. 00112

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



Multi-leaf damper for rectangular duct installation

JVK 60/30 Ref. no. 06913

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



Fitting

FSK 60/30 Ref. no. 00834

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



Flexible connector

VS 60/30 Ex No. 00267

Flexible rectangular duct connector with double-sided flange frame.



Counter flange

GF 60/30 Ref. no. 06922

Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Rectangular duct silencer

KSD 60/30-35 No. 08730

For outlet and inlet side insertion in the rectangular duct system.



Rectangular duct air filter

KLF 60/30-35 Coarse 70%* 08722

KLF 60/30-35 ePM2.5 65%* 08646

With large bag filter. Galvanised steel sheet casing with double-sided flanges.



Warm water heating element

WHR 2/60/30-35 No. 08786

WHR 4/60/30-35 No. 08787

For installation in rectangular duct system.



Temperature control system for warm water heating element

WHS HE¹⁾ Ref. no. 08319

¹⁾ With heat output reduced to 2200 l/h for Type WHR 4/60/30-35.



* See product page 477 for detailed description.