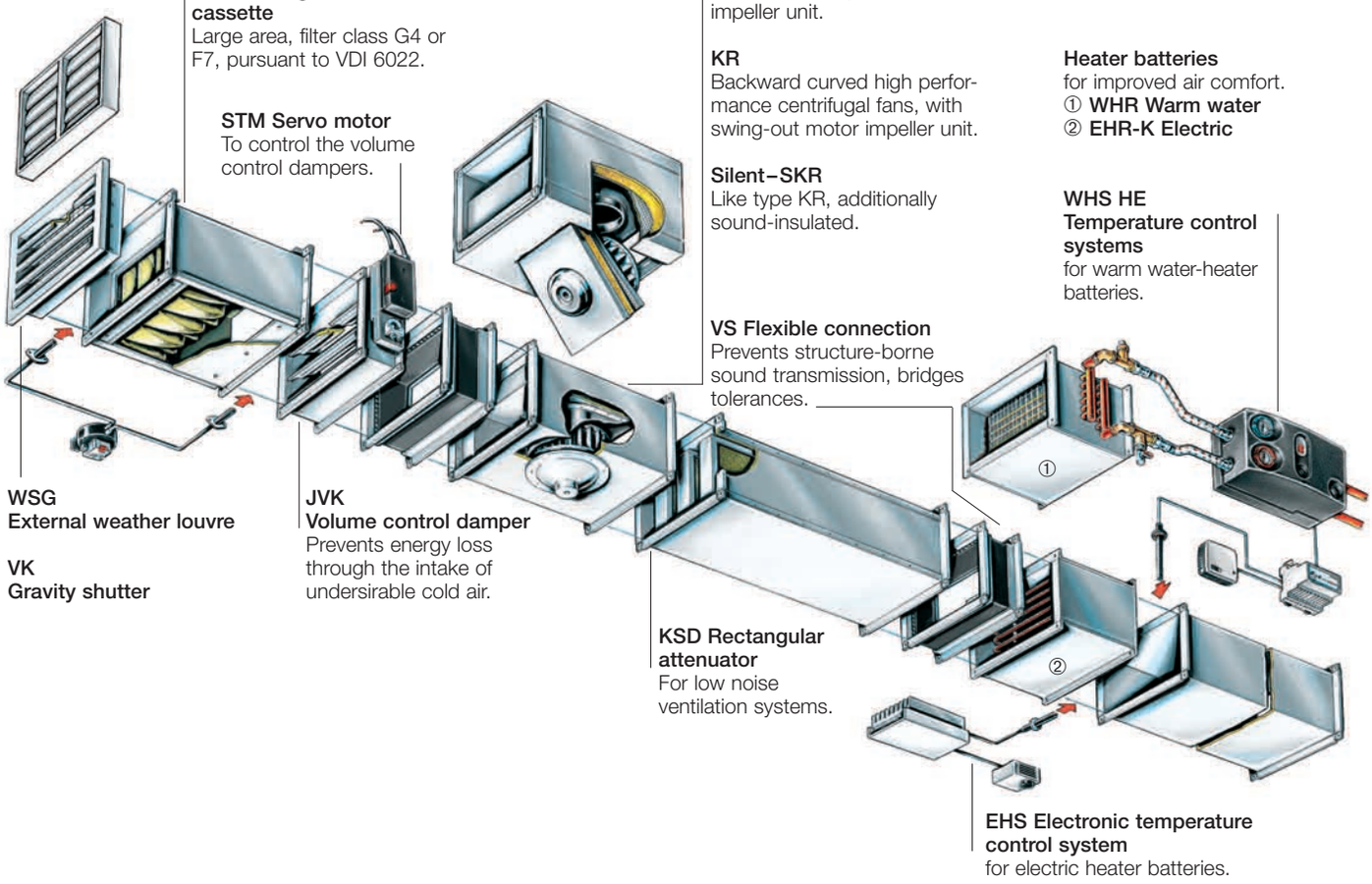
Perfectly coordinated system solutions from the leading supplier.

– The components are available in every size and every performance level.
– All the components are compatible with each other and fit exactly together.
– Short installation time, simple design and rational procurement.



RECTANGULAR CENTRIFUGAL FANS
Selection table
Product-specific information

372

FORWARD CURVED InlineVent® rectangular fans KV

Ø 200 – 450 mm
40 x 20 cm – 100 x 50 cm
V̇ = 920 – 8500 m³/h

374on

BACKWARD CURVED InlineVent® rectangular fans KR

Energy-efficient EC version KR EC

Ø 180 – 560 mm
30 x 15 cm – 100 x 50 cm
V̇ = 660 – 14410 m³/h

390on

Standard AC types KR

Ø 180 – 630 mm
30 x 15 cm – 100 x 50 cm
V̇ = 540 – 12100 m³/h

406on

SOUND-INSULATED rectangular fans Backward curved Acoustic Line SKR

Energy-efficient EC version SKR EC

Ø 315 – 560 mm
50 x 25 cm – 100 x 50 cm
V̇ = 2600 – 13700 m³/h

394on

Standard AC types SKR

Ø 315 – 630 mm
50 x 25 cm – 100 x 50 cm
V̇ = 1770 – 9540 m³/h

410on

ACCESSORIES for InlineVent® rectangular fans

420

This chart is enables the easy selection of rectangular fans by combining the parameters of static pressure increase Δp_{fa}, case breakout and intake air sound levels as sound pressure levels at 4 m (free field conditions).

	Sound press. breakout	Sound press. intake	Air flow volumes V m³/h against static pressure												
Type	L_{PA} dB(A)	L_{PA} dB(A)	(ΔP_{fa}) in Pa												
	in 4 m	in 4 m	**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 250/4/50/30	42	56				2110	1970	1810	1610	1320					
KVD 280/4/60/30	45	59	3930	3780	3620	3470	3310	3150	2990	2820	2620	2000			
KVD 315/4/60/35	48	61						4400	4230	4060	3870	3430	2700		
KVD 355/4/70/40	54	67							5580	5440	5300	4960	4540	3920	
KVD 355/6/70/40	42	53			4970	4680	4380	4060	3680	3190					
KVD 355/8/70/40	35	47	4790	4410	4000	3520	2850								
KVD 400/6/80/50	45	60	7620	7320	7020	6710	6390	6060	5690	5290	4800	1460			
KVD 400/8/80/50	38	51			5140	4670	4150	3420							
KVD 450/6/100/50	50	60							8170	7850	7500	6630	5220		
KVD 450/8/100/50	46	56			7290	6880	6420	5860	5120	3980					
KR EC – with backward curved impellers / SKR EC – with sound isolated casing															
KRW EC 180/30/15	44	58	660	620	590	550	520	480	440	410	360	240	70		
KRW EC 225/40/20	46	60	1430	1280	1130	1010	920	830	750	660	590	440	290	120	
KRW EC 315/50/25	44	56	1410	1320	1190	1060	970	870	780	700	630	480	340	190	
KRW EC 355/60/30	46	58	3110	3000	2870	2730	2590	2430	2260	2020	1750				
KRW EC 400/60/35	56	66	4460	4360	4250	4140	4020	3890	3760	3630	3500	3230	2890	2500	1950
KRW EC 450/70/40	46	59	5450	5210	4970	4740	4480	4210	3960	3670	3380	2580	1570		
KRD EC 450/70/40	54	67	7480	7310	7080	6860	6650	6450	6200	5970	5750	5300	4820		
KRD EC 500/80/50 A	51	62	8810	8520	8230	7940	7630	7260	6890	6560	6120	5300	4170	2590	
KRD EC 500/80/50 B	60	69	10400	10210	10010	9810	9600	9390	9180	8970	8760	8260	7720	7170	6570
KRD EC 560/100/50 A	54	62	11270	10840	10410	10000	9630	9270	8890	8480	8010	6990	5340	1190	
KRD EC 560/100/50 B	60	69	14410	14120	13830	13530	13230	12950	12670	12410	12130	11550	10970	10360	9620
SKRW EC 315/50/25	47	54	2600	2500	2400	2270	2140	2020	1860	1720	1500	1040			
SKRW EC 355/60/30	51	58	3950	3840	3720	3590	3480	3370	3250	3120	3000	2750	2460	2070	580
SKRW EC 400/60/35	51	56	4200	4100	4000	3890	3760	3620	3480	3330	3170	2880	2560	1990	
SKRW EC 450/70/40	45	54	5420	5130	4900	4620	4330	4050	3770	3420	3060	2280	1010		
SKRD EC 355/60/30	52	60	4550	4450	4360	4230	4125	4030	3920	3830	3710	3500	3280	3030	2695
SKRD EC 400/60/35	51	58	5000	4880	4760	4630	4510	4380	4250	4160	3940	3630	3340	3060	2750
SKRD EC 450/70/40 A	51	59	7500	7290	7120	6820	6590	6360	6110	5930	5620	5200	4710	4200	3320
SKRD EC 500/80/50 A	48	56	8600	8250	7910	7540	7190	6830	6450	6070	5660	4770	3270		
SKRD EC 500/80/50 B	55	61	10650	10400	10160	9920	9710	9440	9210	8980	8720	8240	7670	7000	6280
SKRD EC 560/100/50 A	48	56	10070	9740	9410	9080	8720	8310	7870	7420	6890	5700	3990		
SKRD EC 560/100/50 B	56	60	13700	13450	13190	12920	12650	12370	12090	11810	11540	10980	10410	9750	8990
KR – with backward curved impellers / SKR – with sound isolated 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 315/4/50/25	39	51	1760	1580	1390	1110	840	370							
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
KRD 630/6/100/50	44	55	8740	8280	7700	7140	6440	5750	5060	4310	3370	920			
KRD 630/4/100/50	55	66	12100	11800	11510	11230	10940	10640	10320	9980	9620	8810	7760	6210	4620
SKRW 315/4/50/25	34	43	1770	1620	1400	1170	650								
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				
SKRW 500/4/80/50	48	52	9540	9130	8640	8130	7630	7130	6640	6020	5520	4020			
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				
SKRD 630/6/100/50	43	52	8450	8010	7450	6900	6230	5490	4750	3780	2670				

For complete information see the “general technical information” and descriptions on the product pages.

☐ **Position, installation and drainage holes**
Models can be installed in any position, however types KR must be installed with the inspection flap facing downwards or to the side. The swing-out areas need to be cleared and accessed easily for service and maintenance.
If condensation occurs (e.g. ntermittent operation, high humidity or varying temperatures) the fan must be installed in a way that the condensation can drain off unhindered.
Additional holes may have to be drilled into the casing at the appropriate positions. Alternatively, the duct system may have to be insulated to avoid condensation.

☐ **Noise/vibration transmission**
To be prevented from ducting and building. Therefore, the fan should be secured with sound insulation and connected flexibly to the ducting.
For this, see VS accessories.

☐ **Explosion proof models**
With regards to operating conditions and norms please refer to chapter “Information for planning – explosion proof”. The ex-protected types correspond to unit group II, category 2G for operation in zone 1 and 2 pursuant to Directive 2014/34/EU (ATEX).
The motors of the KVD Ex range are equipped with positive temperature coefficient (PTC) thermistors (to monitor the temperature of windings) as standard. They are prewired to the terminal board and must be connected to the motor protection tripping unit MSA.
This makes the KVD Ex fans suitable for speed control that can be carried out via TSD or TSSD transformer controllers. The minimum voltage should not drop below 100 V.
Electronic speed control or regulation by means of a frequency inverter are not permitted.

☐ **Motor - Impeller**
All AC types incorporate a motor with external rotor motor protected to IP 44 or IP 54 within the air flow. They conform to DIN EN 60034/VDE 0530 and DIN EN 60335-1/VDE 0700-1 with an insulation class F, plus moisture protection.
The EC types are equipped with energy-saving, speed-controllable EC external rotor motors protected to IP 44 or IP 54 for the lowest operating costs.
All motors are maintenance free, interference-free, speed controllable and suitable for continuous operation.
The ball bearings are greased for life.
The centrifugal impellers are pressed onto the rotating part of the motor body and dynamically balanced to DIN ISO 1940 T.1 – class 6.3 as one unit.

☐ **Speed control**
All InlineVent® AC rectangular fans are speed controllable via voltage reduction of 0 – 100 %. Thereby the operating level can be adapted to the required air flow volume. Our speed controllers are suitable to control various fans (one or more) up to their maximum nominal output. When selecting a controller not shown on the chart, allow for a 10 % safety margin.
It is possible to control 3 ph.-fans through frequency inverter by onsite installation of sine filters between inverter and motor.
All EC types are steplessly controllable via speed-potentiometer. Regulation is also possible via three-step switch or steplessly via universal control system or electronic differential pressure/temperature controller. For example, the performance levels are shown on the characteristic curve.

☐ **Air flow direction**
The air flow direction of centrifugal fans is fixed and cannot be reversed; but it can be specified in all units through the installation method. The rotational direction and the direction of air flow are marked with arrows on the units and must be checked when installing.

☐ **Incorrect direction of rotation**
If the fan is operated in the incorrect direction of rotation the AC motor will be overloaded and the thermal contacts will trip. Typical indication of this is a virtually low fan efficiency combined with high noise levels and vibration.

☐ **Air flow temperature**
All models are applicable in the range of –40 °C to at least +60 °C, types KV Ex from –20 °C to +40 °C.
The upper temp. threshold value varies between the models and can be found at the related charts on the individual product page.

The models and their specifications

■ **KV**
Centrifugal rectangular fans with forward curved impeller paddles and swing-out motor impeller unit. Low-noise centrifugal impellers in volute casing for high pressure levels.

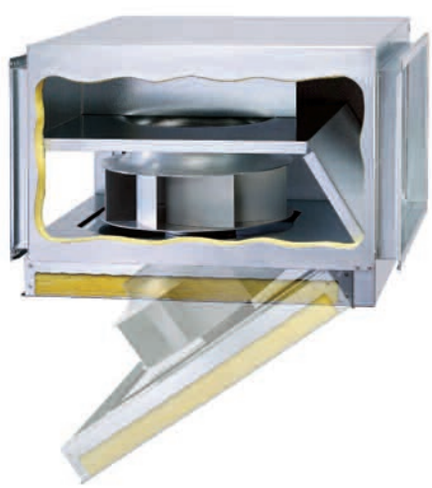
$\dot{V}$ = 920 – 8500 m³/h.
Compact and flat design for versatile usage in exhaust and fresh air systems in commercial and industrial applications.

■ **KR and KR EC**
Rectangular fans with backward curved impeller paddles, with optional energy-saving EC motor technology. High performance centrifugal impellers with high efficiency. Swing-out motor impeller unit.

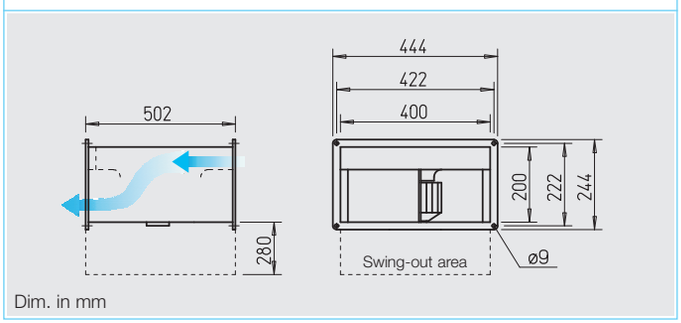
$\dot{V}$ = 540 – 14 410 m³/h.
For conveying higher volume flow rates in extract and fresh air systems.
Uncritical in extraction of polluted air.

■ **SKR and SKR EC**
High performance centrifugal impellers (backward curved) in sound insulated casing with good damping characteristics for noise-critical applications, with optional energy-saving EC motor technology. Performance figures similar to KR.

$\dot{V}$ = 1770 – 13 700 m³/h.
For further reduction of intake and exhaust air noise levels, rectangular attenuators (KLF, accessory) are recommended.
Exhaust and fresh air fans for applications with specific noise level requirements.



KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Note	Page
Selection chart	372
Technical description	373
Design guidelines	10 on
Modul. system components	370

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free.
Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55 for 3 ph.- or IP 44 for 1 ph.-types) is mounted with a permanently attached cable.

Motor protection
Model KVW through thermal contacts which are connected in series with winding and automatically resets. Model KVD through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

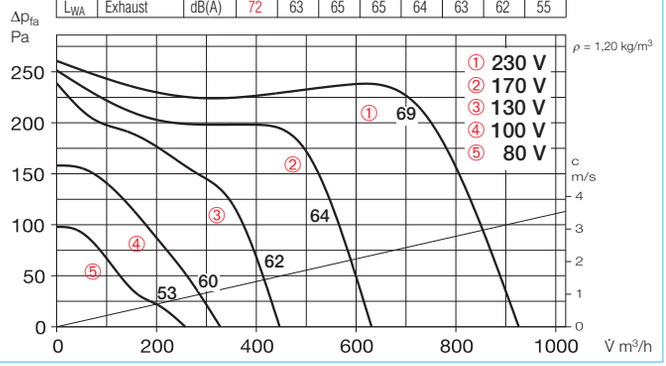
The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
1-phase motor, 230 V, 50 Hz, capacitor motor, protection to IP 44																
KVW 200/4/40/20	5675	925	810	37	0.21	0,95	508	60	50	11	**TSW 1,5**	1495	—	—	—	—
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 200/4/40/20	5676	1130	1260	36	0.25	0,82/0,47	860	70	70	8,6	**TSD 0,8**	1500	**RDS 1**	1314	**MD**	5849

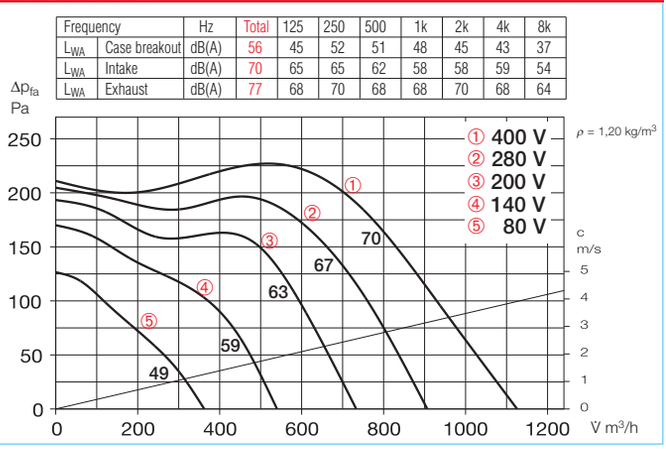
KVW 200/4/40/20

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	57	46	52	50	52	45	40	32
L_{WA}	Intake	dB(A)	69	64	64	61	55	56	54	47
L_{WA}	Exhaust	dB(A)	72	63	65	65	64	63	62	55



KVD 200/4/40/20

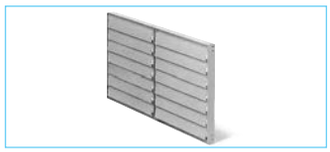
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	56	45	52	51	48	45	43	37
L_{WA}	Intake	dB(A)	70	65	65	62	58	58	59	54
L_{WA}	Exhaust	dB(A)	77	68	70	68	68	70	68	64



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heaters and attenuators	421 on
Temperature control systems for heaters	427, 432 on
Speed controllers and motor full protection devices	525 on

Accessories

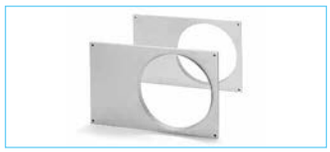
Gravity shutter
Type VK 40/20 Ref. no. 0874
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 40/20 Ref. no. 0109
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 40/20 Ref. no. 6910
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 40/20 Ref. no. 0832
For cost effective adaption of rectangular fans into circular ducting systems with Ø 200 mm.



Flexible connectors
Type VS 40/20 Ref. no. 5694
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 40/20 Ref. no. 6919
Flange frames made of galvanised steel for connection to ducting.

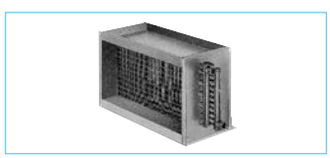
Rectangular attenuator
Type KSD 40/20 Ref. no. 8728
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 40/20 G4 No. 8720
Type KLF 40/20 F7 No. 8644
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 6/40/20 No. 8702
Type EHR-K 15/40/20 No. 8703
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

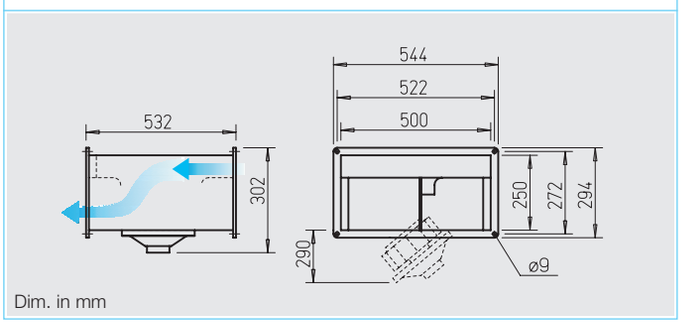
Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/40/20 No. 8782
Type WHR 4/40/20 No. 8783
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free. Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55 for 3 ph., IP 65 for explosion-proof types) is mounted with permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

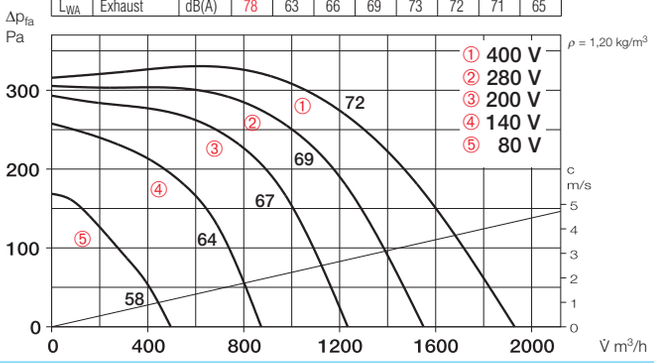
Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Explosion-proof models
Thermal motor protection through built-in PTC (positive temperature coefficient) thermistors which must be connected to a tripping unit MSA. Using this motor protection enables the speed control where a minimum voltage of 100 V must be maintained.

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3 ph. motor, 230/400 V, 50 Hz, protection to IP 44																
KVD 225/4/50/25	5679	1950	1270	43	0.54	1.6/0.93	860	65	60	17	**TSD 1,5**	1501	**RDS 2**	1315	**MD**	5849
Explosion-proof Ex e II, temperature class T1 – T3, 3-phase 400 V, 50 Hz, protection to IP 44																
KVD 225/4/50/25 Ex	6810	1900	1280	43	0.53	0.92	899	40	40	17	**TSD 1,5**	1501	—	—	**MSA**	1289

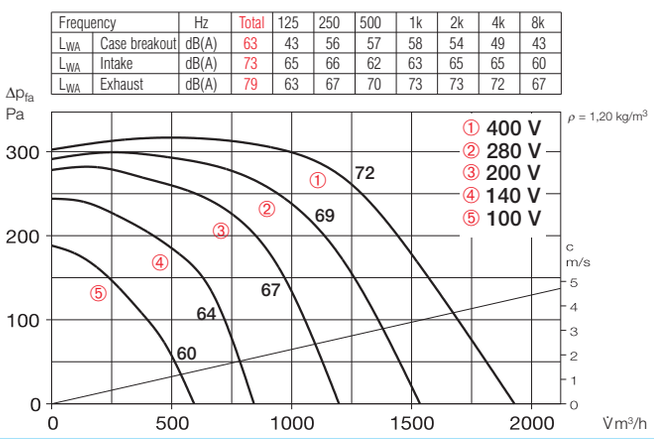
KVD 225/4/50/25

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	63	47	56	56	57	55	51	44
L_{WA}	Intake	dB(A)	72	64	66	62	63	65	64	58
L_{WA}	Exhaust	dB(A)	78	63	66	69	73	72	71	65



KVD 225/4/50/25 Ex

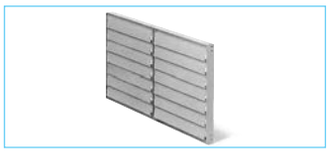
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	63	43	56	57	58	54	49	43
L_{WA}	Intake	dB(A)	73	65	66	62	63	65	65	60
L_{WA}	Exhaust	dB(A)	79	63	67	70	73	73	72	67



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heaters and attenuators	421 on
Temperature control systems for heaters	427, 432 on
Speed controllers and motor full protection devices	525 on

Accessories

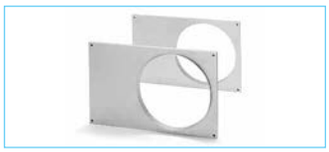
Gravity shutter
Type VK 50/25 Ref. no. 0875
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 50/25 Ref. no. 0110
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 50/25 Ref. no. 6911
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

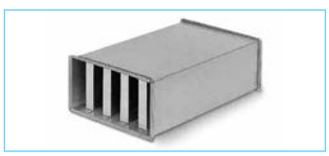
Circular spigot
Type FSK 50/25 Ref. no. 0833
For cost effective adaption of rectangular fans into circular ducting systems with Ø 250 mm.



Flexible connectors
Type VS 50/25 Ref. no. 5695
Flexible in-duct connector with flanges on both sides.
– for Ex-fans
Type VS 50/25 Ex Ref. no. 0265

Counterflange
Type GF 50/25 Ref. no. 6920
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 50/25-30 No. 8729
For in-duct installation on intake or exhaust side.

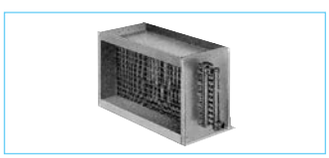


Air-duct filter
Type KLF 50/25-30 G4 No. 8721
Type KLF 50/25-30 F7 No. 8645
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 8/50/25-30 No. 8704
Type EHR-K 24/50/25-30 No. 8705
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

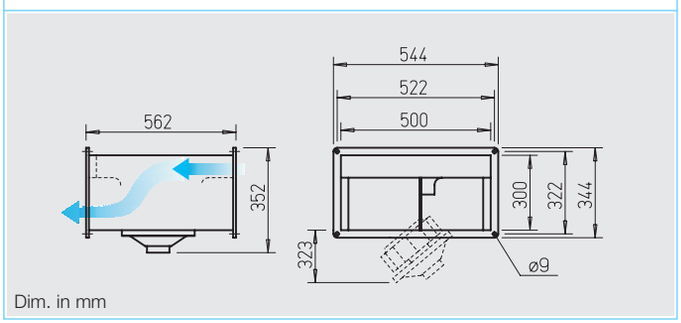
Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/50/25-30 No. 8784
Type WHR 4/50/25-30 No. 8785
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free.
Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55 for 3 ph., IP 65 for explosion-proof types) is mounted with permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

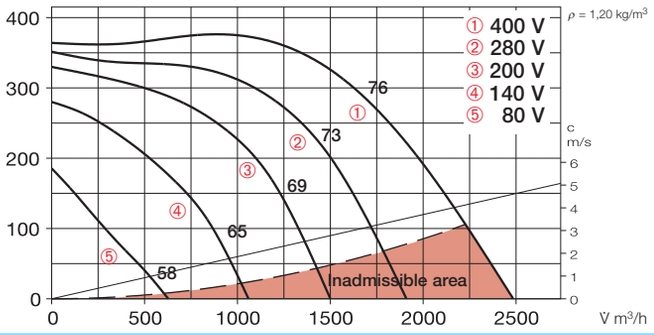
Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Explosion-proof models
Thermal motor protection through built-in PTC (positive temperature coefficient) thermistors which must be connected to a tripping unit MSA. Using this motor protection enables the speed control where a minimum voltage of 100 V must be maintained.

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 250/4/50/30	5682	2200	1260	42	0.72	2.5/1.5	860	60	60	21	**TSD 1,5**	1501	**RDS 2**	1315	**MD**	5849
Explosion-proof Ex e II, temperature class T1 – T3, 3-phase 400 V, 50 Hz, protection to IP 44																
KVD 250/4/50/30 Ex	6811	2300	1240	42	0.74	1.5	899	40	40	21	**TSD 1,5**	1501	—	—	**MSA**	1289

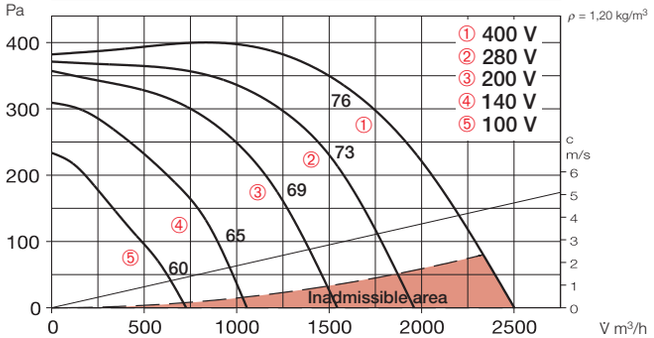
KVD 250/4/50/30

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	62	48	56	54	57	54	52	45
L_{WA}	Intake	dB(A)	76	69	68	63	67	70	68	63
L_{WA}	Exhaust	dB(A)	81	68	71	72	76	74	74	69



KVD 250/4/50/30 Ex

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	62	46	56	53	59	52	51	45
L_{WA}	Intake	dB(A)	73	68	66	59	64	65	64	58
L_{WA}	Exhaust	dB(A)	80	66	68	70	75	72	72	66

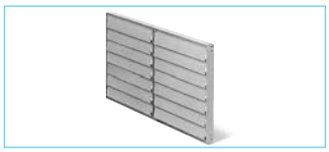


Accessory details **Page**

Shutters, grilles and louvres 420, 487 on
Filters, heaters and attenuators 421 on
Temperature control systems for heaters 427, 432 on
Speed controllers and motor full protection devices 525 on

Accessories

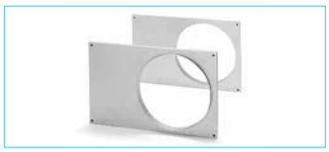
Gravity shutter
Type VK 50/30 Ref. no. 0876
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 50/30 Ref. no. 0111
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 50/30 Ref. no. 6912
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

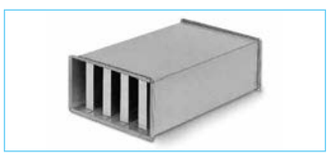
Circular spigot
Type FSK 50/30 Ref. no. 0837
For cost effective adaption of rectangular fans into circular ducting systems with Ø 315 mm.



Flexible connectors
Type VS 50/30 Ref. no. 5696
Flexible in-duct connector with flanges on both sides.
– for Ex-fans
Type VS 50/30 Ex Ref. no. 0266

Counterflange
Type GF 50/30 Ref. no. 6921
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 50/25-30 No. 8729
For in-duct installation on intake or exhaust side.

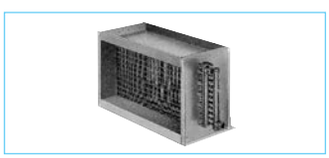


Air-duct filter
Type KLF 50/25-30 G4 No. 8721
Type KLF 50/25-30 F7 No. 8645
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 8/50/25-30 No. 8704
Type EHR-K 24/50/25-30 No. 8705
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

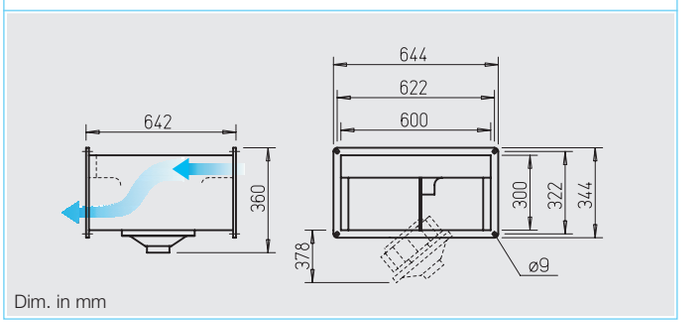
Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/50/25-30 No. 8784
Type WHR 4/50/25-30 No. 8785
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free.
Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55 for 3 ph., IP 65 for explosion-proof types) is mounted with permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

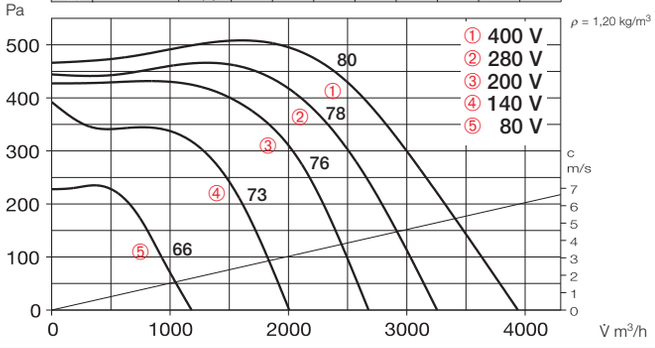
Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Explosion-proof models
Thermal motor protection through built-in PTC (positive temperature coefficient) thermistors which must be connected to a tripping unit MSA. Using this motor protection enables the speed control where a minimum voltage of 100 V must be maintained.

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 280/4/60/30	5684	3950	1300	45	1.67	5.4/3.1	860	65	60	35	**TSD 5,5**	1503	**RDS 7**	1578	**MD**	5849
Explosion-proof Ex e II, temperature class T1 – T3, 3-phase 230/400 V, 50 Hz, protection to IP 44																
KVD 280/4/60/30 Ex	6812	3450	1340	47	1.45	2.9	899	40	40	34	**TSD 5,5**	1503	—	—	**MSA**	1289

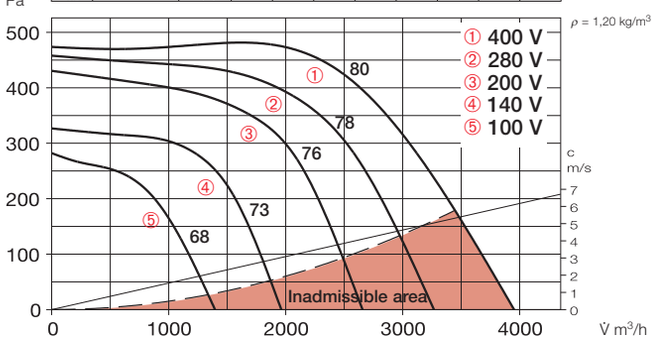
KVD 280/4/60/30

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	65	56	58	57	60	57	55	50
L_{WA}	Intake	dB(A)	80	70	72	67	73	74	72	67
L_{WA}	Exhaust	dB(A)	85	69	73	75	79	78	78	73



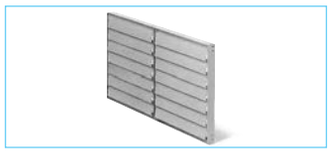
KVD 280/4/60/30 Ex

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	67	54	59	58	63	60	57	52
L_{WA}	Intake	dB(A)	78	71	70	65	72	70	69	64
L_{WA}	Exhaust	dB(A)	86	70	75	75	80	80	79	74



Accessories

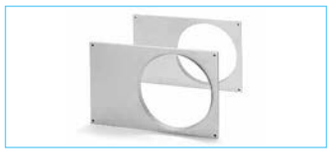
Gravity shutter
Type VK 60/30 Ref. no. 0877
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 60/30 Ref. no. 0112
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 60/30 Ref. no. 6913
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 60/30 Ref. no. 0834
For cost effective adaption of rectangular fans into circular ducting systems with Ø 315 mm.



Flexible connectors
Type VS 60/30 Ref. no. 5697
Flexible in-duct connector with flanges on both sides.
– for Ex-fans
Type VS 60/30 Ex Ref. no. 0267

Counterflange
Type GF 60/30 Ref. no. 6922
Flange frames made of galvanised steel for connection to ducting.

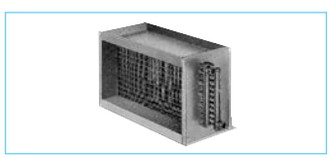
Rectangular attenuator
Type KSD 60/30-35 No. 8730
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 60/30-35 G4 No. 8722
Type KLF 60/30-35 F7 No. 8646
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 15/60/30-35 No. 8706
Type EHR-K 30/60/30-35 No. 8707
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

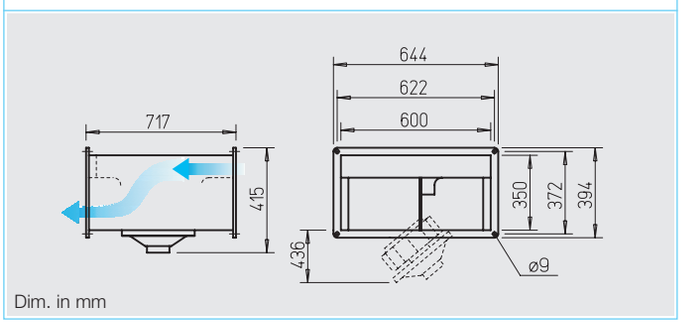
Warm water heater battery
Type WHR 2/60/30-35 No. 8786
Type WHR 4/60/30-35 No. 8787
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE[1] Ref. no. 8319

[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free. Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55 for 3 ph., IP 65 for explosion-proof types) is mounted with permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

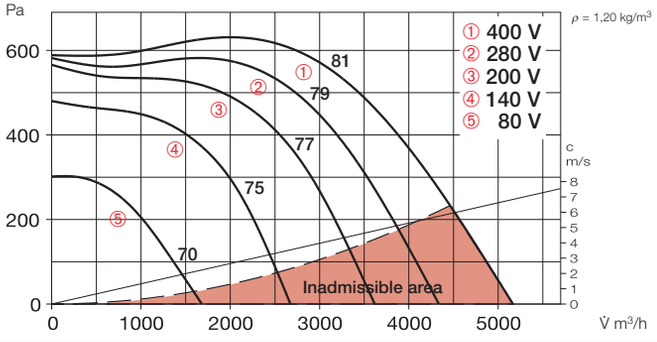
Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Explosion-proof models
Thermal motor protection through built-in PTC (positive temperature coefficient) thermistors which must be connected to a tripping unit MSA. Using this motor protection enables the speed control where a minimum voltage of 100 V must be maintained.

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 315/4/60/35	5686	4500	1350	48	2.06	6.8/3.9	860	60	55	42	**TSD 5,5**	1503	**RDS 7**	1578	**MD**	5849
Explosion-proof Ex e II, temperature class T1 – T3, 3-phase 230/400 V, 50 Hz, protection to IP 44																
KVD 315/4/60/35 Ex	6813	4200	1370	48	2.0	4.0	899	40	40	42	**TSD 5,5**	1503	—	—	**MSA**	1289

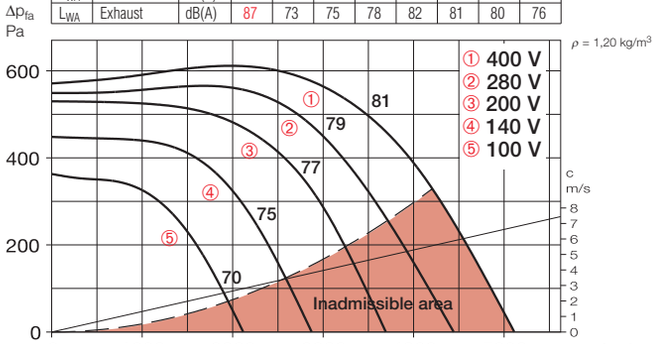
KVD 315/4/60/35

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	55	60	60	63	62	58	54
L_{WA}	Intake	dB(A)	81	73	70	68	74	73	72	68
L_{WA}	Exhaust	dB(A)	87	73	74	78	82	81	80	75



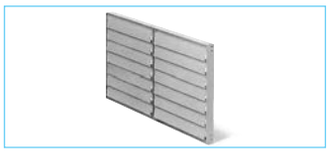
KVD 315/4/60/35 Ex

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	56	60	58	64	61	60	56
L_{WA}	Intake	dB(A)	79	71	70	67	72	72	71	67
L_{WA}	Exhaust	dB(A)	87	73	75	78	82	81	80	76



Accessories

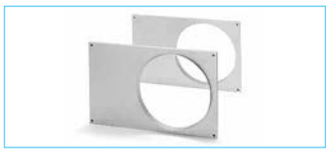
Gravity shutter
Type VK 60/35 Ref. no. 0878
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 60/35 Ref. no. 0113
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 60/35 Ref. no. 6914
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

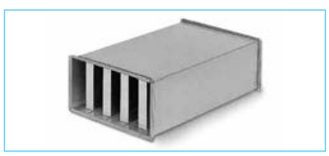
Circular spigot
Type FSK 60/35 Ref. no. 0835
For cost effective adaption of rectangular fans into circular ducting systems with Ø 355 mm.



Flexible connectors
Type VS 60/35 Ref. no. 5698
Flexible in-duct connector with flanges on both sides.
– for Ex-fans
Type VS 60/35 Ex Ref. no. 0268

Counterflange
Type GF 60/35 Ref. no. 6923
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 60/30-35 No. 8730
For in-duct installation on intake or exhaust side.

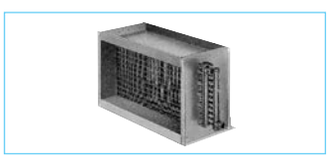


Air-duct filter
Type KLF 60/30-35 G4 No. 8722
Type KLF 60/30-35 F7 No. 8646
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 15/60/30-35 No. 8706
Type EHR-K 30/60/30-35 No. 8707
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

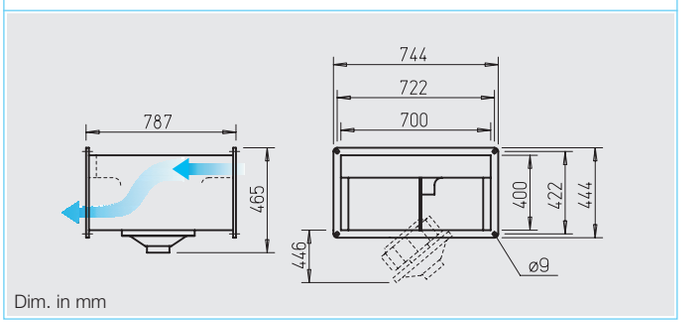
Warm water heater battery
Type WHR 2/60/30-35 No. 8786
Type WHR 4/60/30-35 No. 8787
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE[1] Ref. no. 8319

[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free. Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55 for 3 ph., IP 65 for explosion-proof types) is mounted with permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

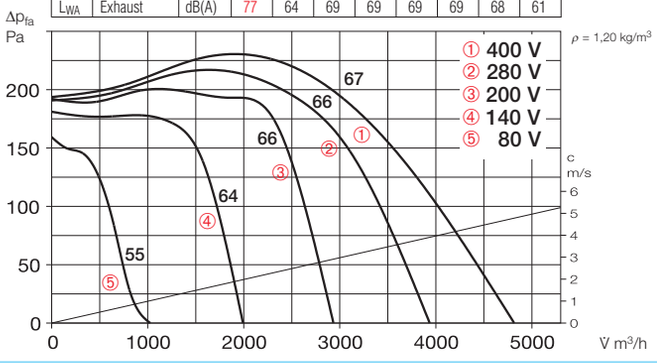
Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Explosion-proof models
Thermal motor protection through built-in PTC (positive temperature coefficient) thermistors which must be connected to a tripping unit MSA. Using this motor protection enables the speed control where a minimum voltage of 100 V must be maintained.

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 355/8/70/40	5687	4850	680	35	1.02	3.9/2.3	860	70	70	49	**TSD 5,5**	1503	**RDS 4**	1316	**MD**	5849
KVD 355/6/70/40	5688	5000	830	42	1.53	5.5/3.2	860	60	60	54	**TSD 5,5**	1503	**RDS 4**	1316	**MD**	5849
KVD 355/4/70/40	5689	5800	1400	54	3.48	10.4/6.0	860	70	50	60	**TSD 11**	1513	**RDS 11**	1332	**MD**	5849
Explosion-proof Ex e II, temperature class T1 – T3, 3-phase 230/400 V, 50 Hz, protection to IP 44																
KVD 355/6/70/40 Ex	6814	4800	800	48	1.40	2.4	899	40	40	49	**TSD 3,0**	1502	—	—	**MSA**	1289

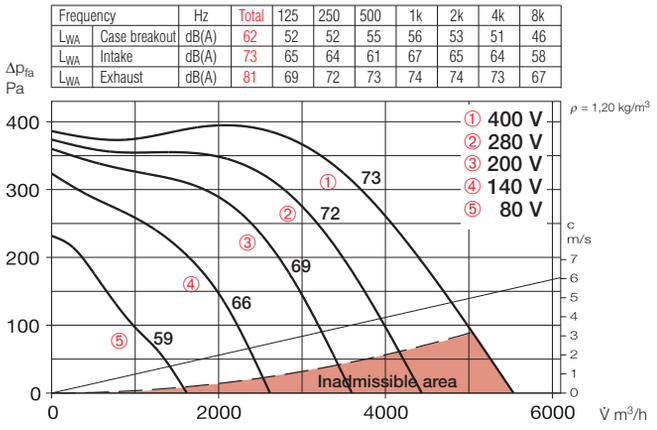
KVD 355/8/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	55	46	50	50	48	45	40	32
L_{WA}	Intake	dB(A)	67	58	59	57	62	60	57	48
L_{WA}	Exhaust	dB(A)	77	64	69	69	69	69	68	61



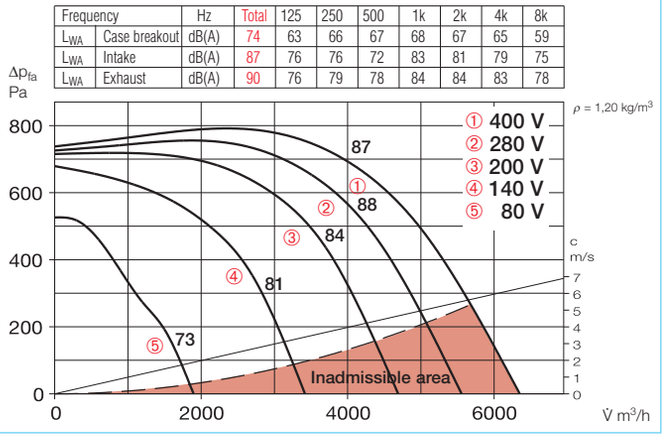
KVD 355/6/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	62	52	52	55	56	53	51	46
L_{WA}	Intake	dB(A)	73	65	64	61	67	65	64	58
L_{WA}	Exhaust	dB(A)	81	69	72	73	74	74	73	67



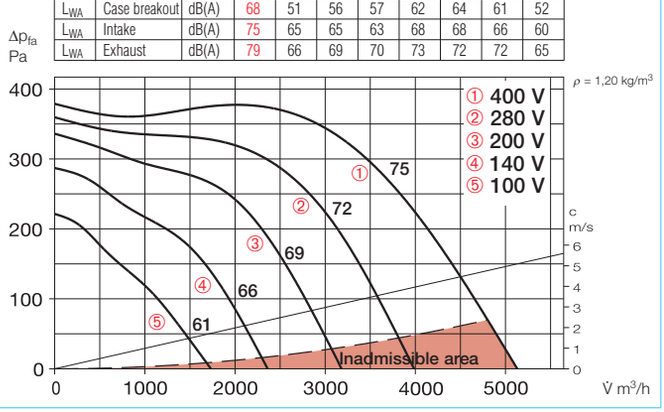
KVD 355/4/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	74	63	66	67	68	67	65	59
L_{WA}	Intake	dB(A)	87	76	76	72	83	81	79	75
L_{WA}	Exhaust	dB(A)	90	76	79	78	84	84	83	78



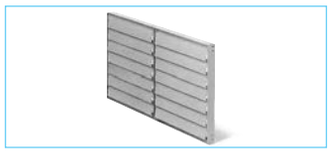
KVD 355/6/70/40 Ex

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	51	56	57	62	64	61	52
L_{WA}	Intake	dB(A)	75	65	65	63	68	68	66	60
L_{WA}	Exhaust	dB(A)	79	66	69	70	73	72	72	65



Accessories

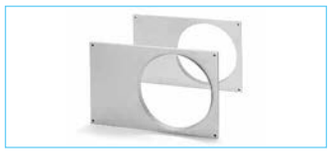
Gravity shutter
Type VK 70/40 Ref. no. 0879
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 70/40 Ref. no. 0114
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 70/40 Ref. no. 6915
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 70/40 Ref. no. 0840
For cost effective adaption of rectangular fans into circular ducting systems with Ø 400 mm.



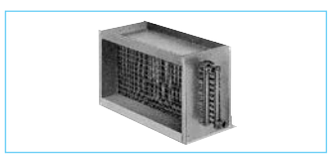
Flexible connectors
Type VS 70/40 Ref. no. 5699
Flexible in-duct connector with flanges on both sides.
– for Ex-fans
Type VS 70/40 Ex Ref. no. 0269

Counterflange
Type GF 70/40 Ref. no. 6924
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 70/40 Ref. no. 8731
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 70/40 G4 No. 8723
Type KLF 70/40 F7 No. 8647
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/70/40 No. 8788
Type WHR 4/70/40 No. 8789
For in-duct installation.

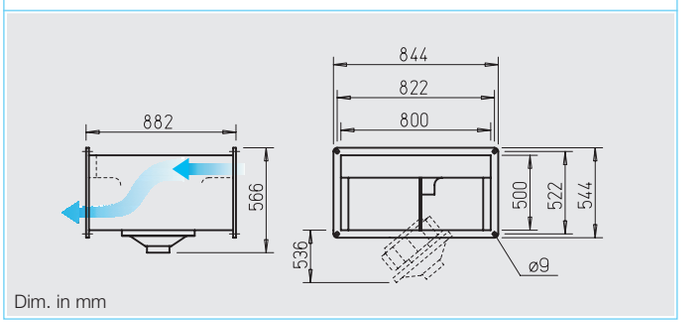


Temperature control system for warm water heater battery
Type WHS HE[1)] Ref. no. 8319

[1)] In model WHR 4/70/40 the heat output is reduced to 2200 l/h.

Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heaters and attenuators	421 on
Temperature control systems for heaters	427, 432 on
Speed controllers and motor full protection devices	525 on

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free. Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55) is mounted with a permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

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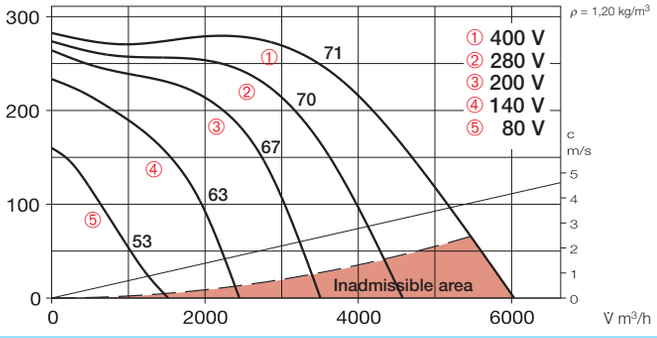
Modul. system components	370

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 400/8/80/50	5690	5400	640	38	1.29	5.1/2.9	860	70	70	66	**TSD 5,5**	1503	**RDS 4**	1316	**MD**	5849
KVD 400/6/80/50	5691	7600	860	45	2.81	9.1/5.3	860	70	50	70	**TSD 7,0**	1504	**RDS 7**	1578	**MD**	5849

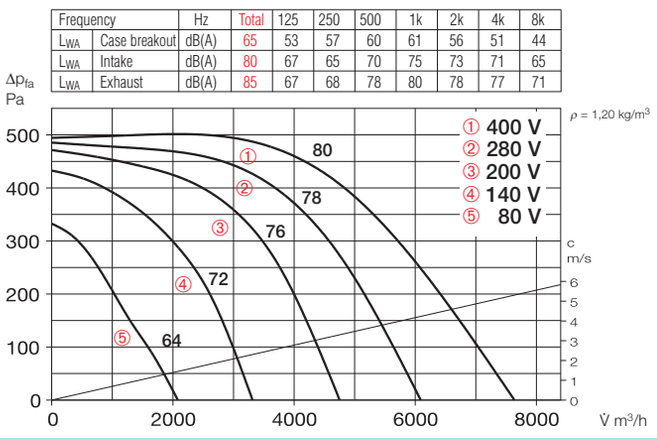
KVD 400/8/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	58	46	50	54	53	47	42	34
L_{WA}	Intake	dB(A)	71	62	59	62	66	65	63	54
L_{WA}	Exhaust	dB(A)	77	62	63	70	71	70	69	60



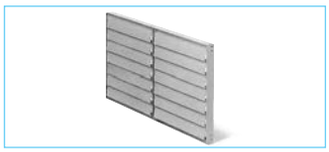
KVD 400/6/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	65	53	57	60	61	56	51	44
L_{WA}	Intake	dB(A)	80	67	65	70	75	73	71	65
L_{WA}	Exhaust	dB(A)	85	67	68	78	80	78	77	71



Accessories

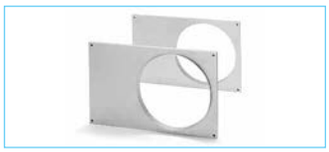
Gravity shutter
Type VK 80/50 Ref. no. 0880
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 80/50 Ref. no. 0115
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 80/50 Ref. no. 6916
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

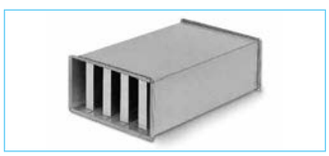
Circular spigot
Type FSK 80/50 Ref. no. 0842
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



Flexible connectors
Type VS 80/50 Ref. no. 5700
Flexible in-duct connector with flanges on both sides.

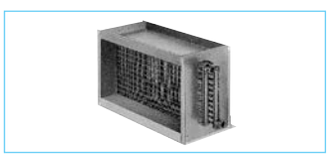
Counterflange
Type GF 80/50 Ref. no. 6925
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 80/50 Ref. no. 8732
For in-duct installation on intake or exhaust side.



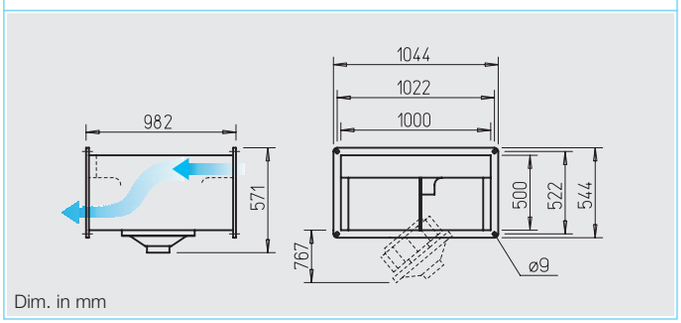
Air-duct filter
Type KLF 80/50 G4 No. 8670
Type KLF 80/50 F7 No. 8654
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/80/50 No. 8795
Type WHR 4/80/50 No. 8796
For in-duct installation.



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heaters and attenuators	421 on
Speed controllers and motor full protection devices	525 on

KV



Dim. in mm

Rectangular centrifugal fan with forward curved impeller blades and swing-out motor impeller unit.

- Low-noise centrifugal impellers in aerodynamic galvanised steel casing for high pressure levels.
- Compact and flat design for use in extract and fresh air systems in commercial and industrial applications.

Specification

Casing
Made of galvanised steel and flanged on both ends. Space saving, compact design.

Easy to clean and service thanks to the swing-out motor impeller unit.

Impeller
Forward curved centrifugal impeller made of galvanised steel, highly efficient with low noise levels. Aerodynamically optimised casing; intake air flow by means of an inlet nozzle.

Motor
Totally enclosed, maintenance-free external rotor motor with directly fitted impeller, protected to IP 44.
Windings with protection against moisture. Ball bearing mounted and interference-free.
Dynamically balanced with resilient motor mounting bracket for low vibration and low noise operation.

Electrical connection
Terminal box (IP 55) is mounted with a permanently attached cable.

Motor protection
Through built-in thermal contacts which must be connected to a motor full protection device.

Speed control
By voltage reduction using a 5 speed transformer controller (recommended) or an electronic controller (stepless). The performance figures at corresponding voltages are given in the performance curve.

Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

Installation
Possible in any position.
Attention should be paid to accessibility/swing out.

Note	Page
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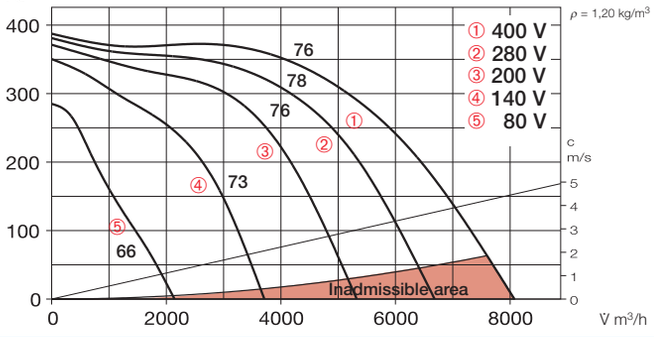
Modul. system components	370

Type	Ref. no.	Air flow volume, free discharge	Nominal R.P.M.	Sound press. case breakout	Power consumption		Wiring diagram	Max. air flow temperature at Nom. vol.	Max. air flow temperature at Control	Weight net approx.	Speed controller 5-step without motor protect. unit		Speed controller 5-step with motor protect. unit		Motor full protection device to connect built-in thermal contacts	
		V m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
3-phase motor, 230/400 V, 50 Hz, protected to IP 44																
KVD 450/8/100/50	5692	7600	690	46	2.26	8.6/5.0	860	60	50	90	**TSD 7,0**	1504	**RDS 7**	1578	**MD**	5849
KVD 450/6/100/50	5693	8500	870	50	3.65	11.6/6.7	860	70	50	90	**TSD 11**	1513	**RDS 11**	1332	**MD**	5849

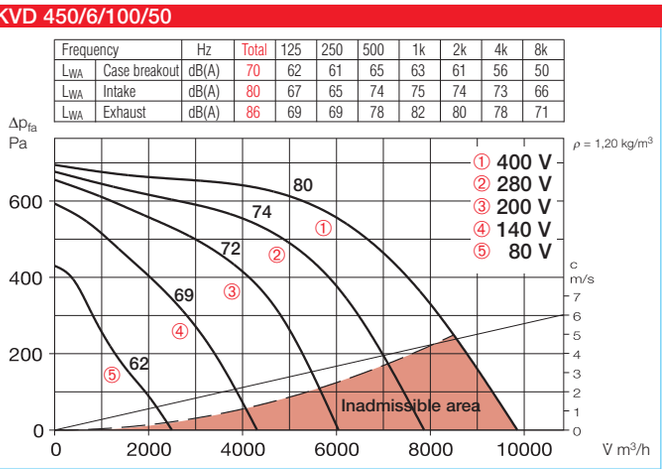
KVD 450/8/100/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	56	56	62	58	57	54	47
L_{WA}	Intake	dB(A)	76	63	62	70	70	70	68	59
L_{WA}	Exhaust	dB(A)	82	65	67	76	78	76	74	65



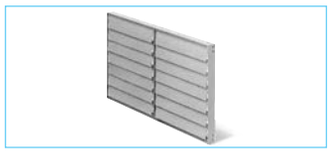
KVD 450/6/100/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	70	62	61	65	63	61	56	50
L_{WA}	Intake	dB(A)	80	67	65	74	75	74	73	66
L_{WA}	Exhaust	dB(A)	86	69	69	78	82	80	78	71



Accessories

Gravity shutter
Type VK 100/50 Ref. no. 0881
External airflow operated gravity shutter made of polymer, light grey.



External louvres
Type WSG 100/50 Ref. no. 0116
Robust construction made of aluminium extrusion profile, natural colour anodised.

Volume control damper for ducting
Type JVK 100/50 Ref. no. 6917
Casing made with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 100/50 Ref. no. 0843
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.

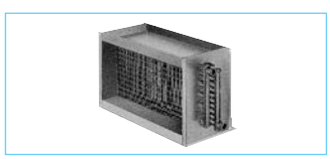
Flexible connectors
Type VS 100/50 Ref. no. 5701
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 100/50 Ref. no. 6926
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 100/50 Ref. no. 8733
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 100/50 G4 No. 8671
Type KLF 100/50 F7 No. 8655
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/100/50 No. 8797
Type WHR 4/100/50 No. 8798
For in-duct installation.



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heaters and attenuators	421 on
Speed controllers and motor full protection devices	525 on

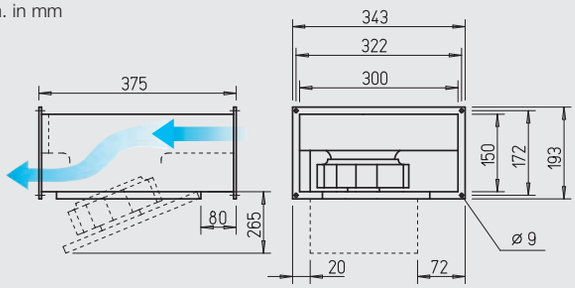
ECgreen Vent 50% Saving * * with speed control

KR EC

Suitable for polluted air.

(fig. similar)

Dim. in mm



Rectangular EC centrifugal fan with backward curved impeller and swing-out motor impeller unit.

- Highly efficient EC-motor for lowest operating costs.
- High performance with high efficiency impellers.
- Use in extract and fresh air systems for conveying higher air flow volume.
- Suitable for extraction of polluted air.

Special features

- ☐ High pressure and high volume specific centrifugal fan with high efficiency.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Compact design, less space requirement and straight through-flow.

Specification

Casing
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

Motor
Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

Electrical connection
Terminal box (IP 54) fitted to flying lead.

Installation
Installation in any position. Allowance must be made for the motor swing out access.

Sound levels
Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

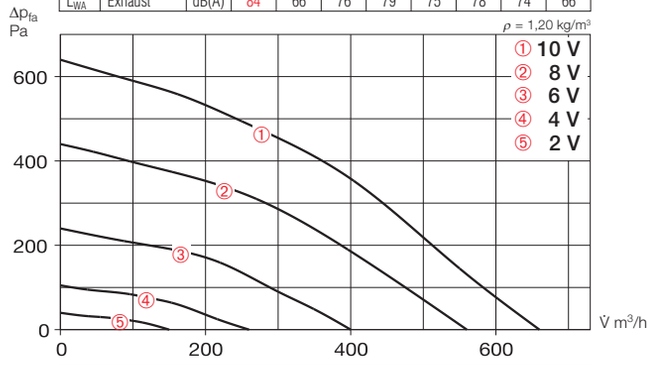
Note	Page
Selection chart	372
Technical description	373
Design guidelines	10 on
Modul. system components	370

Type	Ref no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 44															
KRW EC 180/30/15	8168	660	3700	44	0.11	0.90	979	60	6.2	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories

KRW EC 180/30/15

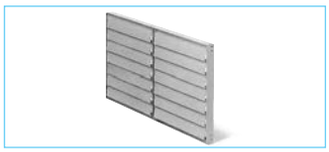
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	64	50	52	61	57	55	49	42
L_{WA}	Intake	dB(A)	78	63	72	74	67	66	67	60
L_{WA}	Exhaust	dB(A)	84	66	76	79	75	78	74	66



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3700	660	113	0,89	44	0,62
8	3120	560	70	0,58	40	0,45
6	2300	400	30	0,25	34	0,27
4	1500	260	10	0,10	26	0,14

Accessories

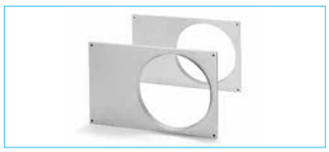
Gravity shutter
Type VK 30/15 Ref. no. 0735
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 30/15 Ref. no. 0108
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 30/15 Ref. no. 6927
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 30/15 Ref. no. 0831
For cost effective adaption of rectangular fans into circular ducting systems with Ø 160 mm.



Flexible connectors
Type VS 30/15 Ref. no. 6928
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 30/15 Ref. no. 6918
Flange frames made of galvanised steel for connection to ducting.

Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heater batteries and attenuators	421 on
Universal control system, electronic controller, speed-potentiometer	539 on

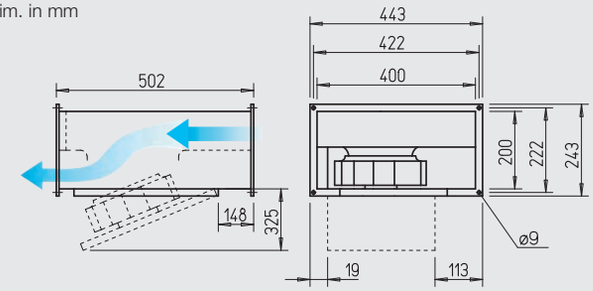
ECgreen Vent **50% Saving *** ** with speed control*

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



Rectangular EC centrifugal fan with backward curved impeller and swing-out motor impeller unit.

- Highly efficient EC-motor for lowest operating costs.
- High performance with high efficiency impellers.
- Use in extract and fresh air systems for conveying higher air flow volume.
- Suitable for extraction of polluted air.

■ Special features

☐ High pressure and high volume specific centrifugal fan with high efficiency.

☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.

☐ For cleaning, easy access and therefore suitable for extraction of polluted air.

☐ Compact design, less space requirement and straight through-flow.

■ Specification

☐ Casing
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels
Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

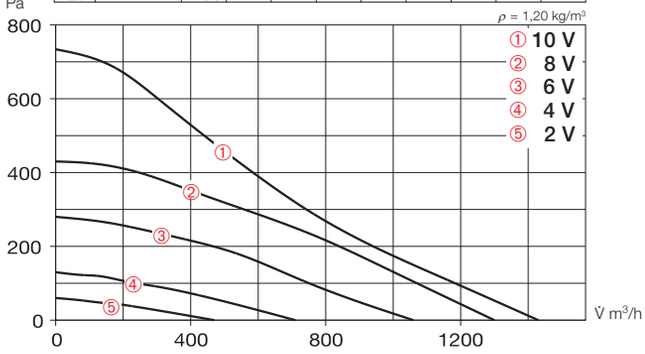
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		V̇ m^3/h	min^{-1}	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 44															
KRW EC 225/40/20	8169	1430	2650	46	0,16	1,26	979	60	9,8	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories

KRW EC 225/40/20

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	50	62	63	54	50	45	37
L_{WA}	Intake	dB(A)	80	72	78	73	67	64	64	54
L_{WA}	Exhaust	dB(A)	83	71	78	78	74	72	68	59

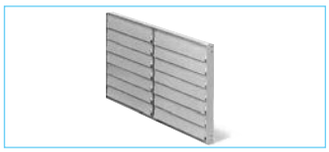


	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2650	1430	160	1,26	46	0,40
8	2490	1300	118	0,95	45	0,33
6	2000	1060	60	0,50	40	0,20
4	1350	710	20	0,18	32	0,10

Accessory details — Page

Accessories

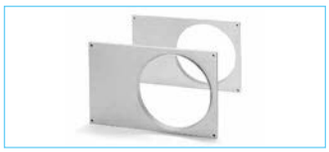
Gravity shutter
Type VK 40/20 Ref. no. 0874
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 40/20 Ref. no. 0109
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 40/20 Ref. no. 6910
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 40/20 Ref. no. 0832
For cost effective adaption of rectangular fans into circular ducting systems with Ø 200 mm.



Flexible connectors
Type VS 40/20 Ref. no. 5694
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 40/20 Ref. no. 6919
Flange frames made of galvanised steel for connection to ducting.

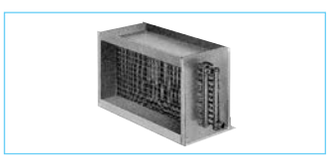
Rectangular attenuator
Type KSD 40/20 Ref. no. 8728
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 40/20 G4 No. 8720
Type KLF 40/20 F7 No. 8644
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 6/40/20 No 8702
Type EHR-K 15/40/20 No. 8703
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/40/20 No. 8782
Type WHR 4/40/20 No. 8783
For in-duct installation.



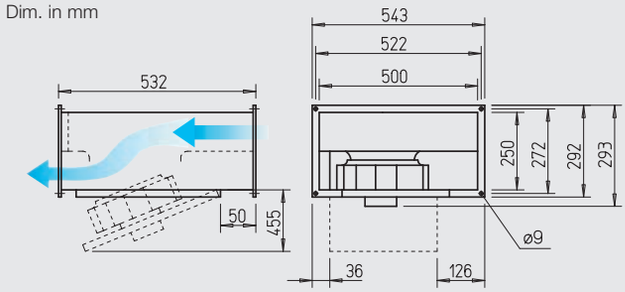
Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



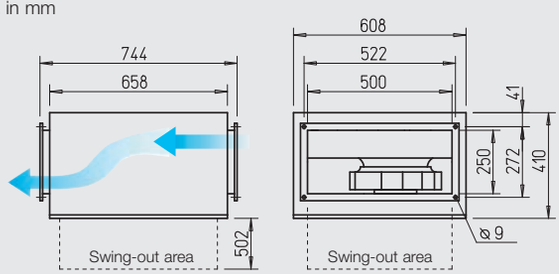
SKR EC – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR EC and SKR EC

- ☐ Highly efficient EC-motor for lowest operating costs.
- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR EC

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR EC
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR EC
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR EC and SKR EC

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy-saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SKR EC IP 54). With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

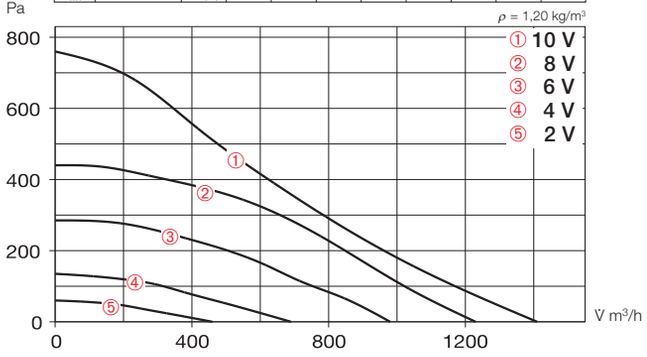
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 44															
KRW EC 315/50/25	8170	1410	3080	44	0.16	1.24	979	60	13.8	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – single phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
SKRW EC 315/50/25	8182	2600	2020	47	0.36	1.57	1066	60	34.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories

KRW EC 315/50/25

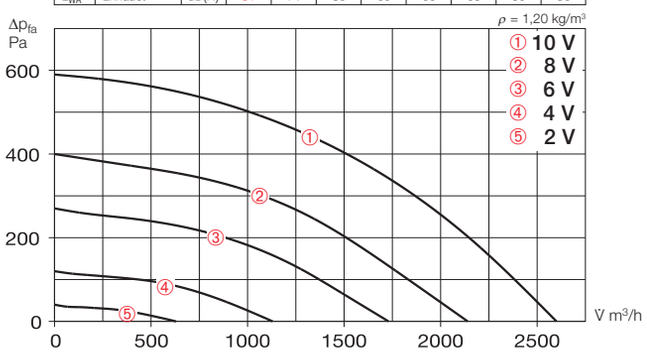
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	64	49	61	58	50	48	42	35
L_{WA}	Intake	dB(A)	76	67	72	63	65	66	64	52
L_{WA}	Exhaust	dB(A)	80	67	74	72	70	73	68	57



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3080	1410	160	1,24	44	0,41
8	2500	1230	105	0,82	42	0,31
6	2000	980	55	0,45	39	0,20
4	1350	690	20	0,18	32	0,11

SKRW EC 315/50/25

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	67	58	66	52	47	43	37	32
L_{WA}	Intake	dB(A)	74	68	72	57	50	49	48	46
L_{WA}	Exhaust	dB(A)	81	71	80	69	66	63	59	56



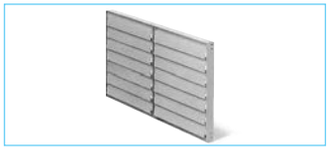
	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2020	2600	310	1,30	47	0,43
8	1650	2140	170	0,74	43	0,29
6	1350	1730	100	0,45	40	0,21
4	900	1130	35	0,20	32	0,11

ECgreen Vent **55% Saving *** ** with speed control*

Accessory details **Page**

Accessories

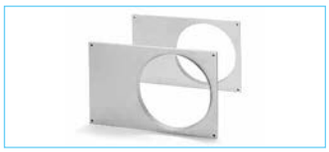
Gravity shutter
Type VK 50/25 Ref. no. 0875
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 50/25 Ref. no. 0110
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 50/25 Ref. no. 6911
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 50/25 Ref. no. 0833
For cost effective adaption of rectangular fans into circular ducting systems with Ø 250 mm.



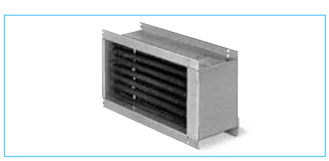
Flexible connectors
Type VS 50/25 Ref. no. 5695
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 50/25 Ref. no. 6920
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 50/25-30 No. 8729
For in-duct installation on intake or exhaust side.

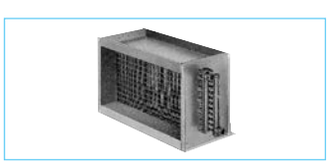
Air-duct filter
Type KLF 50/25-30 G4 No. 8721
Type KLF 50/25-30 F7 Nor. 8645
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 8/50/25-30 No. 8704
Type EHR-K 24/50/25-30 No. 8705
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.



Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/50/25-30 No. 8784
Type WHR 4/50/25-30 No. 8785
For in-duct installation.



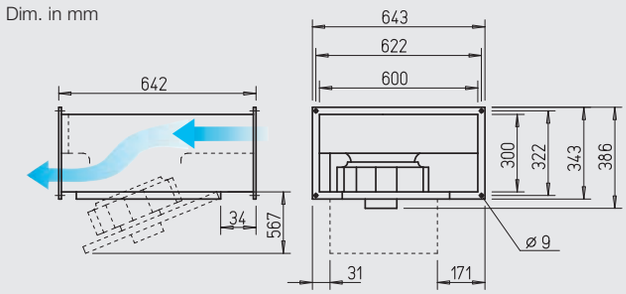
Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



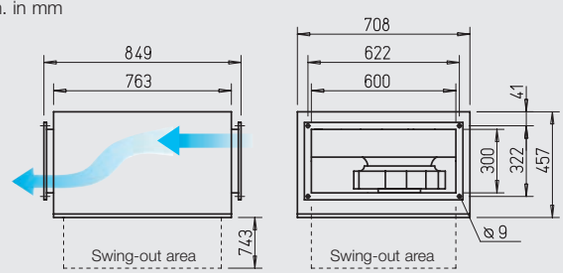
SKR EC – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR EC and SKR EC

- ☐ Highly efficient EC-motor for lowest operating costs.
- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR EC

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR EC
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR EC
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR EC and SKR EC

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy-saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

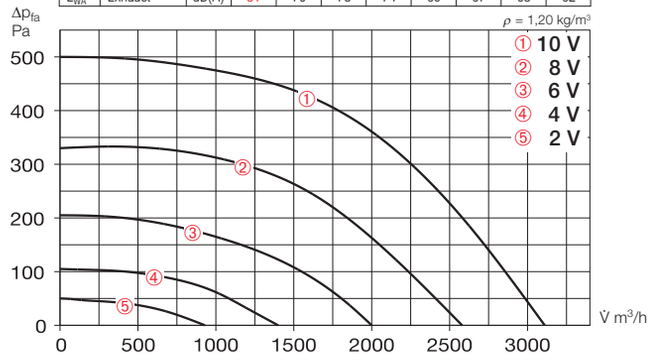
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
KRW EC 355/60/30	8171	3110	1650	46	0.37	1.59	1066	60	25.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – single phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
SKRW EC 355/60/30	8176	3950	2200	51	0.84	3.94	982	60	44.5	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – three phase, 400 V, 50/60 Hz, EC motor, protection to IP 54															
SKRD EC 355/60/30	8296	4550	2500	52	1.16	1.81	1005	60	44.5	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories

KRW EC 355/60/30

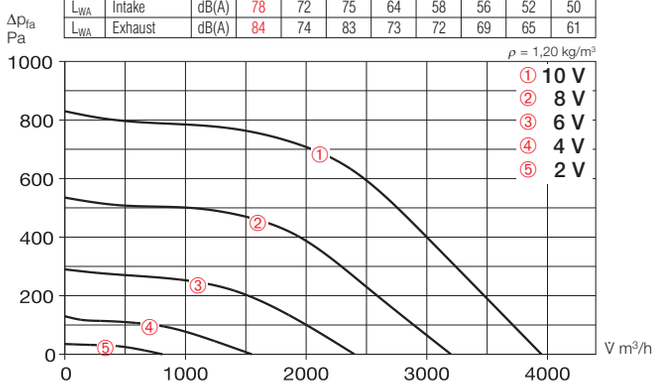
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	59	63	58	54	48	42	40
L_{WA}	Intake	dB(A)	78	73	76	66	61	61	58	58
L_{WA}	Exhaust	dB(A)	81	70	78	74	69	67	63	62



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1650	3110	275	1,20	46	0,32
8	1350	2580	150	0,65	42	0,21
6	1050	2000	75	0,35	37	0,14
4	750	1400	35	0,20	28	0,09

SKRW EC 355/60/30

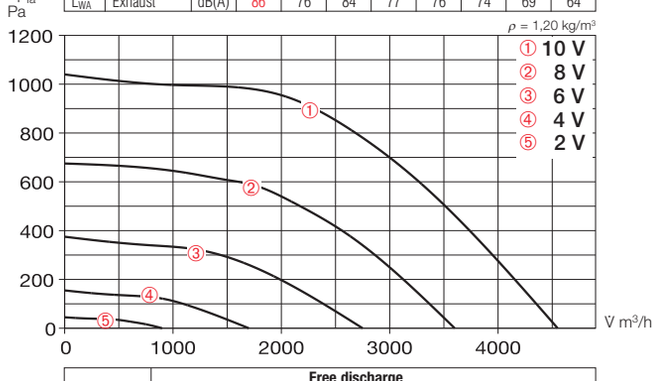
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	58	71	55	52	49	44	39
L_{WA}	Intake	dB(A)	78	72	75	64	58	56	52	50
L_{WA}	Exhaust	dB(A)	84	74	83	73	72	69	65	61



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2200	3950	670	3,10	51	0,61
8	1750	3200	360	1,70	46	0,41
6	1300	2400	160	0,74	40	0,24
4	850	1550	60	0,36	32	0,14

SKRD EC 355/60/30

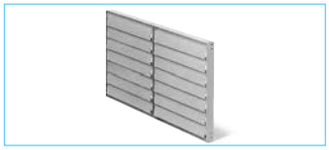
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	72	61	71	61	57	53	48	42
L_{WA}	Intake	dB(A)	80	74	76	68	62	60	56	53
L_{WA}	Exhaust	dB(A)	86	76	84	77	76	74	69	64



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2500	4550	930	1,50	52	0,74
8	2000	3600	500	0,82	47	0,50
6	1450	2750	220	0,45	42	0,29
4	950	1700	80	0,26	33	0,17

Accessories

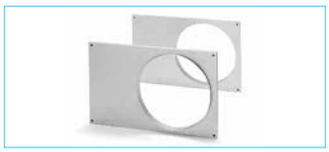
Gravity shutter
Type VK 60/30 Ref. no. 0877
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 60/30 Ref. no. 0112
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 60/30 Ref. no. 6913
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 60/30 Ref. no. 0834
For cost effective adaption of rectangular fans into circular ducting systems with Ø 315 mm.



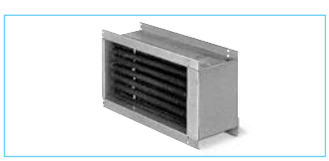
Flexible connectors
Type VS 60/30 Ref. no. 5697
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 60/30 Ref. no. 6922
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 60/30-35 No. 8730
For in-duct installation on intake or exhaust side.

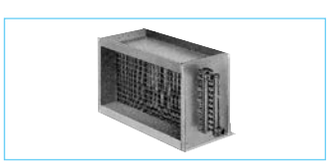
Air-duct filter
Type KLF 60/30-35 G4 No. 8722
Type KLF 60/30-35 F7 No. 8646
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 15/60/30-35 No. 8706
Type EHR-K 30/60/30-35 No. 8707
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.



Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/60/30-35 No. 8786
Type WHR 4/60/30-35 No. 8787
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE[1] Ref. no. 8319

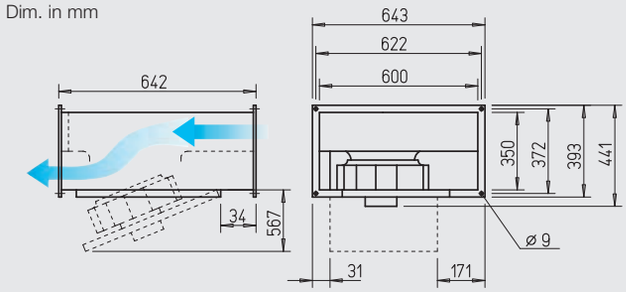
[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



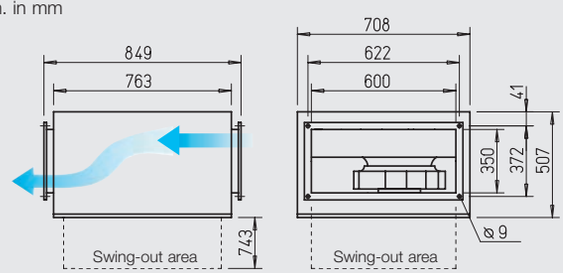
SKR EC – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR EC and SKR EC

- ☐ Highly efficient EC-motor for lowest operating costs.
- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR EC

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR EC
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR EC
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR EC and SKR EC

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy-saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SKR EC IP 54). With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

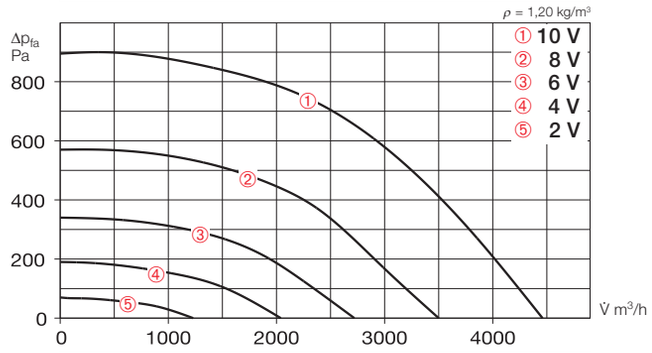
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
KRW EC 400/60/35	8172	4460	2200	56	0.88	4.04	982	60	30.4	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – 1-phase, 1~, 230 V, 50/60 Hz, EC motor, protection to IP 54															
SKRW EC 400/60/35	8177	4200	2200	51	0.84	3.92	982	60	46.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – 3-phase, 3~, 400 V, 50/60 Hz, EC motor, protection to IP 54															
SKRD EC 400/60/35	8297	5000	2500	51	1.17	1.81	1005	60	46.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories

KRW EC 400/60/35

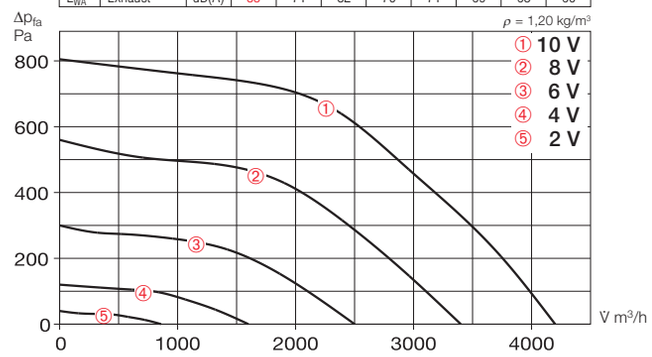
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	76	57	76	62	61	57	50	45
L_{WA}	Intake	dB(A)	86	72	85	72	71	69	66	61
L_{WA}	Exhaust	dB(A)	90	74	88	81	80	77	72	66



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2200	4460	635	3,00	56	0,51
8	1750	3500	340	1,60	50	0,35
6	1350	2720	160	0,73	43	0,21
4	1000	2040	75	0,37	37	0,13

SKRW EC 400/60/35

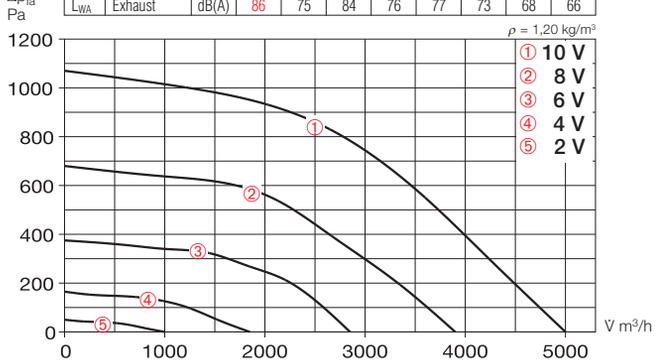
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	55	70	53	49	49	46	44
L_{WA}	Intake	dB(A)	76	69	74	63	56	53	50	48
L_{WA}	Exhaust	dB(A)	83	71	82	70	71	69	63	60



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2200	4200	600	2,90	51	0,51
8	1800	3400	350	1,70	46	0,37
6	1300	2500	150	0,71	40	0,22
4	850	1600	60	0,34	33	0,14

SKRD EC 400/60/35

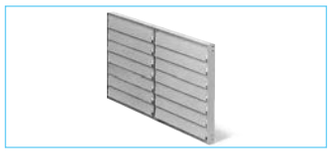
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	59	70	62	53	48	44	41
L_{WA}	Intake	dB(A)	78	73	75	69	63	58	55	52
L_{WA}	Exhaust	dB(A)	86	75	84	76	77	73	68	66



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2500	5000	830	1,30	51	0,60
8	2000	3900	450	0,77	46	0,42
6	1450	2850	200	0,43	40	0,25
4	950	1850	70	0,25	33	0,14

Accessories

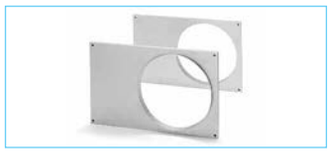
Gravity shutter
Type VK 60/35 Ref. no. 0878
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 60/35 Ref. no. 0113
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 60/35 Ref. no. 6914
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 60/35 Ref. no. 0835
For cost effective adaption of rectangular fans into circular ducting systems with Ø 355 mm.



Flexible connectors
Type VS 60/35 Ref. no. 5698
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 60/35 Ref. no. 6923
Flange frames made of galvanised steel for connection to ducting.

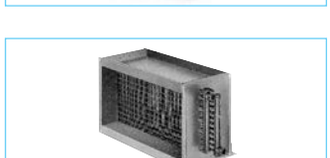
Rectangular attenuator
Type KSD 60/30-35 No. 8730
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 60/30-35 G4 No. 8722
Type KLF 60/30-35 F7 No. 8646
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 15/60/30-35 No. 8706
Type EHR-K 30/60/30-35 No. 8707
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/60/30-35 No. 8786
Type WHR 4/60/30-35 No. 8787
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE[1] Ref. no. 8319

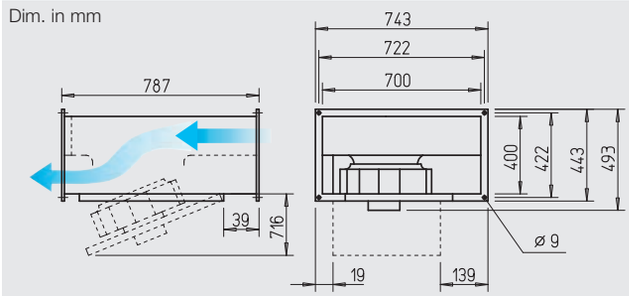
[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



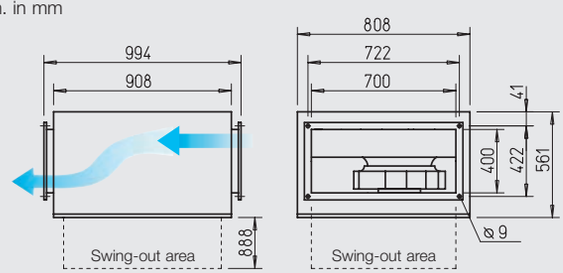
SKR EC – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR EC and SKR EC

- ☐ Highly efficient EC-motor for lowest operating costs.
- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR EC

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR EC
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR EC
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR EC and SKR EC

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy-saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SKR EC IP 54). With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

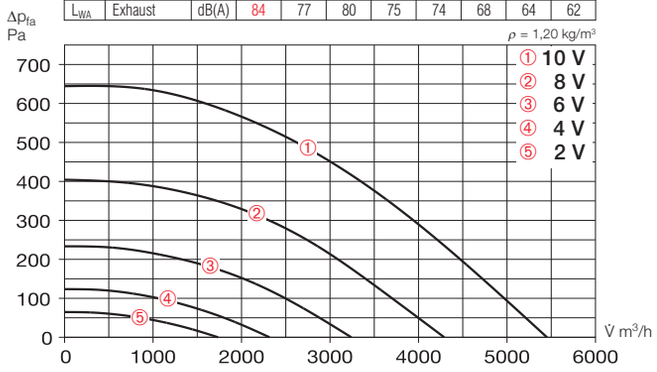
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		surface	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
KRW EC 450/70/40	6127	5450	1420	46	0.72	3.29	982	60	40.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Three Phase, 400 V, 50/60 Hz, EC motor, protection to IP 54															
KRD EC 450/70/40	8173	7480	2300	54	1.50	2.30	1005	60	40.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – 1-phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
SKRW EC 450/70/40 [3)]	6129	5420	1410	45	0.71	3.24	982	60	60.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – 3-phase, 400 V, 50/60 Hz, EC motor, protection to IP 54															
SKRD EC 450/70/40 A	8178	7500	1800	51	1.44	2.24	1005	60	60.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories
3) Characteristic curve diagram on www.HeliosSelect.de

KRW EC 450/70/40

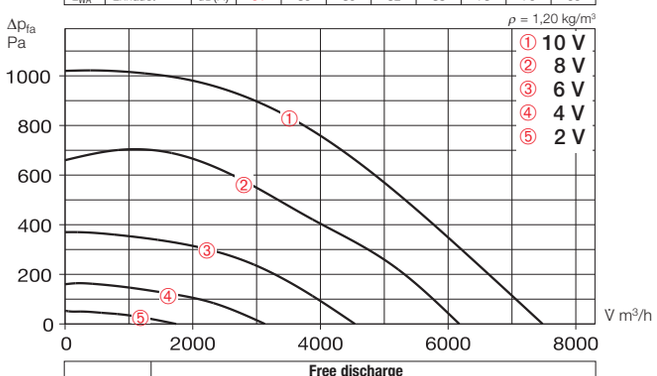
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	60	64	59	53	46	43	40
L_{WA}	Intake	dB(A)	79	76	73	69	66	63	60	58
L_{WA}	Exhaust	dB(A)	84	77	80	75	74	68	64	62



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1440	5450	600	2,8	46	0,40
8	1130	4290	290	1,4	41	0,24
6	850	3240	120	0,60	35	0,13
4	600	2320	50	0,25	28	0,08

KRD EC 450/70/40

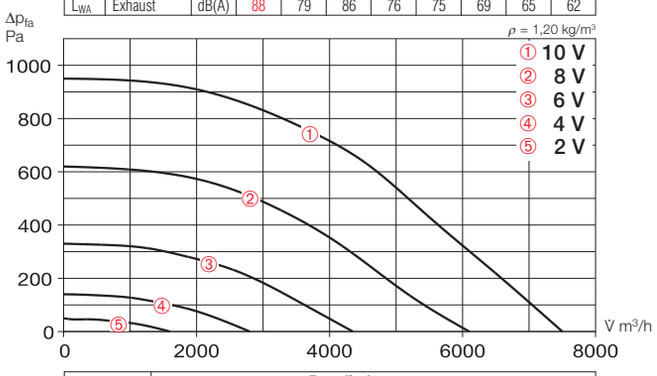
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	74	63	72	68	61	53	47	43
L_{WA}	Intake	dB(A)	87	79	85	77	76	71	66	61
L_{WA}	Exhaust	dB(A)	91	80	89	82	83	75	70	66



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	2300	7480	1060	1,66	54	0,51
8	1550	6175	605	0,97	46	0,35
6	1080	4540	250	0,44	40	0,20
4	720	3130	85	0,20	32	0,10

SKRD EC 450/70/40 A

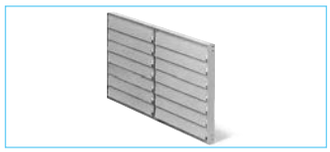
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	64	69	54	51	48	47	44
L_{WA}	Intake	dB(A)	79	74	75	71	67	57	51	47
L_{WA}	Exhaust	dB(A)	88	79	86	76	75	69	65	62



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1800	7500	1050	1,70	51	0,50
8	1450	6100	550	0,92	47	0,32
6	1050	4350	230	0,48	40	0,19
4	700	2800	80	0,27	32	0,11

Accessories

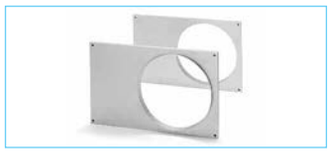
Gravity shutter
Type VK 70/40 Ref. no. 0879
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 70/40 Ref. no. 0114
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 70/40 Ref. no. 6915
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 70/40 Ref. no. 0840
For cost effective adaption of rectangular fans into circular ducting systems with Ø 400 mm.



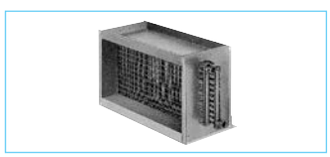
Flexible connectors
Type VS 70/40 Ref. no. 5699
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 70/40 Ref. no. 6924
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 70/40 Ref. no. 8731
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 70/40 G4 No. 8723
Type KLF 70/40 F7 No. 8647
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/70/40 No. 8788
Type WHR 4/70/40 No. 8789
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE[1)] Ref. no. 8319

1) In model WHR 4/70/40 the heat output is reduced to 2200 l/h.

ECgreen Vent **60% Saving*** * with speed control

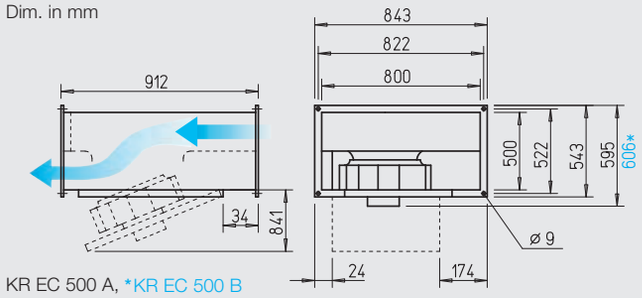
Accessory details **Page**

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



KR EC 500 A, *KR EC 500 B

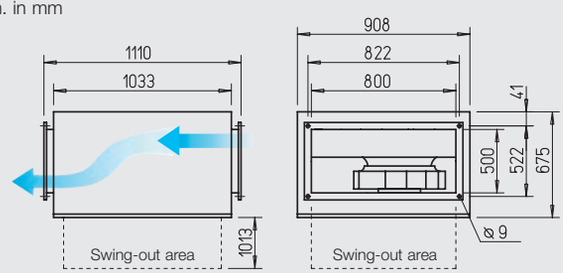
SKR EC – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR EC and SKR EC

- ☐ Highly efficient EC-motor for lowest operating costs.
- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR EC

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR EC
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR EC
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR EC and SKR EC

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy-saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SKR EC IP 54). With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

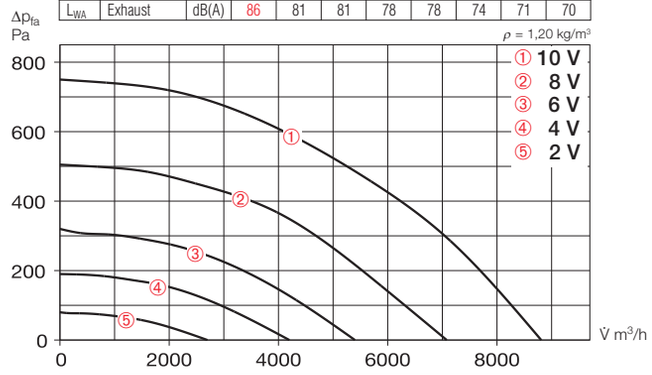
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
		V̇ 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, 400 V, 50/60 Hz, EC motor, protection to IP 54															
KRD EC 500/80/50 A	8174	8810	1400	51	1.26	1.96	1005	60	55.6	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
KRD EC 500/80/50 B [3)]	6128	10400	1800	60	2.57	3.92	1005	60	55.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – 3-phase, 400 V, 50/60 Hz, EC motor, protection to IP 54															
SKRD EC 500/80/50 A	8299	8600	1400	48	1.20	1.87	1005	60	67.5	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
SKRD EC 500/80/50 B	8179	10650	1800	55	2.42	3.68	1005	60	79.5	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories
3) Characteristic curve diagram on www.HeliosSelect.de

KRD EC 500/80/50 A

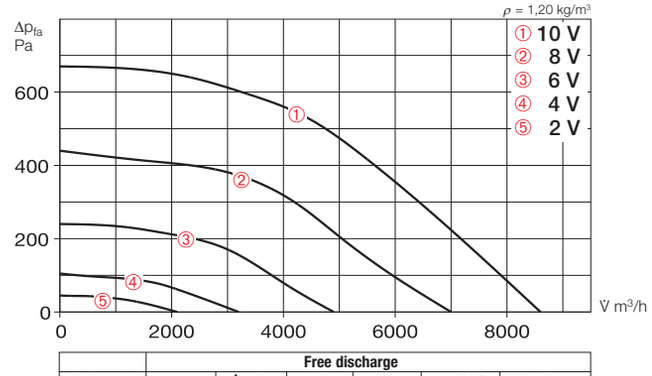
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	68	66	62	56	48	42	45
L_{WA}	Intake	dB(A)	82	79	73	70	72	70	67	67
L_{WA}	Exhaust	dB(A)	86	81	81	78	78	74	71	70



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1400	8810	800	1,3	51	0,33
8	1150	7080	455	0,76	47	0,23
6	900	5400	230	0,44	41	0,15
4	700	4200	120	0,31	34	0,10

SKRD EC 500/80/50 A

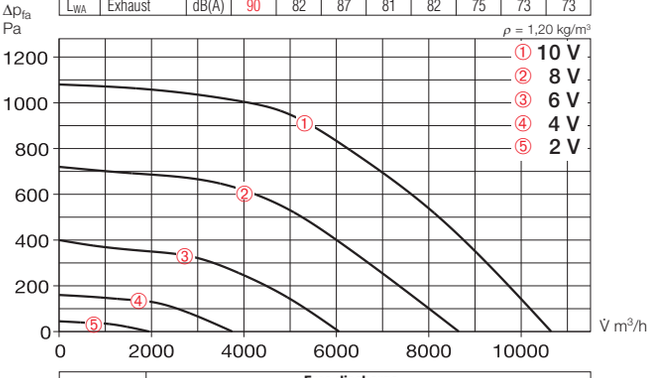
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	67	60	52	52	48	43	38
L_{WA}	Intake	dB(A)	76	76	64	58	56	54	50	51
L_{WA}	Exhaust	dB(A)	83	79	76	72	73	67	66	66



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1400	8600	780	1,30	48	0,33
8	1150	7000	400	0,72	44	0,21
6	850	4900	180	0,41	38	0,13
4	530	3200	60	0,26	32	0,10

SKRD EC 500/80/50 B

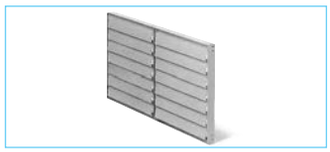
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	75	69	73	59	58	57	54	51
L_{WA}	Intake	dB(A)	81	75	78	68	65	62	57	59
L_{WA}	Exhaust	dB(A)	90	82	87	81	82	75	73	73



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1800	10650	1750	2,70	55	0,59
8	1450	8650	950	1,50	50	0,40
6	1050	6060	400	0,68	43	0,24
4	700	3750	130	0,34	35	0,13

Accessories

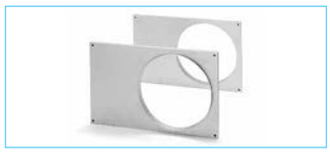
Gravity shutter
Type VK 80/50 Ref. no. 0880
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 80/50 Ref. no. 0115
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 80/50 Ref. no. 6916
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 80/50 Ref. no. 0842
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



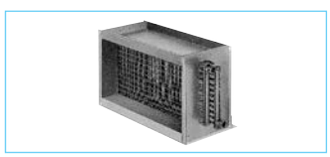
Flexible connectors
Type VS 80/50 Ref. no. 5700
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 80/50 Ref. no. 6925
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 80/50 Ref. no. 8732
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 80/50 G4 No. 8670
Type KLF 80/50 F7 No. 8654
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/80/50 No. 8795
Type WHR 4/80/50 No. 8796
For in-duct installation.



ECgreen Vent **65% Saving *** ** with speed control*

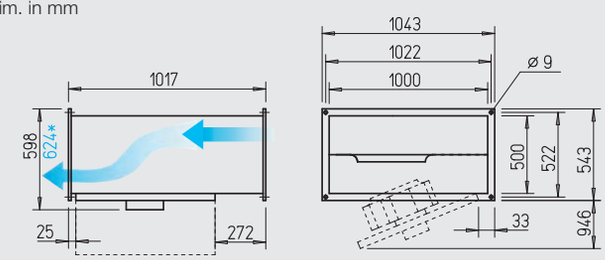
Accessory details **Page**

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



KR EC 560 A, *KR EC 560 B

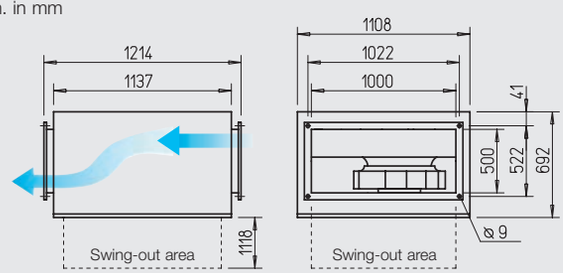
SKR EC – Sound insulated

acoustic line

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR EC and SKR EC

- ☐ Highly efficient EC-motor for lowest operating costs.
- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR EC

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR EC
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR EC
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR EC and SKR EC

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Energy-saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44 (SKR EC IP 54). With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Integrated electronic temperature monitoring for EC-motor and electronics.

☐ Speed control
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

■ Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

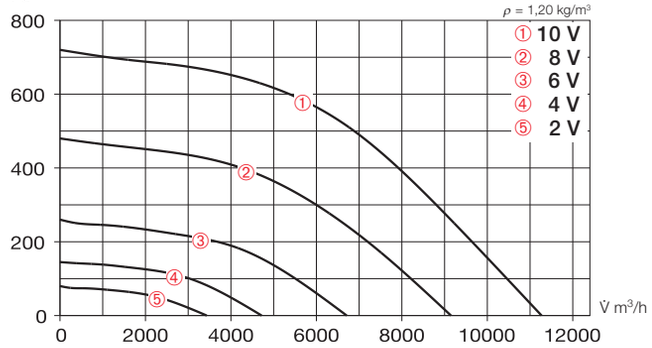
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
		V̇ 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, 400 V, 50/60 Hz, EC motor, protection to IP 54															
KRD EC 560/100/50 A	8167	11270	1230	54	1.57	2.45	1005	60	70.8	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
KRD EC 560/100/50 B	8175	14410	1630	60	3.45	5.20	1005	60	83.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Sound insulated model SKR EC – 3-phase, 400 V, 50/60 Hz, EC motor, protection to IP 54															
SKRD EC 560/100/50 A [3)]	6130	10070	1230	48	1.48	2.30	1005	60	98.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
SKRD EC 560/100/50 B	8180	13700	1630	56	3.26	4.98	1005	60	100.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735

1) Multiple EC fans can normally be connected 2) alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories
3) Characteristic curve diagram on www.HeliosSelect.de

KRD EC 560/100/50 A

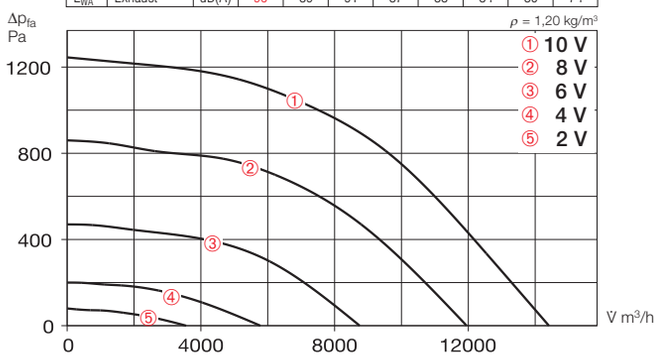
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	74	71	69	63	57	51	47	48
L_{WA}	Intake	dB(A)	82	79	73	71	73	70	66	66
L_{WA}	Exhaust	dB(A)	88	82	82	79	79	75	71	72



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1230	11270	950	1,50	54	0,30
8	1000	9150	500	0,85	50	0,20
6	730	6710	210	0,40	43	0,12
4	550	4720	100	0,24	37	0,08

KRD EC 560/100/50 B

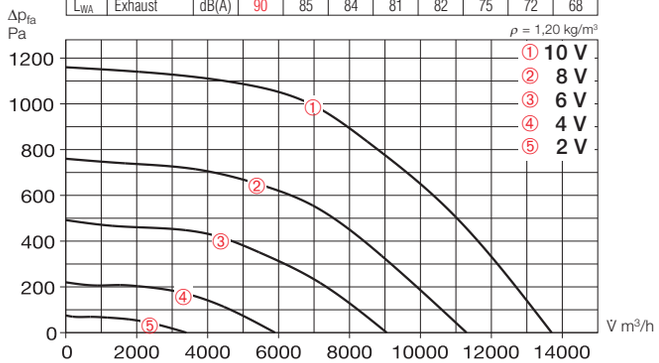
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	80	74	77	73	68	60	56	50
L_{WA}	Intake	dB(A)	89	84	82	81	81	78	74	69
L_{WA}	Exhaust	dB(A)	96	89	91	87	88	84	80	74



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1630	14410	2270	3,45	60	0,57
8	1350	11950	1300	2,00	56	0,39
6	1000	8750	580	0,91	50	0,24
4	650	5780	170	0,30	41	0,11

SKRD EC 560/100/50 B

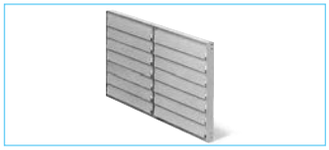
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	76	73	71	62	57	56	54	48
L_{WA}	Intake	dB(A)	80	77	73	70	67	63	60	56
L_{WA}	Exhaust	dB(A)	90	85	84	81	82	75	72	68



	Free discharge					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	1630	13700	2370	3,60	56	0,62
8	1300	11300	1250	1,90	51	0,40
6	1050	9050	680	1,10	47	0,27
4	700	5900	250	0,51	39	0,15

Accessories

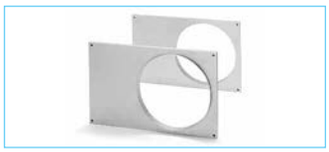
Gravity shutter
Type VK 100/50 Ref. no. 0881
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 100/50 Ref. no. 0116
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 100/50 Ref. no. 6917
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 100/50 Ref. no. 0843
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



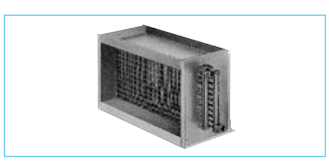
Flexible connectors
Type VS 100/50 Ref. no. 5701
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 100/50 Ref. no. 6926
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 100/50 Ref. no. 8733
For in-duct installation on intake or exhaust side.

Air-duct filter
Type KLF 100/50 G4 No. 8671
Type KLF 100/50 F7 No. 8655
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/100/50 No. 8797
Type WHR 4/100/50 No. 8798
For in-duct installation.



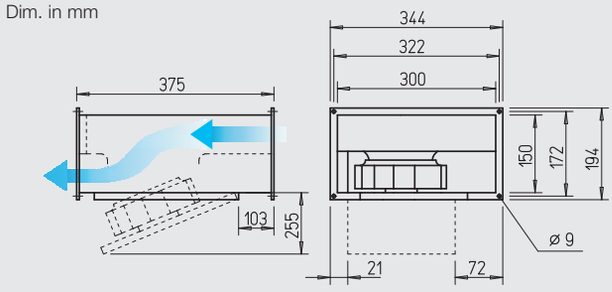
ECgreen Vent **65% Saving *** ** with speed control*

Accessory details **Page**

KR 180

Suitable for polluted air.

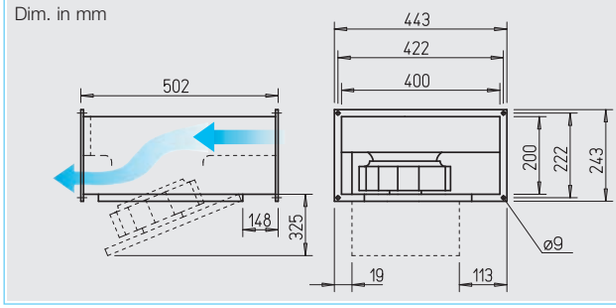
Dim. in mm



KR 225

Suitable for polluted air.

Dim. in mm



Rectangular EC centrifugal fan with backward curved impeller and swing-out motor impeller unit.

- Highly efficient high performance impellers.
- Use in extract and fresh air systems for conveying higher air flow volume.
- Suitable for extraction of polluted air.

Special features

- ☐ High pressure and high volume specific centrifugal fan with high efficiency.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.

Specification

☐ **Casing**
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ **Impeller**
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ **Motor**
Energy saving, speed controllable EC-external rotor motors with highest efficiency, protection to IP 44. With ball bearings, maintenance-free and interference-free. Motor and impeller are dynamically balanced.

☐ **Motor protection**
Automatic resetting through built-in thermal contacts with winding connected in series.

☐ **Speed control**
Stepless speed control with potentiometer or stepless speed control with universal control system (see table). Duties at different speeds are exemplarily given in the performance curve.

☐ **Electrical connection**
Terminal box (IP 54) fitted to flying lead.

☐ **Installation**
Installation in any position. Allowance must be made for the motor swing out access.

☐ **Sound Levels**
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

☐ Note	Page
Selection chart	372
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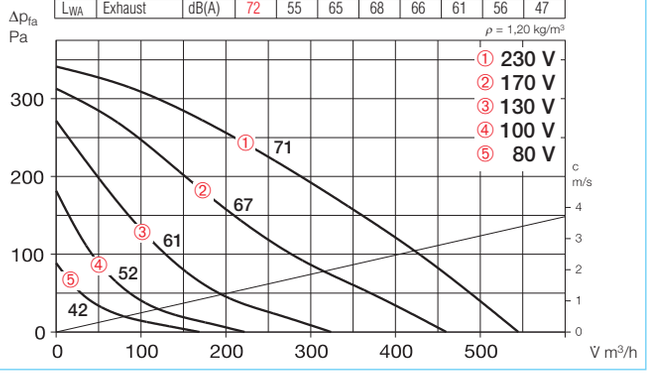
Modul. system components	370

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller: 5-step transformer		Speed controller: surface, electronic		Speed controller: flush, electronic	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single phase, capacitor motor, 230 V, 50 Hz, protection to IP 44																
KRW 180/2/30/15	8885	540	2460	37	0.06	0.35	508	70	70	5.5	**TSW 1,5**	1495	**ESA 1**	0238	**ESU 1**	0236
KRW 225/2/40/20	8886	1020	2530	40	0.12	0.46	508	70	70	9.8	**TSW 1,5**	1495	**ESA 1**	0238	**ESU 1**	0236

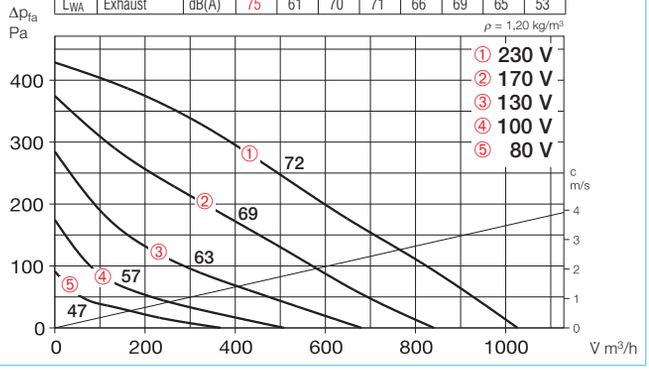
KRW 180/2/30/15

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	57	36	52	56	47	44	38	34
L_{WA}	Intake	dB(A)	71	56	65	69	59	55	50	45
L_{WA}	Exhaust	dB(A)	72	55	65	68	66	61	56	47



KRW 225/2/40/20

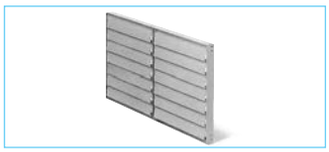
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	60	42	54	58	53	52	46	32
L_{WA}	Intake	dB(A)	72	60	68	68	65	60	60	49
L_{WA}	Exhaust	dB(A)	75	61	70	71	66	69	65	53



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 432 on
Speed controller and full motor protection devices	525 on

Accessories

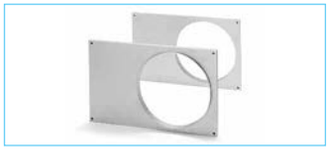
Gravity shutter
Type VK 30/15 Ref. no. 0735
Type VK 40/20 Ref. no. 0874
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 30/15 Ref. no. 0108
Type WSG 40/20 Ref. no. 0109
Heavy duty construction made from profile aluminium extrusion.

Vol. control damper for ducting
Type JVK 30/15 Ref. no. 6927
Type JVK 40/20 Ref. no. 6910
Casing with flanges on both sides. For electrical drive, see STM, accessory.

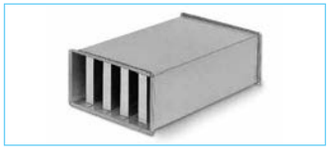
Circular spigot
Type FSK 30/15 Ref. no. 0831
Type FSK 40/20 Ref. no. 0832
For adaption of rectangular fans into circular ducting systems with Ø 160 or 200 mm.



Flexible connectors
Type VS 30/15 Ref. no. 6928
Type VS 40/20 Ref. no. 5694
Flexible in-duct connector with flanges on both sides.

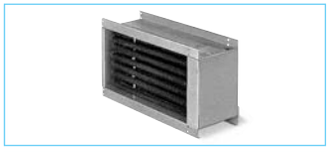
Counterflange
Type GF 30/15 Ref. no. 6918
Type GF 40/20 Ref. no. 6919
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 40/20 Ref. no. 8728
For in-duct installation on intake or exhaust side.



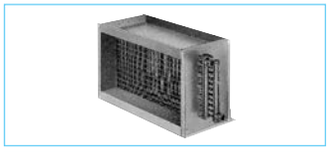
Air-duct filter
Type KLF 40/20 G4 No. 8720
Type KLF 40/20 F7 No. 8644
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 6/40/20 No. 8702
Type EHR-K 15/40/20 No. 8703
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.



Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/40/20 No. 8782
Type WHR 4/40/20 No. 8783
For in-duct installation.

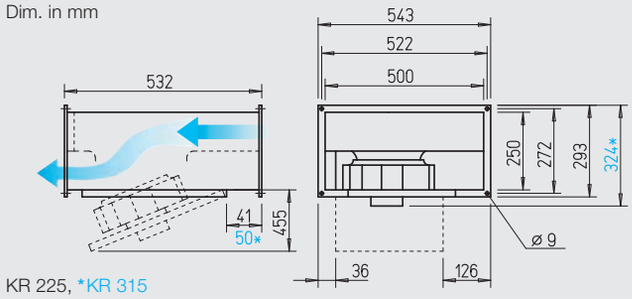


Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KR

Suitable for polluted air.

Dim. in mm



KR 225, *KR 315

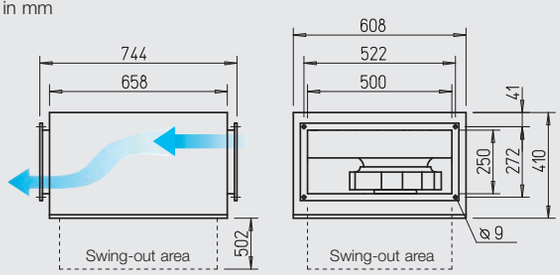
SKR – Sound insulated

acoustic line

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR and SKR

- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

- ☐ **Casing KR**
  Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.
- ☐ **Casing SKR**
  As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR and SKR

- ☐ **Impeller**
  Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.
- ☐ **Motor**
  Through maintenance-free external-rotor motor, on which the impeller is mounted. Closed design. Protection to IP 54 (KR 225 IP 33). Winding with moisture impregnation. Ball bearing mounted, interference-free. Motor and impeller are dynamically balanced.
- ☐ **Motor protection**
  Through built-in thermal contacts via a tripping unit (accessories). In case of KRW 225 through built-in therm. contacts, with winding connected in series, automatic resetting.
- ☐ **Speed control**
  possible through voltage reduction by means of 5-step transformer or electronic (stepless). Duties at different speeds are exemplarily given in the performance curve.
- ☐ **Electrical connection**
  Terminal box (IP 54) fitted to flying lead.
- ☐ **Installation**
  Installation in any position. Allowance must be made for the motor swing out access. (Exception: KRW 225 may only be installed with inspection flap facing downwards or to the side.)

☐ Note	Page
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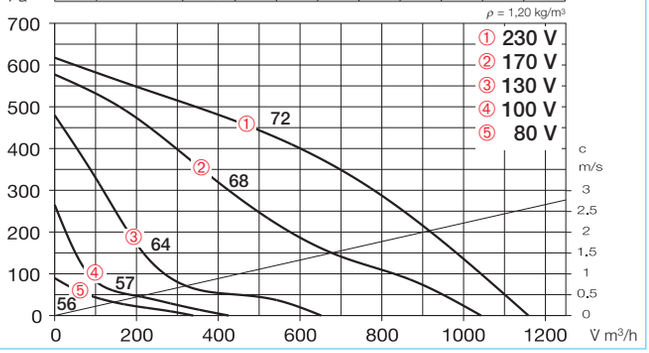
Modul. system components	370

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller: 5-step transformer		Speed controller: surface, electronic		Speed controller: flush, electronic	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single phase, capacitor motor, 230 V, 50 Hz, protection to IP 33 (225), IP 54 (315)																
KRW 225/2/50/25	8873	1160	2680	45	0.17	0.73	508	70	60	15.0	**TSW 1,5** [1]	1495	**ESA 1** [1]	0238	**ESU 1** [1]	0236
KRW 315/4/50/25	6149	1760	1390	39	0.18	0.95	536.1	60	60	16.8	**TSW 1,5** [1]	1495	**ESA 3** [1]	0239	**ESU 3** [1]	0237
Sound insulated model SKR – Single phase, 230 V, 50 Hz, capacitor motor, protection to IP 54											Transformer speed controller				Full motor protection	
SKRW 315/4/50/25	6142	1770	1390	34	0.19	0.97	536.1	60	60	33.1	**MWS 1,5**	1947			**MW**	1579

1) Full motor protection device required, Type MW, No. 1579, see accessories.

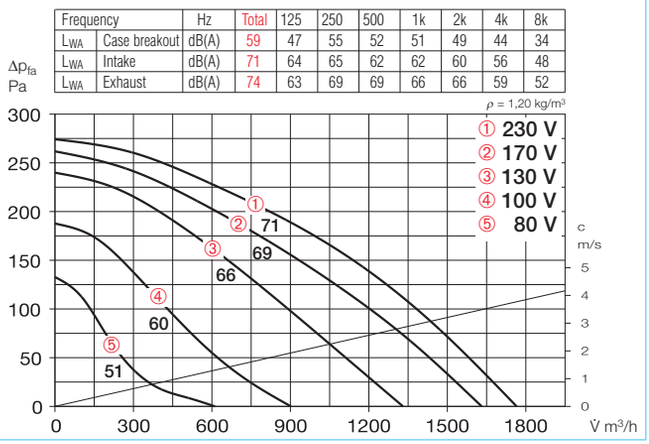
KRW 225/2/50/25

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	65	44	63	59	52	51	47	43
L_{WA}	Intake	dB(A)	72	57	68	60	64	64	63	60
L_{WA}	Exhaust	dB(A)	78	61	74	71	70	71	67	63



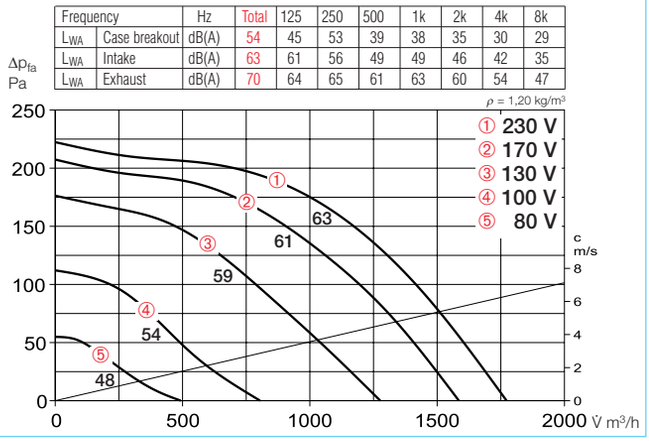
KRW 315/4/50/25

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	59	47	55	52	51	49	44	34
L_{WA}	Intake	dB(A)	71	64	65	62	62	60	56	48
L_{WA}	Exhaust	dB(A)	74	63	69	69	66	66	59	52



SKRW 315/4/50/25

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	54	45	53	39	38	35	30	29
L_{WA}	Intake	dB(A)	63	61	56	49	49	46	42	35
L_{WA}	Exhaust	dB(A)	70	64	65	61	63	60	54	47



☐ Sound Levels

Above the performance curve, total values and spectrum are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

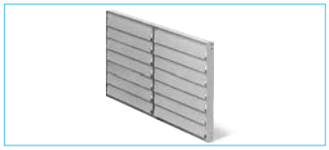
The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:

- Case breakout sound level at 4 m (free field conditions).

■ Accessory details Page

■ Accessories

Gravity shutter
Type VK 50/25 Ref. no. 0875
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 50/25 Ref. no. 0110
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 50/25 Ref. no. 6911
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 50/25 Ref. no. 0833
For adaption of rectangular fans into circular ducting systems with Ø 250 mm.

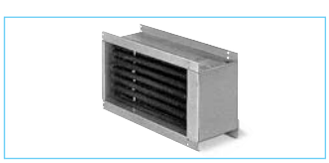
Flexible connectors
Type VS 50/25 Ref. no. 5695
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 50/25 Ref. no. 6920
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 50/25-30 No. 8729
For in-duct installation on intake or exhaust side.

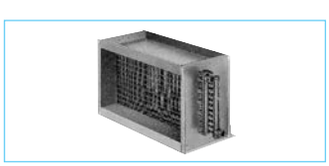
Air-duct filter
Type KLF 50/25-30 G4 No. 8721
Type KLF 50/25-30 F7 No. 8645
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 8/50/25-30 No. 8704
Type EHR-K 24/50/25-30 No. 8705
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.



Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/50/25-30 No. 8784
Type WHR 4/50/25-30 No. 8785
For in-duct installation.

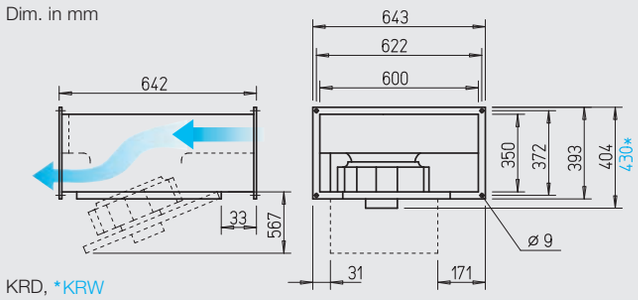


Temperature control system for warm water heater battery
Type WHS HE Ref. no. 8319

KR

Suitable for polluted air.

Dim. in mm



KRD, *KRW

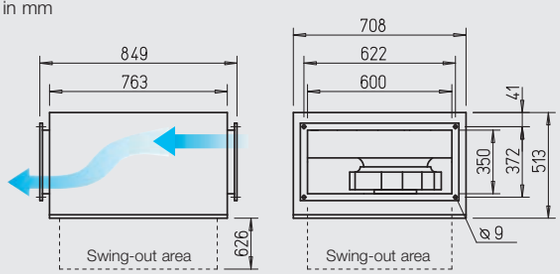
SKR – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR and SKR

- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR

Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR

As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR and SKR

☐ Impeller

Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor

Through maintenance-free external-rotor motor, on which the impeller is mounted. Closed design. Protection to IP 54. Winding with moisture impregnation. Ball bearing mounted, interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection

Through built-in thermal contacts via a tripping unit (accessories).

☐ Speed control

possible through voltage reduction by means of 5-step transformer or electronic (stepless). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection

Terminal box (IP 54) fitted to flying lead.

☐ Installation

Installation in any position. Allowance must be made for the motor swing out access.

☐ Sound Levels

Above the performance curve, total values and spectrum are given for:

- Sound level case breakout
- Sound level intake
- Sound level exhaust

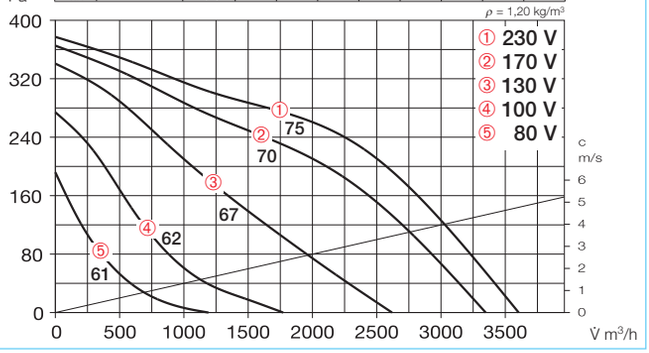
The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:

- Case breakout sound level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase, 230 V, 50 Hz, capacitor motor, protection to IP 54														
KRW 355/4/60/35	8692	3600	1390	42	0.37	1.90	536.1	60	60	28.4	**MWS 3**	1948	**MW**	1579
Three phase, 230/400 V, 50 Hz, protection to IP 54														
KRD 355/4/60/35	8584	2840	1330	37	0.25	0.80/0.46	860	60	60	27.2	**RDS 1**	1314	**MD**	5849
Sound insulated model SKR – Single phase motor, 230 V, 50 Hz, capacitor motor, protection to IP 54														
SKRW 355/4/60/35	8681	3580	1400	39	0.35	1.82	536.1	60	60	48.8	**MWS 3**	1948	**MW**	1579
Sound insulated model SKR – Three phase motor, 230/400 V, 50 Hz, protection to IP 54														
SKRD 355/4/60/35	8181	2800	1330	34	0.24	0.78/0.45	860	60	60	49.0	**RDS 1**	1314	**MD**	5849

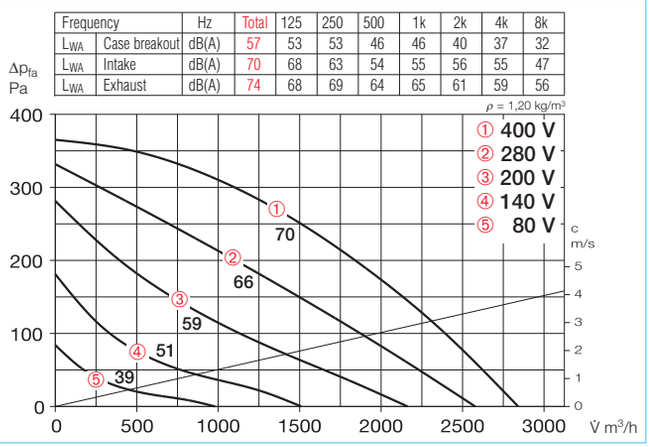
KRW 355/4/60/35

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	62	54	59	51	51	47	44	36
L_{WA}	Intake	dB(A)	75	73	68	58	61	64	58	52
L_{WA}	Exhaust	dB(A)	78	72	72	67	72	69	65	58



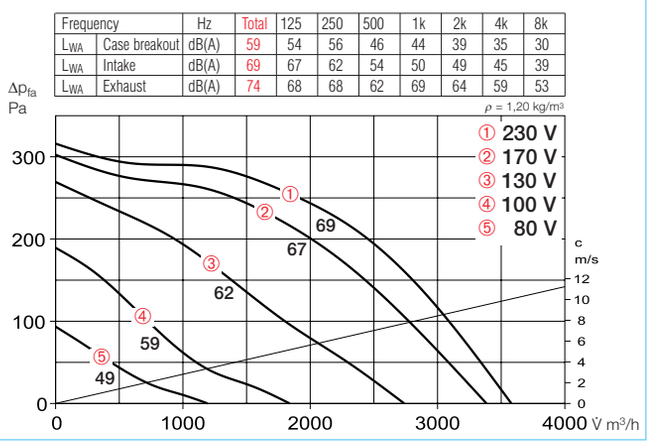
KRD 355/4/60/35

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	57	53	53	46	46	40	37	32
L_{WA}	Intake	dB(A)	70	68	63	54	55	56	55	47
L_{WA}	Exhaust	dB(A)	74	68	69	64	65	61	59	56



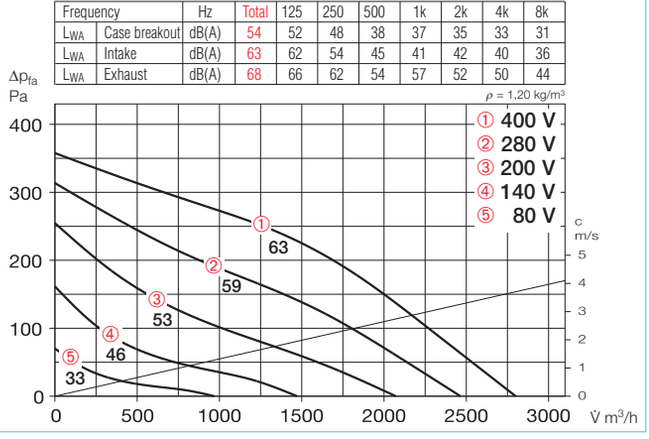
SKRW 355/4/60/35

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	59	54	56	46	44	39	35	30
L_{WA}	Intake	dB(A)	69	67	62	54	50	49	45	39
L_{WA}	Exhaust	dB(A)	74	68	68	62	69	64	59	53



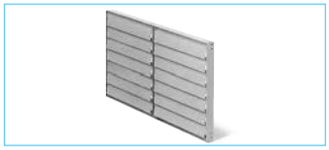
SKRD 355/4/60/35

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	54	52	48	38	37	35	33	31
L_{WA}	Intake	dB(A)	63	62	54	45	41	42	40	36
L_{WA}	Exhaust	dB(A)	68	66	62	54	57	52	50	44



Accessories

Gravity shutter
Type VK 60/35 Ref. no. 0878
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 60/35 Ref. no. 0113
Heavy duty construction made from profile anodised aluminium extrusion.

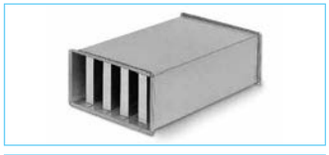
Vol. control damper for ducting
Type JVK 60/35 Ref. no. 6914
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

Circular spigot
Type FSK 60/35 Ref. no. 0835
For cost effective adaption of rectangular fans into circular ducting systems with Ø 355 mm.

Flexible connectors
Type VS 60/35 Ref. no. 5698
Flexible in-duct connector with flanges on both sides.

Counterflange
Type GF 60/35 Ref. no. 6923
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 60/30-35 No. 8730
For in-duct installation on intake or exhaust side.

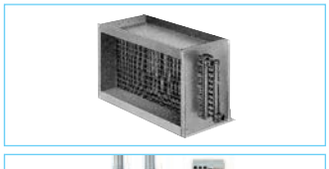


Air-duct filter
Type KLF 60/30-35 G4 No. 8722
Type KLF 60/30-35 F7 No. 8646
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Electric heater battery
Type EHR-K 15/60/30-35 No. 8706
Type EHR-K 30/60/30-35 No. 8707
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

Temperature control system for electric heater battery
Type EHSD 16 Ref. no. 5003

Warm water heater battery
Type WHR 2/60/30-35 No. 8786
Type WHR 4/60/30-35 No. 8787
For in-duct installation.



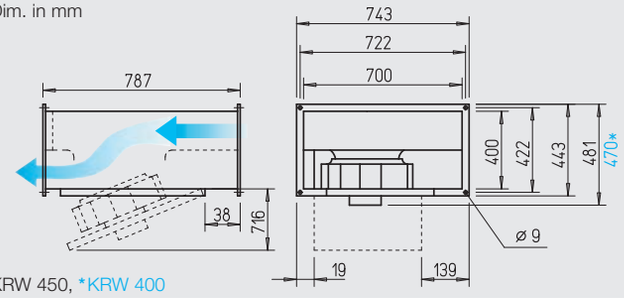
Temperature control system for warm water heater battery
Type WHS HE[1] Ref. no. 8319

[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KR

Suitable for polluted air.

Dim. in mm



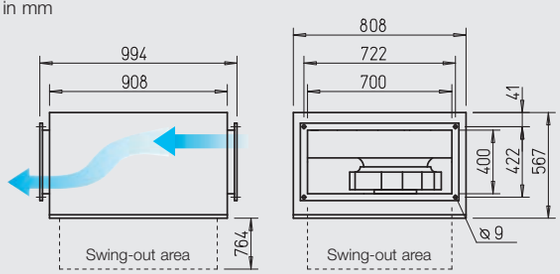
KRW 450, *KRW 400

SKR – Sound insulated

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR and SKR

- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR and SKR

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Through maintenance-free external-rotor motor, on which the impeller is mounted. Closed design. Protection to IP 54. Winding with moisture impregnation. Ball bearing mounted, interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Through built-in thermal contacts via a tripping unit (accessories).

☐ Speed control
possible through voltage reduction by means of 5-step transformer or electronic (stepless). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

☐ Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

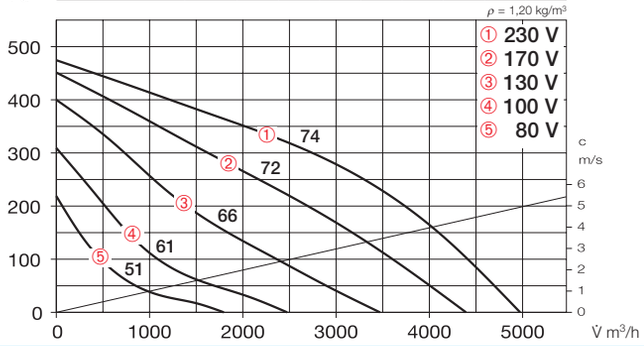
The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
		V̇ m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	**Type**	Ref. no.	**Type**	Ref. no.
Single phase, 230 V, 50 Hz, capacitor motor, protection to IP 54														
KRW 400/4/70/40	6150	4970	1320	44	0.57	2.60	536.1	60	60	39,0	**MWS 5**	1949	**MW**	1579
KRW 450/4/70/40	6151	6650	1390	51	1.04	4.80	536.1	60	60	38,7	**MWS 7,5**	1950	**MW**	1579
Three phase, 230/400 V, 50 Hz, protection to IP 54														
KRD 450/4/70/40[1) 2)]	8694	5830	1430	47	0.82	2.80/1.60	860	60	40	48,5	**RDS 4**	1316	**MD**	5849
Sound insulated model SKR – Single phase motor, 230 V, 50 Hz, capacitor motor, protection to IP 54														
SKRW 400/4/70/40	6143	4940	1330	42	0.53	2.40	536.1	60	60	62,0	**MWS 5**	1949	**MW**	1579
Sound insulated model SKR – Three phase motor, 230/400 V, 50 Hz, protection to IP 54														
SKRD 450/4/70/40	8196	5430	1430	46	0.82	2.70/1.60	860	60	40	69,3	**RDS 4**	1316	**MD**	5849
SKRD 500/6/70/40[1)]	8197	4620	920	36	0.40	1.40/0.82	860	60	60	64,1	**RDS 2**	1315	**MD**	5849

1) Characteristic curve diagram on www.HeliosSelect.de 2) Dimensional drawing on www.HeliosSelect.de

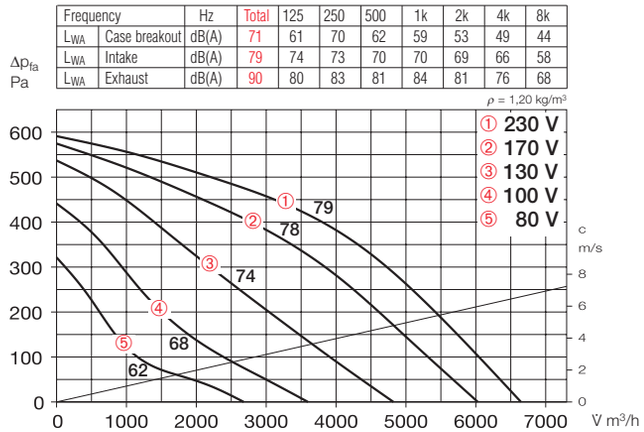
KRW 400/4/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	64	57	61	54	54	50	45	38
L_{WA}	Intake	dB(A)	74	71	66	64	66	65	60	53
L_{WA}	Exhaust	dB(A)	84	75	77	74	80	76	70	63



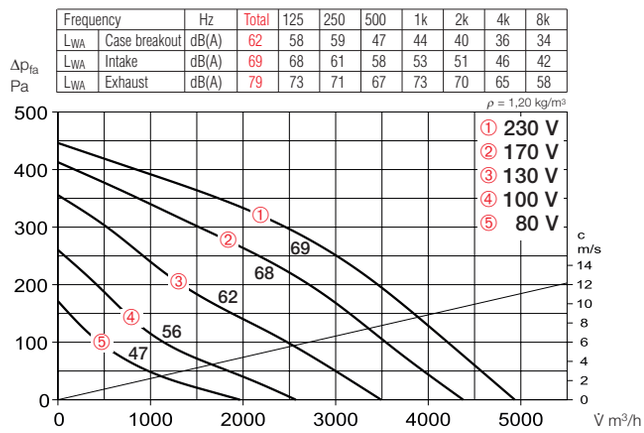
KRW 450/4/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	61	70	62	59	53	49	44
L_{WA}	Intake	dB(A)	79	74	73	70	70	69	66	58
L_{WA}	Exhaust	dB(A)	90	80	83	81	84	81	76	68



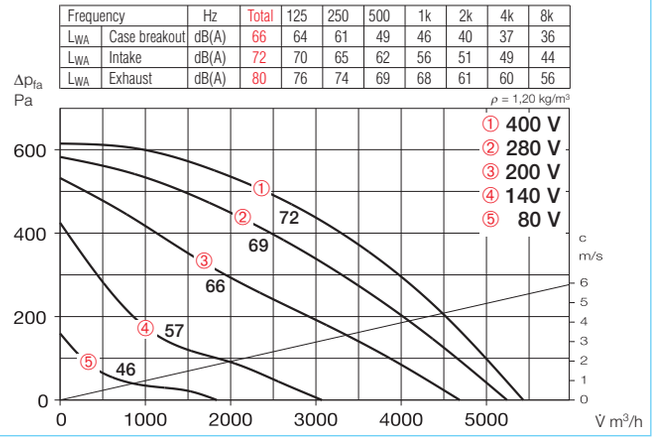
SKRW 400/4/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	62	58	59	47	44	40	36	34
L_{WA}	Intake	dB(A)	69	68	61	58	53	51	46	42
L_{WA}	Exhaust	dB(A)	79	73	71	67	73	70	65	58



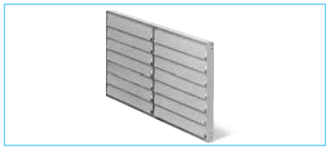
SKRD 450/4/70/40

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	64	61	49	46	40	37	36
L_{WA}	Intake	dB(A)	72	70	65	62	56	51	49	44
L_{WA}	Exhaust	dB(A)	80	76	74	69	68	61	60	56



Accessories

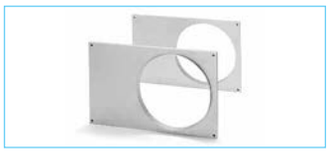
Gravity shutter
Type VK 70/40 Ref. no. 0879
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 70/40 Ref. no. 0114
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 70/40 Ref. no. 6915
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

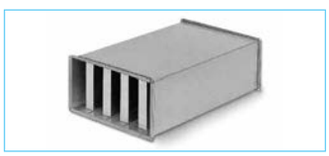
Circular spigot
Type FSK 70/40 Ref. no. 0840
For cost effective adaption of rectangular fans into circular ducting systems with Ø 400 mm.



Flexible connectors
Type VS 70/40 Ref. no. 5699
Flexible in-duct connector with flanges on both sides.

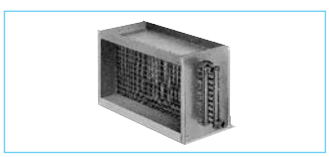
Counterflange
Type GF 70/40 Ref. no. 6924
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 70/40 Ref. no. 8731
For in-duct installation on intake or exhaust side.



Air-duct filter
Type KLF 70/40 G4 No. 8723
Type KLF 70/40 F7 No. 8647
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/70/40 No. 8788
Type WHR 4/70/40 No. 8789
For in-duct installation.



Temperature control system for warm water heater battery
Type WHS HE[1] Ref. no. 8319

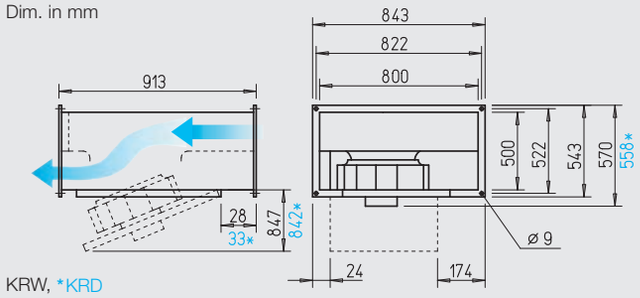
[1] In model WHR 4/70/40 the heat output is reduced to 2200 l/h.

Accessory details **Page**

KR

Suitable for polluted air.

Dim. in mm



KRW, *KRD

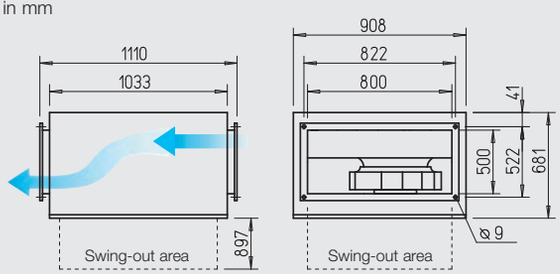
SKR – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR and SKR

- ☐ High pressure and high volume with high efficiency centrifugal fan.
- ☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.
- ☐ For cleaning, easy access and therefore suitable for extraction of polluted air.
- ☐ Straight through-flow.
- ☐ Compact design, convenient installation.

■ Special features of SKR

- ☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ Casing KR
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ Casing SKR
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR and SKR

☐ Impeller
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ Motor
Through maintenance-free external-rotor motor, on which the impeller is mounted. Closed design. Protection to IP 54. Winding with moisture impregnation. Ball bearing mounted, interference-free. Motor and impeller are dynamically balanced.

☐ Motor protection
Through built-in thermal contacts via a tripping unit (accessories).

☐ Speed control
possible through voltage reduction by means of 5-step transformer or electronic (stepless). Duties at different speeds are exemplarily given in the performance curve.

☐ Electrical connection
Terminal box (IP 54) fitted to flying lead.

☐ Installation
Installation in any position. Allowance must be made for the motor swing out access.

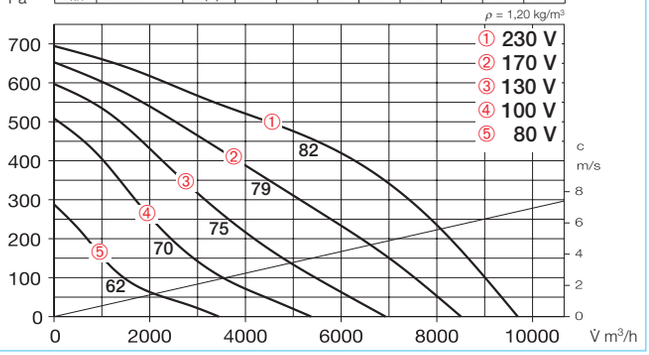
☐ Sound Levels
Above the performance curve, total values and spectrum are given for:
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Single phase, 230 V, 50 Hz, capacitor motor, protection to IP 54														
KRW 500/4/80/50	6152	9700	1370	52	1.55	6.80	536.1	60	60	66.9	**MWS 10**	1946	**MW**	1579
Three phase, 230/400 V, 50 Hz, protection to IP 54														
KRD 500/4/80/50 A	8643	8430	1360	52	1.21	4.70/2.70	860	60	60	64.2	**RDS 7**	1578	**MD**	5849
Sound insulated model SKR – Single phase motor, 230 V, 50 Hz, capacitor motor, protection to IP 54														
SKRW 500/4/80/50	6144	9540	1360	48	1.49	6.60	536.1	60	60	93.3	**MWS 10**	1946	**MW**	1579
Sound insulated model SKR – Three phase motor, 230/400 V, 50 Hz, protection to IP 54														
SKRD 500/4/80/50	8198	8050	1360	48	1.19	4.60/2.70	860	60	60	89.2	**RDS 7**	1578	**MD**	5849

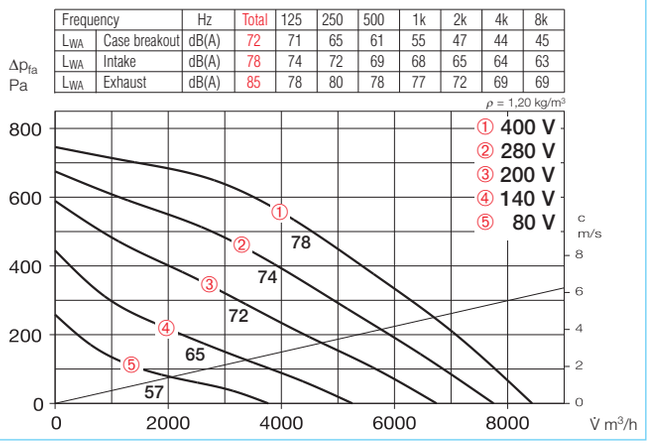
KRW 500/4/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	72	65	69	64	61	57	51	45
L_{WA}	Intake	dB(A)	82	75	73	75	76	73	69	62
L_{WA}	Exhaust	dB(A)	91	79	83	81	88	84	79	71



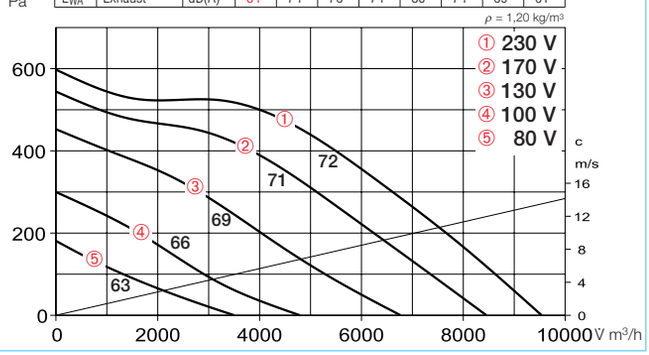
KRD 500/4/80/50 A

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	72	71	65	61	55	47	44	45
L_{WA}	Intake	dB(A)	78	74	72	69	68	65	64	63
L_{WA}	Exhaust	dB(A)	85	78	80	78	77	72	69	69



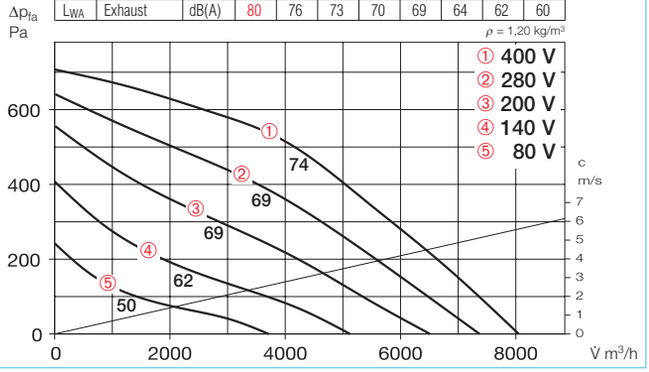
SKRW 500/4/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	65	63	54	53	46	43	36
L_{WA}	Intake	dB(A)	72	69	65	60	62	60	55	51
L_{WA}	Exhaust	dB(A)	84	74	76	74	80	74	69	61



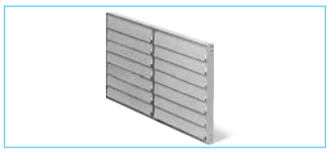
SKRD 500/4/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	68	60	52	45	40	40	35
L_{WA}	Intake	dB(A)	74	74	62	58	53	51	51	49
L_{WA}	Exhaust	dB(A)	80	76	73	70	69	64	62	60



Accessories

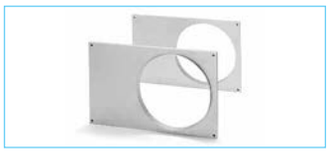
Gravity shutter
Type VK 80/50 Ref. no. 0880
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 80/50 Ref. no. 0115
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 80/50 Ref. no. 6916
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

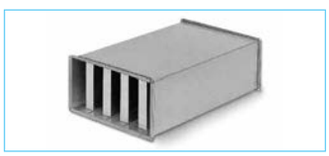
Circular spigot
Type FSK 80/50 Ref. no. 0842
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



Flexible connectors
Type VS 80/50 Ref. no. 5700
Flexible in-duct connector with flanges on both sides.

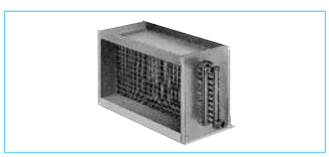
Counterflange
Type GF 80/50 Ref. no. 6925
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 80/50 Ref. no. 8732
For in-duct installation on intake or exhaust side.



Air-duct filter
Type KLF 80/50 G4 No. 8670
Type KLF 80/50 F7 No. 8654
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/80/50 No. 8795
Type WHR 4/80/50 No. 8796
For in-duct installation.



Rectangular fans

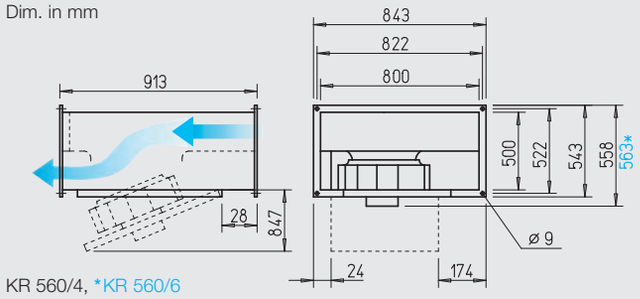
Accessory details **Page**

Shutters, grilles and louvres 420, 487 on
Filters, heater batteries and attenuators 421 on
Speed controller and full motor protection devices 525 on

KR

Suitable for polluted air.

Dim. in mm



KR 560/4, *KR 560/6

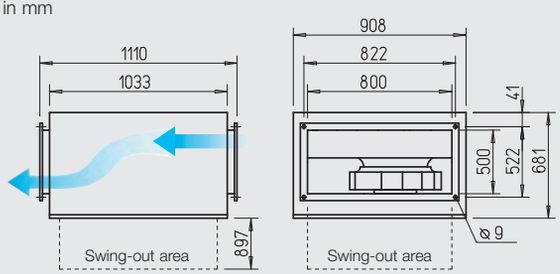
SKR – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR and SKR

☐ High pressure and high volume with high efficiency centrifugal fan.

☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.

☐ For cleaning, easy access and therefore suitable for extraction of polluted air.

☐ Straight through-flow.

☐ Compact design, convenient installation.

■ Special features of SKR

☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ **Casing KR**
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ **Casing SKR**
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR and SKR

☐ **Impeller**
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ **Motor**
Through maintenance-free external-rotor motor, on which the impeller is mounted. Closed design. Protection to IP 54. Winding with moisture impregnation. Ball bearing mounted, interference-free. Motor and impeller are dynamically balanced.

☐ **Motor protection**
Through built-in thermal contacts via a tripping unit (accessories).

☐ **Speed control**
possible through voltage reduction by means of 5-step transformer or electronic (stepless). Duties at different speeds are exemplarily given in the performance curve.

☐ **Electrical connection**
Terminal box (IP 54) fitted to flying lead.

☐ **Installation**
Installation in any position. Allowance must be made for the motor swing out access.

☐ Note	Page
Selection chart	372
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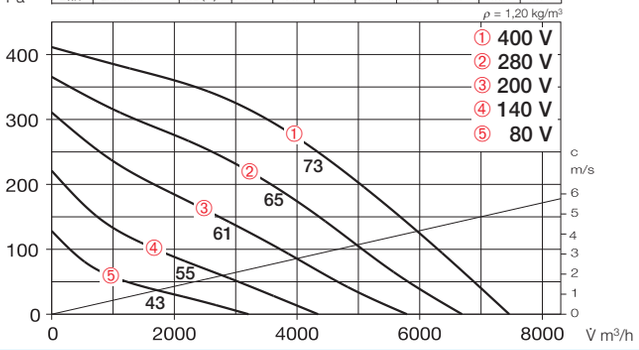
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase, 230/400 V, 50 Hz, protection to IP 54														
KRD 560/6/80/50	8842	7460	880	41	0.64	2.50/1.40	860	60	60	61.9	**RDS 2**	1315	**MD**	5849
KRD 560/4/80/50	6147	11970	1350	55	2.33	7.80/4.50	860	45	45	64.1	**RDS 7**	1578	**MD**	5849
Sound insulated model SKR – Three phase motor, 230/400 V, 50 Hz, protection to IP 54														
SKRD 560/6/80/50	8199	7600	880	36	0.66	2.50/1.50	860	60	60	86.9	**RDS 2**	1315	**MD**	5849

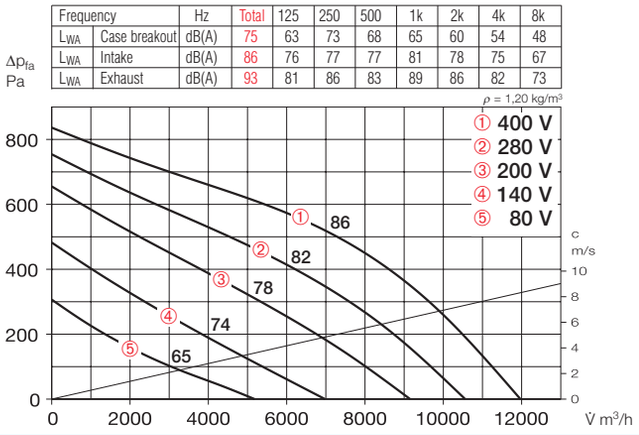
KRD 560/6/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	61	56	57	52	47	40	36	37
L_{WA}	Intake	dB(A)	73	70	64	57	60	58	54	53
L_{WA}	Exhaust	dB(A)	78	75	70	66	66	61	58	57



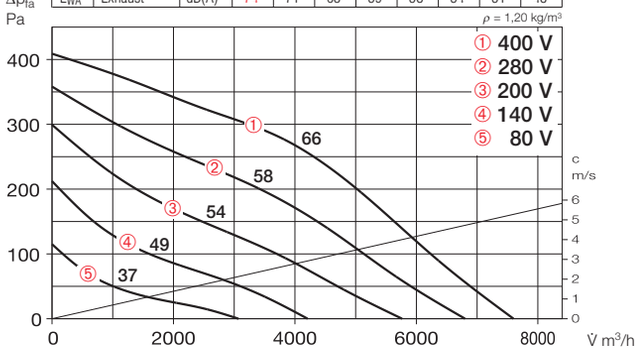
KRD 560/4/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	75	63	73	68	65	60	54	48
L_{WA}	Intake	dB(A)	86	76	77	77	81	78	75	67
L_{WA}	Exhaust	dB(A)	93	81	86	83	89	86	82	73



SKRD 560/6/80/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	56	55	50	41	40	37	36	33
L_{WA}	Intake	dB(A)	66	64	53	44	44	42	40	40
L_{WA}	Exhaust	dB(A)	74	71	63	59	58	54	51	48



Sound Levels

Above the performance curve, total values and spectrum are given for:

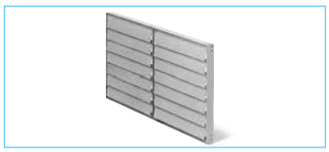
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:

- Case breakout sound level at 4 m (free field conditions).

Accessories

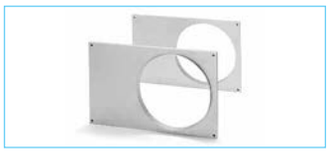
Gravity shutter
Type VK 80/50 Ref. no. 0880
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 80/50 Ref. no. 0115
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 80/50 Ref. no. 6916
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

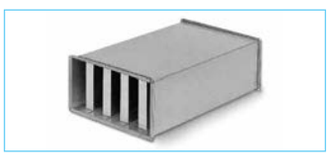
Circular spigot
Type FSK 80/50 Ref. no. 0842
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



Flexible connectors
Type VS 80/50 Ref. no. 5700
Flexible in-duct connector with flanges on both sides.

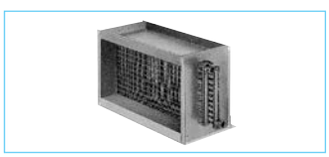
Counterflange
Type GF 80/50 Ref. no. 6925
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 80/50 Ref. no. 8732
For in-duct installation on intake or exhaust side.



Air-duct filter
Type KLF 80/50 G4 No. 8670
Type KLF 80/50 F7 No. 8654
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/80/50 No. 8795
Type WHR 4/80/50 No. 8796
For in-duct installation.



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heater batteries and attenuators	421 on
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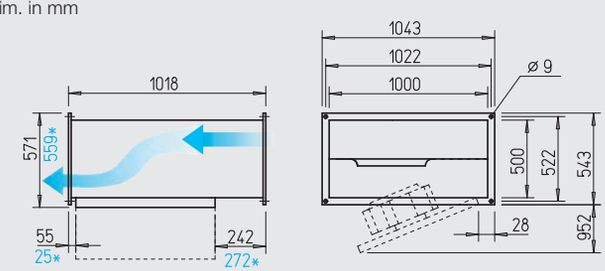
KR

Suitable for polluted air.

Dim. in mm



KR 630/4, *KR 630/6

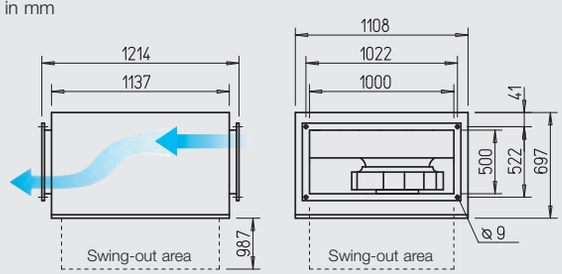
SKR – Sound insulated

acousticline

Lowest sound levels for intake and case breakout at higher power density.

Use in extract and fresh air systems with specific requirements for low noise levels.

Dim. in mm



■ Features of KR and SKR

☐ High pressure and high volume with high efficiency centrifugal fan.

☐ Particularly easy to service (cleaning) thanks to the swing-out motor impeller unit.

☐ For cleaning, easy access and therefore suitable for extraction of polluted air.

☐ Straight through-flow.

☐ Compact design, convenient installation.

■ Special features of SKR

☐ Lowest sound levels for intake and case breakout at higher power density.

■ Specification

☐ **Casing KR**
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.

☐ **Casing SKR**
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

■ Common features of KR and SKR

☐ **Impeller**
Centrifugal, backward curved impeller made of polymer. Aerodynamically optimised, intake air flow by means of an inlet nozzle.

☐ **Motor**
Through maintenance-free external-rotor motor, on which the impeller is mounted. Closed design. Protection to IP 54. Winding with moisture impregnation. Ball bearing mounted, interference-free. Motor and impeller are dynamically balanced.

☐ **Motor protection**
Through built-in thermal contacts via a tripping unit (accessories).

☐ **Speed control**
possible through voltage reduction by means of 5-step transformer or electronic (stepless). Duties at different speeds are exemplarily given in the performance curve.

☐ **Electrical connection**
Terminal box (IP 54) fitted to flying lead.

☐ **Installation**
Installation in any position. Allowance must be made for the motor swing out access.

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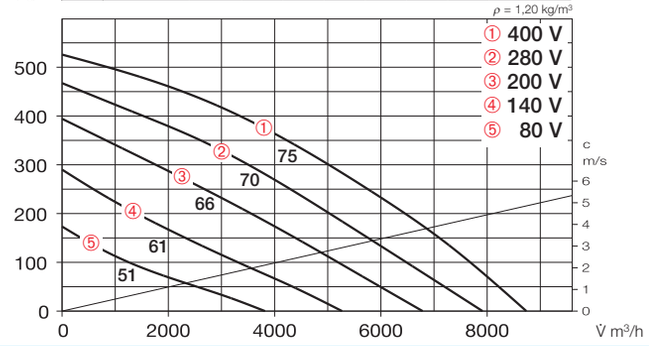
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load	max. air flow temperature at control	Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
		V m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+°C	+°C	kg	Type	Ref. no.	Type	Ref. no.
Three phase, 230/400 V, 50 Hz, protection to IP 54														
KRD 630/6/100/50	8846	8740	910	44	1.10	4.90/2.90	860	60	60	84.0	**RDS 7**	1578	**MD**	5849
KRD 630/4/100/50	6148	12100	1320	55	3.31	9.90/5.70	860	55	55	95.6	**RDS 11**	1332	**MD**	5849
Sound insulated model SKR – Three phase motor, 230/400 V, 50 Hz, protection to IP 54														
SKRD 630/6/100/50	8295	8450	900	43	1.17	5.00/2.90	860	60	60	112.8	**RDS 7**	1578	**MD**	5849

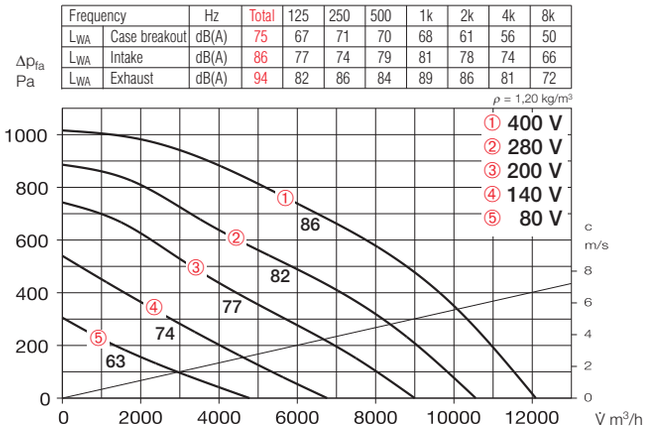
KRD 630/6/100/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	64	58	61	56	51	45	40	37
L_{WA}	Intake	dB(A)	75	72	67	63	67	63	60	55
L_{WA}	Exhaust	dB(A)	83	78	76	73	74	70	66	60



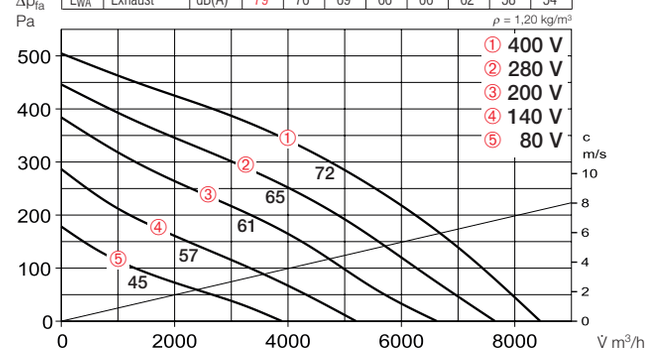
KRD 630/4/100/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	75	67	71	70	68	61	56	50
L_{WA}	Intake	dB(A)	86	77	74	79	81	78	74	66
L_{WA}	Exhaust	dB(A)	94	82	86	84	89	86	81	72



SKRD 630/6/100/50

Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	63	62	57	47	42	42	37	32
L_{WA}	Intake	dB(A)	72	70	61	54	53	50	48	48
L_{WA}	Exhaust	dB(A)	79	76	69	66	66	62	58	54



Sound Levels

Above the performance curve, total values and spectrum are given for:

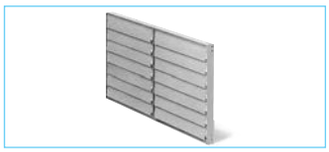
- Sound level case breakout
- Sound level intake
- Sound level exhaust

The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages.
In the table below you can also find:

- Case breakout sound level at 4 m (free field conditions).

Accessories

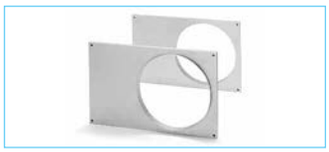
Gravity shutter
Type VK 100/50 Ref. no. 0881
Air stream operated louvres, light grey polymer.



External louvre
Type WSG 100/50 Ref. no. 0116
Heavy duty construction made from profile anodised aluminium extrusion.

Vol. control damper for ducting
Type JVK 100/50 Ref. no. 6917
Casing with flanges on both sides. The control mechanism is outside the airstream. For electrical drive, see STM, accessory.

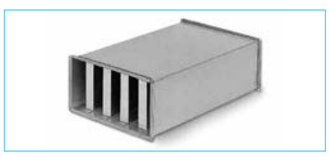
Circular spigot
Type FSK 100/50 Ref. no. 0843
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



Flexible connectors
Type VS 100/50 Ref. no. 5701
Flexible in-duct connector with flanges on both sides.

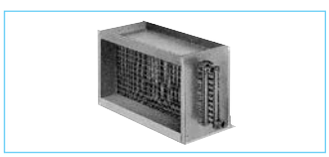
Counterflange
Type GF 100/50 Ref. no. 6926
Flange frames made of galvanised steel for connection to ducting.

Rectangular attenuator
Type KSD 100/50 Ref. no. 8733
For in-duct installation on intake or exhaust side.



Air-duct filter
Type KLF 100/50 G4 No. 8671
Type KLF 100/50 F7 No. 8655
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

Warm water heater battery
Type WHR 2/100/50 No. 8797
Type WHR 4/100/50 No. 8798
For in-duct installation.



Accessory details	Page
Shutters, grilles and louvres	420, 487 on
Filters, heater batteries and attenuators	421 on
Speed controller and full motor protection devices	525 on

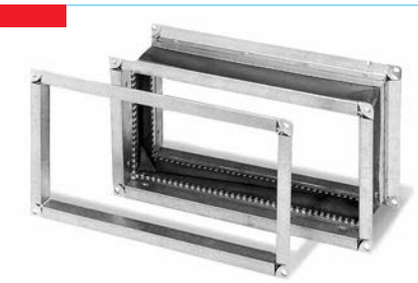
Counterflange GF

Designed for connecting rectangular fans and accessories to ducting where the flange frames are made of galvanised sheet steel.

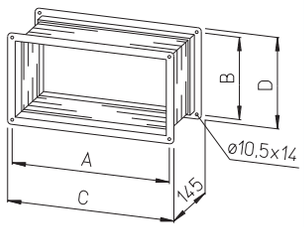
Connectors VS

Flexible ducting connector with flange frames on both ends, made of galvanised sheet steel, with sealing lip all around; leak proof to VDI 3803, temperature resistance from –10 °C to +80 °C. The elastic sleeve in the middle section is made of plastic fibre bonded material. Designed to fit into rectangular fans.
In order to prevent the vibration transmission and compensate small misalignments on site, the flexible connectors are fitted between the ducting and fan on intake and exhaust side.
For explosion proof rectangular fans use VS Ex (explosion-proof) types.

GF and VS



Dim. in mm see table



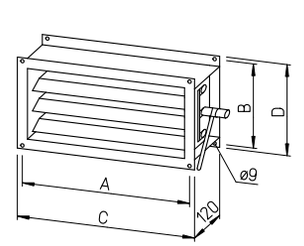
Counterflange GF Type	Ref. no.	Connector VS Type	Ref. no.	Connector for Ex-proof fans Type	Ref. no.	Fits fan duct nominal size mm	Dimensions in mm A	B	C	D	Weight approx. kg GF	VS
GF 30/15	6918	**VS 30/15**	6928	—	—	300 x 150	320	170	340	190	0.7	1.8
GF 40/20	6919	**VS 40/20**	5694	—	—	400 x 200	420	220	440	240	0.8	2.3
GF 50/25	6920	**VS 50/25**	5695	**VS 50/25 Ex**	0265	500 x 250	520	270	540	290	0.9	2.8
GF 50/30	6921	**VS 50/30**	5696	**VS 50/30 Ex**	0266	500 x 300	520	320	540	340	1.0	2.9
GF 60/30	6922	**VS 60/30**	5697	**VS 60/30 Ex**	0267	600 x 300	620	320	640	340	1.1	3.2
GF 60/35	6923	**VS 60/35**	5698	**VS 60/35 Ex**	0268	600 x 350	620	370	640	390	1.1	3.4
GF 70/40	6924	**VS 70/40**	5699	**VS 70/40 Ex**	0269	700 x 400	720	420	740	440	1.2	3.7
GF 80/50	6925	**VS 80/50**	5700	—	—	800 x 500	820	520	840	540	1.5	4.5
GF 100/50	6926	**VS 100/50**	5701	—	—	1000 x 500	1020	520	1040	540	1.7	5.0

Volume control dampers JVK

Flanged casing on both sides, made of galvanised sheet steel, designed to fit into rectangular fans. The blades are hollow and their shafts run embedded in polymer guides. The external control lever adjusts all blades equally.
The control mechanism is also outside the airstream and secured against operational interruptions therefore unaffected by airborne contamination.
The blades create an additional pressure loss (shown in the adjacent diagram) which must be considered when designing.

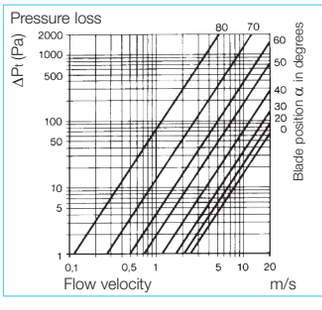
JVK

Dim. in mm see table



Type	Ref. no.	Fits fan duct nominal size mm	Duct-fan Ø mm	Dimensions in mm A	B	C	D	Weight approx. kg
JVK 30/15	6927	300 x 150	180	320	170	340	190	3.5
JVK 40/20	6910	400 x 200	200–250	420	220	440	240	4.0
JVK 50/25	6911	500 x 250	315	520	270	540	290	5.0
JVK 50/30	6912	500 x 300	250	520	320	540	340	6.0
JVK 60/30	6913	600 x 300	285	620	320	640	340	7.0
JVK 60/35	6914	600 x 350	315–400	620	370	640	390	7.2
JVK 70/40	6915	700 x 400	355–450	720	420	740	440	9.0
JVK 80/50	6916	800 x 500	400–500	820	520	840	540	11.7
JVK 100/50	6917	1000 x 500	450–630	1020	520	1040	540	13.5

Pressure loss



Accessories

Servo motor

STM 10 230 V Ref. no. 8791

Electric drive for opening and closing of volume control dampers JVK. Installation in any position by using fixing clamp (for Ø 8–26 or ▭ 8–26 mm) and fixing with the attached anti-rotation locking bracket.
Adjustment of shutter position by using the gear unlock button.
Output signal available to indicate "open" or "close". Visible indication of shutter position (0 – 90°).

Auxiliary switch

STM 2P Ref. no. 8794

The servo motor STM 10 230 V can also be operated with an auxiliary switch component.
Two adjustable micro-switches indicate the control position.
The adjustable angle settings can be set. Position indication via adjustment ring (mechanical, snap-on).

STM 10 / STM 2P

Technical data

Supply voltage	100–240 VAC
Frequency	50/60 Hz
Torque	10 Nm
Rotation angle	0 to 95°
Operation	2.5 W
Running time (open/close)	150 s
Left/right motor rotation	reversible
Ambient temp.	–30 to +50 °C
Protection	IP 54
Protection class	II
Dim. mm	W 80 x H 124 x D 62
Weight approx.	0.75 kg
Wiring diagram no.	1087