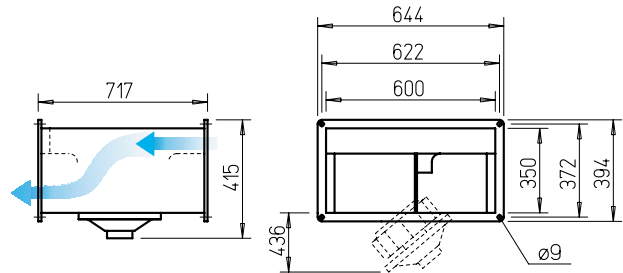


KV 315



Dimensions KV 315



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.

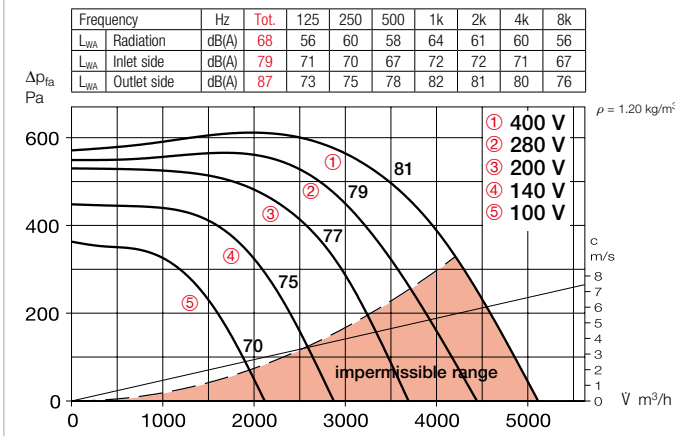
■ **Reference**

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| Planning information | 14 ff. |
| 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 without motor prot. circ. brea. | | Speed controller 5-step with motor prot. circ. brea. | | 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 | Type | Ref. no. | Type | Ref. no. | Type |
| Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 230/400 V, 50 Hz, protection category IP44 | | | | | | | | | | | | | | | | |
| KVD 315/4/60/35 Ex | 06813 | 4200 | 1370 | 48 | 2.0 | 4.0 | 0899 | 40 | 40 | 42 | TSD 5.5 | 01503 | — | — | MSA | 01289 |

Performance curves KVD 315/4/60/35 Ex



Accessory details Page

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

Accessories

External wall shutter

VK 60/35 Ref. no. 00878

Automatic overpressure shutter made of light grey plastic.



Weather protection grille

WSG 60/35 No. 00113

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



Multi-leaf damper for rectangular duct installation

JVK 60/35 Ref. no. 06914

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



Fitting

FSK 60/35 Ref. no. 00835

For cost-effective integration of rectangular duct fans in round duct systems with Ø 355 mm.



Flexible connector

VS 60/35 Ex No. 00268

Flexible rectangular duct connector with double-sided flange frame.



Counter flange

GF 60/35 Ref. no. 06923

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.