



KR EC

Suitable for polluted air.



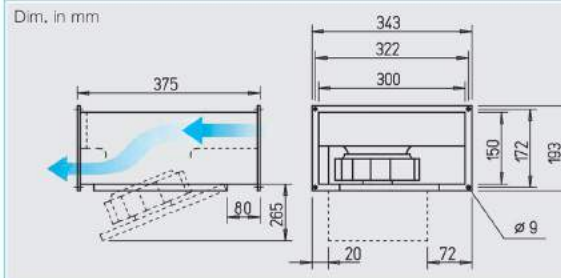
(fig. similar)

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 control-lable 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.

Note

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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

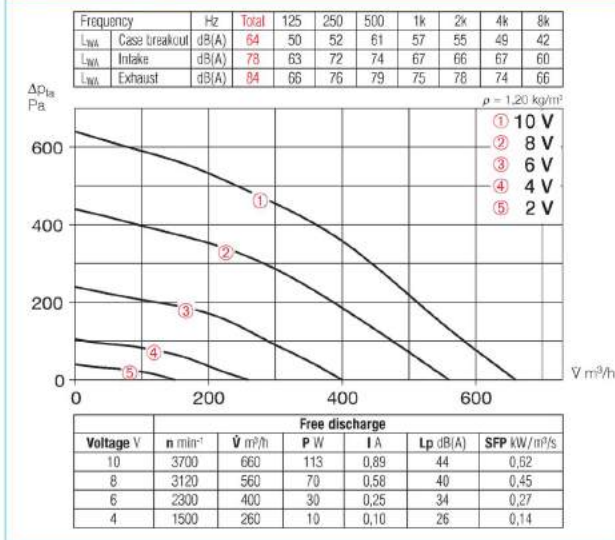
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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				
		V 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 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) High 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



Accessories

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

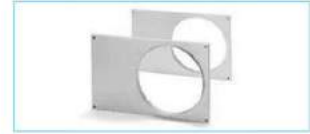
External louvre
Type WSG 30/15 Ref. no. 0108
 Heavy duty construction made from profile anodised aluminium extrusion.

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.

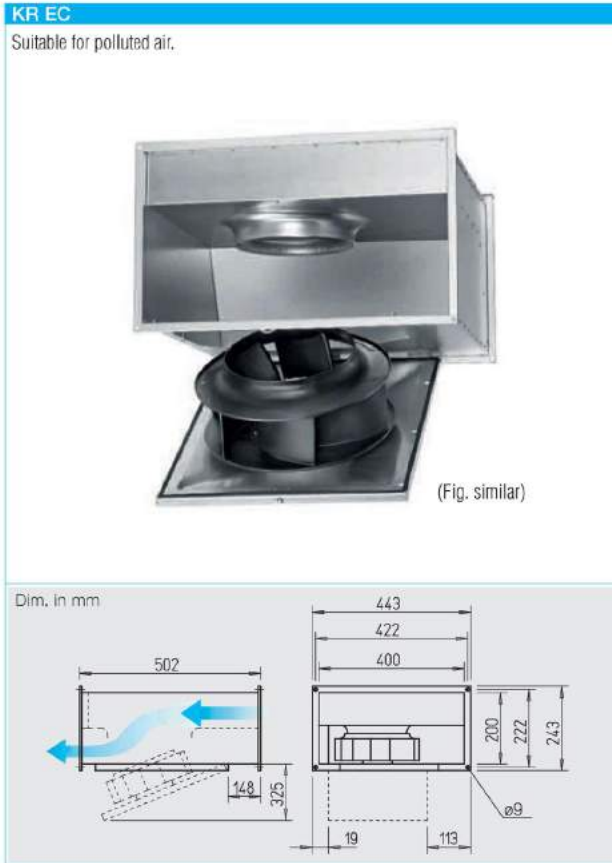
Circular spigot
Type FSK 30/15 Ref. no. 0831
 For cost effective adaption of rectangular fans into circular ducting systems with Ø 160 mm.

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



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 control-lable 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.

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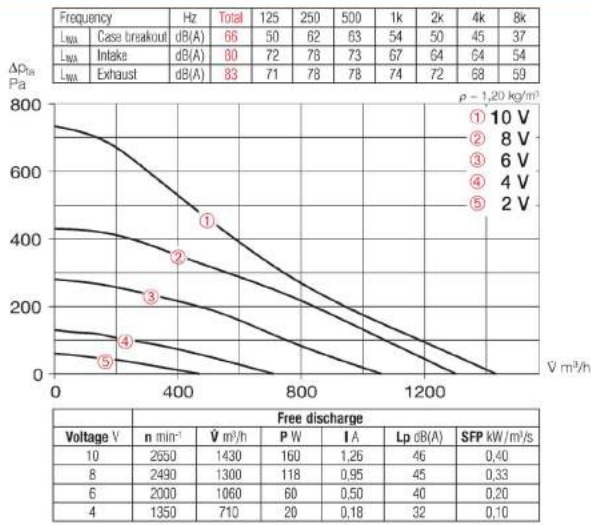
- **Sound levels**
Total sound power levels and the spectrum figures in dB(A) are given for:
 - Sound level case breakout
 - Sound level intake
 - Sound level exhaust
 In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field 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	
										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



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
Universal control system, electronic controller, speed-potentiometer	539 on

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.

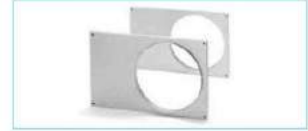
Air-duct filter
Type KLF 40/20 G4 No. 8720
Type KLF 40/20 F7 No. 8644
 Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

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



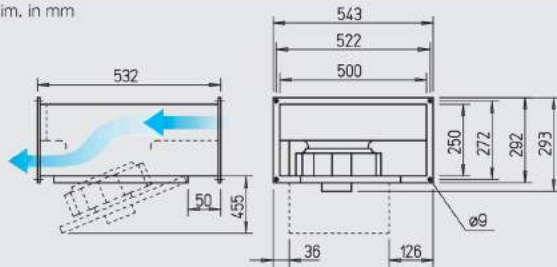
KR EC

Suitable for polluted air.



(Fig. similar)

Dim. in mm



SKR EC – Sound insulated

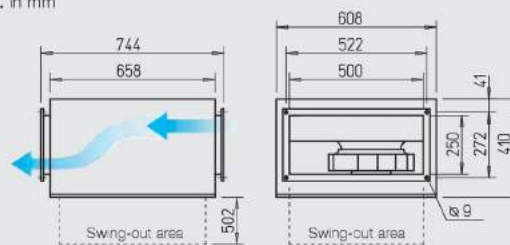


Lowest sound levels for intake and case breakout at higher power density.

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 control-lable 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**

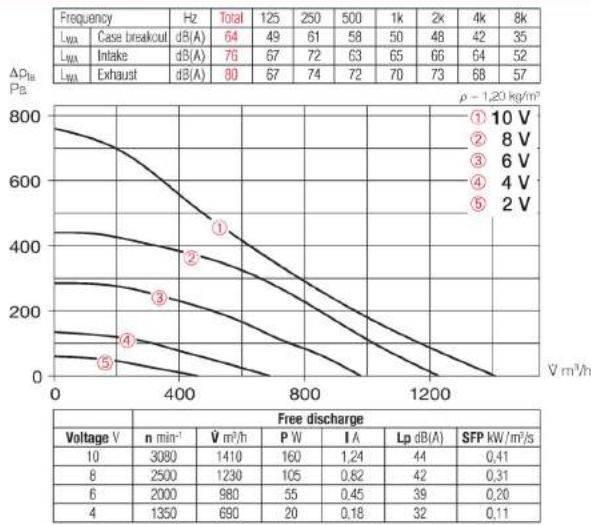
Total sound power levels and the spectrum figures in dB(A) are given for:
– Sound level case breakout
– Sound level intake
– Sound level exhaust
In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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	
										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

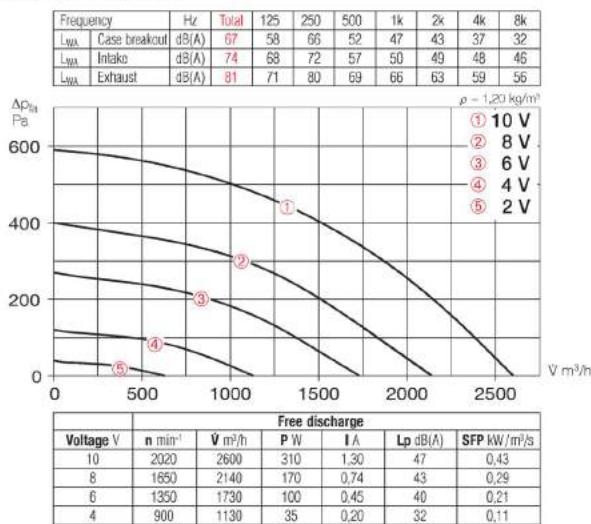
¹⁾ The EC fans can normally be connected ²⁾ alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories



KRW EC 315/50/25



SKRW EC 315/50/25



55% Saving*
* with speed control

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
Universal control system, electronic controller, speed-potentiometer	539 on

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 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



EC rectangular fans

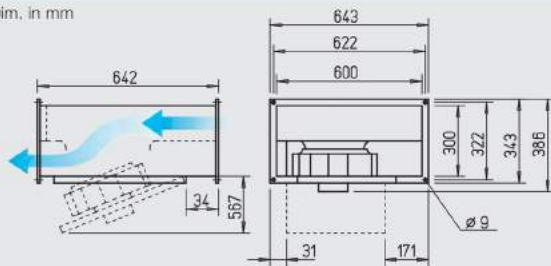
KR EC

Suitable for polluted air.



(Fig. similar)

Dim. in mm



SKR EC – Sound insulated

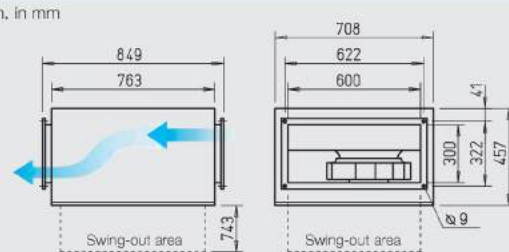


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



■ **Features of**

KR 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).

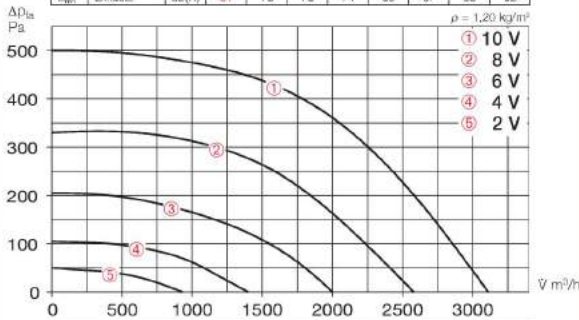
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
		Q m³/h	min⁻¹	dB(A) in 4 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	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

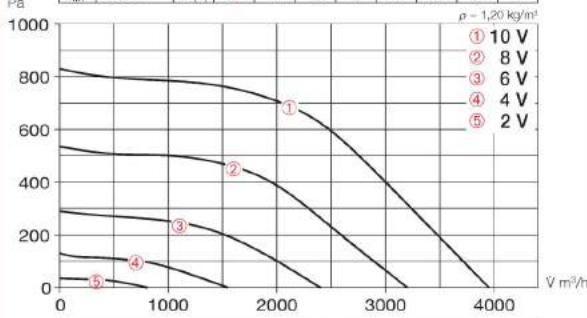
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{Wx} Case breakout		dB(A) 66	59	63	58	54	48	42	40
L _{Wx} Intake		dB(A) 78	73	76	66	61	61	58	58
L _{Wx} Exhaust		dB(A) 81	70	78	74	69	67	63	62



Free discharge						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /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

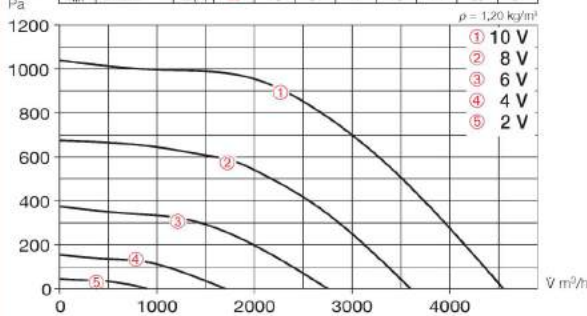
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{Wx} Case breakout		dB(A) 71	58	71	55	52	49	44	39
L _{Wx} Intake		dB(A) 78	72	75	64	58	56	52	50
L _{Wx} Exhaust		dB(A) 84	74	83	73	72	69	65	61



Free discharge						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /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 _{Wx} Case breakout		dB(A) 72	61	71	61	57	53	48	42
L _{Wx} Intake		dB(A) 80	74	76	68	62	60	56	53
L _{Wx} Exhaust		dB(A) 86	76	84	77	76	74	69	64



Free discharge						
Voltage V	n min ⁻¹	V m ³ /h	P W	I A	Lp dB(A)	SFP kW/m ³ /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 louver

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 HE¹⁾ Ref. no. 8319

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



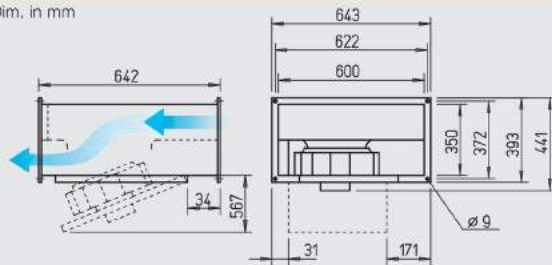
KR EC

Suitable for polluted air.



(Fig. similar)

Dim. in mm



■ 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.

SKR EC – Sound insulated

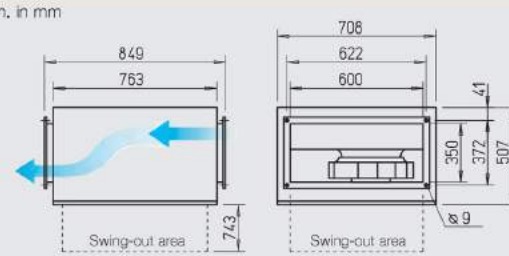


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



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).

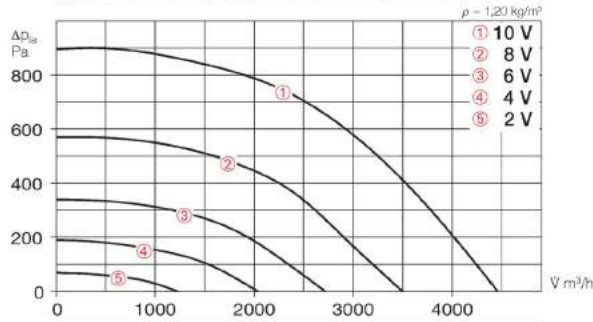
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power	Current	Wiring diagram	max. air flow temperature	Weight net approx.	Universal control system		Speed-potentiometer flush		Speed-potentiometer surface	
										Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
Single Phase, 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. 1437/1436) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories



KRW EC 400/60/35

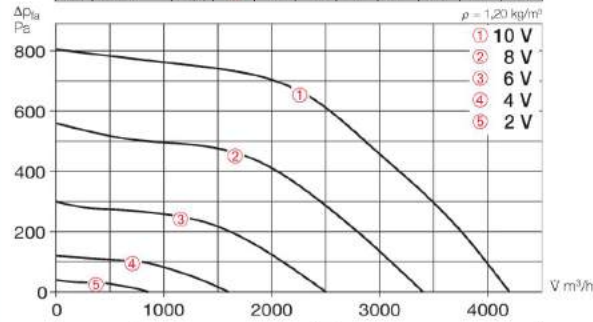
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout		76	57	76	62	61	57	50	45
L _{WA} Intake		86	72	85	72	71	69	66	61
L _{WA} Exhaust		90	74	88	81	80	77	72	66



Free discharge						
Voltage V	n min ⁻¹	V̇ m³/h	P W	I A	Lp dB(A)	SFP kW/m²/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

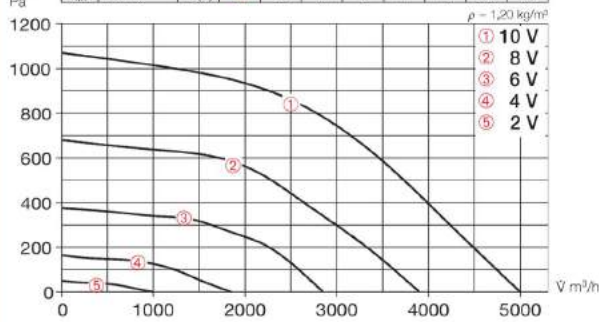
Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
L _{WA} Case breakout		71	55	70	53	49	49	46	44
L _{WA} Intake		76	69	74	63	56	53	50	48
L _{WA} Exhaust		83	71	82	70	71	69	63	60



Free discharge						
Voltage V	n min ⁻¹	V̇ m³/h	P W	I A	Lp dB(A)	SFP kW/m²/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		71	59	70	62	53	48	44	41
L _{WA} Intake		78	73	75	69	63	58	55	52
L _{WA} Exhaust		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/m²/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. 8648
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 HE¹⁾ Ref. no. 8319

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



EC rectangular fans



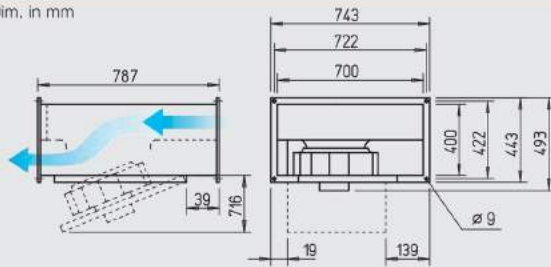
KR EC

Suitable for polluted air.



(Fig. similar)

Dim. in mm



SKR EC – Sound insulated

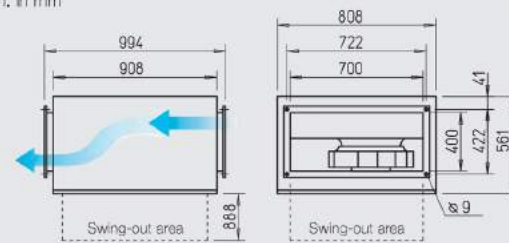


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



■ **Features of KR 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**

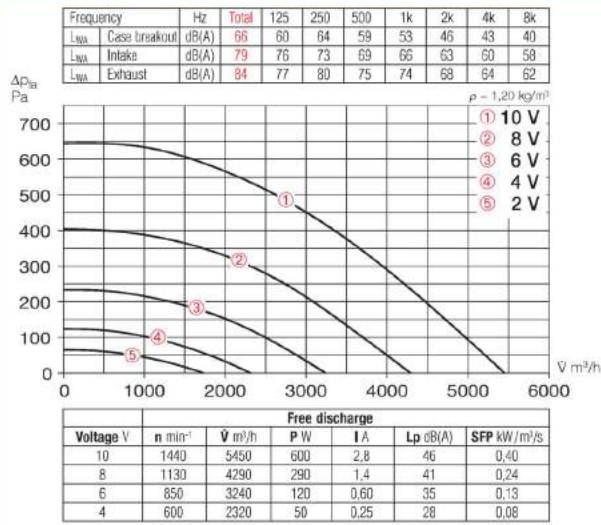
- Total sound power levels and the spectrum figures in dB(A) are given for:
 - Sound level case breakout
 - Sound level intake
 - Sound level exhaust
 In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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	
										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

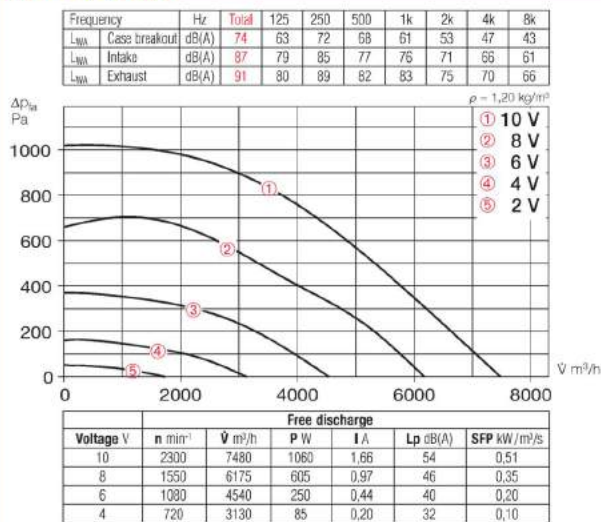
¹⁾ Multiple EC fans can normally be connected ²⁾ alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1436) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories ³⁾ see performance curve diagram on www.HeliosSelect.de



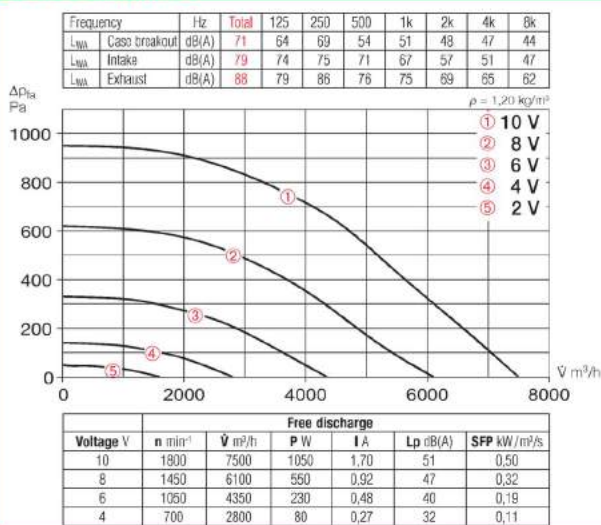
KRW EC 450/70/40



KRD EC 450/70/40



SKRD EC 450/70/40 A



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 HE¹⁾ 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, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 432 on
Universal control system, electronic controller, speed-potentiometer	539 on

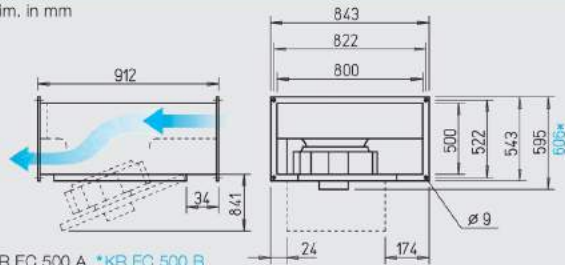
KR EC

Suitable for polluted air.



(Fig. similar)

Dim. in mm



KR EC 500 A, *KR EC 500 B

SKR EC – Sound insulated

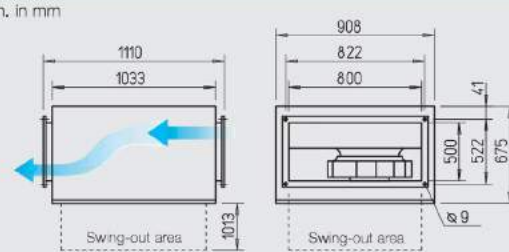


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



Features of

KR 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

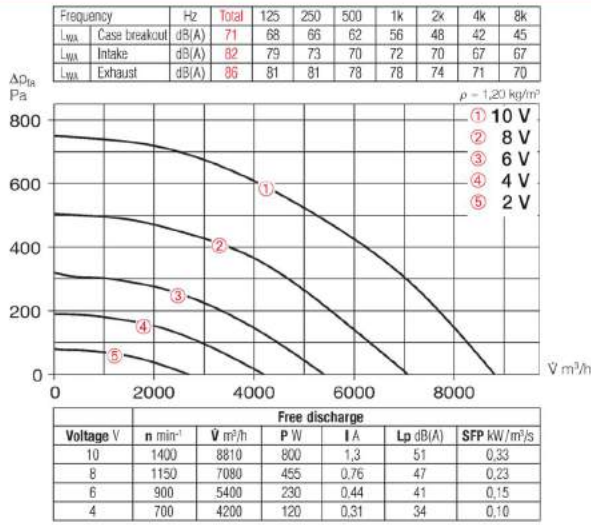
- Total sound power levels and the spectrum figures in dB(A) are given for:
 - Sound level case breakout
 - Sound level intake
 - Sound level exhaust
- In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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	
										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

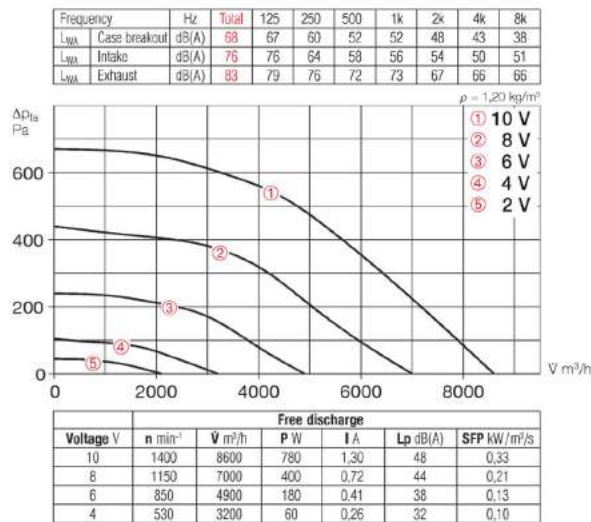
¹⁾ Multiple EC fans can normally be connected ²⁾ alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories ³⁾ see performance curve diagram on www.HeliosSelect.de



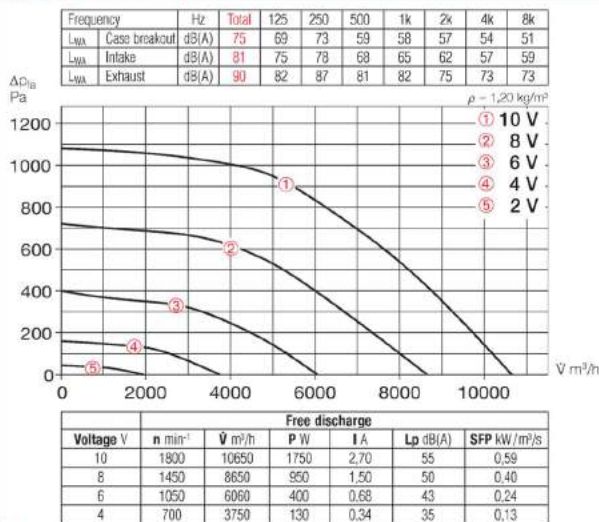
KRD EC 500/80/50 A



SKRD EC 500/80/50 A



SKRD EC 500/80/50 B



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. 6918
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
Universal control system, electronic controller, speed-potentiometer	539 on



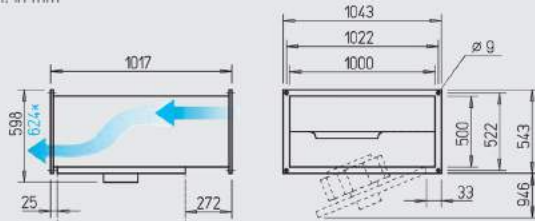
KR EC

Suitable for polluted air.



(Fig. similar)

Dim. in mm



KR EC 560 A, *KR EC 560 B

SKR EC – Sound insulated

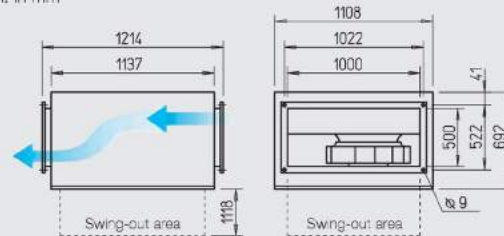


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



Features of

KR 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:

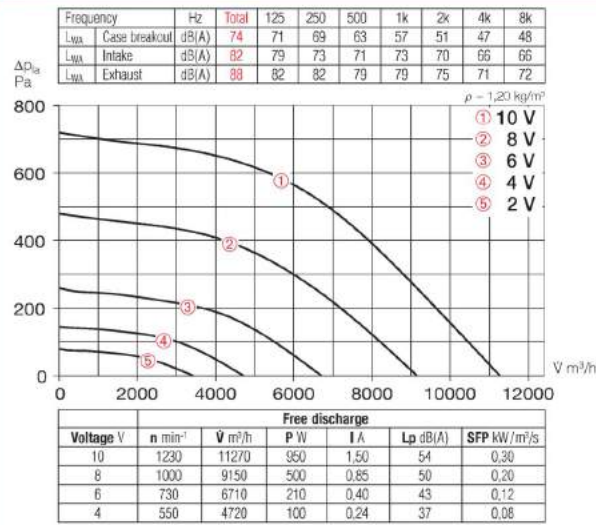
- Sound level case breakout
 - Sound level intake
 - Sound level exhaust
- In the table below as well as underneath the performance curve you can find additionally the sound pressure level at 4 m (free field conditions).

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	
										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

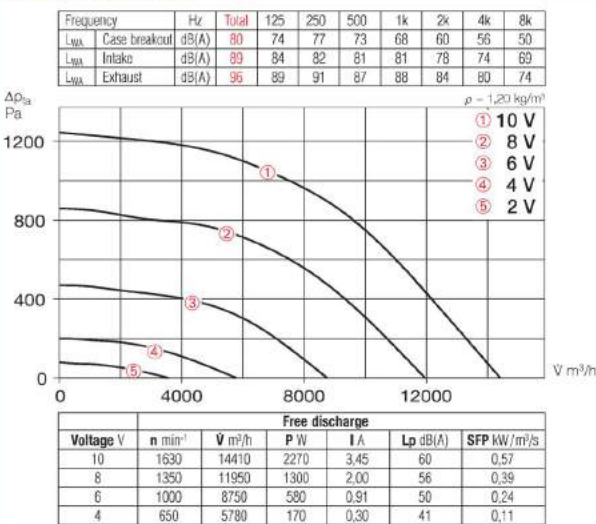
¹⁾ Multiple EC fans can normally be connected ²⁾ alternative electronic differential pressure/temp. controller (EDR/ETR, No. 1437/1438) or three-step speed controller (SU/SA, No. 4266/4267), s. accessories ³⁾ see performance curve diagram on www.HeliosSelect.de



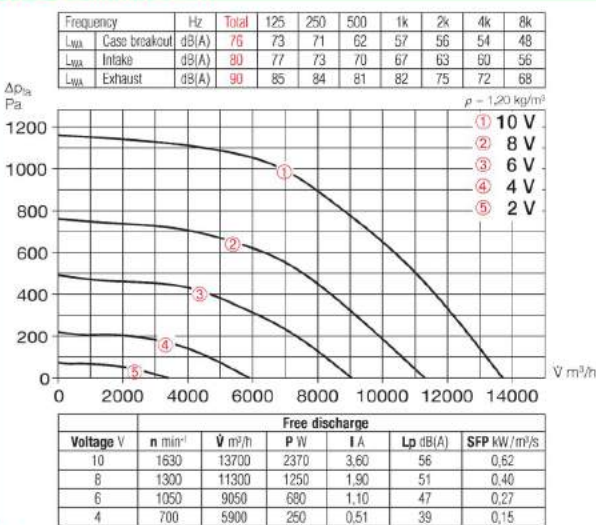
KRD EC 560/100/50 A



KRD EC 560/100/50 B



SKRD EC 560/100/50 B



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

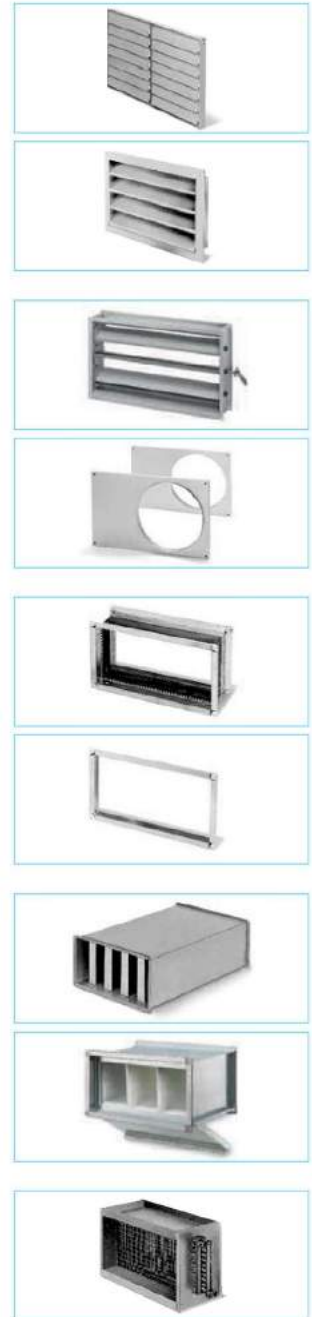
Type KSD 100/50 Ref. no. 8733
For in-duct installation on intake or exhaust side.

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.



EC rectangular fans



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

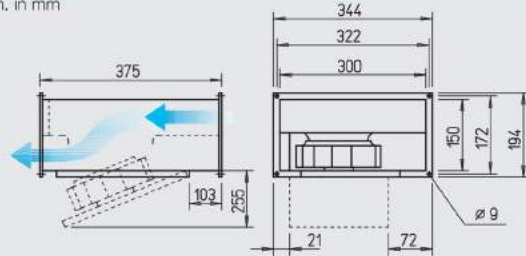


KR 180

Suitable for polluted air.



Dim. in mm

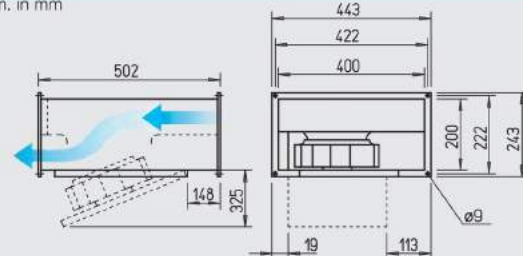


KR 225

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:

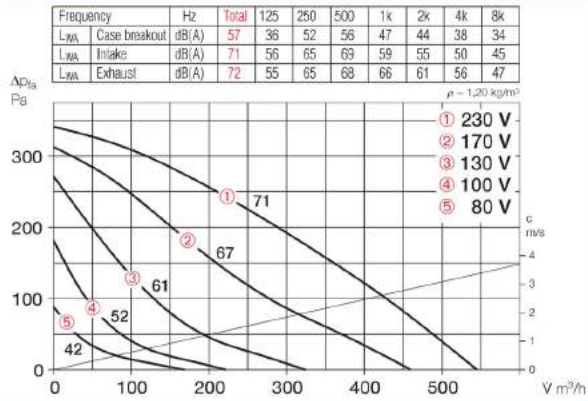
- Sound level case breakout
 - Sound level intake
 - Sound level exhaust
- The sound power level (on intake) is additionally shown within the performance curve for corresponding control voltages. In the table below you can also find:
- Case breakout sound level at 4 m (free field conditions).

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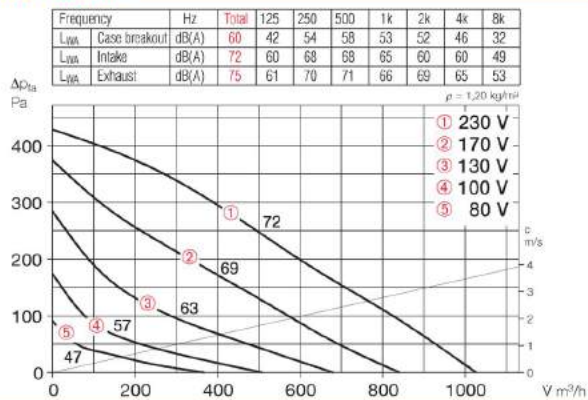
Type	Ref. no.	Air flow volume (FD) V m³/h	Nominal R.P.M. min⁻¹	Sound press. case breakout dB(A) in 4 m	Motor power		Wiring diagram No.	max. air flow temperature at full load +°C	max. air flow temperature at control +°C	Weight net approx. kg	Speed controller					
					kW	A					5-step transformer Type	Ref. no.	surface, electronic Type	Ref. no.	flush, electronic 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



KRW 225/2/40/20



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.

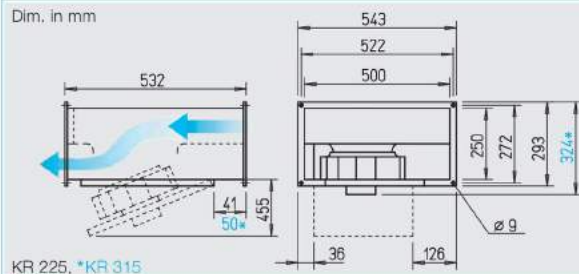
Temperature control system for warm water heater battery

Type WHS HE Ref. no. 8319



KR

Suitable for polluted air.



KR 225, *KR 315

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

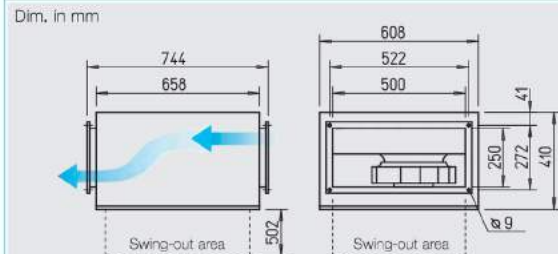
- Lowest sound levels for intake and case breakout at higher power density.
- Specification**
- Casing KR**
Made of galvanised steel. Flanged (20 mm) on both ends for in-duct installation.
- Casing SKR**
As above, but with additional sound insulation with 50 mm thick mineral fibre board, inside lined with a sound deadening perforated plate.

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.



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.)

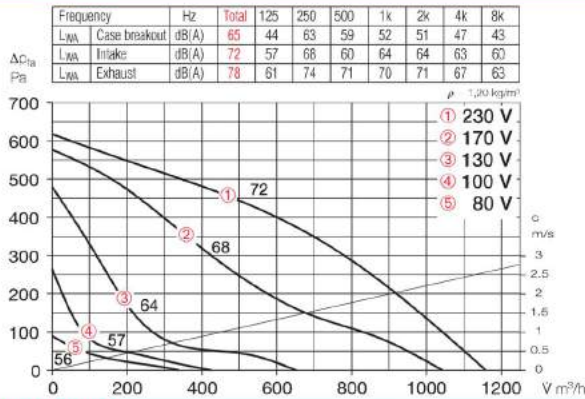
Note	Page
Selection chart	372
Technical description	373
Design guidelines	10 on Modul. system components 370

Type	Ref. no.	Air flow volume (FID) V m³/h	Nominal R.P.M. min⁻¹	Sound press. case breakout dB(A) in 4 m	Motor power		Wiring diagram No.	max. air flow temperature at full load °C	max. air flow temperature at control °C	Weight net approx. kg	Speed controller						
					kW	A					5-step transformer		surface, electronic		flush, electronic		
Single phase, capacitor motor, 230 V, 50 Hz, protection to IP 33 (225), IP 54 (315)												Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
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		MW	1579	

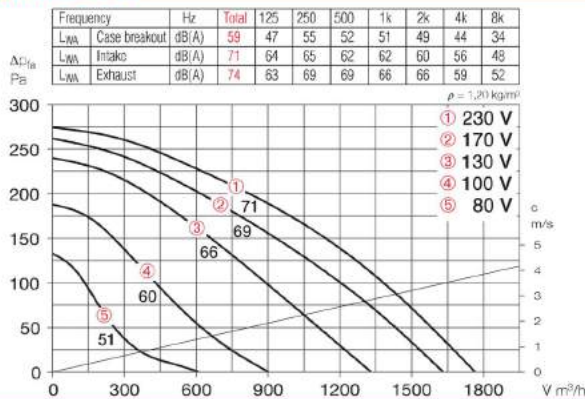
¹⁾ Full motor protection device required, Type MW, No. 1579, see accessories.



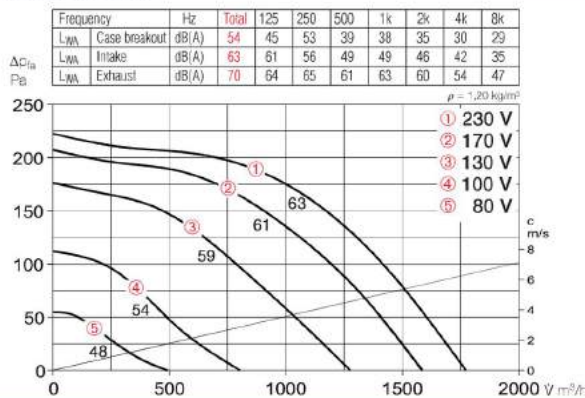
KRW 225/2/50/25



KRW 315/4/50/25



SKRW 315/4/50/25



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

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

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 ϕ 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

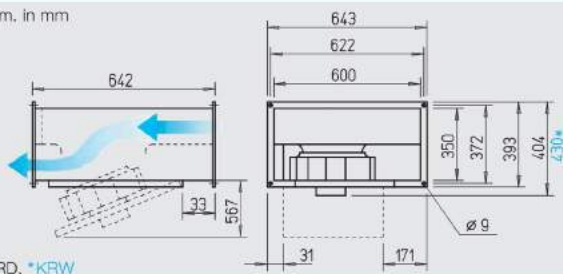


KR

Suitable for polluted air.



Dim. in mm



KRD, *KRW

SKR – Sound insulated

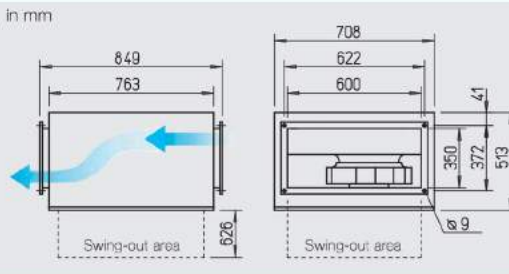


Lowest sound levels for intake and case breakout at higher power density.

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

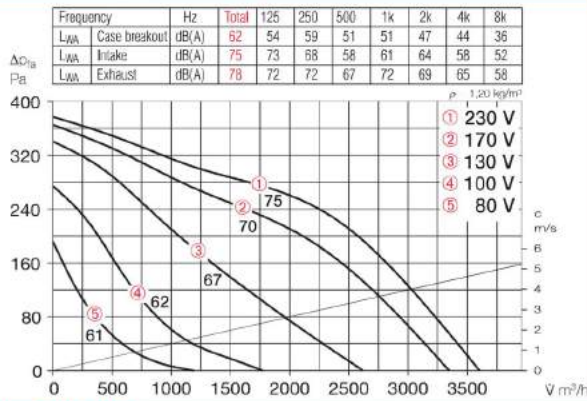
Above the performance curve, total values and spectrum are given for:

- 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).

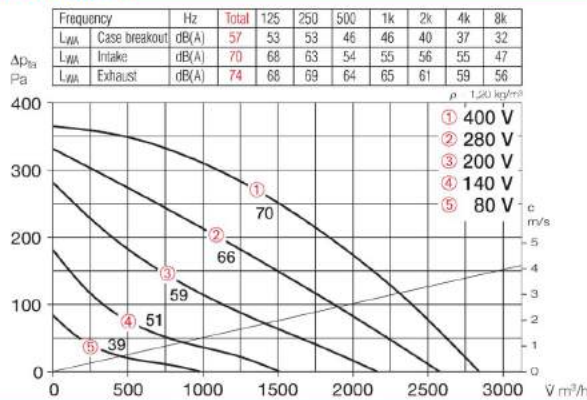
Type	Ref. no.	Air flow volume (FID)	Nominal R.P.M.	Sound press. case breakout	Motor power		Wiring diagram	max. air flow temperature at full load		Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
					kW	A		+°C	+°C		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



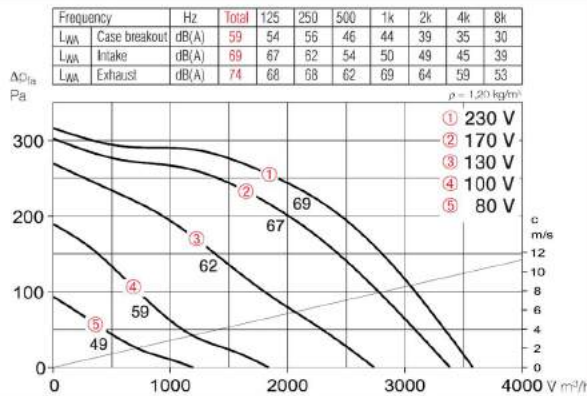
KRW 355/4/60/35



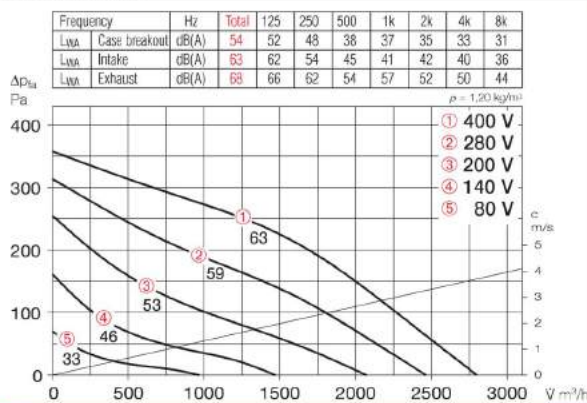
KRD 355/4/60/35



SKRW 355/4/60/35



SKRD 355/4/60/35



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. 8648
Bag filter with a large cross section area. Galvanised steel casing with flanges on both sides.

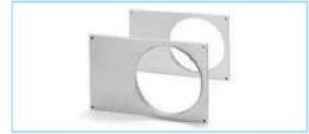
Electric heater battery
Type EHR-K 15/60/30-35 No. 8706
Type EHR-K 30/60/30-35 No. 8707
Heating elements enclosed in a galvanised steel casing with connecting flanges on both sides.

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.

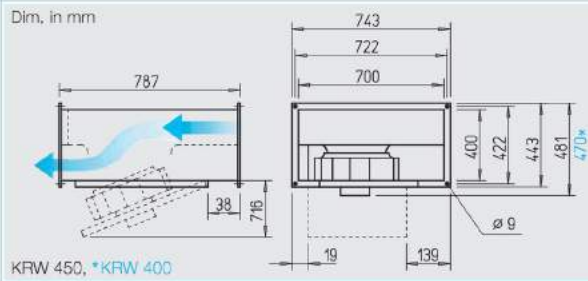
Temperature control system for warm water heater battery
Type WHS HE¹⁾ Ref. no. 8319

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



KR

Suitable for polluted air.

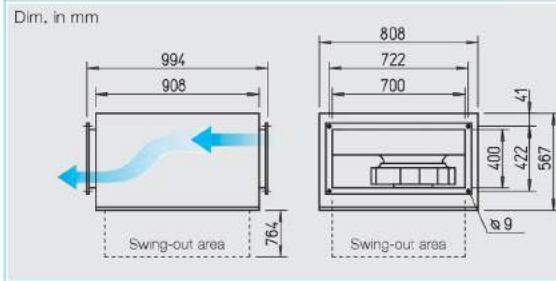


SKR – Sound insulated



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.



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

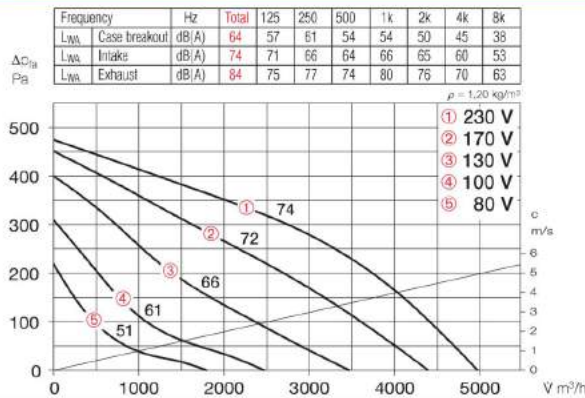
- Terminal box (IP 54) fitted to flying lead.
- Installation**
Installation in any position. Allowance must be made for the motor swing out access.
- Sound Levels**
Above the performance curve, total values and spectrum are given for:
– Sound level case breakout
– Sound level intake
– Sound level exhaust
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		Weight net approx.	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
					kW	A		+°C	+°C		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

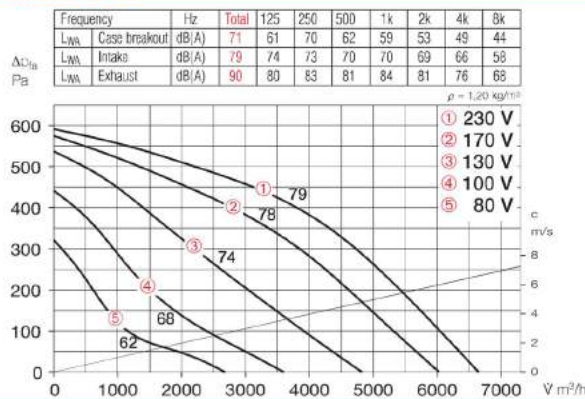
¹⁾ Performance curve diagram on www.HeliosSelect.de ²⁾ Dimensional drawing on www.HeliosSelect.de



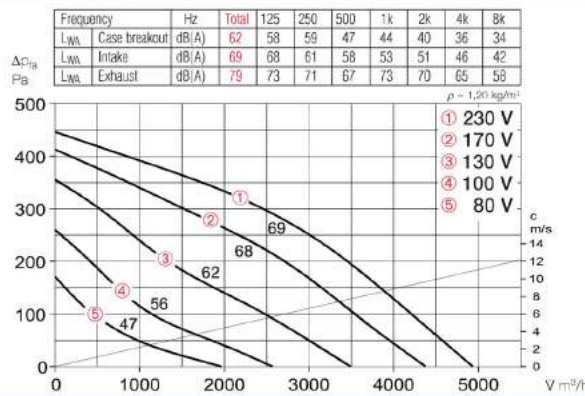
KRW 400/4/70/40



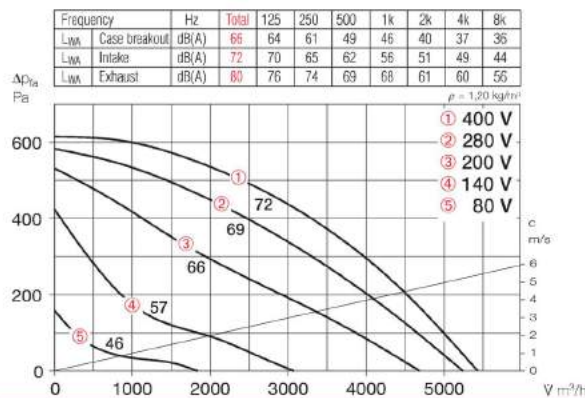
KRW 450/4/70/40



SKRW 400/4/70/40



SKRD 450/4/70/40



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 HE¹⁾ Ref. no. 8319

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



Accessory details Page

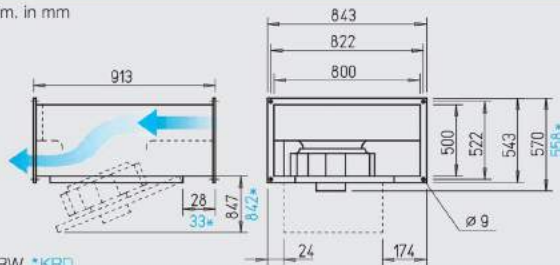
Shutters, grilles and louvres	420, 487 on
Filters, heater batteries and attenuators	421 on
Temperature control systems for heater batteries	427, 432 on
Speed controller and full motor protection devices	525 on

KR

Suitable for polluted air.



Dim. in mm



KRW, *KRD

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.

SKR – Sound insulated

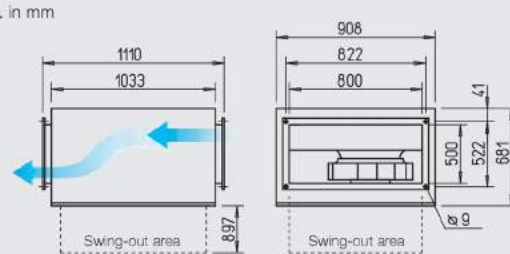


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



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.

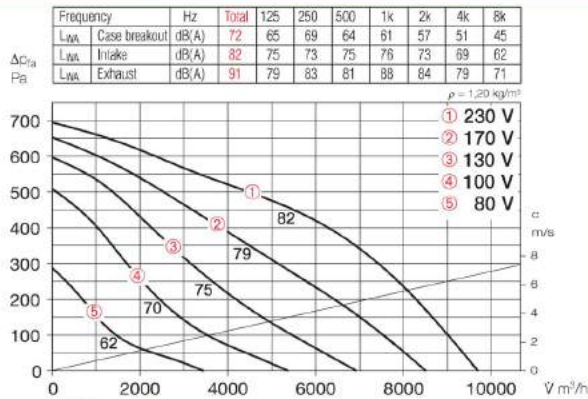
Sound Levels
Above the performance curve, total values and spectrum are given for:

- 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).

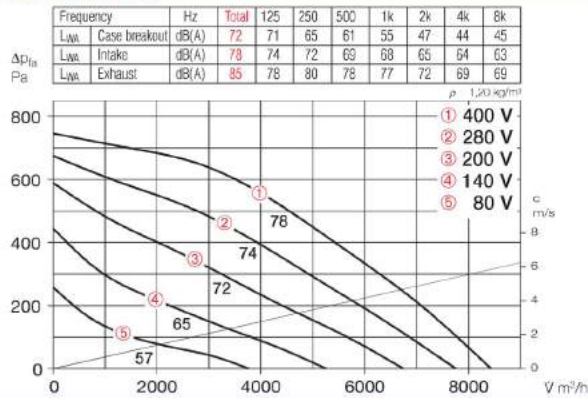
Type	Ref. no.	Air flow volume (FID) V m³/h	Nominal R.P.M. min⁻¹	Sound press. case breakout dB(A) in 4 m	Motor power		Wiring diagram No.	max. air flow temperature at full load control		Weight net approx. kg	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
					kW	A		+°C	+°C		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



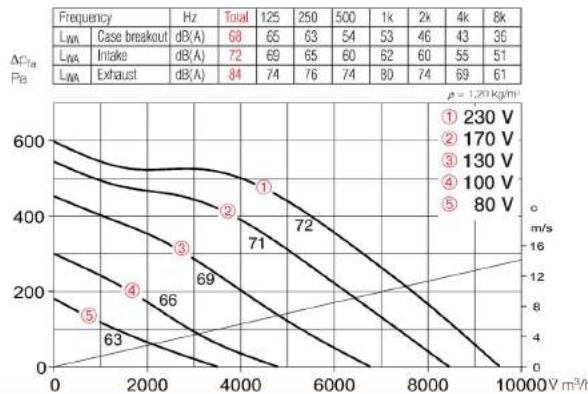
KRW 500/4/80/50



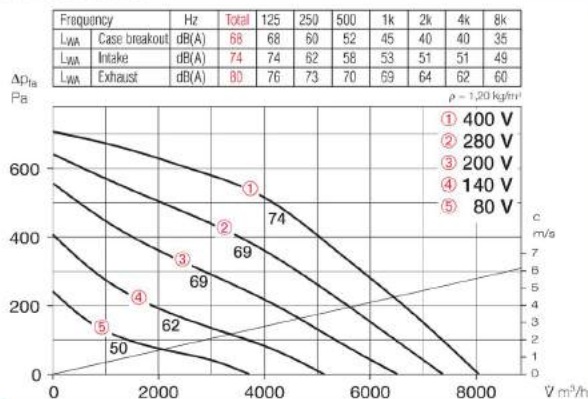
KRD 500/4/80/50 A



SKRW 500/4/80/50



SKRD 500/4/80/50



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

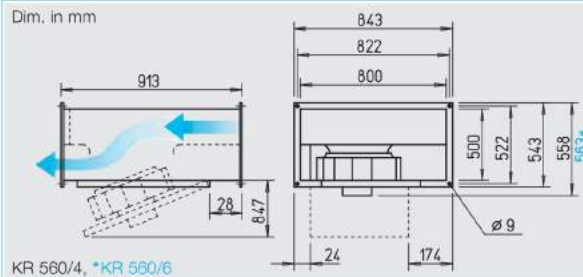
Type WHR 2/80/50 No. 8795
Type WHR 4/80/50 No. 8796
For in-duct installation.



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

KR

Suitable for polluted air.



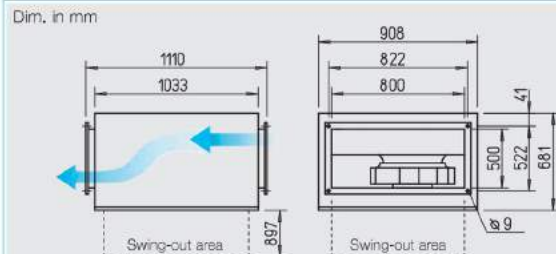
KR 560/4, *KR 560/6

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.

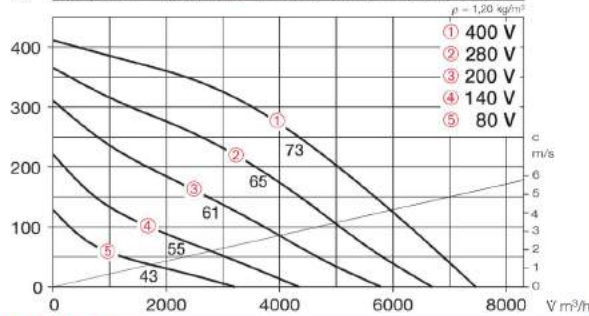
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Type	Ref. no.	Air flow volume (FID) V m ³ /h	Nominal R.P.M. min ⁻¹	Sound press. case breakout dB(A) in 4 m	Motor power		Wiring diagram No.	max. air flow temperature at full load control		Weight net approx. kg	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
					kW	A		+°C	+°C		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	66.9	RDS 2	1315	MD	5849



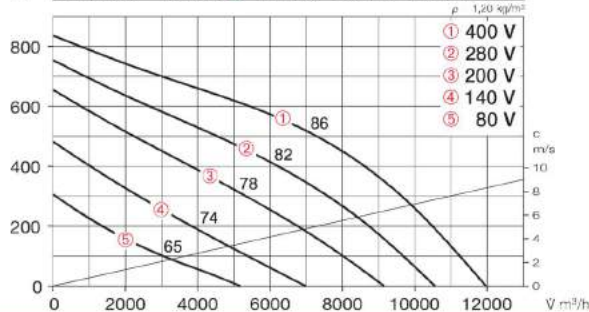
KRD 560/6/80/50

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



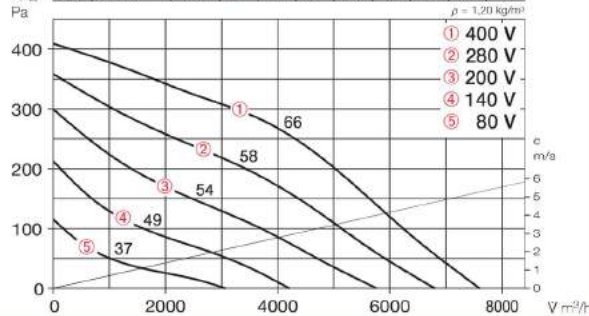
KRD 560/4/80/50

Frequency	Hz	Total	125	250	500	1k	2k	4k	8k
LWA Case breakout	dB(A)	75	63	73	68	65	60	54	48
LWA Intake	dB(A)	86	76	77	77	81	78	75	67
LWA 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
LWA Case breakout	dB(A)	56	55	50	41	40	37	36	33
LWA Intake	dB(A)	66	64	53	44	44	42	40	40
LWA 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

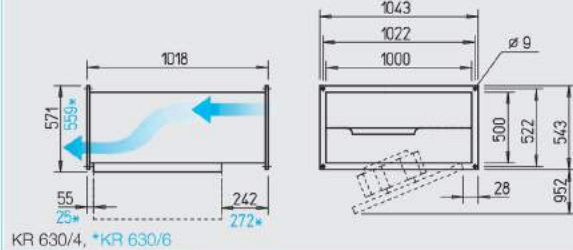
Shutters, grilles and louvres	420, 487 on
Filters, heater batteries and attenuators	421 on
Speed controller and full motor protection devices	525 on

KR

Suitable for polluted air.



Dim. in mm



KR 630/4, *KR 630/6

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.

SKR – Sound insulated

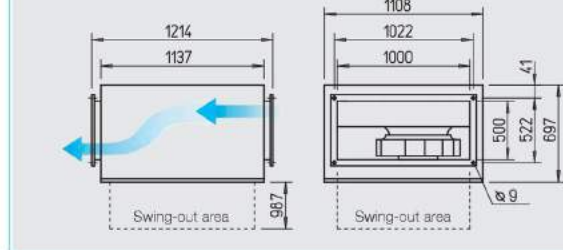


Lowest sound levels for intake and case breakout at higher power density.

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



Dim. in mm



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

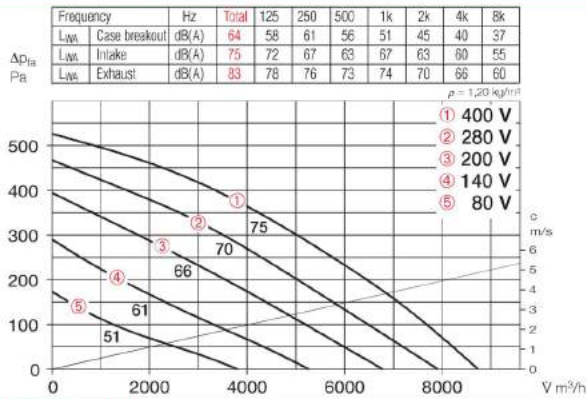
Installation in any position. Allowance must be made for the motor swing out access.

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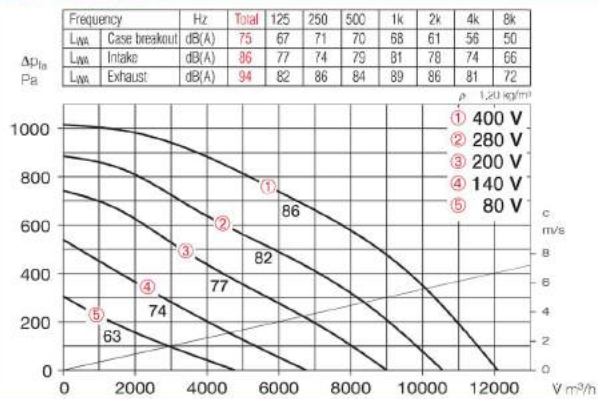
Type	Ref. no.	Air flow volume (FID)		Nominal R.P.M.	Sound press. case breakout dB(A) in 4 m	Motor power		Wiring diagram No.	max. air flow temperature at full load control		Weight net approx. kg	Speed controller 5-step with full motor protection		Full motor protection device for connection of built-in thermal contacts	
		V m³/h	min⁻¹			kW	A		+°C	+°C		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	



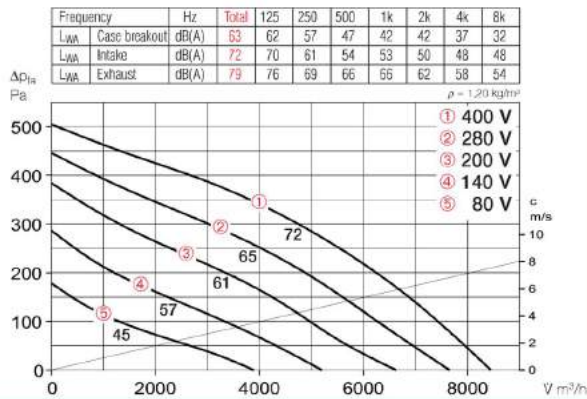
KRD 630/6/100/50



KRD 630/4/100/50



SKRD 630/6/100/50



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