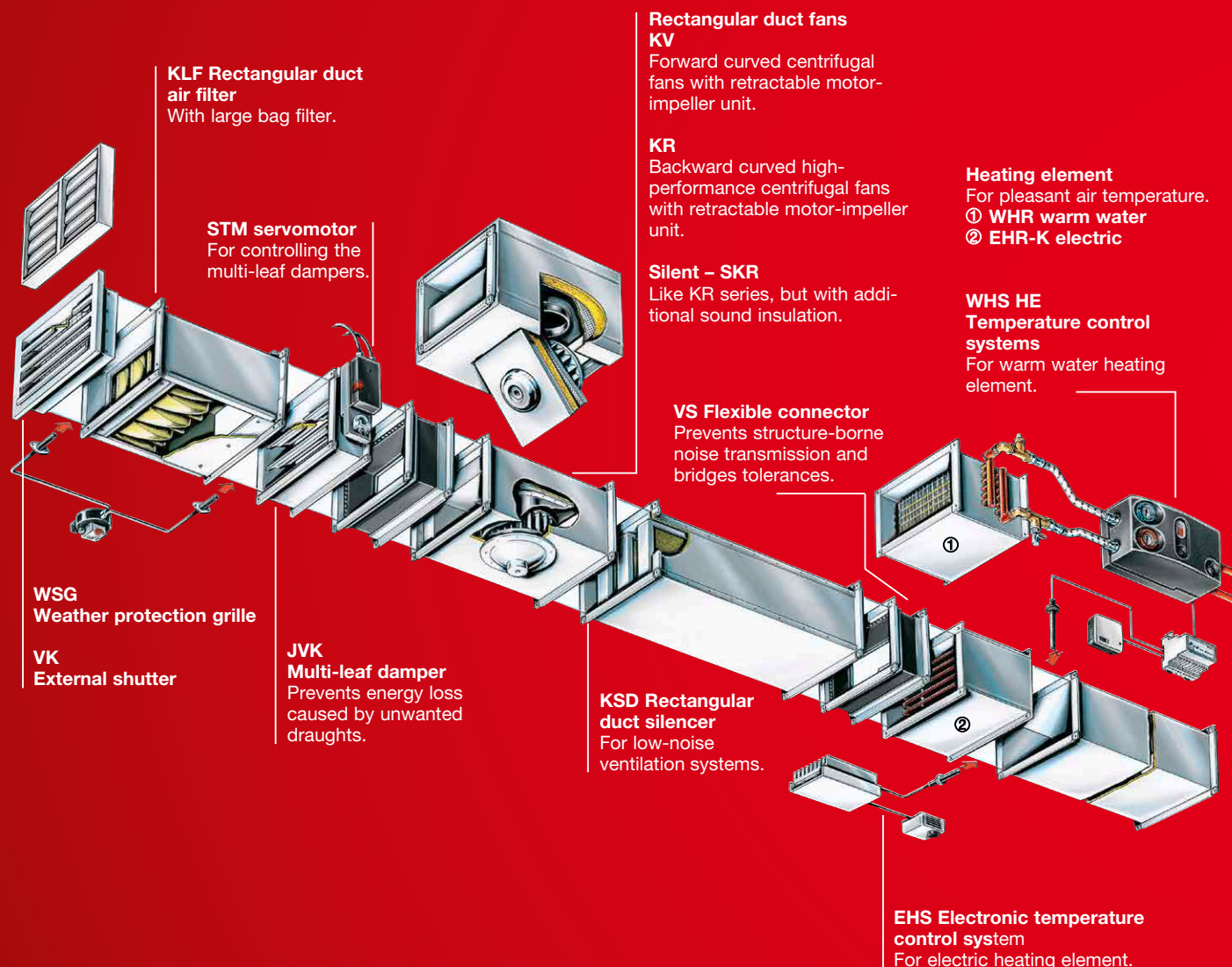


Helios rectangular duct fans. Perfect system solutions.



Helios rectangular duct fans are the ideal solution for the reliable supply and extract ventilation of industrial and commercial applications. The compact design promises minimal space requirement

and shows its advantages in combination with numerous accessory components, such as the warm water and electric heating elements, filters or silencers. This system diversity means

the right solution can always be found for your construction project.

■ Fresh air boxes

Efficient EC version.

With electric heating
 Ø 125 – 250 mm
 30 x 20 cm

With warm water heating
 40 x 20 cm, 50 x 30 cm,
 60 x 35 cm, 80 x 50 cm



340^{ff}

■ Backward curved InlineVent rectangular duct fans KR

Energy-efficient
 EC version.

Ø 180 – 560 mm
 30 x 15 cm – 100 x 50 cm
 V = 660 – 14 410 m³/h



452^{ff}

■ Backward curved InlineVent rectangular duct fans KR

Standard
 AC version.

Ø 180 – 560 mm
 30 x 15 cm – 80 x 50 cm
 V = 540 – 11 970 m³/h



468^{ff}

■ Centrifugal rectangular duct fans

Product-specific
 information, Selection
 table.

436^f

■ Forward curved InlineVent rectangular duct fans KV

Standard
 AC version.

Ø 200 – 400 mm
 40 x 20 cm – 80 x 50 cm
 V = 920 – 7620 m³/h



Also available
 in version:



438^{ff}

■ Sound-insulated rectangular duct fans, backward curved, Acoustic Line SKR

Energy-efficient
 EC version.

Ø 315 – 560 mm
 50 x 25 cm – 100 x 50 cm
 V = 1180 – 13 700 m³/h



456^{ff}

■ Sound-insulated rectangular duct fans, backward curved, Acoustic Line SKR

Standard
 AC version.

Ø 355 – 560 mm
 60 x 35 cm – 80 x 50 cm
 V = 2800 – 8050 m³/h



472^{ff}

■ Accessories

For InlineVent
 rectangular duct fans.

480

This information supplements the “General technical information” and the information on the product pages.

■ **Installation position, installation, condensate outlets**

Installation possible in any position, but only with the inspection cover to the bottom or side for KR types. The swivelling range must be kept clear and access for inspection and cleaning must be unhindered.

In case of condensation (e.g. in case of intermittent operation, air flow with high moisture and varying temperatures), the unit must be installed so that condensate can drain downwards without restriction.

Corresponding holes must be made in the fan casing, if necessary. If necessary, the pipeline or duct system must be insulated so that condensation is prevented.

■ **Structure-borne noise transmission**

to buildings and duct systems must be prevented. The fan must not be rigidly connected to the duct system. Accessory VS provided for this purpose.

■ **Explosion-proof types**

With regard to the operating conditions and standards, reference is made to the information in “Planning information Explosion protection”. The explosion-proof types correspond to unit group II, category 2G for operation in zones 1 and 2 in accordance with Directive 2014/34/EU (ATEX).

The KVD Ex motors are equipped with PTC thermistors (for direct winding temperature monitoring) as standard. Their connection leads must be led to the terminal board and connected to the motor protection trigger unit MSA.

With this equipment, the KVD explosion-proof fans are also approved for speed control. The transformer control units TSD or TSSD can be used for this purpose; a minimum voltage of 100 V must always be maintained. Electronic speed control or control using a frequency inverter is not permitted.

■ **Drive-Impeller**

External rotor motors located in the air flow in protection category IP44 and IP54 are used for all AC types.

They correspond to DIN EN 60034/VDE 0530 and DIN EN 60335-1/VDE 0700-1 and they are in ISO class F with additional humidity protection. The EC types are equipped with especially energy-saving, speed-

controllable EC external rotor motors in protection category IP44 or IP54 for the lowest operating costs.

All motors are maintenance-free and radio interference-free and they are suitable for continuous and normal operation.

The ball bearings have a sufficient lubricant supply for their service life.

The centrifugal impellers are pressed on the motor body, i.e. fixed to it, and dynamically balanced as a unit according to DIN ISO 21940-11 – quality grade 6.3.

■ **Power control**

All InlineVent AC rectangular duct fans can be controlled from 0 – 100% through voltage reduction. As a result, the output can be set to the desired volume. One or more fans (until the max. rated current is reached) can be operated with the offered speed controls. The dimensioning must be based on a 10% reserve. Control is possible for 3-types using a frequency inverter with integrated sine filter.

All EC types have continuously variable speed control via speed potentiometer. Control is also possible via three level switch or continuously variable via universal control system or electronic differential pressure/temperature controller.

The performance levels are shown on the performance curve as examples.

■ **Air flow direction**

The air flow direction cannot be changed for centrifugal fans; but it can be set by the corresponding positioning. The correct motor rotation direction and air flow direction is marked by arrows and must be checked during commissioning.

■ **Incorrect direction of rotation**

Operation in the incorrect direction of rotation overloads the AC motor and causes the thermal contacts to respond. Typical concomitant features include virtually non-existent flow rate, vibration and abnormal noise.

■ **Air flow temperature**

All units can be used in the range from –40 °C to at least +60 °C, Types KV Ex from –20 °C to +40 °C.

The upper limit value is type-specific and can be found in the table on the product page.

The types and their features

■ **KV**

Centrifugal rectangular duct fans with forward curved impeller blades. Retractable motor-impeller unit. Low-noise impeller in volute casing for high delivery pressures.

$V = 920 - 7620 \text{ m}^3/\text{h}$.

Compact, flat design for versatile use in extract air and intake air systems in commercial and industrial buildings.



■ **KR and KR EC**

With backward curved impeller blades, optionally with energy-saving EC drive technology. High-performance centrifugal impellers with high level of efficiency. Retractable motor-impeller unit.

$V = 540 - 13\,480 \text{ m}^3/\text{h}$.

For the delivery of larger volume flows in extract air and intake air systems. Non-critical for the delivery of contaminated air.



■ **SKR and SKR EC**

For noise-critical systems. Backward curved high-performance centrifugal impellers in sound-insulated casing, optionally with energy-saving EC drive technology. Performance characteristics like KR.

$V = 1270 - 13\,480 \text{ m}^3/\text{h}$.

The use of rectangular duct silencers (KLF, Accessories) is recommended for the further reduction of inlet and outlet side air noise. Application in extract and intake air systems with specific noise level requirements.



By combining the parameters of static pressure increase Δp_{ra} , case-radiated noise and inlet side air noise as sound pressure at

4 m (free field conditions), the following table facilitates the selection of rectangular duct fans.

Type	Sound pre. radiation	Sound pre. inlet side	Flow rate \dot{V} m³/h depending on static pressure												
	L_{PA} dB(A) at 4 m dist.	L_{PA} dB(A) at 4 m dist.	(Δp_{ra}) in Pa												
			0	50	100	150	200	250	300	350	400	500	600	700	800
KV – with forward curved impellers															
KVW 200/4/40/20	37	49	920	890	850	800	750	40							
KVD 200/4/40/20	36	50	1130	1030	930	830	710								
KVD 225/4/50/25	43	52	1920	1820	1710	1590	1460	1290	1040						
KVD 355/6/70/40	42	53			4970	4680	4380	4060	3680	3190					
KVD 400/6/80/50	45	60	7620	7320	7020	6710	6390	6060	5690	5290	4800	1460			

Type	Sound pre. radiation	Sound pre. inlet side	Flow rate \dot{V} m³/h depending on static pressure												
	L_{PA} dB(A) at 4 m dist.	L_{PA} dB(A) at 4 m dist.	(Δp_{ra}) in Pa												
			0	50	100	150	200	250	300	350	400	500	600	700	800
KR EC – with backward curved impellers / SKR EC – with sound-insulated casing															
KRW EC 180/30/15	41	57	720	680	650	620	580	530	490	450	390	280	130		
KRW EC 225/40/20	41	52	1200	1120	1040	980	920	860	790	730	670	520	360		
KRW EC 315/50/25 A	35	49	1210	1130	1060	990	920	860	790	730	660	510	340		
KRW EC 315/50/25 B	44	57	2250	2130	2010	1910	1800	1680	1580	1470	1350	1140	920	730	510
KRW EC 355/60/30	46	59	2960	2860	2750	2620	2460	2300	2100	1910	1670	1090			
KRW EC 400/60/35	49	62	4100	4020	3930	3840	3750	3640	3540	3430	3310	3050	2770	2470	2120
KRW EC 450/70/40	48	61	5570	5360	5150	4940	4760	4570	4350	4100	3860	3280	2460		
KRD EC 355/60/30	56	66	4380	4310	4250	4190	4120	4040	3960	3880	3800	3630	3410	3200	2940
KRD EC 400/60/35	53	65	4580	4500	4420	4340	4250	4170	4080	3990	3890	3700	3500	3290	3060
KRD EC 450/70/40	54	64	7520	7390	7260	7120	6970	6800	6610	6380	6140	5600	5100	4600	4130
KRD EC 500/80/50 A	47	60	7990	7730	7450	7150	6850	6520	6160	5820	5460	4620	3680	840	
KRD EC 500/80/50 B	51	63	9080	8910	8720	8520	8290	8020	7710	7380	7040	6300	5530	4780	3930
KRD EC 560/100/50 A	50	60	9370	9210	9040	8870	8690	8480	8210	7890	7580	6900	6070	5350	4440
KRD EC 560/100/50 B	56	68	13590	13420	13240	13060	12870	12680	12470	12250	12020	11540	11010	10440	9810
SKRW EC 315/50/25 A	29	40	1270	1170	1090	990	900	830	760	670	580	380	70		
SKRW EC 315/50/25 B	36	47	2170	2050	1960	1870	1760	1640	1530	1400	1250	980	760	570	400
SKRW EC 355/60/30	43	53	3860	3760	3660	3550	3450	3360	3270	3160	3050	2840	2580	2270	1830
SKRW EC 400/60/35	42	56	3960	3880	3790	3700	3610	3510	3400	3290	3180	2920	2610	2260	1740
SKRW EC 450/70/40	46	56	5390	5190	4990	4780	4540	4300	4070	3830	3580	2980	2130		
SKRD EC 355/60/30	46	55	4340	4260	4180	4090	4010	3920	3830	3740	3650	3450	3240	3020	2770
SKRD EC 400/60/35	46	57	4580	4500	4420	4340	4250	4170	4080	3990	3890	3700	3500	3290	3060
SKRD EC 450/70/40 A	49	59	7460	7320	7190	7040	6870	6670	6460	6230	5990	5500	5020	4570	4080
SKRD EC 500/80/50 A	45	53	7990	7730	7450	7150	6850	6520	6160	5820	5460	4620	3680	840	
SKRD EC 500/80/50 B	48	55	8760	8570	8380	8170	7940	7670	7380	7090	6790	6130	5350	4530	3390
SKRD EC 560/100/50 A	47	51	9370	9210	9040	8870	8690	8480	8210	7890	7580	6900	6070	5350	4440
SKRD EC 560/100/50 B	51	57	12890	12660	12430	12210	11990	11770	11530	11280	11010	10490	9940	9300	8600

Type	Sound pre. radiation	Sound pre. inlet side	Flow rate \dot{V} m³/h depending on static pressure												
	L_{PA} dB(A) at 4 m dist.	L_{PA} dB(A) at 4 m dist.	(Δp_{ra}) in Pa												
			0	50	100	150	200	250	300	350	400	500	600	700	800
KR – with backward curved impellers / SKR – with sound-insulated casing															
KRW 180/2/30/15	37	51	540	480	420	360	280	210	110						
KRW 225/2/40/20	40	52	1020	920	820	700	590	490	380	260	100				
KRW 225/2/50/25	45	52	1160	1100	1040	990	910	850	780	690	610	340	60		
KRW 355/4/60/35	42	55	3600	3370	3130	2900	2590	2090	1330	570					
KRW 400/4/70/40	44	54	4970	4710	4400	4110	3730	3320	2750	2090	1160				
KRW 450/4/70/40	51	59	6650	6360	6010	5710	5430	5120	4730	4280	3850	2290			
KRW 500/4/80/50	52	62	9700	9380	9040	8670	8310	7920	7460	6890	6260	4590	2290		
KRD 355/4/60/35	37	50	2840	2640	2410	2110	1860	1510	1050	450					
KRD 450/4/70/40	47	57	5830	5570	5320	5060	4810	4550	4230	3930	3610	2840	1840		
KRD 500/4/80/50 A	52	58	8430	8120	7810	7490	7110	6670	6300	5870	5420	4530	3560	1330	
KRD 560/6/80/50	41	53	7460	6940	6300	5630	5110	4290	3490	2410	400				
KRD 560/4/80/50	55	66	11970	11630	11260	10870	10480	10080	9640	9140	8620	7230	5470	2920	840
SKRW 355/4/60/35	39	49	3580	3350	3070	2830	2450	1880	110						
SKRW 400/4/70/40	42	49	4940	4540	4230	3830	3470	3040	2460	1670	780				
SKRD 355/4/60/35	34	43	2800	2510	2270	2030	1670	1300	650	140					
SKRD 450/4/70/40	46	52	5430	5230	5000	4770	4520	4240	4000	3640	3290	2380	860		
SKRD 500/6/70/40	36	48	4620	4230	3800	3480	2980	2490	1490						
SKRD 500/4/80/50	48	54	8050	7830	7520	7060	6650	6210	5820	5450	5040	4150	2560	690	
SKRD 560/6/80/50	36	46	7600	6990	6220	5630	5040	4280	3220	1810	400				

KV 200



Efficiency class

D

KVV 200/4/40/20 + accessories*

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.

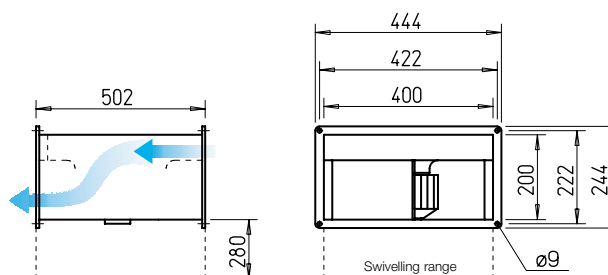
■ Electrical connection

Terminal box (IP55 for 3~ or 44 for 1~ types) mounted to external cable.

■ Motor protection

Type KVV through thermal contacts connected in series with the winding, automatically resets. Type KVD through built-in thermal contacts which must be connected to a motor protection circuit breaker.

Dimensions KV 200



Dim. in mm

■ 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.

■ Reference

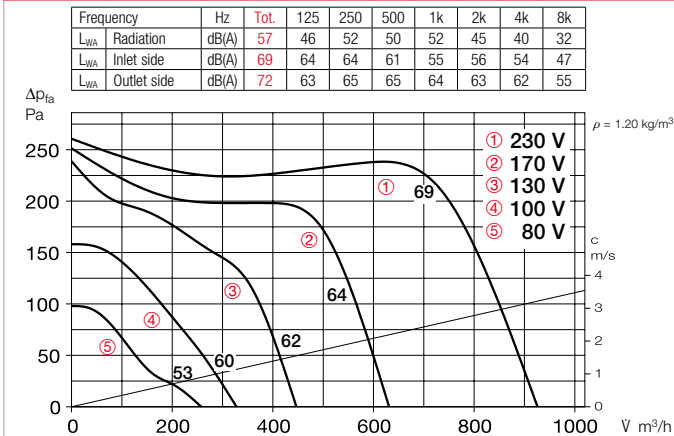
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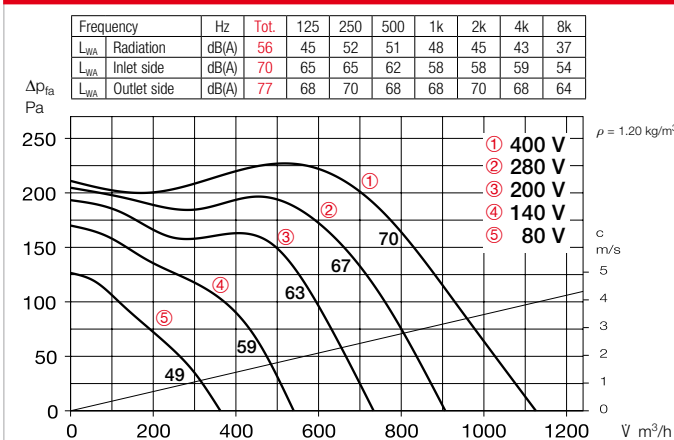
Type	Ref. no.	Flow rate max.	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temperature at		Wgt net aprx.	Speed controller 5-step		Motor protection circuit breaker for connection of built-in thermal contacts			
								Rat. vol.	Control		without motor prot. circ. bre.	with motor prot. circ. bre.				
		ℳ m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP4																
KVV 200/4/40/20	05675	925	810	37	0.21	0.95	0508	40	40	11	TSW 1.5	01495	—	—	—	—
Three-phase current motor, 230/400 V, 50 Hz, protection category IP4																
KVD 200/4/40/20	05676	1130	1260	36	0.25	0.82/0.47	0860	70	70	8.6	TSD 0.8	01347	RDS 1	01314	MD	05849

* See ErP product data sheet at www.HeliosSelect.de.

Performance curves KVV 200/4/40/20



Performance curves KVD 200/4/40/20



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 ff.
 Speed controllers and motor protection circuit breakers 599 ff.

Accessories

External wall shutter

VK 40/20 Ref. no. 00874

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 40/20 Ref. no. 00109

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

Multi-leaf damper for rectangular duct installation

JVK 40/20 Ref. no. 06910

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

Fitting

FSK 40/20 Ref. no. 00832

For cost-effective integration of rectangular duct fans in round duct systems with Ø 200 mm.

Flexible connector

VS 40/20 Ref. no. 05694

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 40/20 Ref. no. 06919

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

Rectangular duct silencer

KSD 40/20 Ref. no. 08728

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

Rectangular duct air filter

KLF 40/20 Coarse 70%* 08720

KLF 40/20 ePM1 50%* 08644

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

Electric heating element

EHR-K 6/40/20 No. 08702

EHR-K 15/40/20 No. 08703

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system for electric heating element

EHSD 16 Ref. no. 05003

Warm water heating element

WHR 2/40/20 No. 08782

WHR 4/40/20 No. 08783

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.

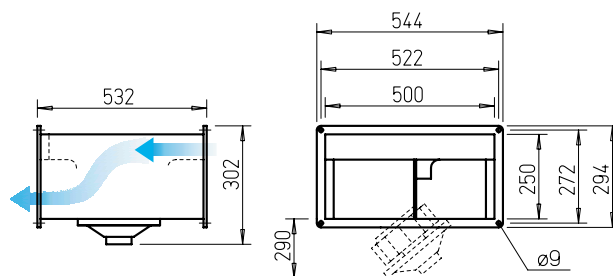
KV 225



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.

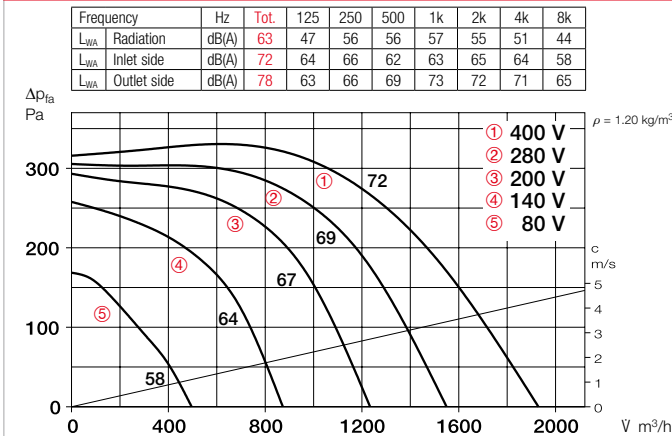
■ **Reference**

Page

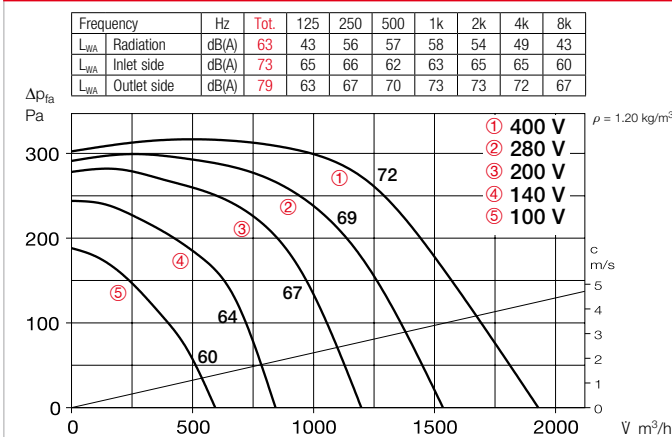
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Type	Ref. no.	Flow rate max.	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temperature at		Wgt net aprx.	Speed controller 5-step		Motor protection circuit breaker for connection of built-in thermal contacts			
								Rat. vol.	Control				without motor prot. circ. brea.	with motor prot. circ. brea.		
		∇ m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	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	MD	05849
⚠ 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	0.53	0.92	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 480, 561 ff.
 Filters, heating elements and silencers 481 ff.
 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.

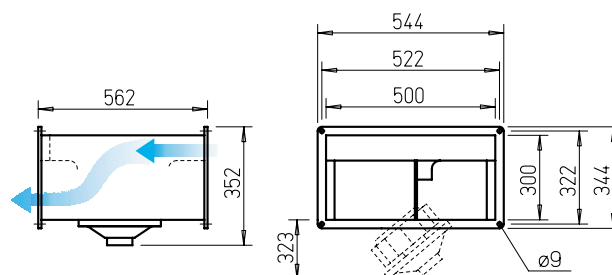
¹⁾ Cannot be used for explosion-proof version.



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 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.

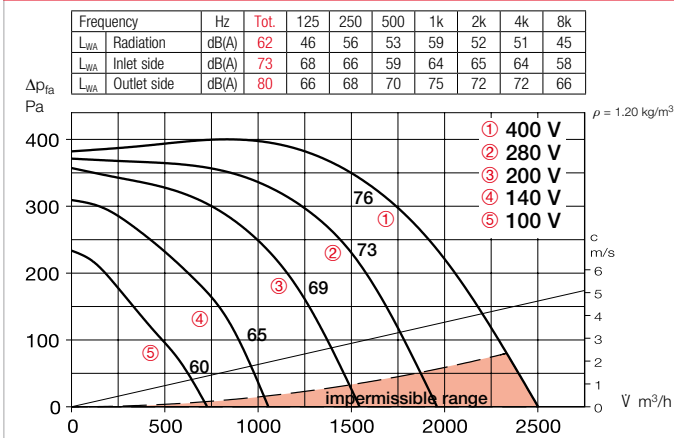
■ **Reference**

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Modular system	434

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. brea.	with motor prot. circ. brea.				
		Ṃ m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
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	0.74	1.5	0899	40	40	21	TSD 1.5	01501	—	—	MSA	01289

Performance curves KVD 250/4/50/30 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 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

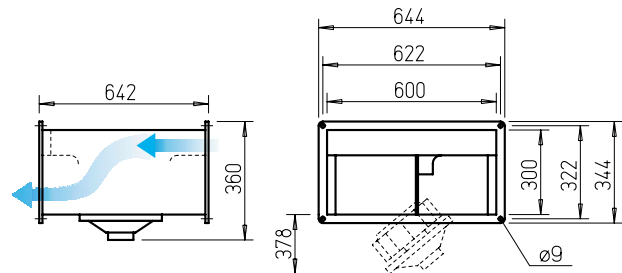


* See product page 477 for detailed description.

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 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.

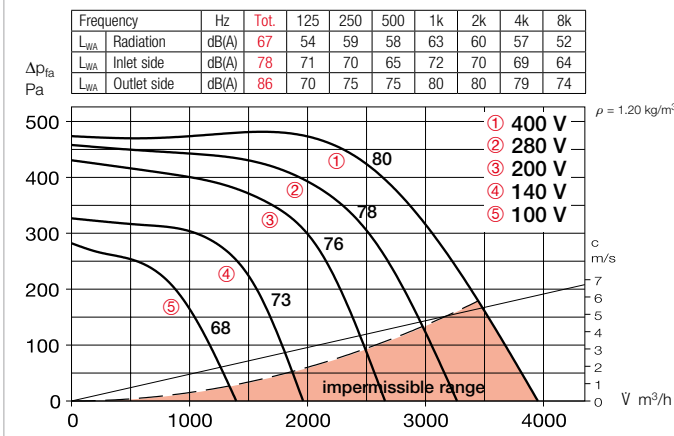
■ **Reference**

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Modular system	434

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



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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.

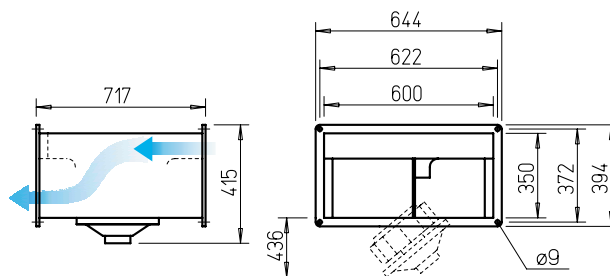


* See product page 477 for detailed description.

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 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.

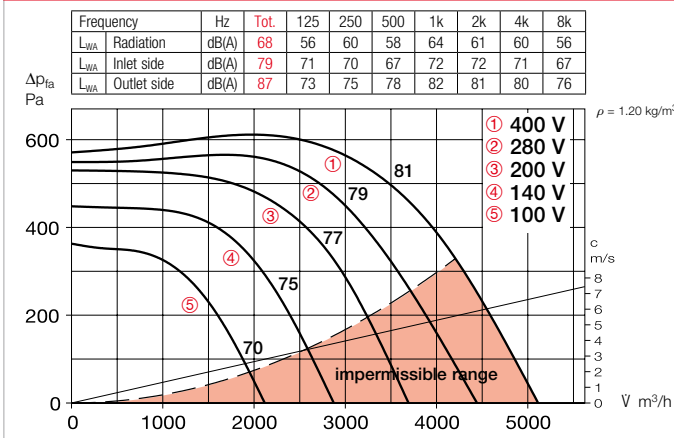
■ Reference

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



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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 60/35 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

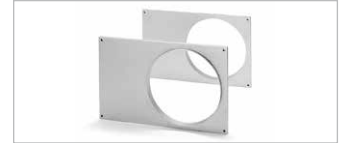
WHR 4/60/30-35 No. 08787

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.

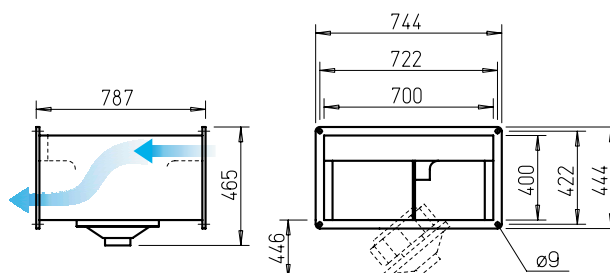
KV 355



Also available
in version:



Dimensions KV 355



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 IP65 for explosion-proof 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.

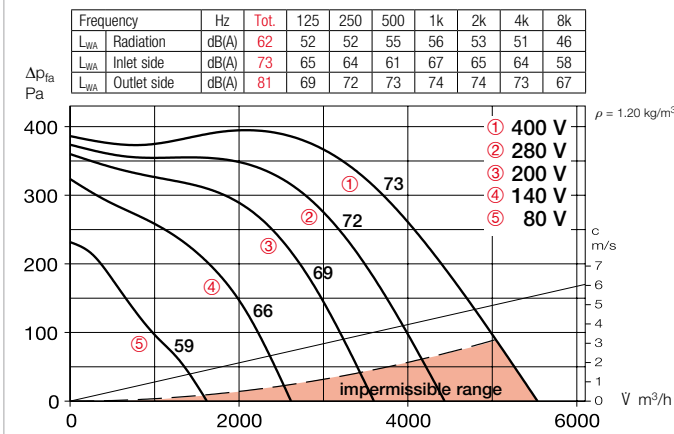
■ Reference

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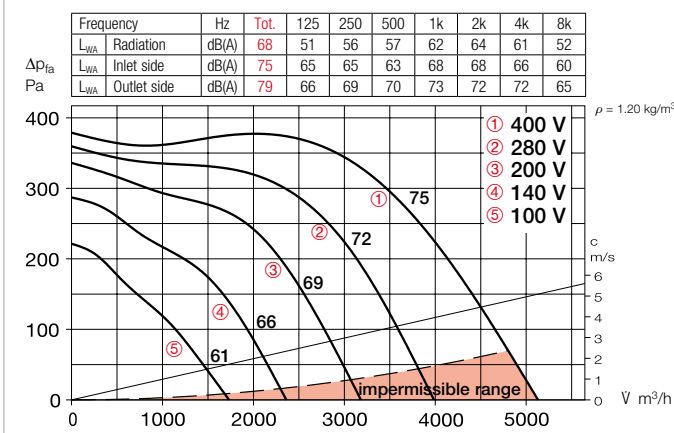
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Modular system	434

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 355/6/70/40	05688	5000	830	42	1.53	5.5/3.2	0860	60	60	54	TSD 5.5	01503	RDS 4	01316
Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 230/400 V, 50 Hz, protection category IP44														
KVD 355/6/70/40 Ex	06814	4800	800	48	1.40	2.4	0899	40	40	49	TSD 3.0	01502	—	MSA

Performance curves KVD 355/6/70/40



Performance curves KVD 355/6/70/40 Ex



Accessories

External wall shutter

VK 70/40 Ref. no. 00879

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 70/40 No. 00114

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

Multi-leaf damper for rectangular duct installation

JVK 70/40 Ref. no. 06915

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

Fitting

FSK 70/40 Ref. no. 00840

For cost-effective integration of rectangular duct fans in round duct systems with Ø 400 mm.

Flexible connector

VS 70/40 Ref. no. 05699

Flexible rectangular duct connector with double-sided flange frame.

– for explosion-proof fans

VS 70/40 Ex No. 00269

Counter flange

GF 70/40 Ref. no. 06924

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

Rectangular duct silencer

KSD 70/40 Ref. no. 08731

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

Rectangular duct air filter

KLF 70/40 Coarse 70%* 08723

KLF 70/40 ePM1 50%* 08647

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

Warm water heating element

WHR 2/70/40 No. 08788

WHR 4/70/40 No. 08789

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 4/70/40.



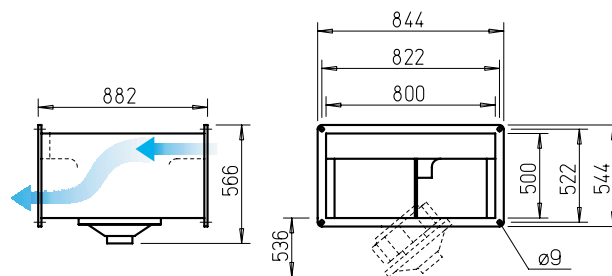
* See product page 477 for detailed description.

Accessory details	Page
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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.

KV 400



Dimensions KV 400



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) 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.

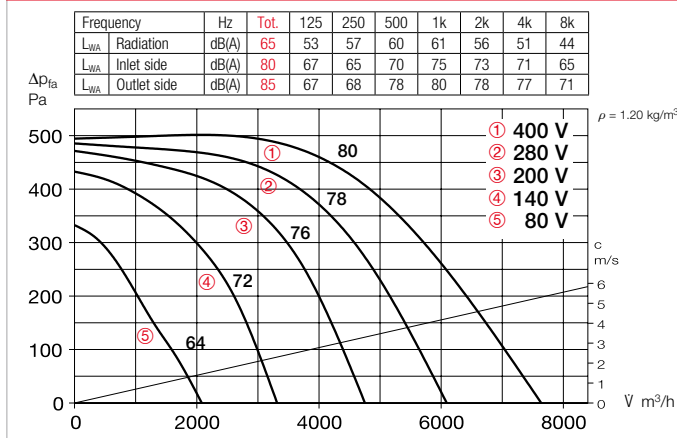
■ Reference

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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	
								Rat. vol.	Control		without motor prot. circ. brea.		with motor prot. circ. brea.			
		Ų m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Three-phase current motor, 230/400 V, 50 Hz, protection category IP4																
KVD 400/6/80/50	05691	7600	860	45	2.81	9.1/5.3	0860	60	60	70	TSD 7.0	01504	RDS 7.0	01578	MD	05849

Performance curves KVD 400/6/80/50



Accessories

External wall shutter

VK 80/50 Ref. no. 00880

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 80/50 No. 00115

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

Multi-leaf damper for rectangular duct installation

JVK 80/50 Ref. no. 06916

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

Fitting

FSK 80/50 Ref. no. 00842

For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.

Flexible connector

VS 80/50 Ref. no. 05700

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 80/50 Ref. no. 06925

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

Rectangular duct silencer

KSD 80/50 Ref. no. 08732

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

Rectangular duct air filter

KLF 80/50 Coarse 70%* 08670

KLF 80/50 ePM1 50%* 08654

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

Warm water heating element

WHR 2/80/50 No. 08795

WHR 4/80/50 No. 08796

For installation in rectangular duct system.



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Speed controllers and motor protection circuit breakers	599 ff.

* See product page 477 for detailed description.

KR EC 180



(Fig. similar)



Designed for the delivery of contaminated air.

Centrifugal EC rectangular duct fans with backward curved impeller blades. Retractable motor-impeller unit.

- Highly efficient EC motor for the lowest operating costs.
- High-performance impellers with high efficiency.
- Use in extract air and intake air systems for the delivery of larger volume flows.
- Non-critical for the delivery of contaminated air.

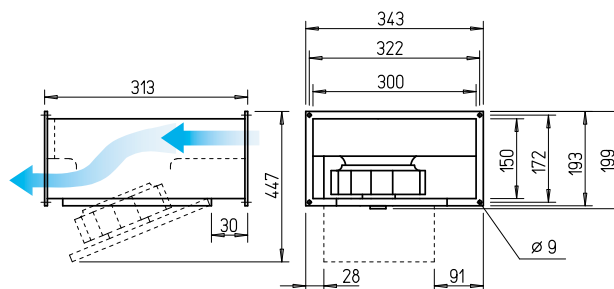
Special features

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Compact design, low space requirement, linear rectangular duct throughflow.

Description

- Casing**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.
- Drive**
Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.
- Motor protection**
Integrated electronic temperature monitoring system for EC motor and electronics.
- Power control**
Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

Dimensions KR EC 180



Dim. in mm

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivelling range.

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 case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

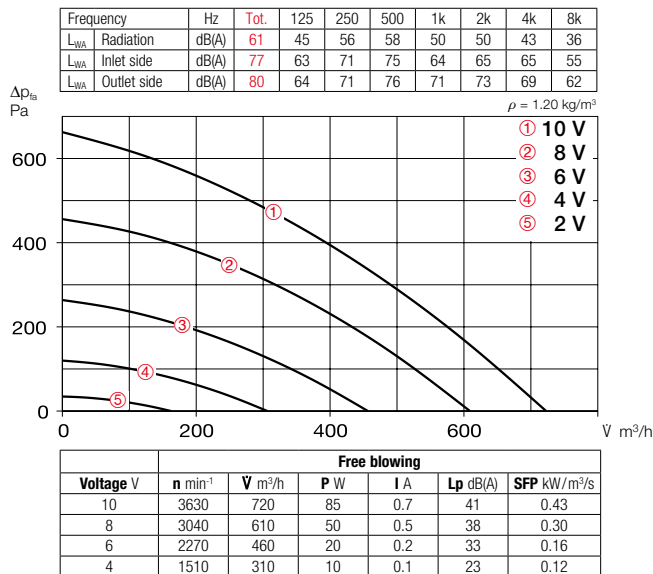
Reference

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Modular system	434

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer flush-mount.	Speed potentiometer surface-mount.
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44												
KRW EC 180/30/15	08168	720	3560	41	0.10	0.82	979	60	5.2	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories.

Performance curves KRW EC 180/30/15



Accessories

External wall shutter

VK 30/15 Ref. no. 00735
 Automatic overpressure shutter made of light grey plastic.



Weather protection grille

WSG 30/15 Ref. no. 00108
 Stable construction made of extruded aluminium profiles, natural colour anodised.



Multi-leaf damper for rectangular duct installation

JVK 30/15 Ref. no. 06927
 Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.



Fitting

FSK 30/15 Ref. no. 00831
 For cost-effective integration of rectangular duct fans in round duct systems with Ø 160 mm.



Flexible connector

VS 30/15 Ref. no. 06928
 Flexible rectangular duct connector with double-sided flange frame.



Counter flange

GF 30/15 Ref. no. 06918
 Flange frame made of galvanised steel sheet for connection to the rectangular duct.



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

KR EC 225



(Fig. similar)



Designed for the delivery of contaminated air.

Centrifugal EC rectangular duct fans with backward curved impeller blades. Retractable motor-impeller unit.

- Highly efficient EC motor for the lowest operating costs.
- High-performance impellers with high efficiency.
- Use in extract air and intake air systems for the delivery of larger volume flows.
- Non-critical for the delivery of contaminated air.

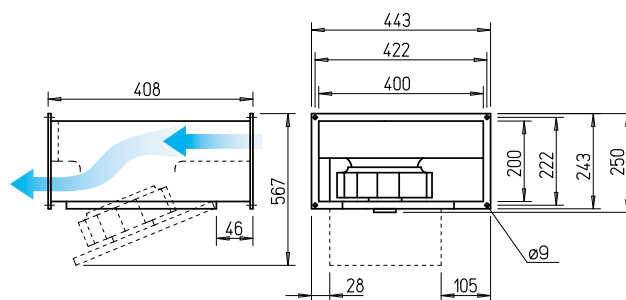
Special features

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Compact design, low space requirement, linear rectangular duct throughflow.

Description

- Casing**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.
- Drive**
Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.
- Motor protection**
Integrated electronic temperature monitoring system for EC motor and electronics.
- Power control**
Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

Dimensions KR EC 225



Dim. in mm

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivelling range.

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 case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

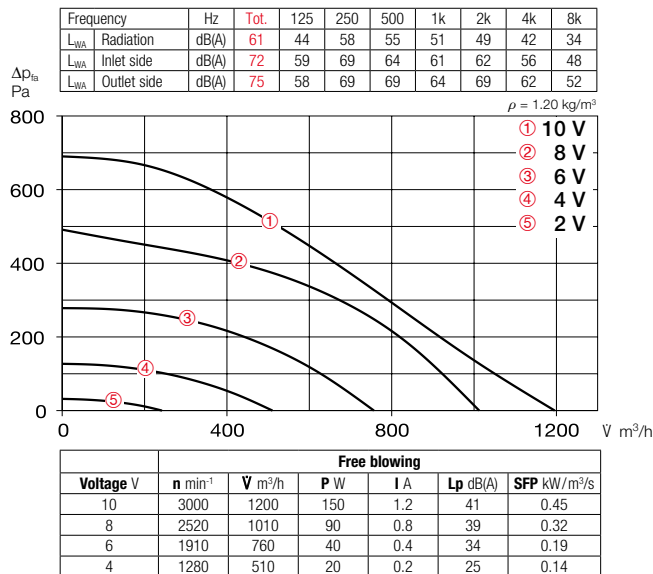
Reference

Reference	Page
Selection table	437
Techn. description	436
Planning information	14 ff.
Modular system	434

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer flush-mount.	Speed potentiometer surface-mount.
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44												
KRW EC 225/40/20	08169	1200	2820	41	0.15	1.19	979	60	8.1	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories.

Performance curves KRW EC 225/40/20



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
Universal control system, electronic controllers, speed potentiometer	613 ff.

Accessories

External wall shutter

VK 40/20 Ref. no. 00874

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 40/20 Ref. no. 00109

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

Multi-leaf damper for rectangular duct installation

JVK 40/20 Ref. no. 06910

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

Fitting

FSK 40/20 Ref. no. 00832

For cost-effective integration of rectangular duct fans in round duct systems with Ø 200 mm.

Flexible connector

VS 40/20 Ref. no. 05694

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 40/20 Ref. no. 06919

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

Rectangular duct silencer

KSD 40/20 Ref. no. 08728

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

Rectangular duct air filter

KLF 40/20 Coarse 70%* 08720

KLF 40/20 ePM1 50%* 08644

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

Electric heating element

EHR-K 6/40/20 Ref. no. 08702

EHR-K 15/40/20 Ref. no. 08703

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system for electric heating element

EHSD 16 Ref. no. 05003

Warm water heating element

WHR 2/40/20 Ref. no. 08782

WHR 4/40/20 Ref. no. 08783

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.

KR EC 315



(Fig. similar)

Designed for the delivery of contaminated air.



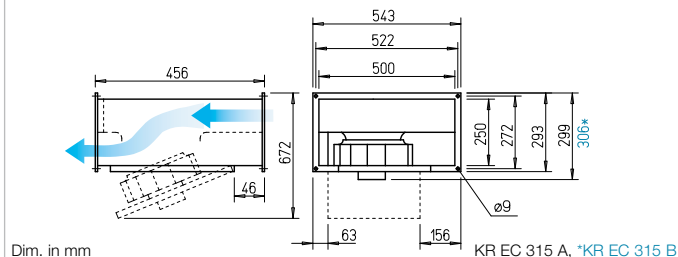
SKR EC 315 – sound-insulated



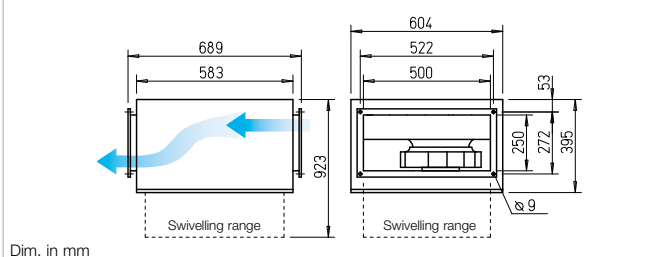
Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.



Dimensions KR EC 315



Dimensions SKR EC 315 – sound-insulated



Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- Casing KR EC**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- Casing SKR EC**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Special features SKR EC

- Lowest noise levels for inlet side and case radiation with high performance density.

Common features KR EC and SKR EC

- Impeller**
Centrifugal, with backward curved blades (315 A made of plastic and 315 B made of galvanised steel sheet). Aerodynamically optimised, inlet via nozzle.

Drive

Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.

Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Power control

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivel angle.

Noise

The total level and range are specified above the performance diagram for:

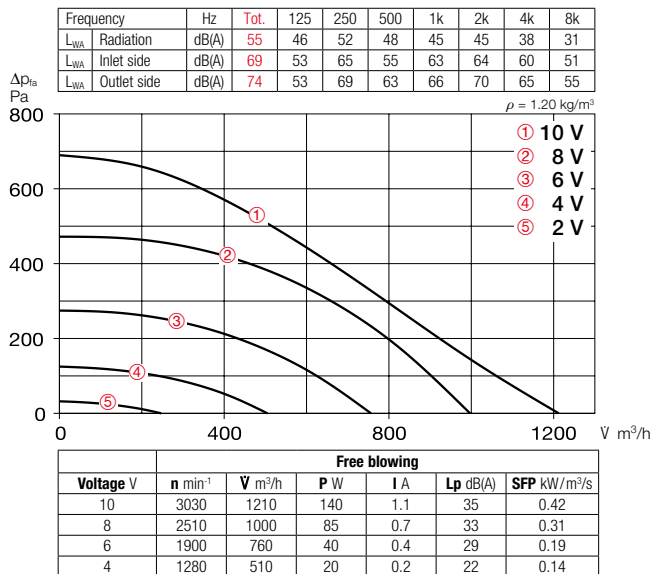
- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power.

The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

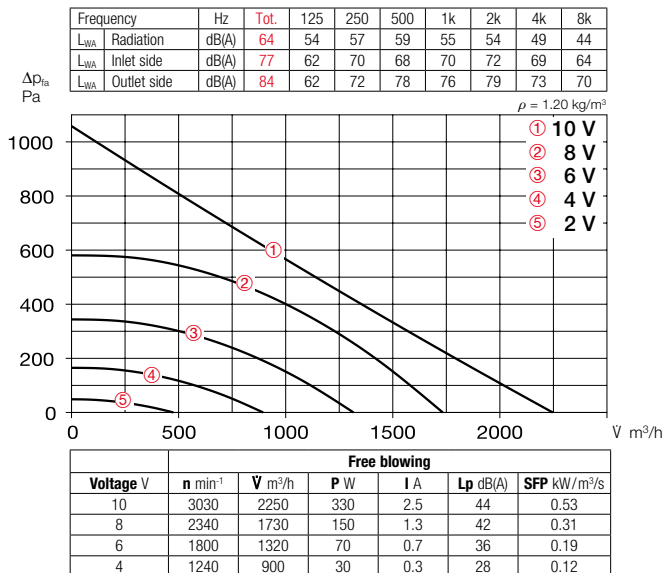
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer flush-mount.	Speed potentiometer surface-mount.
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type Ref. no.	Type Ref. no.	Type Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44												
KRW EC 315/50/25 A	08170	1210	2740	35	0.15	1.17	979	60	11.0	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735
KRW EC 315/50/25 B	07589	2250	2830	44	0.35	2.67	979	60	12.0	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735
Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44												
SKRW EC 315/50/25 A	07588	1270	2750	29	0.15	1.23	979	60	24.4	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735
Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44												
SKRW EC 315/50/25 B ³⁾	08182	2170	2850	36	0.35	2.71	979	60	25.3	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾ 01734	PA 10 ¹⁾ 01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. ³⁾ Performance diagram at www.HeliosSelect.de.

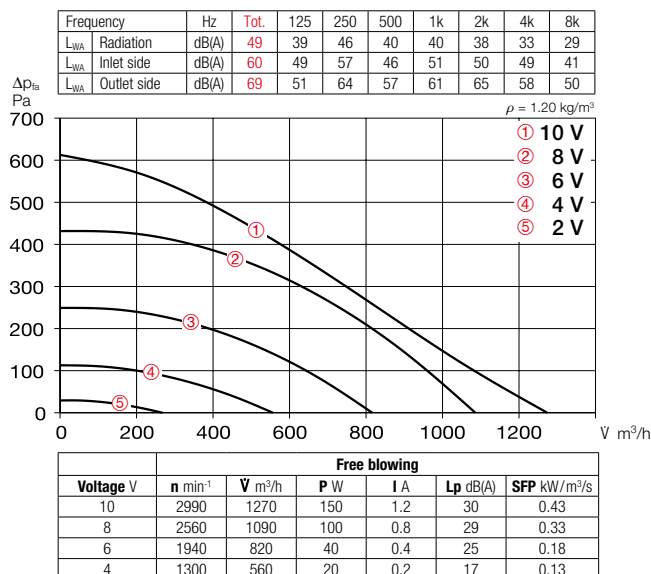
Performance curves KRW EC 315/50/25 A



Performance curves KRW EC 315/50/25 B



Performance curves SKRW EC 315/50/25 A



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.

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 Ref. 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 element

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 element

EHSD 16 Ref. no. 05003

Warm water heating element

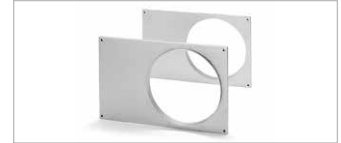
WHR 2/50/25-30 No. 08784

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.

KR EC 355



(Fig. similar)

Designed for the delivery of contaminated air.



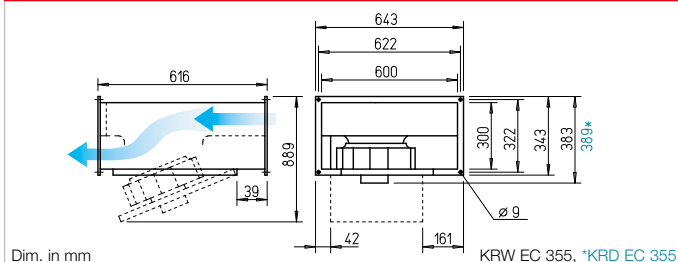
SKR EC 355 – sound-insulated



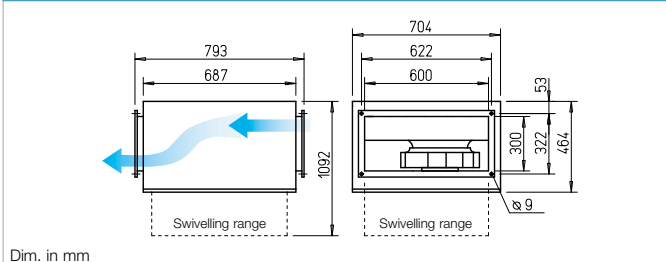
Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.



Dimensions KR EC 355



Dimensions SKR EC 355 – sound-insulated



Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- Casing KR EC**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- Casing SKR EC**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Special features SKR EC

- Lowest noise levels for inlet side and case radiation with high performance density.

Common features KR EC and SKR EC

- Impeller**
Centrifugal, with backward curved blades made of aluminium. Aerodynamically optimised, inlet via nozzle.

Drive

Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.

Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Power control

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivel angle.

Noise

The total level and range are specified above the performance diagram for:

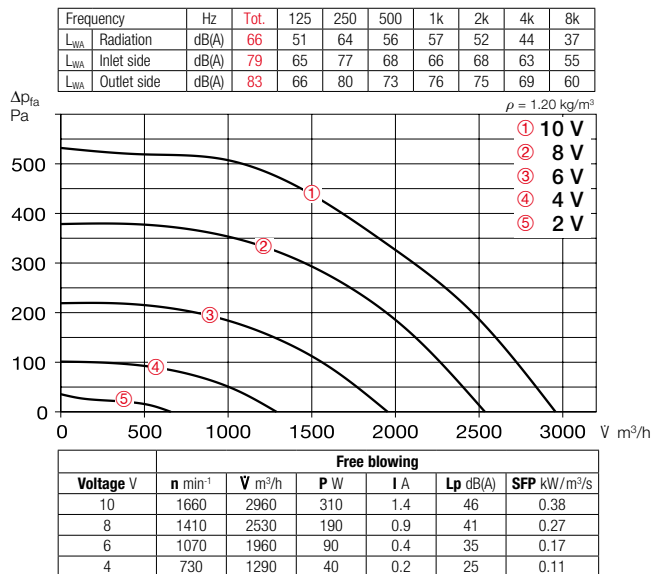
- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power.

The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

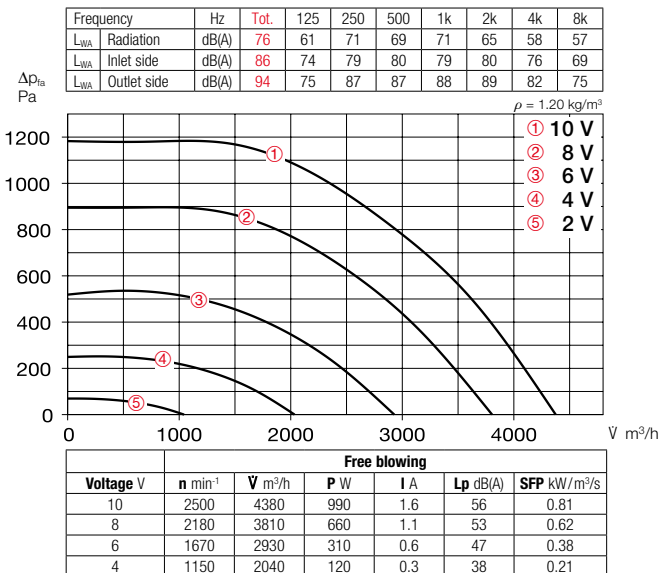
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer				
											flush-mount.		surface-mount.		
		V m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
KRW EC 355/60/30	08171	2960	1620	46	0.37	1.61	979	60	20.8	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
KRD EC 355/60/30	07590	4380	2500	56	1.30	2.01	1479	60	23.3	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
SKRW EC 355/60/30 ³⁾	08176	3860	2210	43	0.90	3.92	979	60	40.0	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
SKRD EC 355/60/30	08296	4340	2510	46	1.26	1.96	1479	60	40.0	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. ³⁾ Performance diagram at www.HeliosSelect.de.

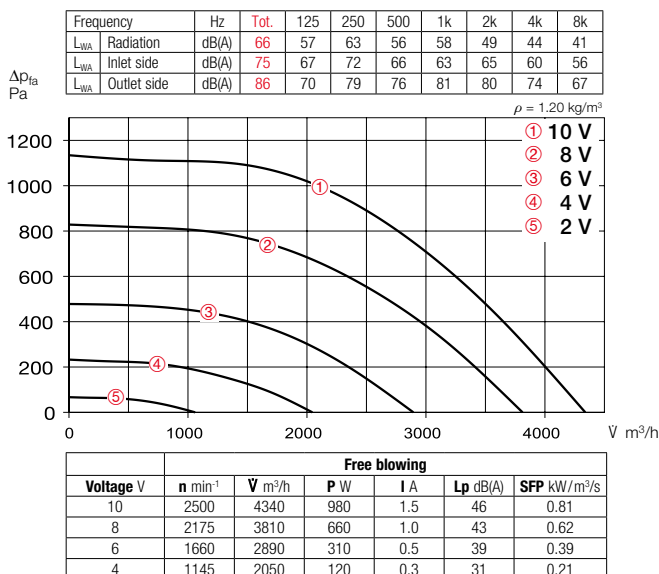
Performance curves KRW EC 355/60/30



Performance curves KRD EC 355/60/30



Performance curves SKRD EC 355/60/30



Accessories

External wall shutter

VK 60/30 Ref. no. 00877

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 60/30 Ref. 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 Ref. no. 05697

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 Ref. 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.

Electric heating element

EHR-K 15/60/30-35 No. 08706

EHR-K 30/60/30-35 No. 08707

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system for electric heating element

EHSD 16 Ref. no. 05003

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.



KR EC 400



(Fig. similar)

Designed for the delivery of contaminated air.



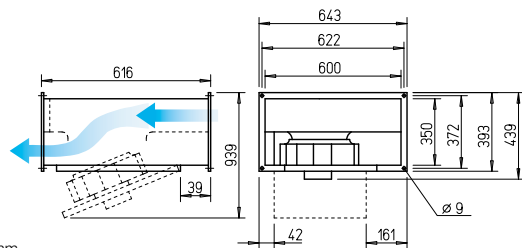
SKR EC 400 – sound-insulated



Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

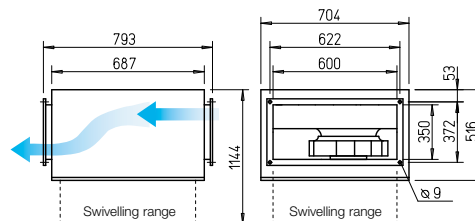


Dimensions KR EC 400



Dim. in mm

Dimensions SKR EC 400 – sound-insulated



Dim. in mm

Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- **Casing KR EC**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.

- **Casing SKR EC**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Special features SKR EC

- Lowest noise levels for inlet side and case radiation with high performance density.

Common features KR EC and SKR EC

- **Impeller**
Centrifugal, with backward curved blades made of aluminium. Aerodynamically optimised, inlet via nozzle.

■ Drive

Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.

■ Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

■ Power control

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

■ Electrical connection

Terminal box (IP54) mounted to external cable.

■ Installation

Installation possible in any position. Note accessibility/swivel angle.

■ Noise

The total level and range are specified above the performance diagram for:

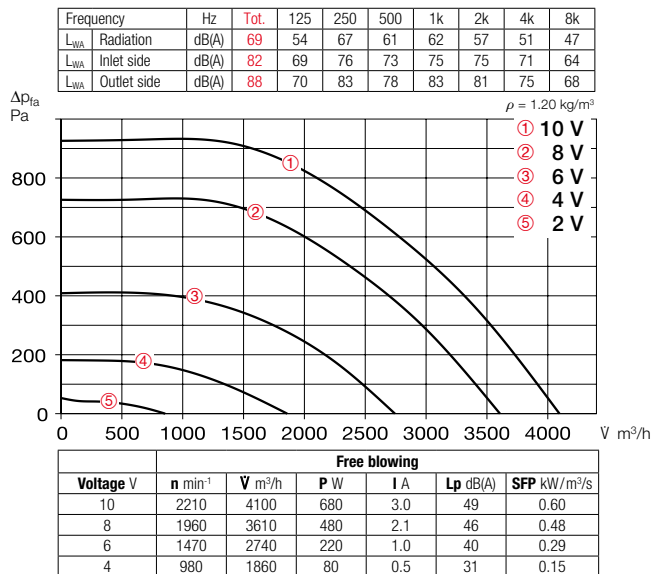
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

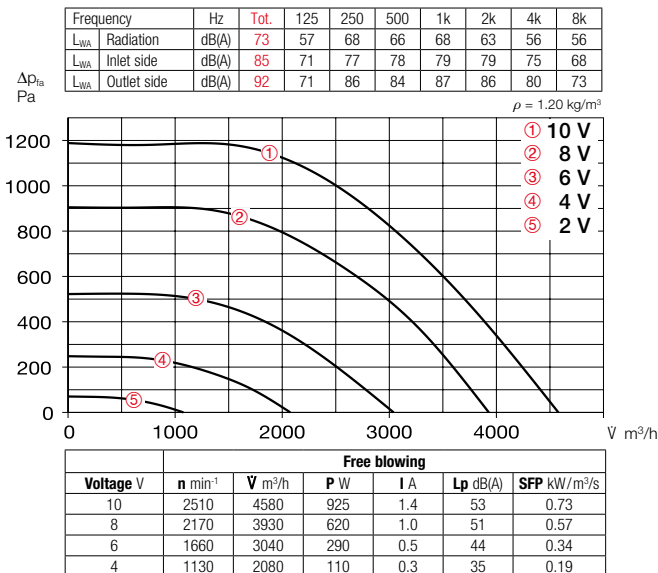
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer				
											flush-mount.		surface-mount.		
		V m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
KRW EC 400/60/35	08172	4100	2210	49	0.92	4.03	979	60	24.5	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
KRD EC 400/60/35	07591	4580	2510	53	1.30	2.01	1479	60	24.4	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
SKRW EC 400/60/35 ³⁾	08177	3960	2210	42	0.91	3.96	979	60	42.0	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
SKRD EC 400/60/35	08297	4580	2510	46	1.27	1.98	1479	60	42.0	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. ³⁾ Performance diagram at www.HeliosSelect.de.

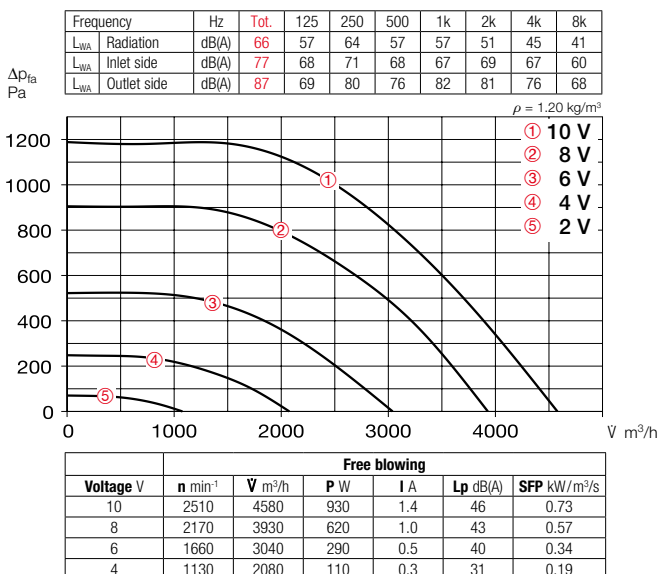
Performance curves KRW EC 400/60/35



Performance curves KRD EC 400/60/35



Performance curves SKRD EC 400/60/35



Accessories

External wall shutter

VK 60/35 Ref. no. 00878

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 60/35 Ref. 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 Ref. no. 05698

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 Ref. 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.

Electric heating element

EHR-K 15/60/30-35 No. 08706

EHR-K 30/60/30-35 No. 08707

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system for electric heating element

EHSD 16 Ref. no. 05003

Warm water heating element

WHR 2/60/30-35 No. 08786

WHR 4/60/30-35 No. 08787

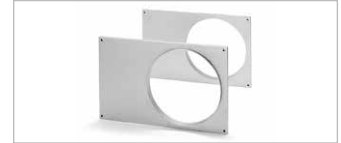
For installation in rectangular duct system.

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.



KR EC 450



Designed for the delivery of contaminated air.



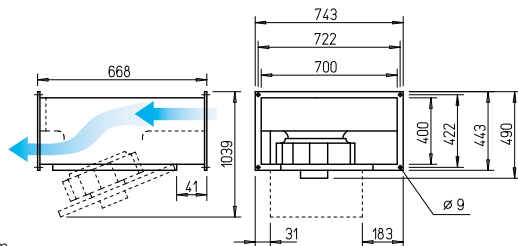
SKR EC 450 – sound-insulated



Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

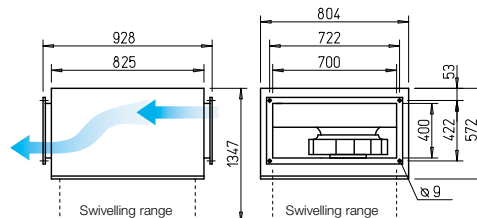


Dimensions KR EC 450



Dim. in mm

Dimensions SKR EC 450 – sound-insulated



Dim. in mm

Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- Casing KR EC**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- Casing SKR EC**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Special features SKR EC

- Lowest noise levels for inlet side and case radiation with high performance density.

Common features KR EC and SKR EC

- Impeller**
Centrifugal, with backward curved blades made of aluminium. Aerodynamically optimised, inlet via nozzle.

Drive

Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.

Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Power control

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivel angle.

Noise

The total level and range are specified above the performance diagram for:

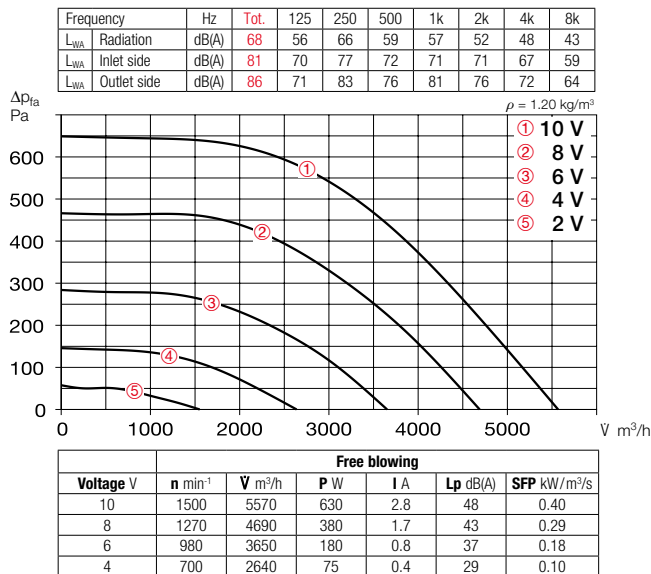
- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power.

The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

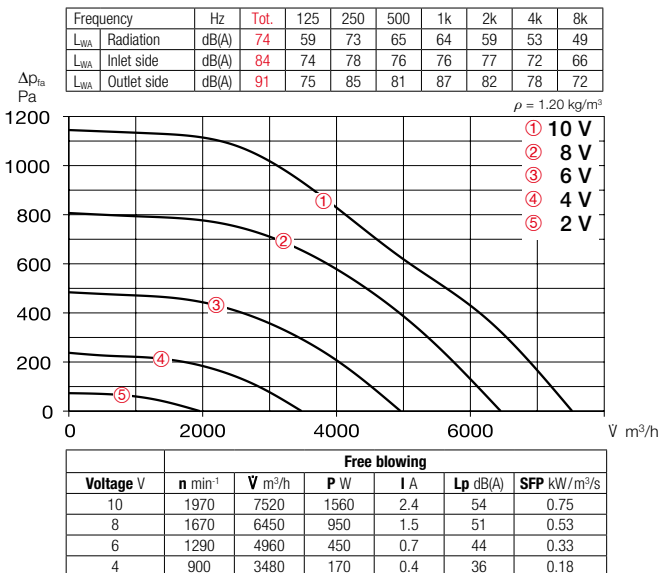
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer				
											flush-mount.		surface-mount.		
		V m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
KRW EC 450/70/40	06127	5570	1500	48	0.86	3.80	979	60	37.0	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
KRD EC 450/70/40	08173	7520	1920	54	1.82	2.81	1479	60	38.2	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Sound-insulated SKR EC – Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP44															
SKRW EC 450/70/40 ³⁾	06129	5390	1510	46	0.84	3.70	979	60	56.0	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735
Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
SKRD EC 450/70/40 A	08178	7460	1940	49	1.81	2.81	1479	60	57.2	EUR EC ¹⁾²⁾ 01347		PU 10 ¹⁾	01734	PA 10 ¹⁾	01735

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. ³⁾ Performance diagram at www.HeliosSelect.de.

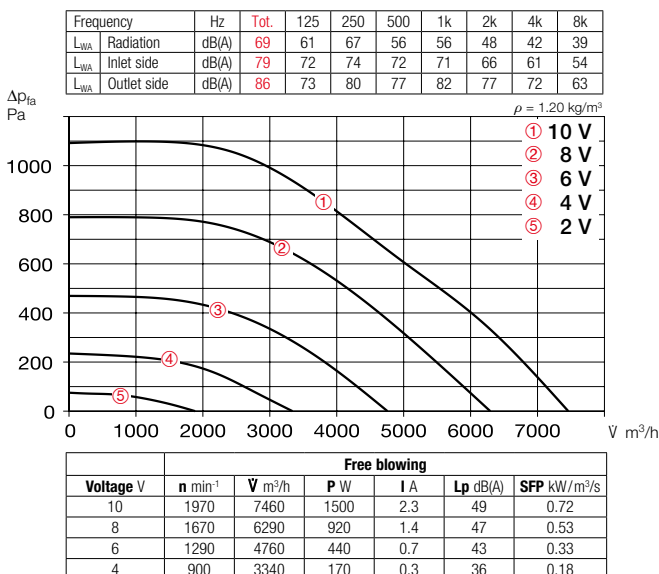
Performance curves KRW EC 450/70/40



Performance curves KRD EC 450/70/40



Performance curves SKRD EC 450/70/40 A



Accessories

External wall shutter

VK 70/40 Ref. no. 00879

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 70/40 Ref. no. 00114

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

Multi-leaf damper for rectangular duct installation

JVK 70/40 Ref. no. 06915

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

Fitting

FSK 70/40 Ref. no. 00840

For cost-effective integration of rectangular duct fans in round duct systems with Ø 400 mm.

Flexible connector

VS 70/40 Ref. no. 05699

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 70/40 Ref. no. 06924

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

Rectangular duct silencer

KSD 70/40 Ref. no. 08731

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

Rectangular duct air filter

KLF 70/40 Coarse 70%* 08723

KLF 70/40 ePM1 50%* 08647

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

Warm water heating element

WHR 2/70/40 Ref. no. 08788

WHR 4/70/40 Ref. no. 08789

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 4/70/40.



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
Universal control system, electronic controllers, speed potentiometer	613 ff.

* See product page 477 for detailed description.

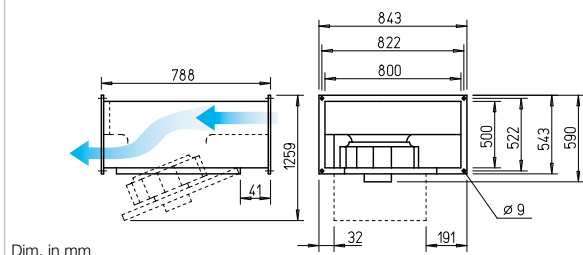
KR EC 500



Designed for the delivery of contaminated air.



Dimensions KR EC 500



Dim. in mm

Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Special features SKR EC

- Lowest noise levels for inlet side and case radiation with high performance density.

Description

- **Casing KR EC**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Casing SKR EC**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Common features
KR EC and SKR EC

- **Impeller**
Centrifugal, with backward curved blades made of aluminium.
Aerodynamically optimised, inlet via nozzle.

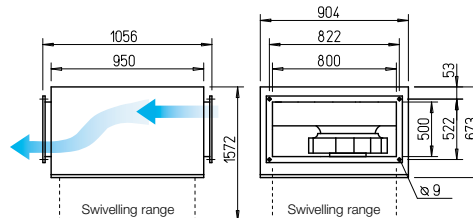
SKR EC 500 – sound-insulated



Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.



Dimensions SKR EC 500 – sound-insulated



Dim. in mm

Drive

Energy-saving, speed-controllable external rotor EC motor in protection category IP44 with the highest level of efficiency. Maintenance-free and radio interference-free, ball bearing mounted. Motor and impeller dynamically balanced.

- Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

- Power control

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

■ Electrical connection

Terminal box (IP54) mounted to external cable.

■ Installation

Installation possible in any position.
Note accessibility/swivel angle.

- Noise

The total level and range are specified above the performance diagram for:

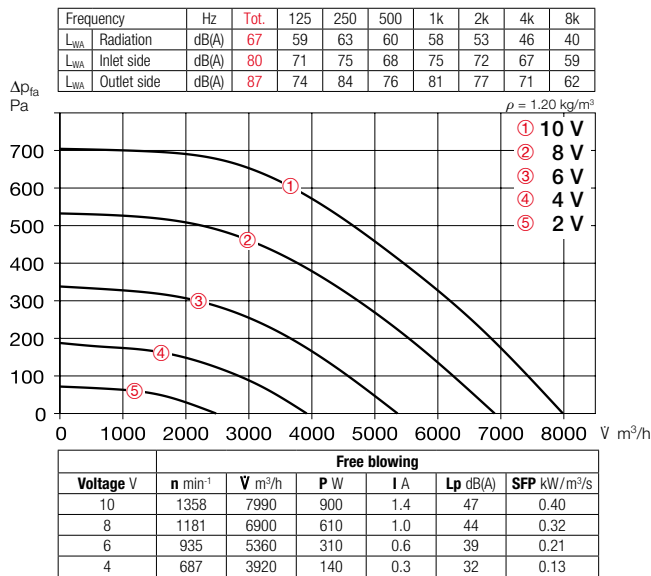
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

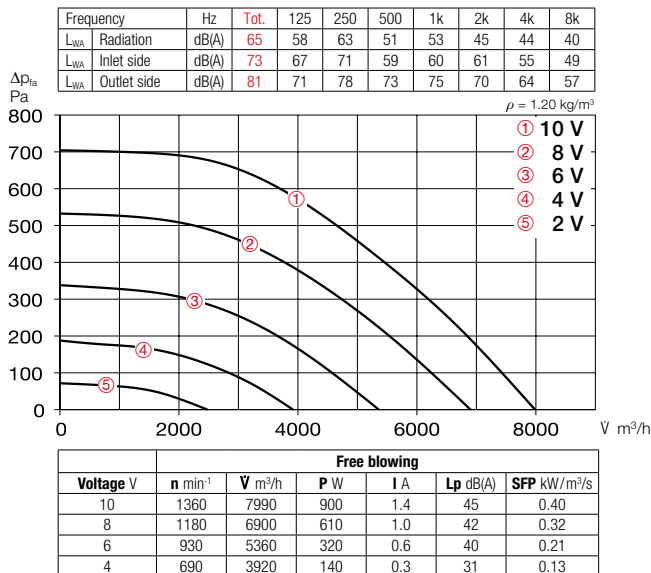
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consum.	Current consum.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system		Speed potentiometer			
										flush-mount.	surface-mount.				
		V m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
KRD EC 500/80/50 A	08174	7990	1350	47	1.24	1.92	1479	60	50.5	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	
KRD EC 500/80/50 B ³⁾	06128	9080	1550	51	1.81	2.79	1479	60	50.5	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	
Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP44															
SKRD EC 500/80/50 A	08299	7990	1350	45	1.22	1.88	1479	60	73.5	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	
SKRD EC 500/80/50 B	08179	8760	1540	48	1.82	2.81	1479	60	73.5	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	

¹) Multiple EC fans can normally be connected. ²) alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories. ³) Performance diagram at www.HeliosSelect.de.

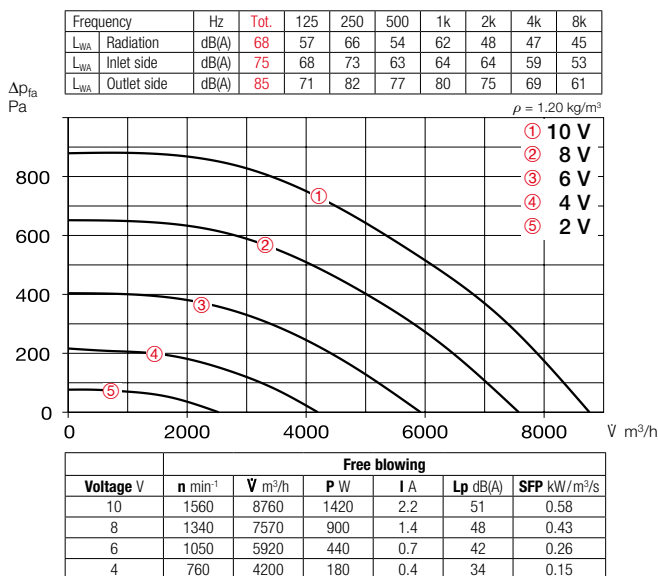
Performance curves KRD EC 500/80/50 A



Performance curves SKRD EC 500/80/50 A



Performance curves SKRD EC 500/80/50 B



Accessories

External wall shutter

VK 80/50 Ref. no. 00880

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 80/50 Ref. no. 00115

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

Multi-leaf damper for rectangular duct installation

JVK 80/50 Ref. no. 06916

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

Fitting

FSK 80/50 Ref. no. 00842

For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.

Flexible connector

VS 80/50 Ref. no. 05700

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 80/50 Ref. no. 06925

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

Rectangular duct silencer

KSD 80/50 Ref. no. 08732

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

Rectangular duct air filter

KLF 80/50 Coarse 70%* 08670

KLF 80/50 ePM1 50%* 08654

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

Warm water heating element

WHR 2/80/50 Ref. no. 08795

WHR 4/80/50 Ref. no. 08796

For installation in rectangular duct system.



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

* See product page 477 for detailed description.

KR EC 560



Note: Fig. similar. Use two safety arms.
Designed for the delivery of contaminated air.



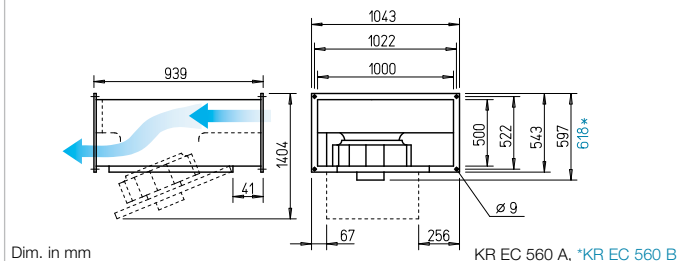
SKR EC 560 – sound-insulated



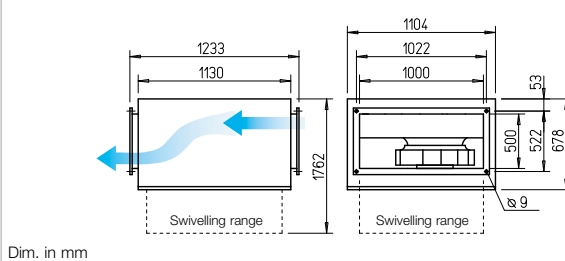
Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.



Dimensions KR EC 560



Dimensions SKR EC 560 – sound-insulated



Features KR EC and SKR EC

- Highly efficient EC motor for the lowest operating costs.
- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- Casing KR EC**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- Casing SKR EC**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Special features SKR EC

- Lowest noise levels for inlet side and case radiation with high performance density.

Common features KR EC and SKR EC

- Impeller**
Centrifugal, with backward curved blades (560 A made of aluminium and 560 B made of plastic). Aerodynamically optimised, inlet via nozzle.

Drive

Energy-saving, speed-control-lable external rotor EC motor in protection category IP44 (KRD EC 560/100/50 B and SKRD EC 560/100/50 B IP54) with highest level of efficiency. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.

Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics.

Power control

Continuously variable speed control with potentiometer or continuously variable speed regulation with universal control system (see table). Performance levels are shown in the performance curve as an example.

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivel angle.

Noise

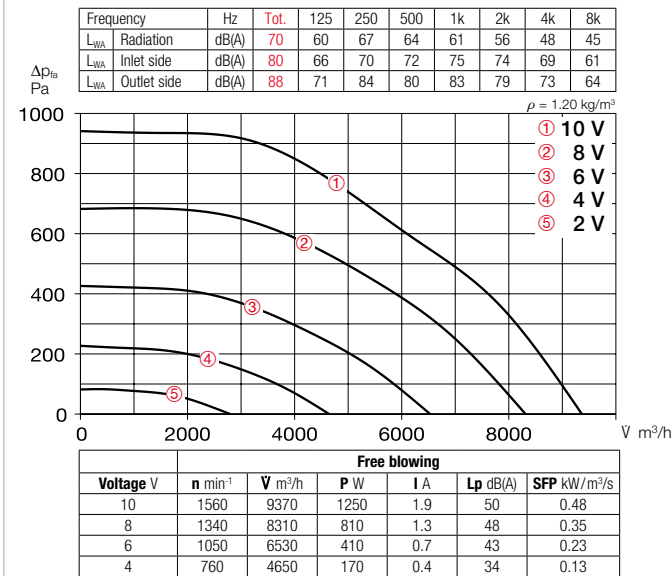
The total level and range are specified above the performance diagram for:

- Case-radiated sound power
 - Inlet side sound power
 - Outlet side sound power.
- The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table and in the table below the performance curve.

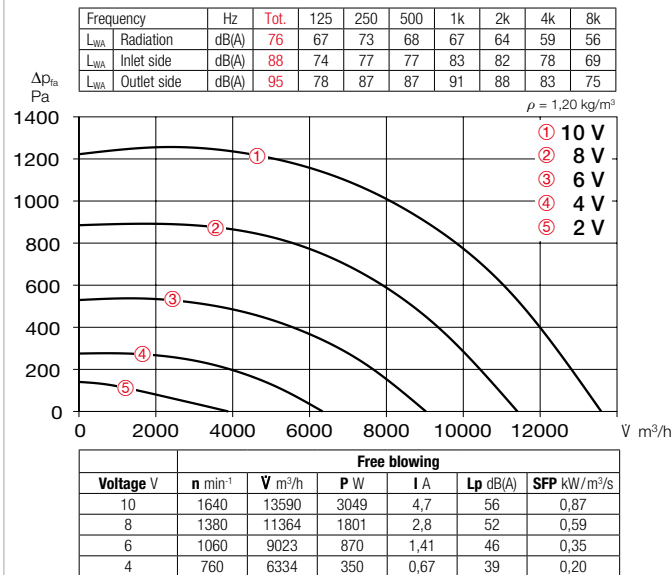
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power con- sum.	Current con- sum.	Prot. cat.	Wiring diagram	Max. air flow temp.	Wgt net aprx.	Universal control system	Speed potentiometer				
												flush-mount.		surface-mount.		
		V m³/h	min ⁻¹	dB(A) in 4 m	kW	A		No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor																
KRD EC 560/100/50 A	08167	9370	1540	50	1.81	2.80	IP44	1479	60	68.5	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	
KRD EC 560/100/50 B	08175	13590	1640	56	4.01	6.10	IP54	1479	60	92.0	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	
Sound-insulated SKR EC – Three-phase current, 3~, 400 V, 50/60 Hz, EC motor																
SKRD EC 560/100/50 A ³⁾	06130	9370	1540	47	1.81	2.80	IP44	1479	60	92.5	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	
SKRD EC 560/100/50 B	08180	12900	1640	51	3.88	6.00	IP54	1479	60	117.0	EUR EC ¹⁾²⁾ 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	01735	

¹⁾ Multiple EC fans can normally be connected. ²⁾ alternative electronic diff. pressure/ temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267), see Accessories.
³⁾ Performance diagram at www.HeliosSelect.de.

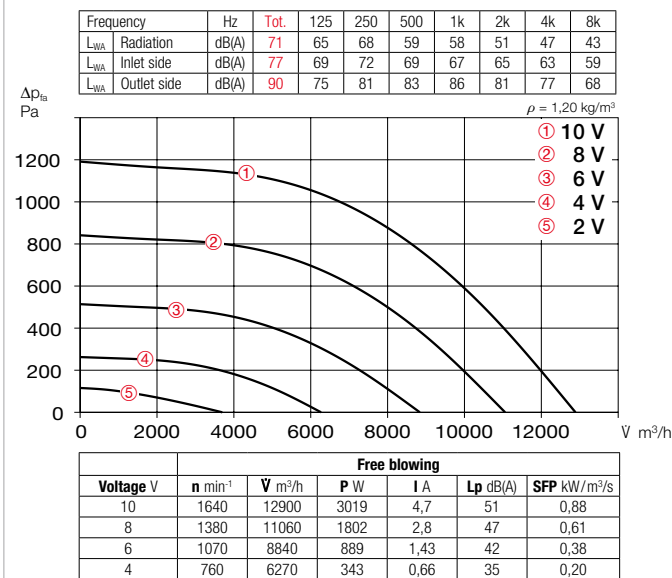
Performance curves KRD EC 560/100/50 A



Performance curves KRD EC 560/100/50 B



Performance curves SKRD EC 560/100/50 B



Accessories

External wall shutter

VK 100/50 Ref. no. 00881

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 100/50 Ref. no. 00116

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

Multi-leaf damper for rectangular duct installation

JVK 100/50 Ref. no. 06917

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

Fitting

FSK 100/50 Ref. no. 00843

For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.

Flexible connector

VS 100/50 Ref. no. 05701

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 100/50 Ref. no. 06926

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

Rectangular duct silencer

KSD 100/50 Ref. no. 08733

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

Rectangular duct air filter

KLF 100/50 Coarse 70%* 08671

KLF 100/50 ePM2.5 65%* 08655

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

Warm water heating element

WHR 2/100/50 Ref. no. 08797

WHR 4/100/50 Ref. no. 08798

For installation in rectangular duct system.



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Universal control system, electronic controllers, speed potentiometer	613 ff.

* See product page 477 for detailed description.

KR 180



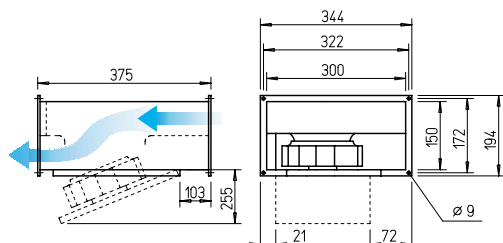
Designed for the delivery of contaminated air.

KR 225



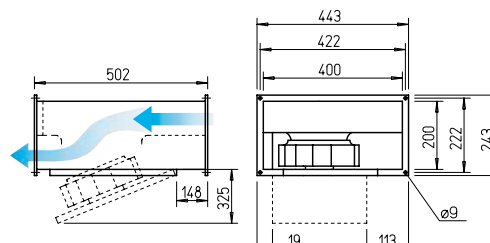
Designed for the delivery of contaminated air.

Dimensions KR 180



Dim. in mm

Dimensions KR 225



Dim. in mm

Centrifugal EC rectangular duct fans with backward curved impeller blades. Retractable motor-impeller unit.

- High-performance impellers with high efficiency.
- Use in extract air and intake air systems for the delivery of larger volume flows.
- Non-critical for the delivery of contaminated air.

Special features

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Compact design, low space requirement, linear rectangular duct throughflow.

Description

- **Casing**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Impeller**
Centrifugal, with backward curved blades made of plastic and galvanised steel. Aerodynamically optimised, inlet via nozzle.
- **Drive**
Through maintenance-free external rotor motor on which the impeller is mounted. Closed design. Protection category IP44. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.

■ Motor protection

Through built-in thermal contacts wired in series to the winding, automatically resetting.

■ Power control

Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

■ Electrical connection

Terminal box (IP54) mounted to external cable.

■ Installation

Installation possible in any position. Note accessibility/swivelling range.

■ Noise

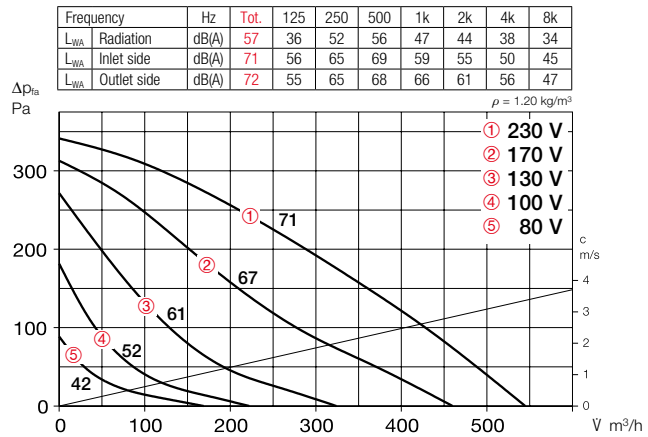
The total level and range are specified above the performance diagram for:

- ☐ 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.

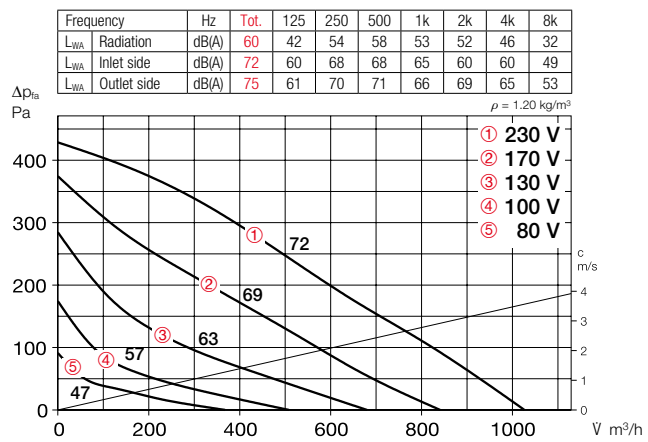
Reference	Page
Selection table	437
Techn. description	436
Planning information	14 ff.
Modular system	434

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net appr.	Speed controller			
		m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	Rat. vol.	Control	kg	Transformer 5-step	surface-mount., electronic	flush-mount., electronic	
								+ °C	+ °C		Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, Capacitor motor, 230 V, 50 Hz, protection category IP44														
KRW 180/2/30/15	08885	540	2460	37	0.06	0.35	508	70	70	5.5	TSW 1.5	01495	ESA 1	00238
KRW 225/2/40/20	08886	1020	2530	40	0.12	0.46	508	70	70	9.8	TSW 1.5	01495	ESA 1	00238

Performance curves KRW 180/2/30/15



Performance curves KRW 225/2/40/20



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 30/15	Ref. no. 00735
VK 40/20	Ref. no. 00874

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 30/15	Ref. no. 00108
WSG 40/20	Ref. no. 00109

Stable construction made of extruded aluminium profiles.

Multi-leaf damper for rectangular duct installation

JVK 30/15	Ref. no. 06927
JVK 40/20	Ref. no. 06910

With double-sided flanges. electrical drive see STM, Accessories.

Fitting

FSK 30/15	Ref. no. 00831
FSK 40/20	Ref. no. 00832

For integration of rectangular duct fans in round duct systems with Ø 160 or 200 mm.

Flexible connector

VS 30/15	Ref. no. 06928
VS 40/20	Ref. no. 05694

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 30/15	Ref. no. 06918
GF 40/20	Ref. no. 06919

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

Rectangular duct silencer

KSD 40/20	Ref. no. 08728
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For outlet and inlet side insertion in the rectangular duct system.

Rectangular duct air filter

KLF 40/20 Coarse 70%*	08720
KLF 40/20 ePM1 50%*	08644

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

Electric heating element

EHR-K 6/40/20	No. 08702
EHR-K 15/40/20	No. 08703

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system for electric heating element

EHSD 16	Ref. no. 05003
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Warm water heating element

WHR 2/40/20	Ref. no. 08782
WHR 4/40/20	Ref. no. 08783

For installation in rectangular duct system.

Temperature control system for warm water heating element

WHS HE	Ref. no. 08319
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* See product page 477 for detailed description.

KR 225



Designed for the delivery of contaminated air.

Radial rectangular duct fans with backward curved impeller blades. Retractable motor-impeller unit.

- High-performance impellers with high efficiency.
- Use in extract air and intake air systems for the delivery of larger volume flows.
- Non-critical for the delivery of contaminated air.

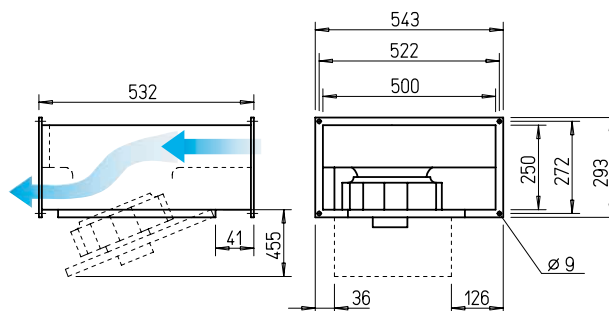
Special features

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- **Casing**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.
- **Drive**
Through maintenance-free external rotor motor on which the impeller is mounted. Closed design. Protection category IP44. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.
- **Motor protection**
Through built-in thermal contacts wired in series to the winding, automatically resetting.
- **Power control**
Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

Dimensions KR 225



Dim. in mm

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Note accessibility/swivel angle. May only be installed with the inspection panel at the bottom or at the side.

Noise

The total level and range are specified above the performance diagram for:

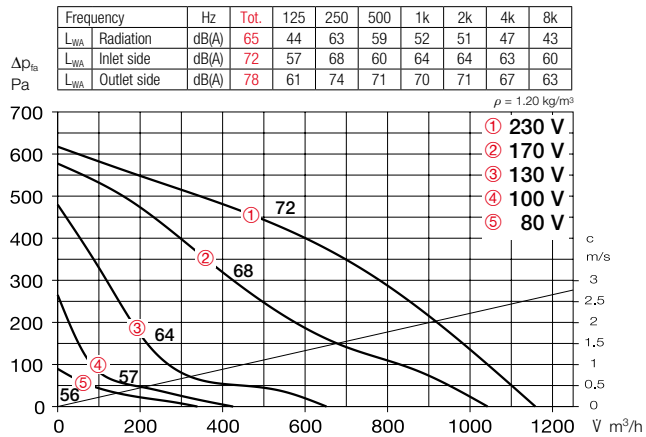
- ☐ Case-radiated sound power
 - ☐ Inlet side sound power
 - ☐ Outlet side sound power
- The inlet side sound power level is also specified above the control voltages in the performance diagram.
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Reference

	Page
Selection table	437
Techn. description	436
Planning information	14 ff.
Modular system	434

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net aprx.	Speed controller			
		\dot{V} m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	Rat. vol.	Control	kg	Transformer 5-step	surface-mount., electronic	flush-mount., electronic	
								+ °C	+ °C		Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, Capacitor motor, 230 V, 50 Hz, protection category IP44														
KRW 225/2/50/25	08873	1160	2680	45	0.17	0.73	508	70	60	15.0	TSW 1.5	01495	ESA 1	00238
													ESU 1	00236

Performance curves KRW 225/2/50/25



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 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 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.



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 Ref. 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 element

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 element

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.

KR 355



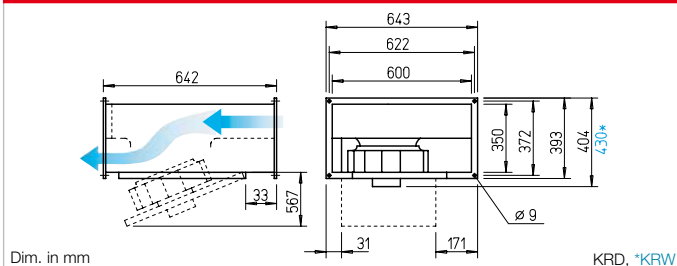
Designed for the delivery of contaminated air.

SKR 355 – sound-insulated

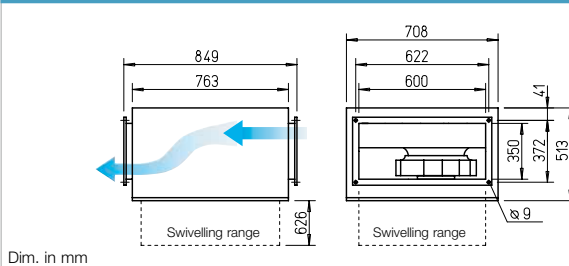


Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 355



Dimensions SKR 355 – sound-insulated



Features KR and SKR

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Special features SKR

- Lowest noise levels for inlet side and case radiation with high performance density.

Description

- **Casing KR**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.

- **Casing SKR**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Common features KR and SKR

- **Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.

■ Drive

Through maintenance-free external rotor motor on which the impeller is mounted. Closed design, protection category IP54. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.

■ Motor protection

Through built-in thermal contacts via triggering device (Accessories).

■ Power control

Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

■ Electrical connection

Terminal box (IP54) mounted to external cable.

■ Installation

Installation possible in any position. Note accessibility/swivelling range.

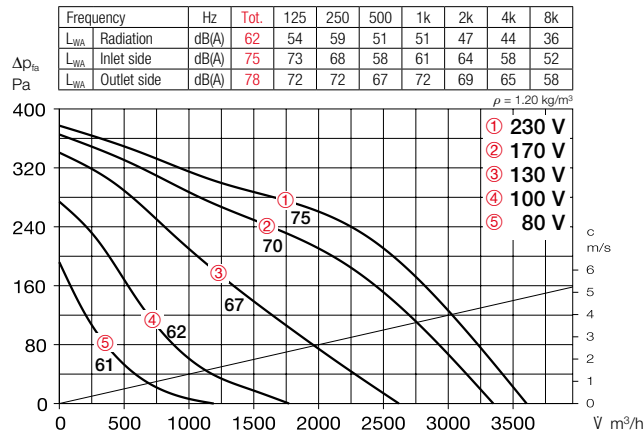
■ Noise

The total level and range are specified above the performance diagram for:

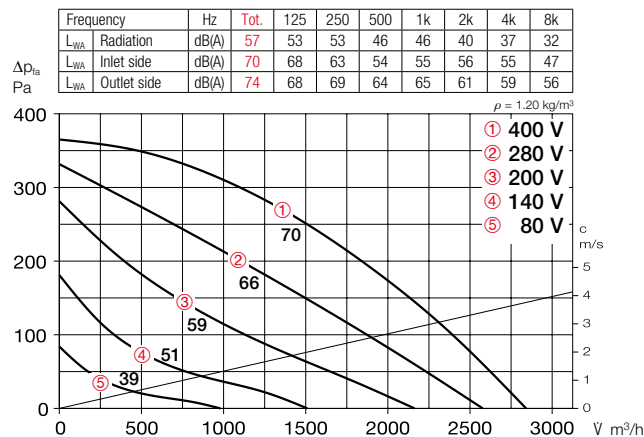
- ☐ Case-radiated sound power
 - ☐ Inlet side sound power
 - ☐ Outlet side sound power
- The inlet side sound power level is also specified above the control voltages in the performance diagram.
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net aprx.	Speed controller 5-step with motor protection circuit breaker	Motor protection circuit breaker for connection of built-in ther- mal contacts		
		Ṽ m³/h	min ⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
KRW 355/4/60/35	08692	3600	1390	42	0.37	1.90	536.1	60	60	28.4	MWS 3	01948	MW	01579
Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
KRD 355/4/60/35	08584	2840	1330	37	0.25	0.80/0.46	860	60	60	27.2	RDS 1	01314	MD	05849
Sound-insulated SKR – Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
SKRW 355/4/60/35	08681	3580	1400	39	0.35	1.82	536.1	60	60	48.8	MWS 3	01948	MW	01579
Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
SKRD 355/4/60/35	08181	2800	1330	34	0.24	0.78/0.45	860	60	60	49.0	RDS 1	01314	MD	05849

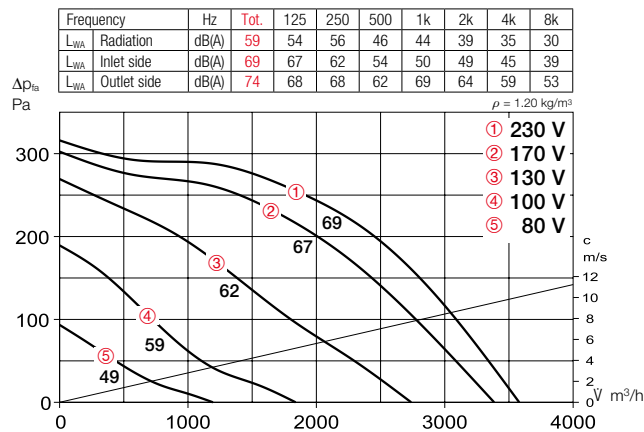
Performance curves KRW 355/4/60/35



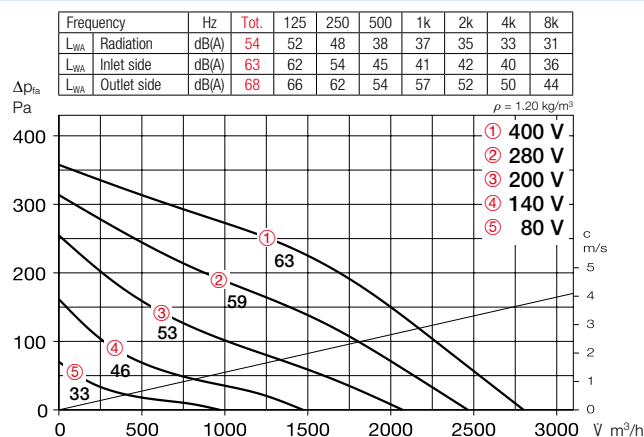
Performance curves KRD 355/4/60/35



Performance curves SKRW 355/4/60/35



Performance curves SKRD 355/4/60/35



Accessories

External wall shutter

VK 60/35 Ref. no. 00878

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 60/35 Ref. 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 Ref. no. 05698

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 Ref. 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.

Electric heating element

EHR-K 15/60/30-35 No. 08706

EHR-K 30/60/30-35 No. 08707

Closed tubular heating element in galvanised steel sheet casing with double-sided connection flanges.

Temperature control system

for electric heating element

EHSD 16 Ref. no. 05003

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.



KR 400/450/500



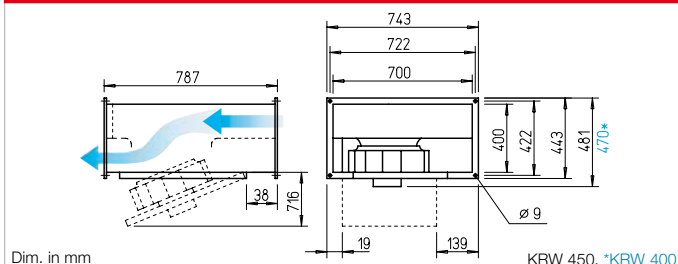
Designed for the delivery of contaminated air.

SKR 400/450/500 – sound-insulated

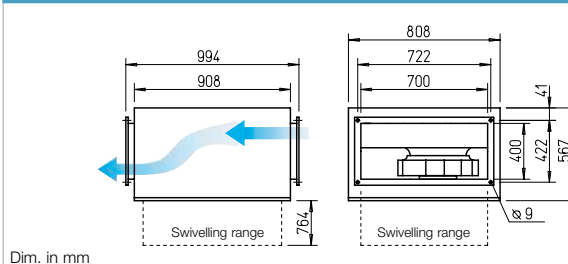


Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 400/450/500



Dimensions SKR 400/450/500 – sound-insulated



Features KR and SKR

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Description

- **Casing KR**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Casing SKR**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Special features SKR

- Lowest noise levels for inlet side and case radiation with high performance density.

Common features KR and SKR

- **Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.

■ Drive

Through maintenance-free external rotor motor on which the impeller is mounted. Closed design, protection category IP54. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.

■ Motor protection

Through built-in thermal contacts via triggering device (Accessories).

■ Power control

Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

■ Electrical connection

Terminal box (IP54) mounted to external cable.

■ Installation

Installation possible in any position. Note accessibility/swivelling range.

■ Noise

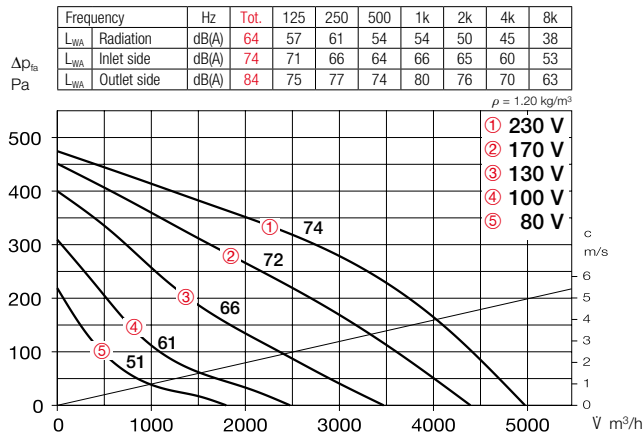
The total level and range are specified above the performance diagram for:

- ☐ 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.

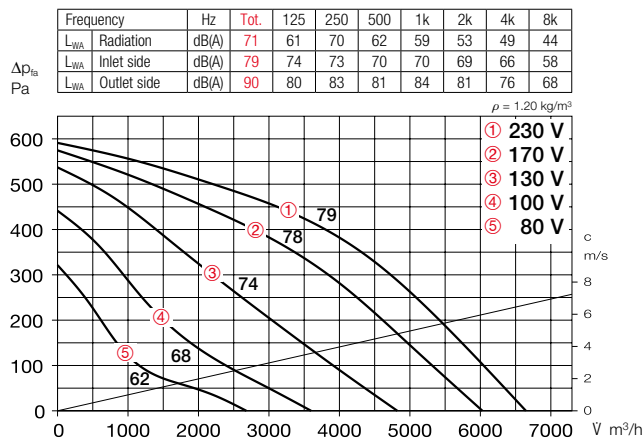
Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case-radiation	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net aprx.	Speed controller 5-step with motor protection circuit breaker		Motor protection circuit breaker for connection of built-in thermal contacts	
		m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
KRW 400/4/70/40	06150	4970	1320	44	0.57	2.60	536.1	60	60	39.0	MWS 5	01949	MW	01579
KRW 450/4/70/40	06151	6650	1390	51	1.04	4.80	536.1	60	60	38.7	MWS 7.5	01950	MW	01579
Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
KRD 450/4/70/40 ¹⁾	08694	5830	1430	47	0.82	2.80/1.60	860	60	40	48.5	RDS 4	01316	MD	05849
Sound-insulated SKR – Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
SKRW 400/4/70/40	06143	4940	1330	42	0.53	2.40	536.1	60	60	62.0	MWS 5	01949	MW	01579
Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
SKRD 450/4/70/40	08196	5430	1430	46	0.82	2.70/1.60	860	60	40	69.3	RDS 4	01316	MD	05849
SKRD 500/6/70/40 ¹⁾	08197	4620	920	36	0.40	1.40/0.82	860	60	60	64.1	RDS 2	01315	MD	05849

¹⁾ Performance diagram at www.HeliosSelect.de. ²⁾ Dimensional drawing at www.HeliosSelect.de.

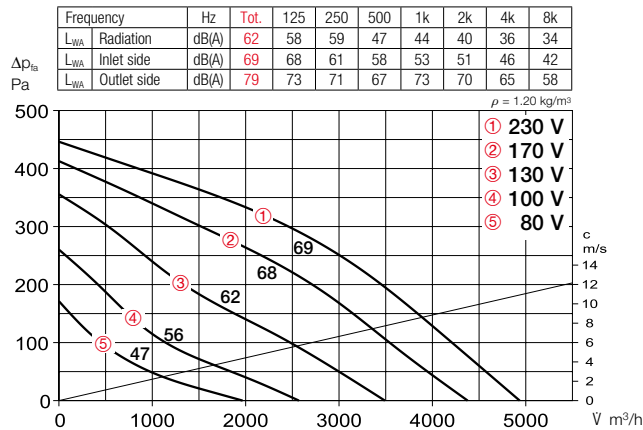
Performance curves KRW 400/4/70/40



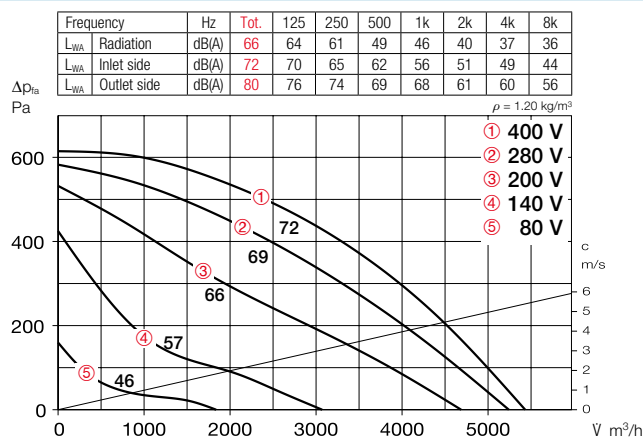
Performance curves KRW 450/4/70/40



Performance curves SKRW 400/4/70/40



Performance curves SKRD 450/4/70/40



Accessories

External wall shutter

VK 70/40 Ref. no. 00879
Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 70/40 Ref. no. 00114
Stable construction made of extruded aluminium profiles, natural colour anodised.

Multi-leaf damper for rectangular duct installation

JVK 70/40 Ref. no. 06915
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.

Fitting

FSK 70/40 Ref. no. 00840
For cost-effective integration of rectangular duct fans in round duct systems with Ø 400 mm.

Flexible connector

VS 70/40 Ref. no. 05699
Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 70/40 Ref. no. 06924
Flange frame made of galvanised steel sheet for connection to the rectangular duct.

Rectangular duct silencer

KSD 70/40 Ref. no. 08731
For outlet and inlet side insertion in the rectangular duct system.

Rectangular duct air filter

KLF 70/40 Coarse 70%* 08723
KLF 70/40 ePM1 50%* 08647
With large bag filter. Galvanised steel sheet casing with double-sided flanges.

Warm water heating element

WHR 2/70/40 Ref. no. 08788
WHR 4/70/40 Ref. no. 08789
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 4/70/40.



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.

* See product page 477 for detailed description.

KR 500



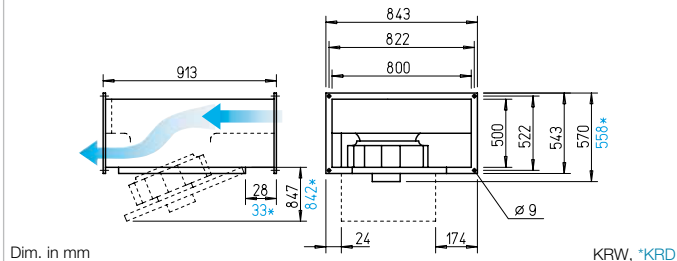
Designed for the delivery of contaminated air.

SKR 500 – sound-insulated

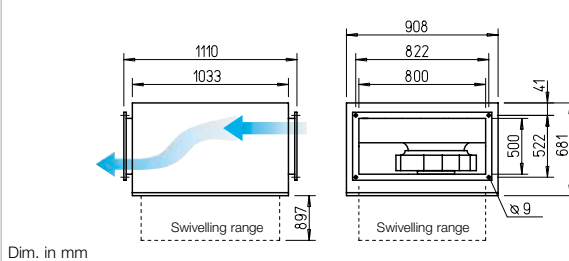


Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 500



Dimensions SKR 500 – sound-insulated



Features KR and SKR

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Special features SKR

- Lowest noise levels for inlet side and case radiation with high performance density.

Description

- **Casing KR**
Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.
- **Casing SKR**
Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Common features KR and SKR

- **Impeller**
Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.

■ Drive

Through maintenance-free external rotor motor on which the impeller is mounted. Closed design, protection category IP54. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.

■ Motor protection

Through built-in thermal contacts via triggering device (Accessories).

■ Power control

Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

■ Electrical connection

Terminal box (IP54) mounted to external cable.

■ Installation

Installation possible in any position. Note accessibility/swivelling range.

■ Noise

The total level and range are specified above the performance diagram for:

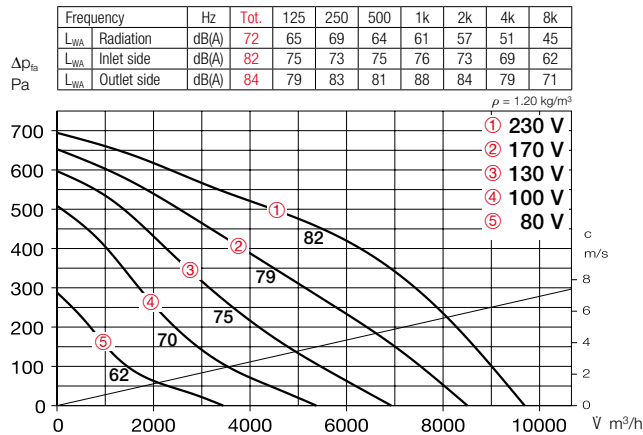
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

The inlet side sound power level is also specified above the control voltages in the performance diagram.

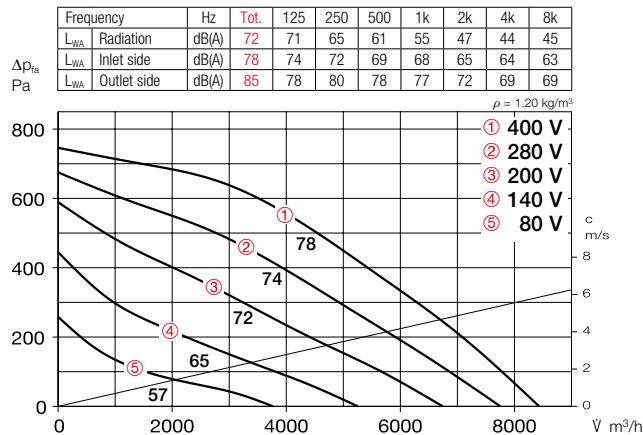
- ☐ The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Type	Ref. no.	Flow rate Free blowing V m³/h	Rated speed min⁻¹	Sound press. case-radiation dB(A) in 4 m	Power consumption		Wiring diagram	Max. air flow temp. at Rat. vol.	Control	Wgt net aprx.	Speed controller 5-step with motor protection circuit breaker		Motor protection circuit breaker for connection of built-in thermal contacts	
					kW	A	No.	+ °C	+ °C	kg	Type	Ref. no.	Type	Ref. no.
Single-phase alternating current, 230 V, 50 Hz, Capacitor motor, protection category IP54														
KRW 500/4/80/50	06152	9700	1370	52	1.55	6.80	536.1	60	60	66.9	MWS 10	01946	MW	01579
Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
KRD 500/4/80/50 A	08643	8430	1360	52	1.21	4.70/2.70	860	60	60	64.2	RDS 7	01578	MD	05849
Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
SKRD 500/4/80/50	08198	8050	1360	48	1.19	4.60/2.70	860	60	60	89.2	RDS 7	01578	MD	05849

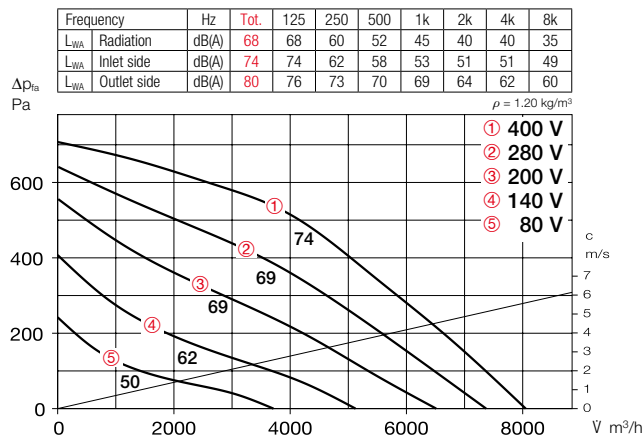
Performance curves KRW 500/4/80/50



Performance curves KRD 500/4/80/50 A



Performance curves SKRD 500/4/80/50



Accessories

External wall shutter

VK 80/50 Ref. no. 00880

Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 80/50 Ref. no. 00115

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

Multi-leaf damper for rectangular duct installation

JVK 80/50 Ref. no. 06916

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

Fitting

FSK 80/50 Ref. no. 00842

For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.

Flexible connector

VS 80/50 Ref. no. 05700

Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 80/50 Ref. no. 06925

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

Rectangular duct silencer

KSD 80/50 Ref. no. 08732

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

Rectangular duct air filter

KLF 80/50 Coarse 70%* 08670

KLF 80/50 ePM1 50%* 08654

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

Warm water heating element

WHR 2/80/50 Ref. no. 08795

WHR 4/80/50 Ref. no. 08796

For installation in rectangular duct system.



Accessory details Page

Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Speed controllers and motor protection circuit breakers	599 ff.

* See product page 477 for detailed description.

KR 560



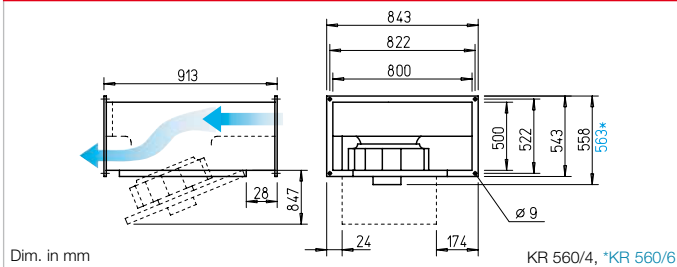
Designed for the delivery of contaminated air.

SKR 560 – sound-insulated

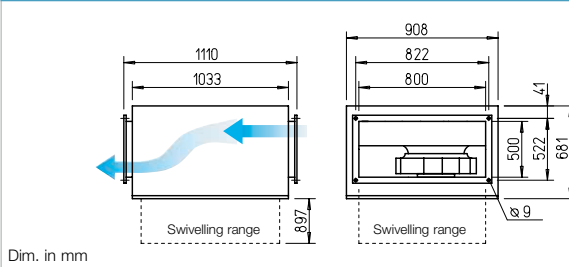


Lowest noise levels for inlet side and case radiation with high performance density. Use in extract air and intake air systems with specific noise level requirements.

Dimensions KR 560



Dimensions SKR 560 – sound-insulated



Features KR and SKR

- High-pressure and high-volume centrifugal fan with high efficiency.
- Particularly easy to service (cleaning) due to retractable motor-impeller unit.
- Easily accessible for cleaning and thus designed for the delivery of contaminated air.
- Linear throughflow.
- Compact design, convenient installation.

Special features SKR

- Lowest noise levels for inlet side and case radiation with high performance density.

Description

Casing KR

Made of galvanised steel sheet. Double-sided rectangular duct flange profiles (20 mm) for installation in rectangular duct system.

Casing SKR

Like above, but with additional sound insulation cladding made of 50 mm thick mineral fibre boards. With a sound absorbing lining on the inside.

Common features KR and SKR

Impeller

Centrifugal, with backward curved blades made of plastic. Aerodynamically optimised, inlet via nozzle.

Drive

Through maintenance-free external rotor motor on which the impeller is mounted. Closed design, protection category IP54. Winding with moisture proof coating. Ball bearing mounted, radio interference-free. Motor and impeller dynamically balanced.

Motor protection

Through built-in thermal contacts via triggering device (Accessories).

Power control

Through voltage reduction using 5-step transformer or electronically (continuously variable). The performances at corresponding voltages are shown in the performance diagram.

Electrical connection

Terminal box (IP54) mounted to external cable.

Installation

Installation possible in any position. Note accessibility/swivelling range.

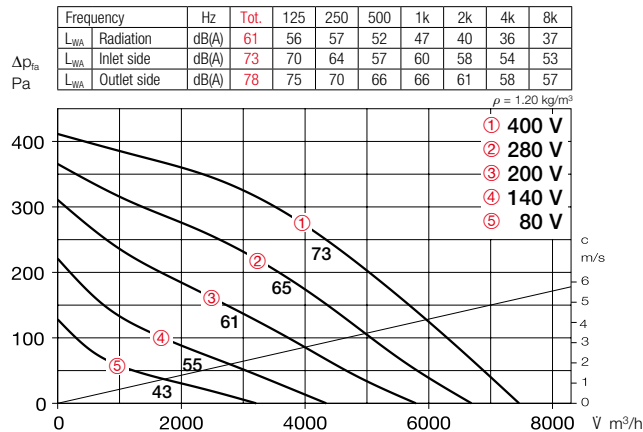
Noise

The total level and range are specified above the performance diagram for:

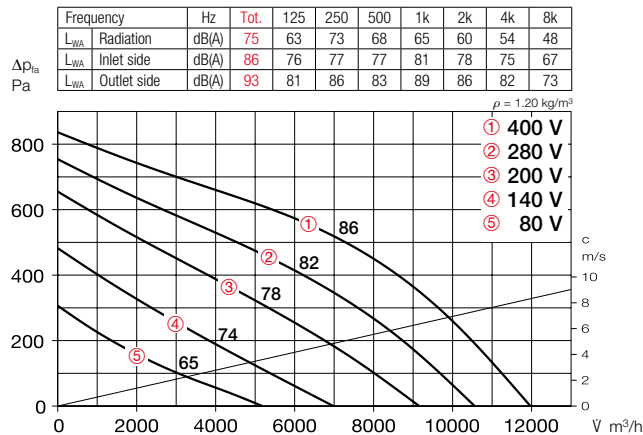
- Case-radiated sound power
 - Inlet side sound power
 - Outlet side sound power
- The inlet side sound power level is also specified above the control voltages in the performance diagram.
- The case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

Type	Ref. no.	Flow rate Free blowing	Rated speed	Sound press. case- radiation	Power consumption		Wiring diagram	Max. air flow temp. at		Wgt net aprx.	Speed controller 5-step with motor protection circuit breaker		Motor protection circuit breaker for connection of built-in thermal contacts	
		m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	Rat. vol. + °C	Control + °C	kg	Type	Ref. no.	Type	Ref. no.
Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
KRD 560/6/80/50	08842	7460	880	41	0.64	2.50/1.40	860	60	60	61.9	RDS 2	01315	MD	05849
KRD 560/4/80/50	06147	11970	1350	55	2.33	7.80/4.50	860	45	45	64.1	RDS 7	01578	MD	05849
Sound-insulated SKR – Three-phase current motor, 230/400 V, 50 Hz, protection category IP54														
SKRD 560/6/80/50	08199	7600	880	36	0.66	2.50/1.50	860	60	60	86.9	RDS 2	01315	MD	05849

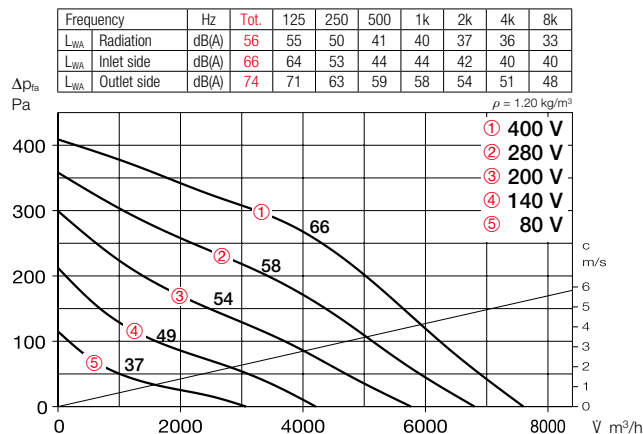
Performance curves KRD 560/6/80/50



Performance curves KRD 560/4/80/50



Performance curves SKRD 560/6/80/50



Accessories

External wall shutter

VK 80/50 Ref. no. 00880
Automatic overpressure shutter made of light grey plastic.

Weather protection grille

WSG 80/50 Ref. no. 00115
Stable construction made of extruded aluminium profiles, natural colour anodised.

Multi-leaf damper for rectangular duct installation

JVK 80/50 Ref. no. 06916
Frame casing with double-sided flanges, positioning mechanism outside of air flow. Electrical drive see STM, Accessories.

Fitting

FSK 80/50 Ref. no. 00842
For cost-effective integration of rectangular duct fans in round duct systems with Ø 500 mm.

Flexible connector

VS 80/50 Ref. no. 05700
Flexible rectangular duct connector with double-sided flange frame.

Counter flange

GF 80/50 Ref. no. 06925
Flange frame made of galvanised steel sheet for connection to the rectangular duct.

Rectangular duct silencer

KSD 80/50 Ref. no. 08732
For outlet and inlet side insertion in the rectangular duct system.

Rectangular duct air filter

KLF 80/50 Coarse 70%* 08670
KLF 80/50 ePM1 50%* 08654
With large bag filter. Galvanised steel sheet casing with double-sided flanges.

Warm water heating element

WHR 2/80/50 Ref. no. 08795
WHR 4/80/50 Ref. no. 08796
For installation in rectangular duct system.



* See product page 477 for detailed description.

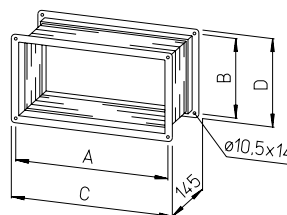
Accessory details	Page
Shutters and weather prot. grille	480, 561 ff.
Filters, heating elements and silencers	481 ff.
Speed controllers and motor protection circuit breakers	599 ff.

Reference	Page
Selection table	437
Techn. description	436
Planning information	14 ff.
Modular system	434

GF and VS



Dimensions GF and VS



Counter flange GF

Flange frame made of galvanised steel sheet, which is dimensionally matched to the rectangular duct fans and their accessories, for rectangular duct connection.

Connector VS

Flexible rectangular duct connection with double-sided flange frame made of galvanised steel sheet and circumferential sealing lip; tightness according to VDI 3803, temperature resistance –10 °C to +80 °C. Central part made of elastic sleeve made of fabric. Dimensionally matched to the rectangular duct fans. In order to prevent structure-borne noise transmission and to compensate for installation tolerances, the connectors are mounted on the inlet side and outlet side between the fan and air duct.

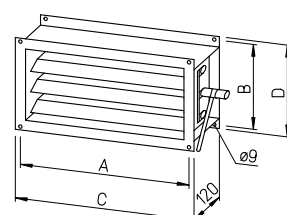
Types VS Ex are available for explosion-proof rectangular duct fans.

Counter flange GF		Connector VS		Connector for explosion-proof fans		Compat. w/ fan rect. duct NS mm i.L.	Dimensions in mm				kW	
Type	Ref. no.	Type	Ref. no.	Type	Ref. no.		A	B	C	D	GF	VS
GF 30/15	06918	VS 30/15	06928	–	–	300 x 150	320	170	340	190	0.7	1.8
GF 40/20	06919	VS 40/20	05694	–	–	400 x 200	420	220	440	240	0.8	2.3
GF 50/25	06920	VS 50/25	05695	VS 50/25 Ex	00265	500 x 250	520	270	540	290	0.9	2.8
GF 50/30	06921	VS 50/30	05696	VS 50/30 Ex	00266	500 x 300	520	320	540	340	1.0	2.9
GF 60/30	06922	VS 60/30	05697	VS 60/30 Ex	00267	600 x 300	620	320	640	340	1.1	3.2
GF 60/35	06923	VS 60/35	05698	VS 60/35 Ex	00268	600 x 350	620	370	640	390	1.1	3.4
GF 70/40	06924	VS 70/40	05699	VS 70/40 Ex	00269	700 x 400	720	420	740	440	1.2	3.7
GF 80/50	06925	VS 80/50	05700	–	–	800 x 500	820	520	840	540	1.5	4.5
GF 100/50	06926	VS 100/50	05701	–	–	1000 x 500	1020	520	1040	540	1.7	5.0

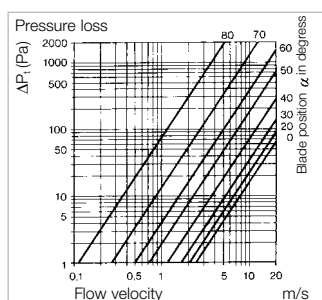
JVK



Dimensions JVK



Type	Ref. no.	Compat. w/ fan rect. duct NS mm i.L.	Rect. duct fan Ø mm	Dimensions in mm				Weight aprx. kg
				A	B	C	D	
JVK 30/15	06927	300 x 150	180	320	170	340	190	3.5
JVK 40/20	06910	400 x 200	200–250	420	220	440	240	4.0
JVK 50/25	06911	500 x 250	315	520	270	540	290	5.0
JVK 50/30	06912	500 x 300	250	520	320	540	340	6.0
JVK 60/30	06913	600 x 300	285	620	320	640	340	7.0
JVK 60/35	06914	600 x 350	315–400	620	370	640	390	7.2
JVK 70/40	06915	700 x 400	355–450	720	420	740	440	9.0
JVK 80/50	06916	800 x 500	400–500	820	520	840	540	11.7
JVK 100/50	06917	1000 x 500	450–630	1020	520	1040	540	13.5



Multi-leaf dampers JVK

Frame casing with double-sided connection flanges made of galvanised steel sheet. Dimensionally matched to the rectangular duct fans. Blades designed as hollow parts. Axles mounted in plastic, synchronously adjustable with external adjusting lever. Adjusting mechanism also outside of the air flow and thus protected against malfunctions due to contamination. The multi-leaf dampers cause an additional pressure loss, which must be considered when dimensioning the system and can be seen in the adjacent diagram. Note the blade position. Only install with horizontal blade position.

STM 10 / STM 2P



Accessories

Shutter servomotor

STM 10 230 V Ref. no. 08791

Shutter servomotor for the electrical opening and closing of the shutters JVK. Installation in any position by attaching the terminal connections (for Ø 8–26 or □ 8–26 mm) and fixation with enclosed anti-twist catch. Shutter position adjustment possible by pressing the gear disengaging button. Two-position control with signal contacts in positions “open” and “closed”. Shutter position indicated on scale (0–95°).

Auxiliary switch

STM 2P Ref. no. 08794

The shutter servomotor STM 10 230 V can also be operated with an auxiliary switch module. Two adjustable micro switches indicate the switch position. The adjustable angle positions can be changed. Position indication via adjusting ring (mechanical, attachable).

Technical data

Supply voltage	100–240 VAC
Frequency	50/60 Hz
Torque	10 Nm
Rotation angle	0 to 95°
Operation	2.5 W
Runtime (open/closed)	150 s
Clockwise/anticlockwise	switchable
Ambient temp.	–30 to +50 °C
Protection category	IP54
Protection class	II
Dim. mm	W 80 x H 124 x D 62
Weight approx.	0.75 kg
Wiring diagram no.	1087