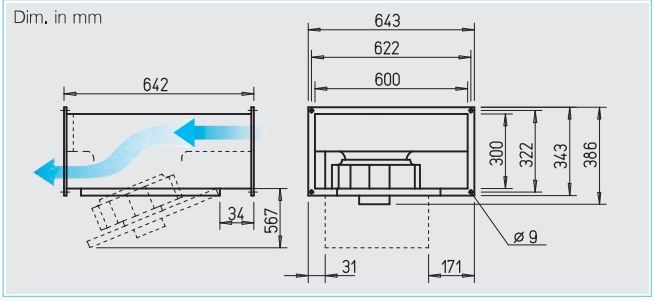
KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



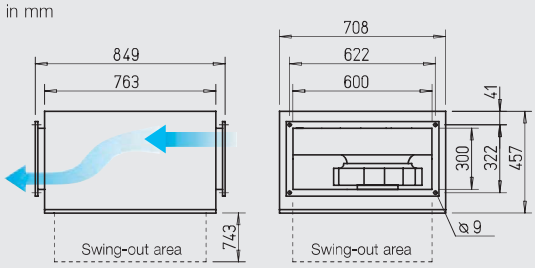
SKR EC – Sound insulated

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. 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

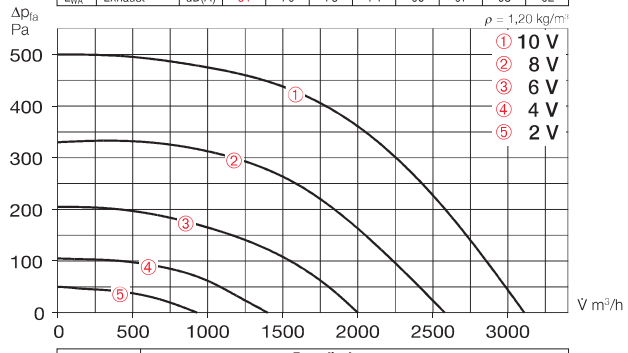
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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.
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

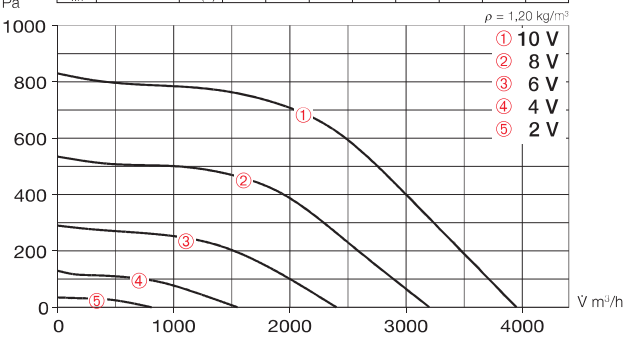
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	59	63	58	54	48	42	40
L_{WA}	Intake	dB(A)	78	73	76	66	61	61	58	58
L_{WA}	Exhaust	dB(A)	81	70	78	74	69	67	63	62



	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

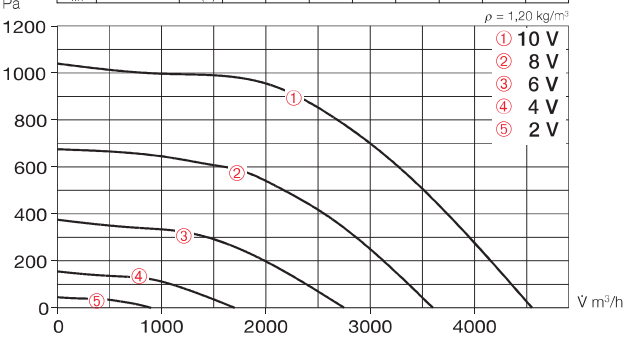
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	58	71	55	52	49	44	39
L_{WA}	Intake	dB(A)	78	72	75	64	58	56	52	50
L_{WA}	Exhaust	dB(A)	84	74	83	73	72	69	65	61



	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

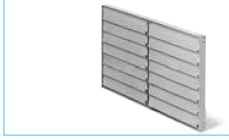
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	72	61	71	61	57	53	48	42
L_{WA}	Intake	dB(A)	80	74	76	68	62	60	56	53
L_{WA}	Exhaust	dB(A)	86	76	84	77	76	74	69	64



	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.

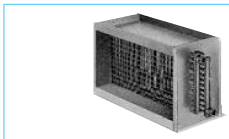
Rectangular attenuator
Type KSD 60/30-35 No. 8730
For in-duct installation on intake or exhaust side.

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

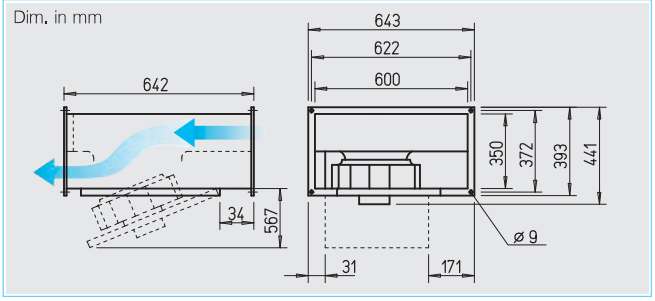
[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



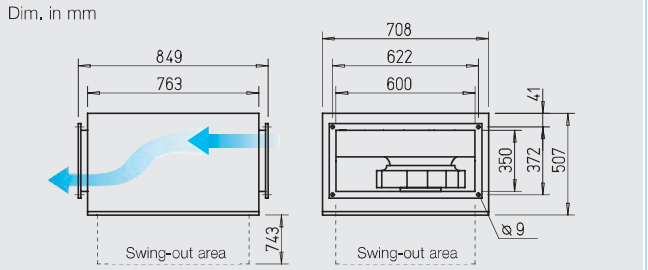
SKR EC – Sound insulated

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



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- ☐ 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

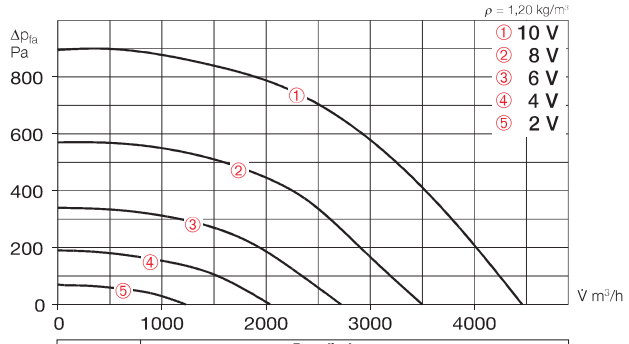
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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

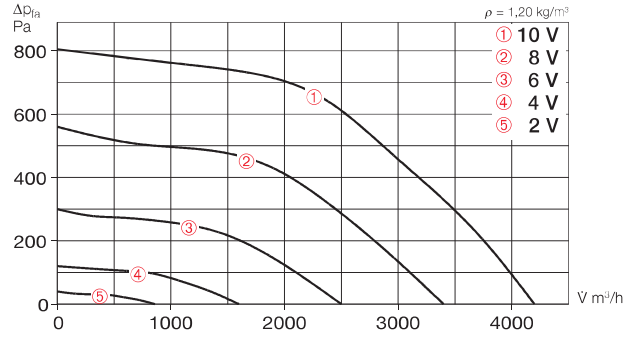
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	76	57	76	62	61	57	50	45
L_{WA}	Intake	dB(A)	86	72	85	72	71	69	66	61
L_{WA}	Exhaust	dB(A)	90	74	88	81	80	77	72	66



	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

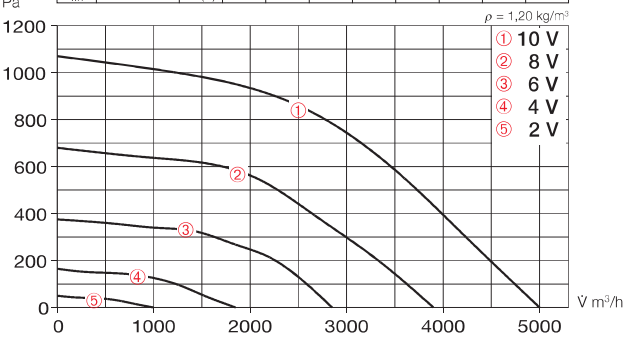
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	55	70	53	49	49	46	44
L_{WA}	Intake	dB(A)	76	69	74	63	56	53	50	48
L_{WA}	Exhaust	dB(A)	83	71	82	70	71	69	63	60



	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

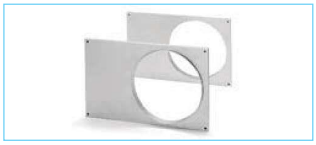
Accessories

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

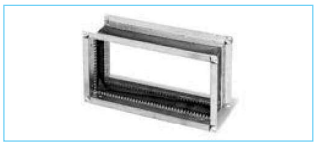
External louvre
Type WSG 60/35 Ref. no. 0113
Heavy duty construction made from profile anodised aluminium extrusion.

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.

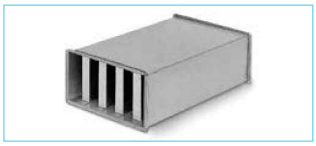


Flexible connectors
Type VS 60/35 Ref. no. 5698
Flexible in-duct connector with flanges on both sides.



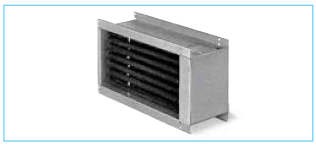
Counterflange
Type GF 60/35 Ref. no. 6923
Flange frames made of galvanised steel for connection to ducting.

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



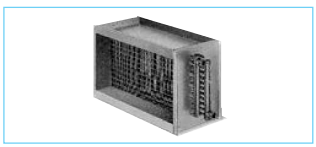
Air-duct filter
Type KLF 60/30-35 G4 No. 8722
Type KLF 60/30-35 F7 No. 8646
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

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

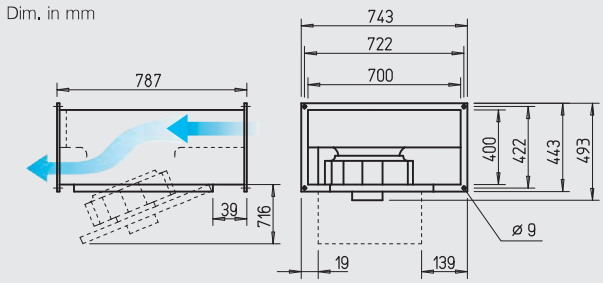
[1] In model WHR 4/60/30-35 the heat output is reduced to 2200 l/h.

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



SKR EC – Sound insulated

acousticline

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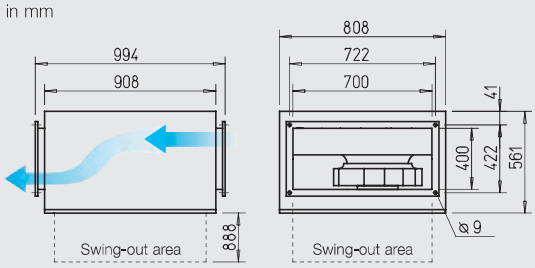
Dim. in mm



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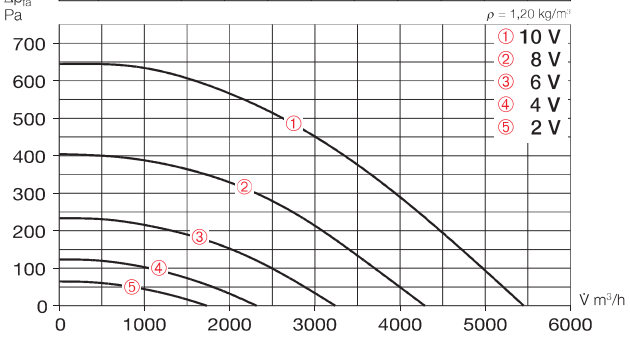
Single Phase, 230 V, 50/60 Hz, EC motor, protection to IP 54															
KRW EC 450/70/40	6127	5450	1420	46	0.72	3.29	982	60	40.0	**EUR EC** [1) 2)]	1347	**PU 10** [1)]	1734	**PA 10** [1)]	1735
Three Phase, 400 V, 50/60 Hz, EC motor, protection to IP 54															
KRD EC 450/70/40	8173	7480	2300	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

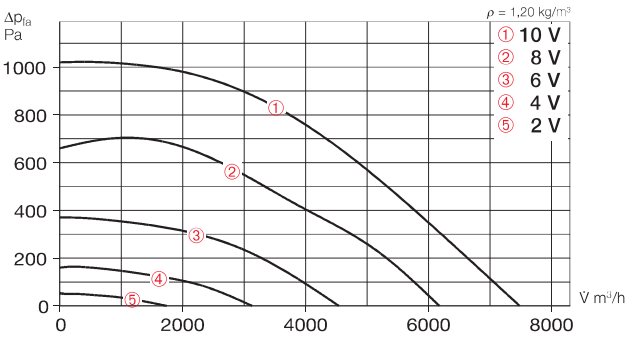
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	66	60	64	59	53	46	43	40
L_{WA}	Intake	dB(A)	79	76	73	69	66	63	60	58
L_{WA}	Exhaust	dB(A)	84	77	80	75	74	68	64	62



	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

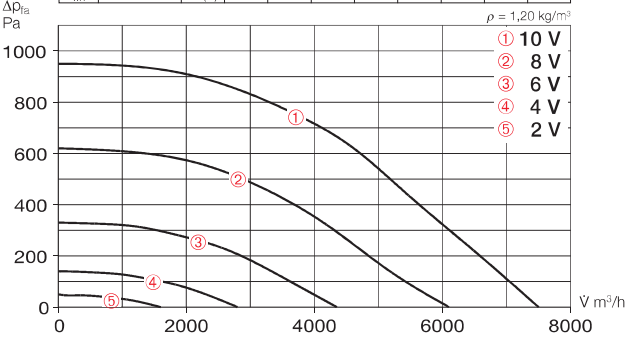
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	74	63	72	68	61	53	47	43
L_{WA}	Intake	dB(A)	87	79	85	77	76	71	66	61
L_{WA}	Exhaust	dB(A)	91	80	89	82	83	75	70	66



	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	2600	80	0,27	32	0,11

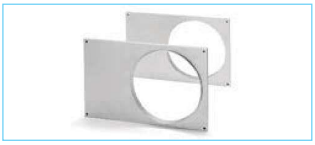
Accessories

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.

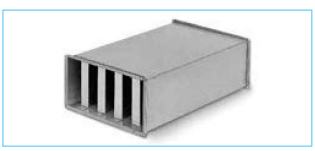
Circular spigot
Type FSK 70/40 Ref. no. 0840
For cost effective adaption of rectangular fans into circular ducting systems with Ø 400 mm.



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

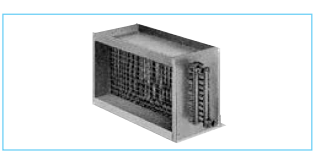
Counterflange
Type GF 70/40 Ref. no. 6924
Flange frames made of galvanised steel for connection to ducting.

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.

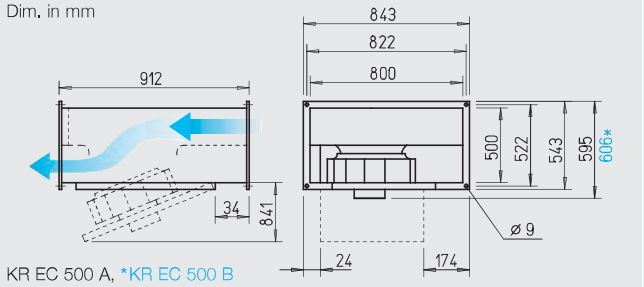
Accessory details Page

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



KR EC 500 A, *KR EC 500 B

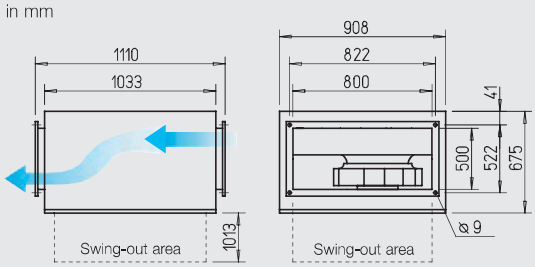
SKR EC – Sound insulated

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

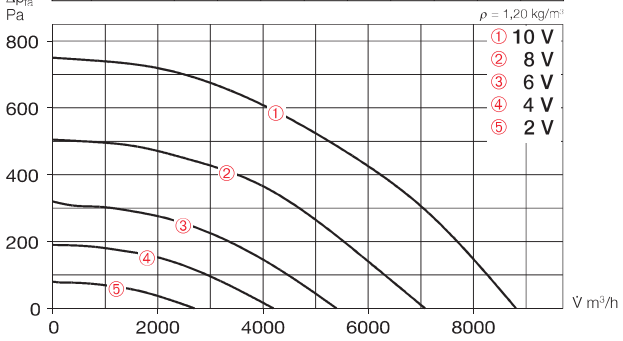
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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		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

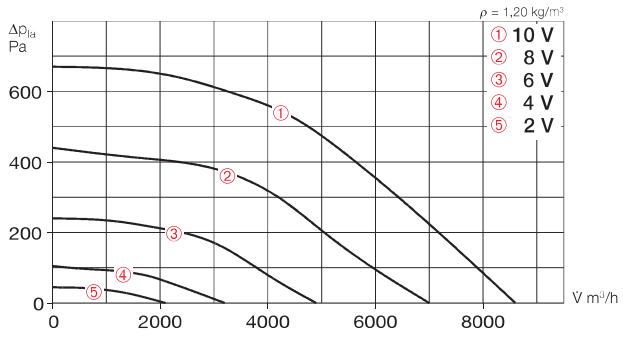
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	71	68	66	62	56	48	42	45
L_{WA}	Intake	dB(A)	82	79	73	70	72	70	67	67
L_{WA}	Exhaust	dB(A)	86	81	81	78	78	74	71	70



	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

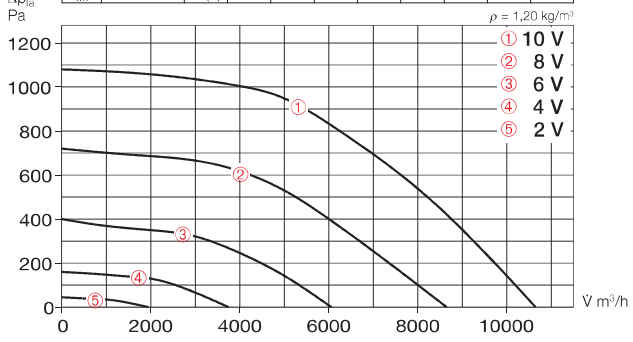
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	68	67	60	52	52	48	43	38
L_{WA}	Intake	dB(A)	76	76	64	58	56	54	50	51
L_{WA}	Exhaust	dB(A)	83	79	76	72	73	67	66	66



	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

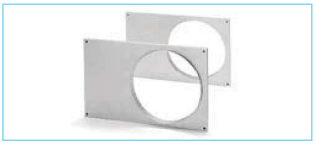
Accessories

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.

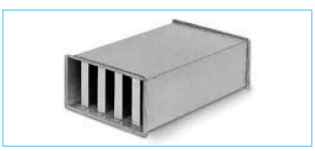
Circular spigot
Type FSK 80/50 Ref. no. 0842
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



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

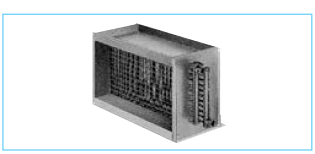
Counterflange
Type GF 80/50 Ref. no. 6925
Flange frames made of galvanised steel for connection to ducting.

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*

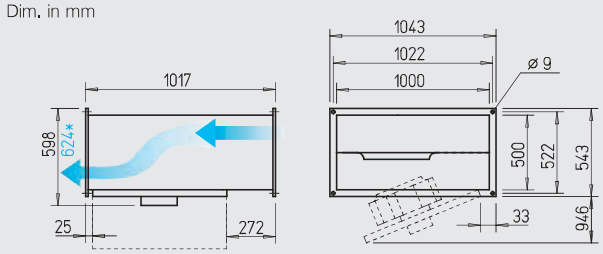
Accessory details **Page**

KR EC

Suitable for polluted air.

(Fig. similar)

Dim. in mm



KR EC 560 A, *KR EC 560 B

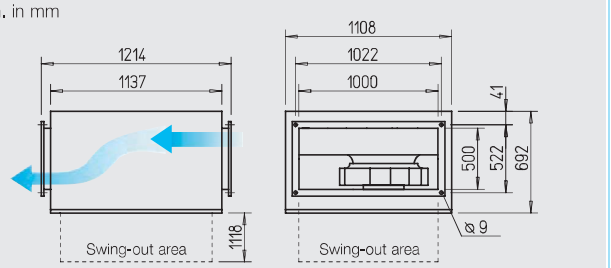
SKR EC – Sound insulated

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

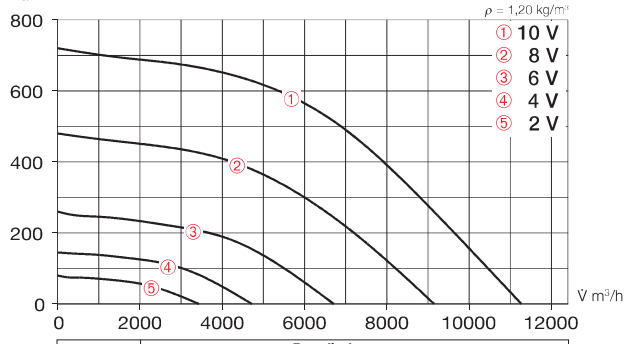
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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		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

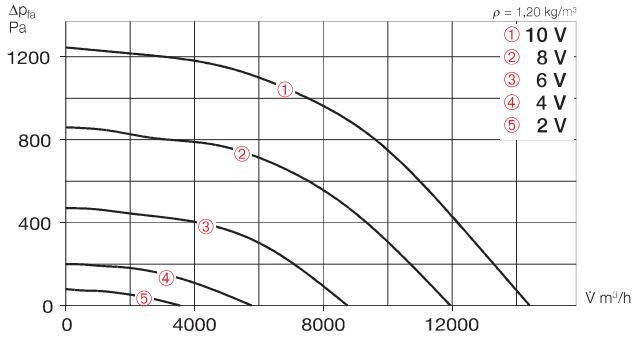
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	74	71	69	63	57	51	47	48
L_{WA}	Intake	dB(A)	82	79	73	71	73	70	66	66
L_{WA}	Exhaust	dB(A)	88	82	82	79	79	75	71	72



	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

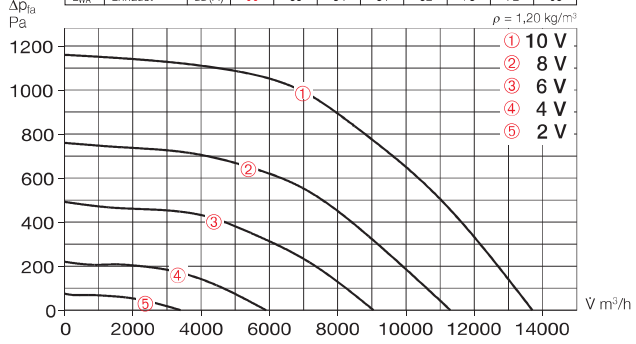
Frequency		Hz	Total	125	250	500	1k	2k	4k	8k
L_{WA}	Case breakout	dB(A)	80	74	77	73	68	60	56	50
L_{WA}	Intake	dB(A)	89	84	82	81	81	78	74	69
L_{WA}	Exhaust	dB(A)	96	89	91	87	88	84	80	74



	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

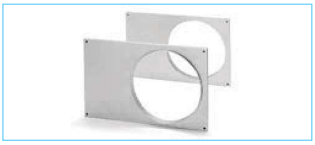
Accessories

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.

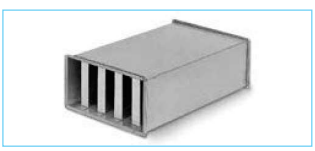
Circular spigot
Type FSK 100/50 Ref. no. 0843
For cost effective adaption of rectangular fans into circular ducting systems with Ø 500 mm.



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

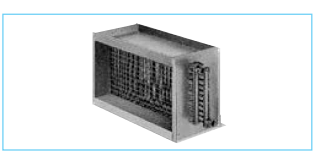
Counterflange
Type GF 100/50 Ref. no. 6926
Flange frames made of galvanised steel for connection to ducting.

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