

The Straight Way

K A Series



Systemair Sdn Bhd certifies that the K A Series fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



K A Series

K-Fans

- Speed-controllable
- Quiet-running
- Increased efficiency
- Integral thermal contacts
- Can be installed in any position
- Can be installed outdoors
- Maintenance-free and reliable

The K A series is designed for installation in ducts. All K-fans have a minimum 25 mm long spigot connections.

The fans have backward-curved blades and external rotor motors. To simplify the installation the K A fan has a fixing bracket together with screws for mounting the bracket included as standard. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans can be speed-controlled via a stepless thyristor or a 5-step transformer.

To protect the motor from overheating the fan has integral thermal contacts with manual reset.

The casing is manufactured from galvanised sheet steel and folded which gives the fan a close to air tight casing. Duct connected outdoor and wet room applications of the fan are possible due to the air tight casing



Technical data

50 Hz

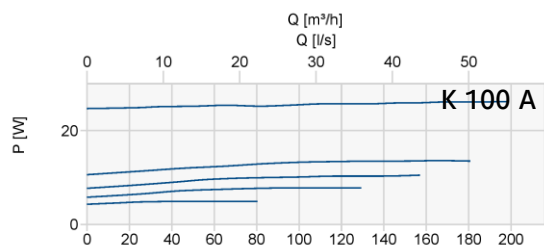
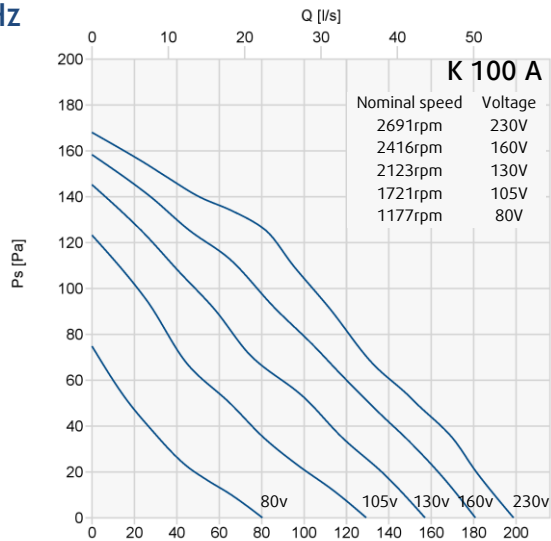
		K 100 A	K 100 AL	K 125 A	K 125 AL	K 150 A	K 150 AL	K 160 A
Article No.		508380	508381	508382	508383	508384	508385	508556
Voltage	V	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50
Phase	-	1	1	1	1	1	1	1
Maximum motor input power	W	26	57	27	58	58	122	58
Current	A	0.115	0.248	0.117	0.247	0.248	0.528	0.246
Max. airflow	m ³ /h	199	253	230	338	440	765	448
Fan impeller speed	r.p.m.	2654	2550	2663	2552	2531	2631	2571
Max. temperature of transported air	°C	55	55	55	55	55	55	55
Max. temperature of transported air when voltage controlled.	°C	55	55	55	55	55	55	55
Sound pressure level at 3 m (20m ³ Sabine)	dB(A)	29	47	31	43	41	51	40
Weight	kg	2.3	3	2.3	2.9	3.3	4.1	3.3
Insulation class		F	F	F	F	F	F	F
Enclosure class, motor	IP	44	44	44	44	44	44	44
Capacitor	µF	1	2	1	2	2	4	2

		K 160 AL	K 200 A	K 200 AL	K 250 A	K 250 AL	K 315 A	K 315 AL
Article No.		508557	508386	509457	508387	509458	508388	508389
Voltage	V	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50
Phase	-	1	1	1	1	1	1	1
Maximum motor input power	W	129	125	162	120	161	204	310
Current	A	0.549	0.528	0.692	0.524	0.689	0.847	1.32
Max. airflow	m ³ /h	854	767	889	813	896	1112	1734
Fan impeller speed	r.p.m.	2596	2636	2563	2629	2564	2560	2342
Max. temperature of transported air	°C	55	55	55	55	55	55	55
Max. temperature of transported air when voltage controlled.	°C	55	55	55	55	55	55	55
Sound pressure level at 3 m (20m ³ Sabine)	dB(A)	48	45	51	49	51	48	51.5
Weight	kg	4	4.1	4.8	3.9	4.6	5.5	6.6
Insulation class		F	F	F	F	F	F	F
Enclosure class, motor	IP	44	44	44	44	44	44	44
Capacitor	µF	4	4	4	4	4	7	7

- Performance certified is for installation type D – Ducted inlet, Ducted outlet.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- Performance ratings do not include the effects of appurtenances (accessories).
- Sound pressure level at 3m (20m³ Sabine) are not licensed by AMCA International.

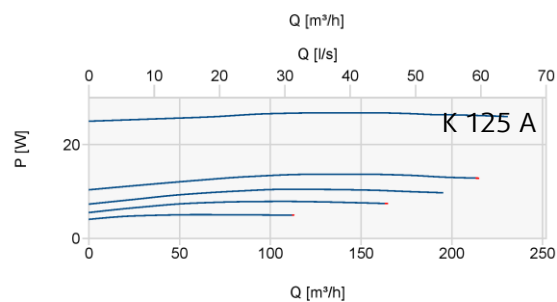
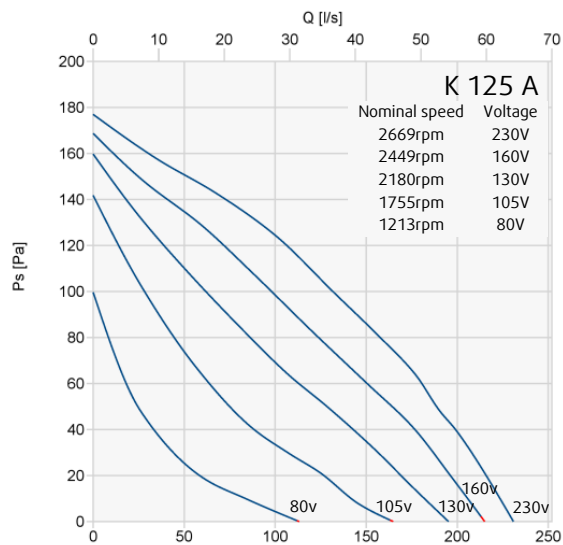
Performance

50 Hz



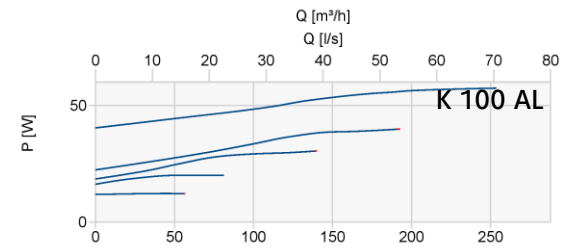
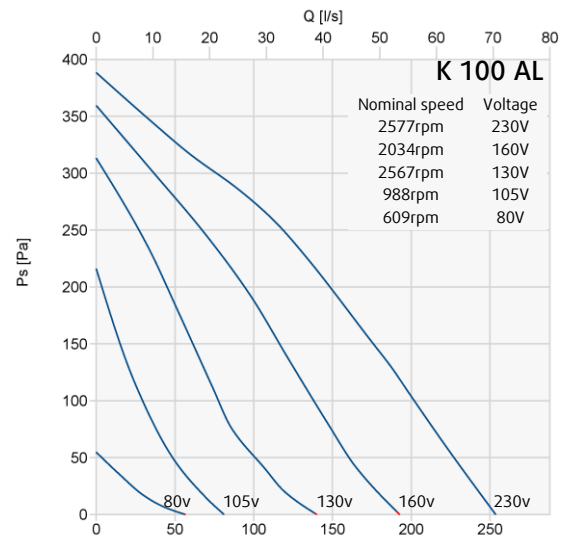
Measurement point: 230V, 95m³/h @ 109Pa

dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	93	73	66	62	54	47	35	26	66
Lw Outlet	82	79	68	69	61	59	57	51	70
Lw Surrounding	54	31	26	31	30	28	18	16	35



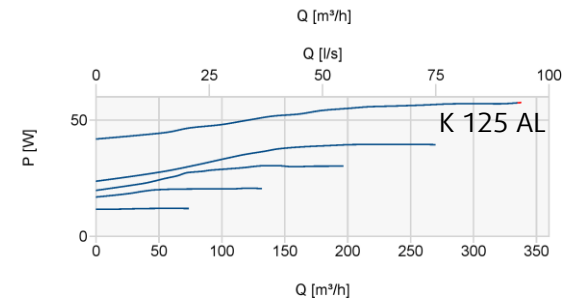
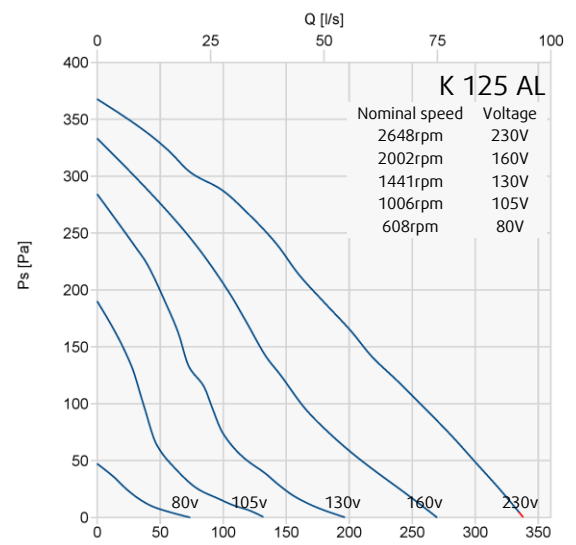
Measurement point: 230V, 133m³/h @ 99Pa

dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	79	70	65	61	52	47	36	26	62
Lw Outlet	84	72	63	57	50	46	37	26	62
Lw Surrounding	49	30	27	37	32	30	24	49	38



Measurement point: 230V, 111m³/h @ 262Pa

dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	96	81	72	70	63	56	50	40	73
Lw Outlet	100	83	70	68	63	57	50	40	73
Lw Surrounding	64	34	36	44	47	43	37	64	50



Measurement point: 230V, 141m³/h @ 243Pa

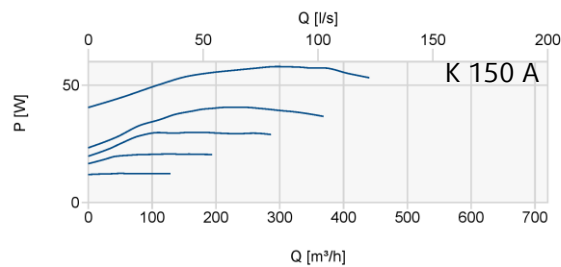
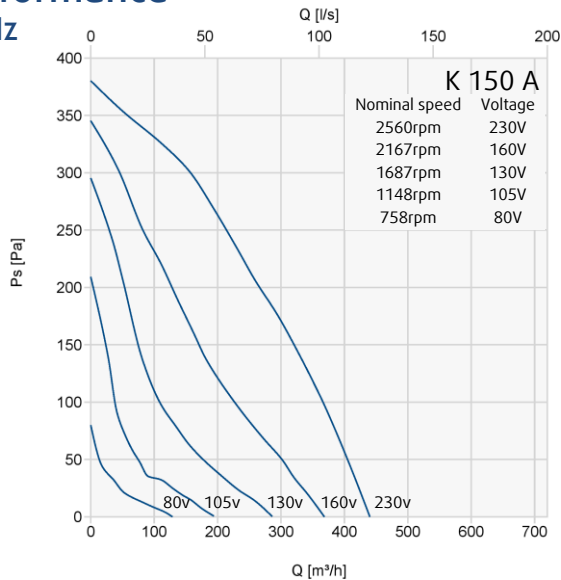
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	88	83	74	70	61	58	52	41	73
Lw Outlet	85	87	77	68	61	58	51	40	75
Lw Surrounding	57	42	37	49	44	43	36	57	50

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwI & LwIA and outlet LwO & LwOA sound power levels for installation type D ducted inlet, ducted outlet. LwA Surrounding are not licensed by AMCA International. Ratings include the effects of duct end correction.

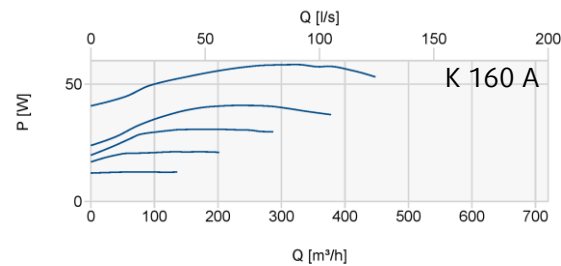
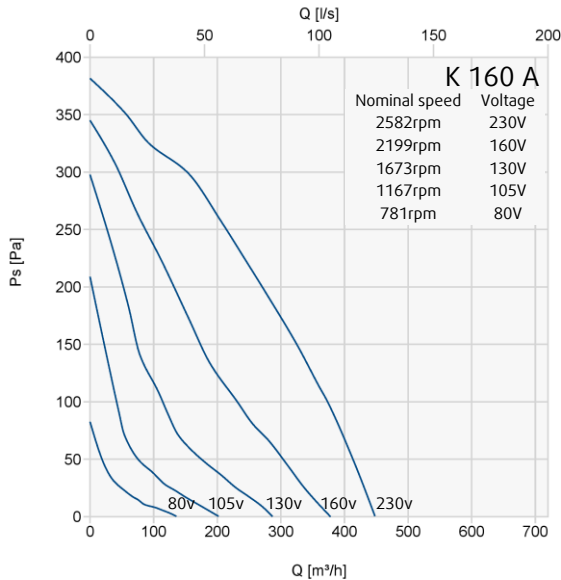
Performance certified is for installation type D-Ducted inlet. Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of accessories (accessories).

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

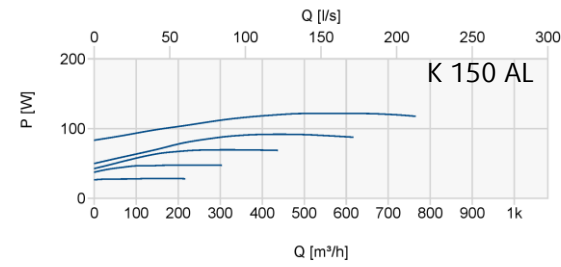
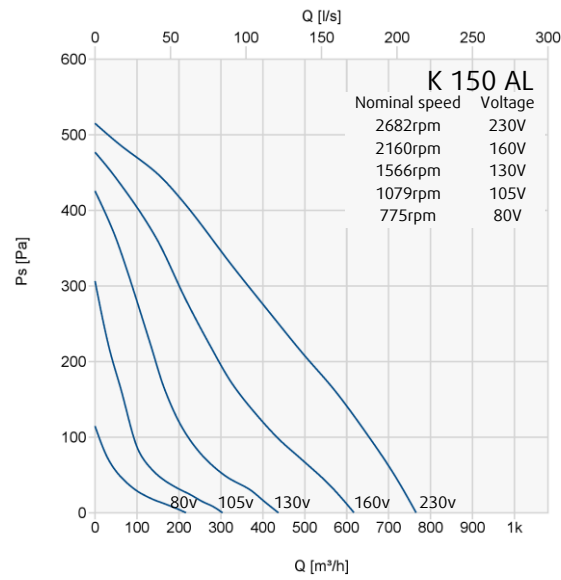
Performance
50 Hz



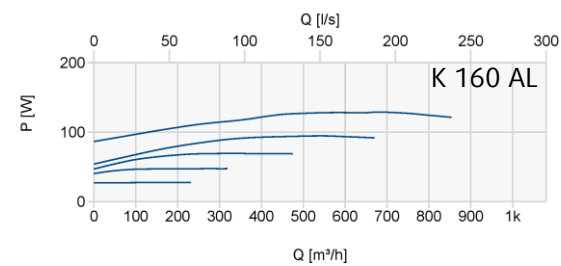
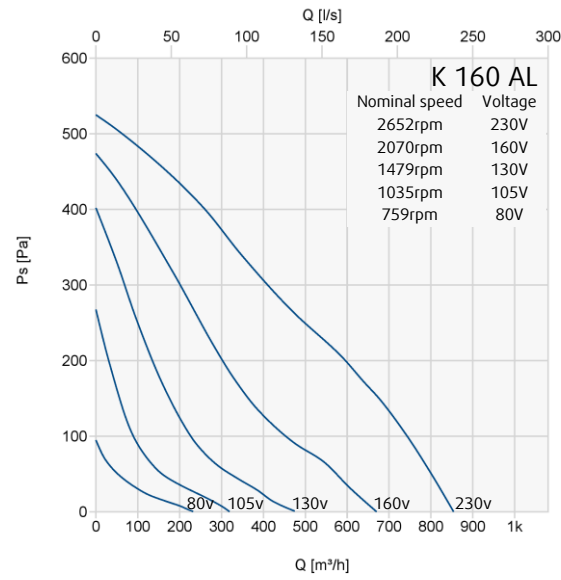
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	77	75	69	67	59	57	56	45	68
Lw Outlet	84	75	64	63	58	55	53	42	66
Lw Surrounding	48	34	38	47	38	41	42	30	48



dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	79	73	71	66	60	57	53	45	68
Lw Outlet	82	75	65	63	58	56	51	42	66
Lw Surrounding	48	36	43	45	38	42	36	28	47



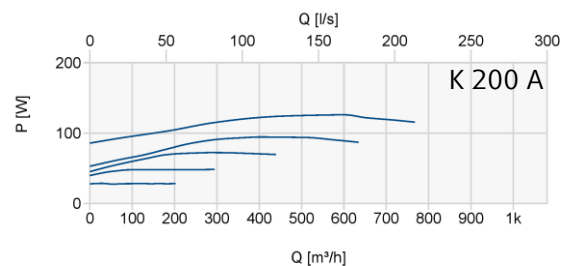
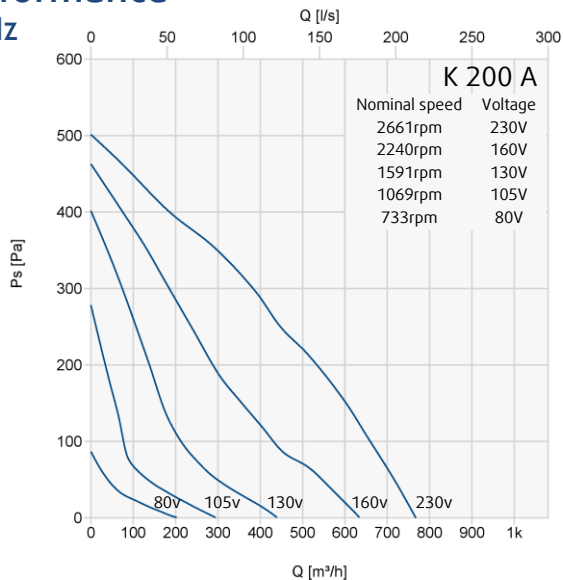
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	85	95	79	78	70	65	57	49	81
Lw Outlet	88	93	72	75	67	63	58	48	79
Lw Surrounding	55	38	44	50	40	42	42	31	50



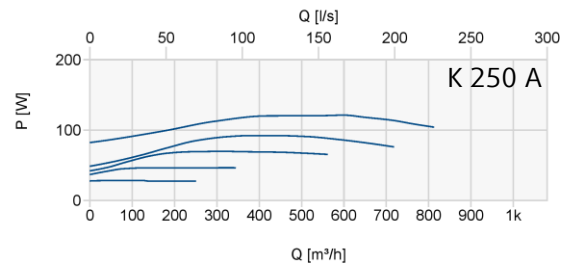
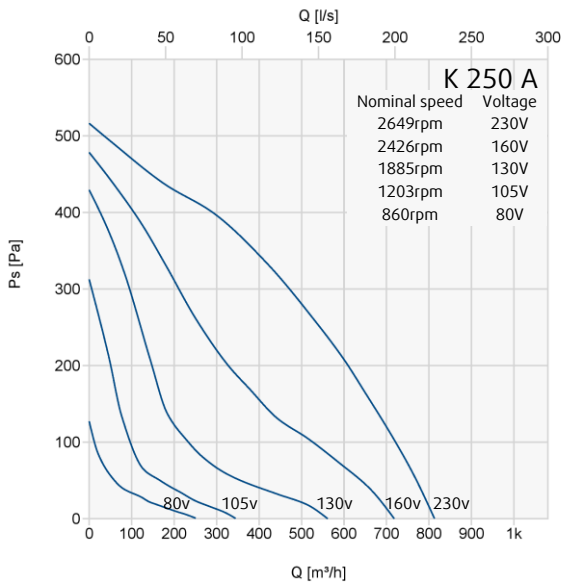
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	92	96	81	78	68	63	56	49	82
Lw Outlet	95	95	73	74	67	61	55	47	80
Lw Surrounding	55	59	49	54	50	48	42	29	55

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw & LwA and outlet Lw & LwA sound power levels for installation type D ducted inlet, ducted outlet. Lw Surrounding are not licensed by AMCA International. Ratings include the effects of duct end correction. Performance certified is for installation type D-Ducted inlet. Ducted inlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

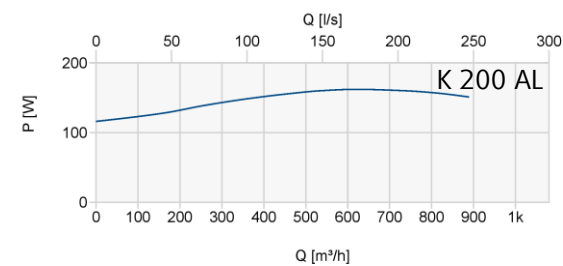
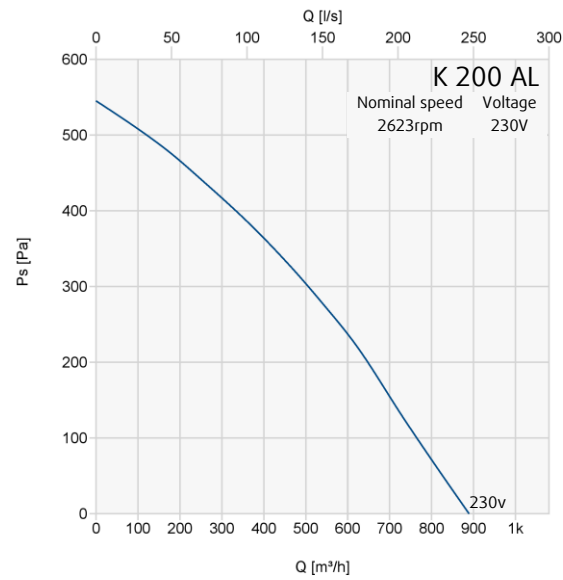
Performance
50 Hz



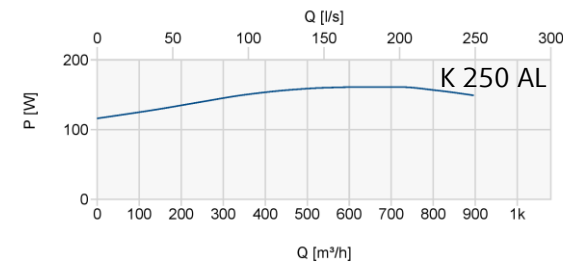
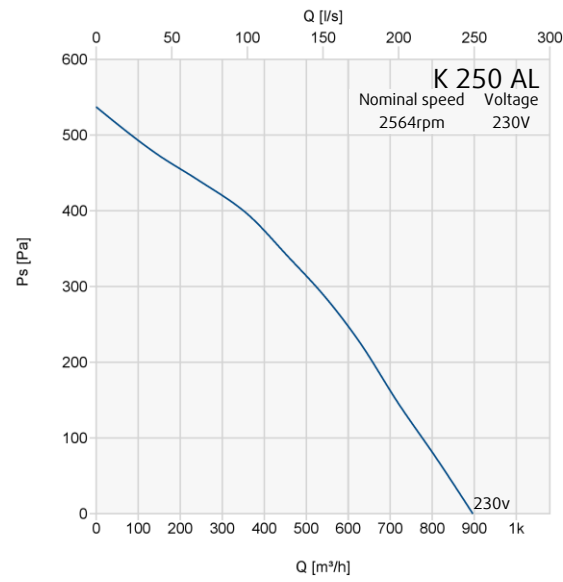
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	87	83	77	72	67	63	53	47	74
Lw Outlet	90	85	70	71	63	61	54	45	72
Lw Surrounding	54	46	50	48	48	43	37	29	51



dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	84	80	75	65	63	60	56	49	71
Lw Outlet	83	81	67	66	62	61	56	47	69
Lw Surrounding	50	38	50	49	51	50	41	32	55

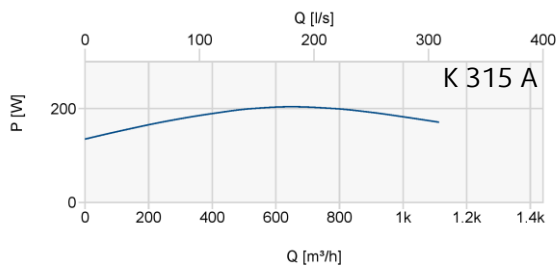
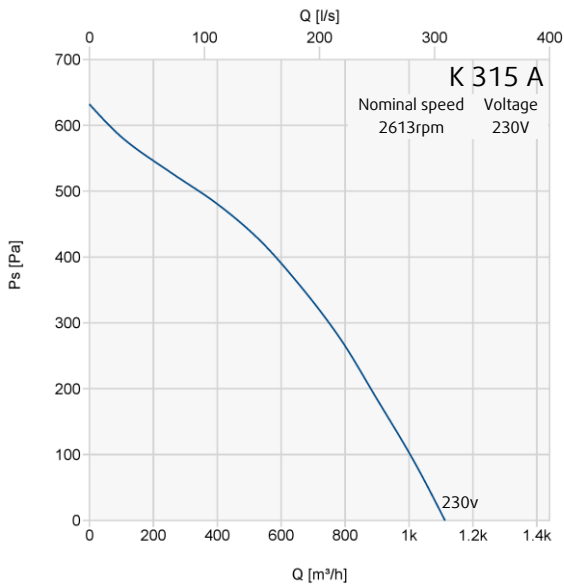


dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	80	84	75	74	69	66	58	51	75
Lw Outlet	82	83	71	68	67	64	59	49	73



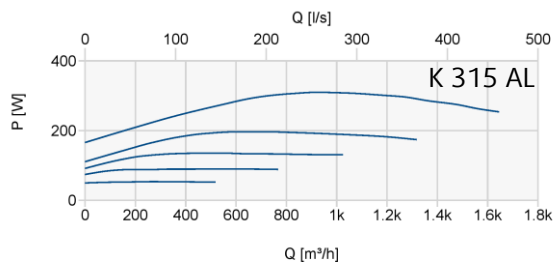
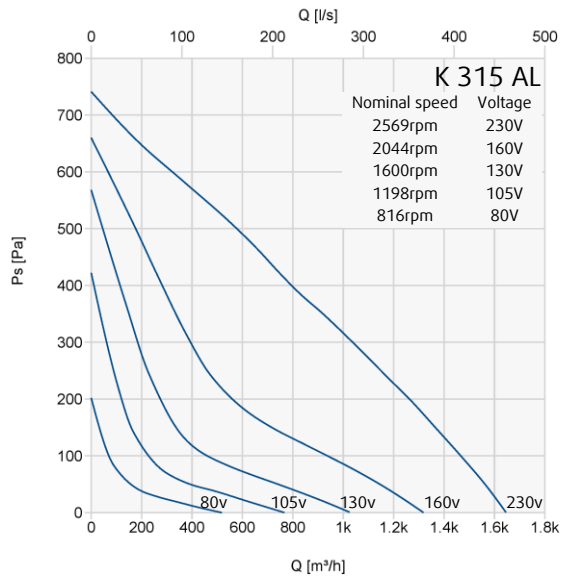
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	79	85	78	68	65	61	54	48	74
Lw Outlet	81	83	73	67	67	66	63	53	73

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA and outlet LwA and inlet LwA and outlet LwA sound power levels for installation type D ducted inlet, ducted outlet. LwA Surrounding are not licensed by AMCA International. Ratings include the effects of duct end correction. Performance certified is for installation type D-Ducted inlet. Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of accessories (accessories). The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.



Measurement point: 230V, 90m³/h @ 18dPa

dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	79	84	80	69	69	66	64	61	76
Lw Outlet	82	84	76	67	66	66	63	59	74



Measurement point: 230V, 65 m³/h @ 46dPa

dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	84	88	80	79	71	66	66	61	79
Lw Outlet	89	80	80	74	70	67	63	58	77
Lw Surrounding	62	60	53	54	47	48	46	36	56

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwI & LwO sound power levels for installation type D ducted inlet, ducted outlet. LwA Surrounding are not licensed by AMCA International. Ratings include the effects of duct end correction. Performance certified is for installation type D-Ducted inlet. Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories)

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Technical data

60 Hz

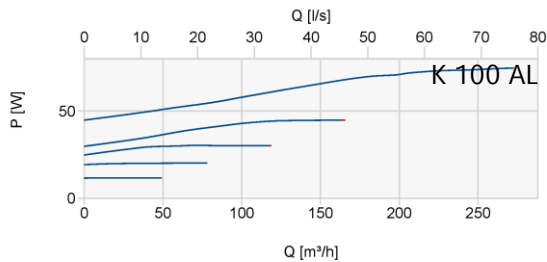
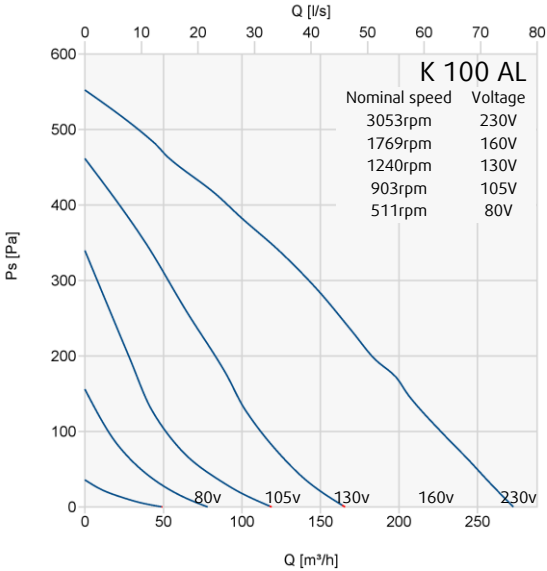
		K 100 AL	K 125 A	K 125 AL	K 150 A	K 150 AL	K 160 A
Article No.		508381	508382	508383	508384	508385	508556
Voltage	V	230	230	230	230	230	230
Frequency	Hz	60	60	60	60	60	60
Phase	-	1	1	1	1	1	1
Maximum motor input power	W	75	28	74	76	173	77
Current	A	0.331	0.119	0.325	0.33	0.758	0.333
Max. airflow	m ³ /h	273	271	358	501	833	512
Fan impeller speed	r.p.m.	2706	3095	2741	2698	2826	2726
Max. temperature of transported air	°C	55	55	55	55	55	55
Max. temperature of transported air when voltage controlled.	°C	55	55	55	55	55	55
Sound pressure level at 3 m (20m ³ Sabine)	dB(A)	47	35	44	44	53	43
Weight	kg	3	2.3	2.9	3.3	4.1	3.3
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	44	44	44	44	44	44
Capacitor	µF	2	1	2	2	4	2

		K 160 AL	K 200 A	K 250 A
Article No.		508557	508386	508387
Voltage	V	230	230	230
Frequency	Hz	60	60	60
Phase	-	1	1	1
Maximum motor input power	W	180	177	175
Current	A	0.785	0.769	0.763
Max. airflow	m ³ /h	915	839	926
Fan impeller speed	r.p.m.	2680	2780	2815
Max. temperature of transported air	°C	55	55	55
Max. temperature of transported air when voltage controlled.	°C	55	55	55
Sound pressure level at 3 m (20m ³ Sabine)	dB(A)	49	50	50
Weight	kg	4	4.1	3.9
Insulation class		F	F	F
Enclosure class, motor	IP	44	44	44
Capacitor	µF	4	4	4

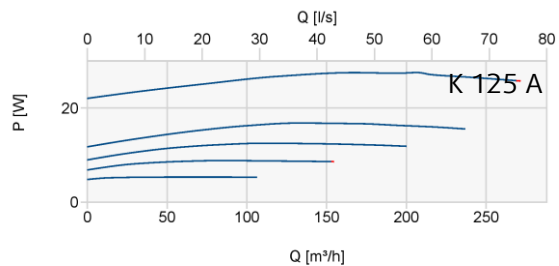
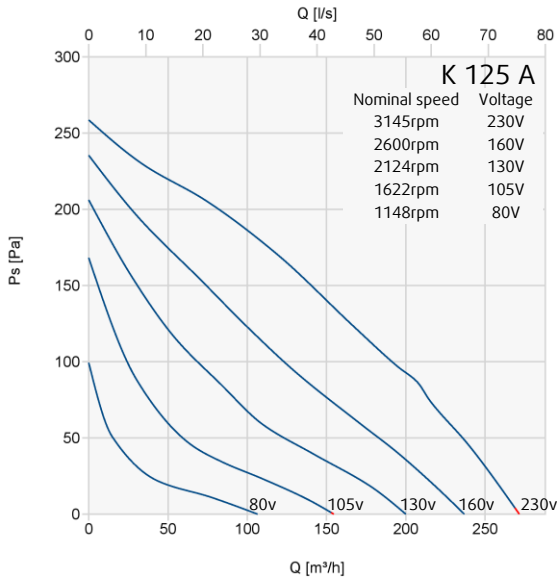
- Performance certified is for installation type D – Ducted inlet, Ducted outlet.
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- Performance ratings do not include the effects of appurtenances (accessories).
- Sound pressure level at 3m (20m³ Sabine) are not licensed by AMCA International.

Performance
60 Hz

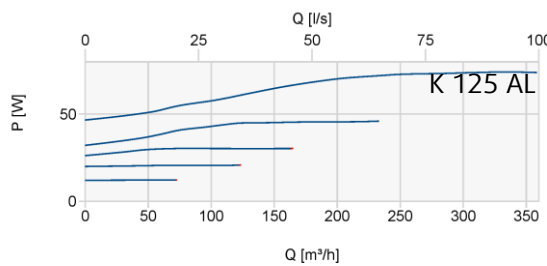
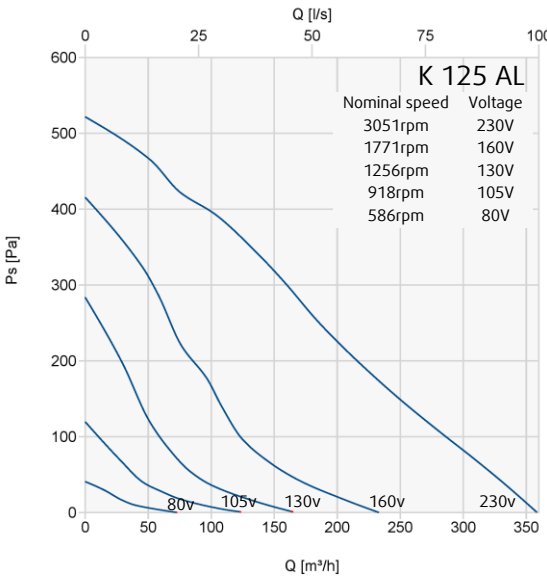
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA and outlet LwA and outlet LwA & LwA sound power levels for installation type D ducted inlet, ducted outlet. LwA Surrounding are not included by AMCA International. Ratings include the effects of duct end correction. Performance certified for installation type D-ducted inlet. Ducted inlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.



dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	86	84	75	73	66	59	54	44	74
Lw Outlet	93	87	73	72	67	60	54	45	75
Lw Surrounding	46	36	40	46	50	45	41	29	53



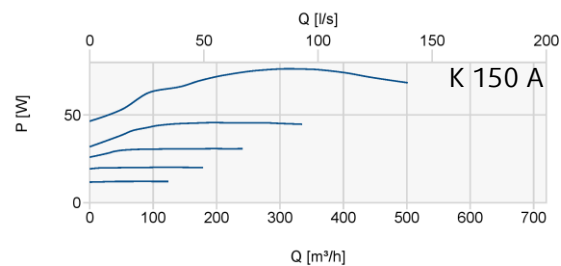
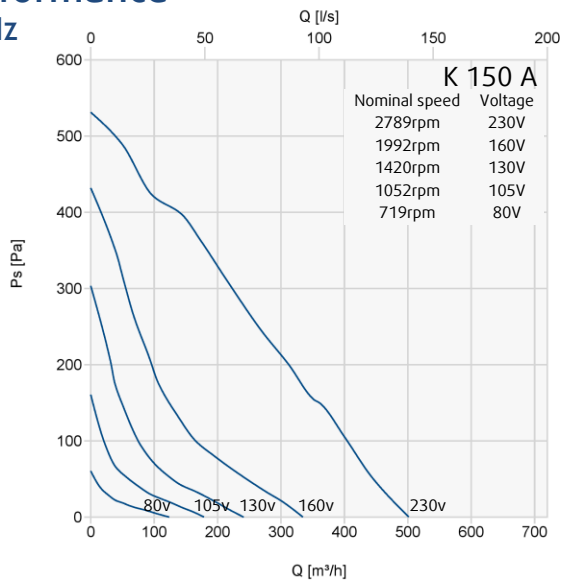
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	80	77	70	65	56	51	41	30	67
Lw Outlet	93	76	66	60	54	50	42	30	67
Lw Surrounding	50	37	32	41	36	34	29	20	42



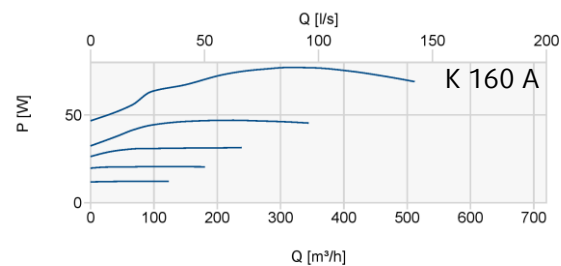
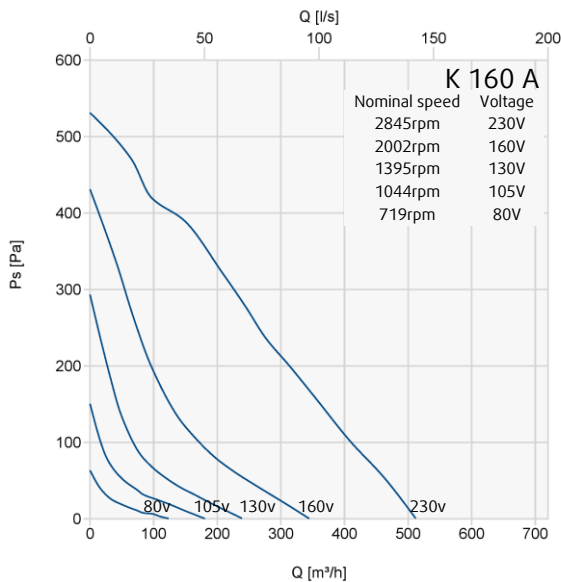
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	87	81	76	74	65	61	57	46	74
Lw Outlet	89	84	74	70	64	60	53	44	74
Lw Surrounding	50	34	41	50	43	45	40	50	50

Performance

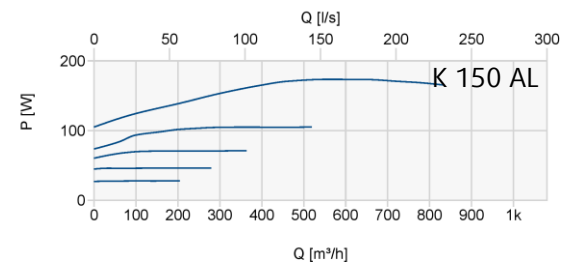
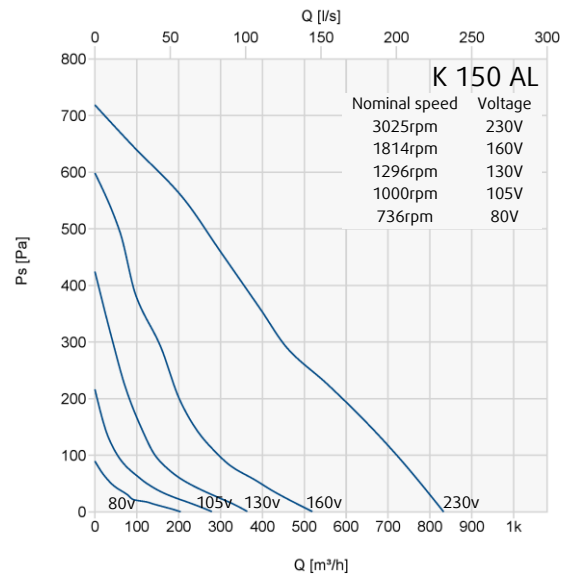
60 Hz



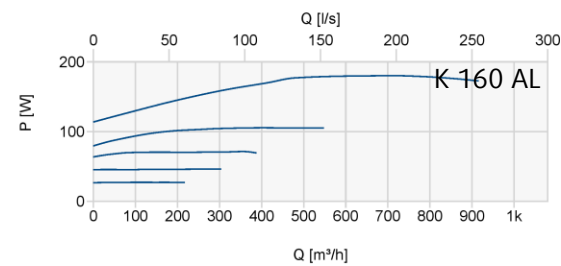
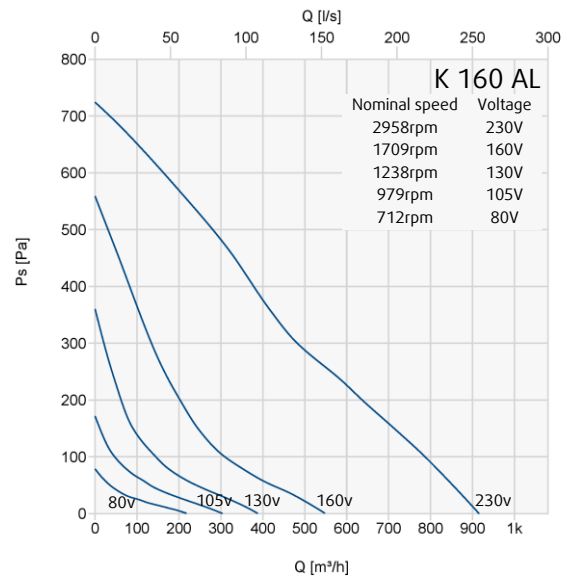
dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	91	78	74	69	61	59	57	47	71
Lw Outlet	94	79	67	66	60	58	55	45	70
Lw Surrounding	55	38	44	50	40	42	42	55	50



dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	91	78	74	68	63	60	54	47	91
Lw Outlet	100	81	67	66	61	59	54	44	72
Lw Surrounding	57	40	43	48	40	45	38	57	50



dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	88	97	83	80	72	67	60	54	83
Lw Outlet	92	97	75	77	69	66	61	52	82
Lw Surrounding	43	53	51	59	52	54	49	43	60

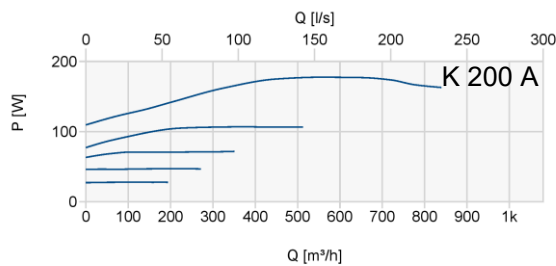
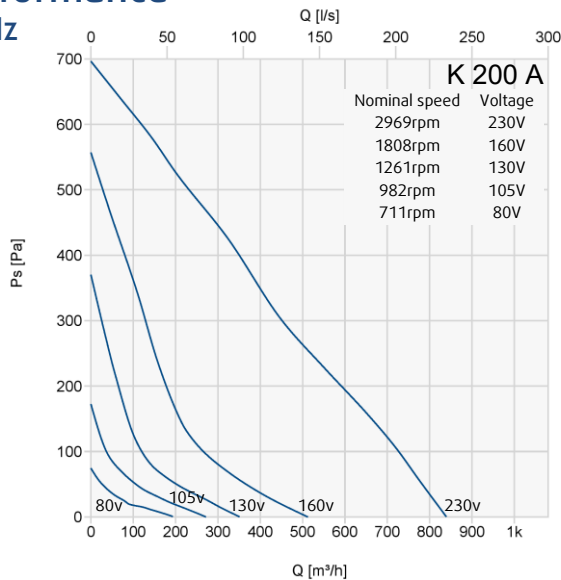


dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	96	89	85	78	70	64	57	52	80
Lw Outlet	97	88	76	75	68	63	58	51	77
Lw Surrounding	58	51	53	54	49	50	43	58	56

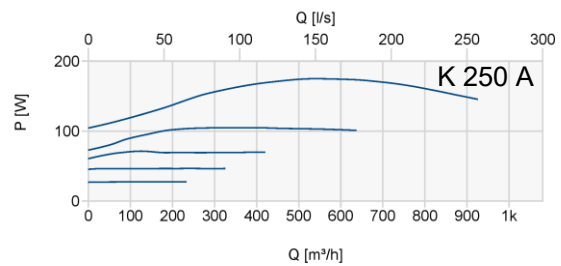
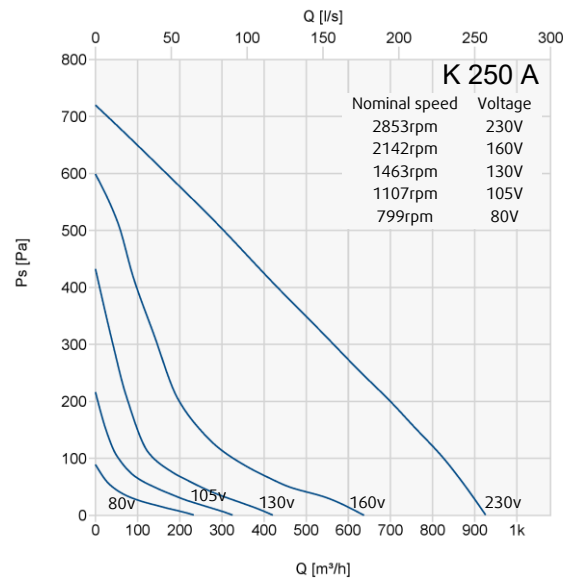
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwI & LwIA and outlet LwO & LwOA sound power levels for installation type D ducted inlet, ducted outlet. LwA Surrounding are not licensed by AMCA International. Ratings include the effects of duct end correction. Performance certified is for installation type D-Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of accessories (accessories). The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Performance

60 Hz



dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	98	90	84	78	72	68	58	53	81
Lw Outlet	99	91	74	76	69	66	60	52	78
Lw Surrounding	67	54	54	54	52	49	42	67	57

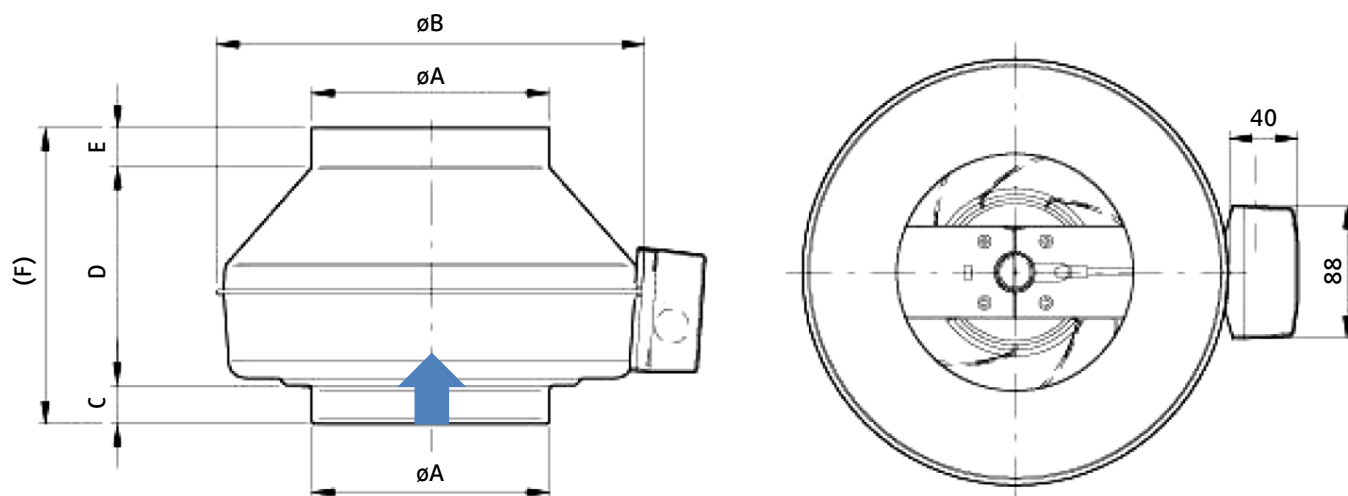


dB	Frequency bands (Hz)								Tot (LwA)
	63	125	250	500	1K	2K	4K	8K	
Lw Inlet	97	83	77	67	66	63	57	52	74
Lw Outlet	93	84	70	67	65	64	58	50	72
Lw Surrounding	67	44	47	50	53	52	43	67	57

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA and outlet LwA and sound power levels for installation type D ducted inlet, ducted outlet, LwA Surrounding are not licensed by AMCA International. Ratings include the effects of duct end correction. Performance certified is for installation type D-Ducted inlet, Ducted outlet, Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories)

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301.

Dimensions



IN METRIC

K	A $\varnothing$	B $\varnothing$	C	D	E	(F)
100 A	99	218	26	166	26	218
100 AL	99	246	26	161	26	213
125 A	124	218	27	142	27	196
125 AL	124	246	26	151	26	203
150 A	149	286	25	152	25	202
150 AL	149	336	29	171	26	226
160 A	159	286	25	147	26	198
160 AL	159	336	29	166	26	221
200 A	199	336	30	148	27	205
200 AL	199	336	30	174	27	231
250 A	249	336	30.5	119.5	27	177
250 AL	249	336	30.5	144.5	27	202
315 A	314	408	32.5	160.5	27	220
315 AL	314	408	37.5	160.5	27	22.5

NO LIABILITY FOR ERRORS – SUBJECT TO TECHNICAL MODIFICATIONS

Electrical accessories



VBC 315-3 Water heating battery

Art no: 9844

Water-heating battery for heating air in ventilation systems with circular ducts. Aluzinc-coated casing, heat transmission element with copper tubes and aluminium fins. Removable cover for cleaning the unit.

The water-heating battery can be installed in a horizontal or a vertical duct with optional direction of airflow.

Max operating temperature 150 °C

Max operating pressure 1,6 MPa (16Bar)

3-rows battery



RETP 6 Temp/Pressure regulator

Art no: 32293

Pressure/Temperature regulation, single phase

Thyristor-type stepless pressure or temperature regulation (P-regulation) for single-phase motors with variable voltage control. Used, for example, for room-temperature regulation where the heating is conducted by air. An integral motor protection device is included which switch off the supply voltage to the fan if the thermal contact in the fan motor is activated.



REV-3POL/03 ON/OFF

Art no: 33978

REV- Isolator mounted on a bracket, leads connected I max 20 A.

- 3POL/03

3-pole (closing/auxiliary contact 1) lead 3x1,5 mm² for 1 phase motor. TK not lead out

When operating with Explosion proof fans the REV has to be placed outside the EX zone!



RE 1,5 Speed control

Art no: 5000

Manual five-step transformer

A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. The transformer has 230V terminals for operating dampers, electric heater batteries or other external equipment. When the transformer knob is in position 0, the outlet has no current. The indicator lamp on the front shows that the transformer is in operation. The fuse may be reset from outside. The RE has a self extinguishing thermoplastic casing.

NOTE! Fans with external contact leads (TK) must always be connected to a motor protection device.



REU 1.5 Speed control

Art no: 5004

Manual five-step transformer

A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. There are two control switches: one for higher fan speeds and one for lower fan speeds. Switching between the high and low settings is done by an external change-over contact, which could be a thermostat or a timer. The indicator lamp on the front shows when the transformer is in operation. The fuse may be reset from outside. The REU has a self-extinguishing thermoplastic casing. Supply voltage: 230V 50/60Hz.

NOTE! Fans with external thermal contact leads (TK) must always be connected to a motor protection device.



DTV500-OEM including connection kit

Art no: 5044

Differential pressure switch for air and non-corrosive gasses. Relay contact data 250 V AC 5 A, change-over.

Electrical accessories



HR1 Room Humidistat IP21

Art no: 5150

Room humidistat

A humidistat for controlling exhaust air fans in response to the relative humidity. The humidistat uses human hair as the humidity sensor medium. The set-point can be anywhere between 10 and 95% RH. Base plate in black plastic and cover in white plastic.

The HR1 is supplied with a sliding cover over the set-point dial, which can be locked.

The humidistat should be mounted in a location with good air circulation and constant temperature and humidity. It should not be fitted on external walls, walls in direct sunlight, corners etc.

The humidistat's mounting holes make it suitable for fixing on to a terminal box with screws at 60 mm centers.

The humidistat should be precision-calibrated after it has been mounted, and should be recalibrated regularly. Dust and other matter should be removed with a soft brush at regular intervals.

Contacts 1 and 3 close when the air humidity exceeds the preset value.



RT 0-30 Room Thermostat

Art no: 5151

The RT 0-30 is an electronic room thermostat for indoor wall mounting, with a change-over relay for regulating either heating or cooling. It has an integral sensor, but an external sensor such as the TG-K330 or TG-R630 can also be connected to the thermostat. The RT 0-30 can also be used with other external temperature sensors to achieve different temperature range.



T 120 Timer

Art no: 5165

Timer with 120-minute operating time. Supplied with flange for fitting into equipment housing. Casing for surface mounting is available as an extra. A switch for closing and breaking circuits. A link can be used to produce a change-over function. The timer makes a quiet ticking sound when connected.

This timer is suitable for controlling the REU and RTRDU five step transformers.



REE 2 Speed control

Art no: 5316

Thyristor speed controller

- REE 1 or REE 2 surface- or flush mounting
- REE 4 only surface mounting

For the manual control of speed and air flow of electrical fans, AC-induction motors of universal motor- and permanent-capacitor type. The jetproof IP 54 enclosure is achieved with the included surface mounting case. (Flush mounting without the surface mounting case, gives a splash proof IP 44 enclosure also suitable for highly demanding environments as bathrooms etc.) Several motors can be connected in parallel as long as the total current does not exceed current range. Starting currents must be considered when choosing speed controller type. Fans to be used with this controller require a built-in overheating protection and should be designed for thyristor speed control.



REPT 6 Digital regulator

Art no: 5698

Digital voltage regulation, single phase

Thyristor-type digital regulation for single-phase motors with variable voltage control. Used, for example, for the pressure regulation of fans in systems where there is a risk of increased draught, and compensation is required for outdoor temperature conditions and other pressure conditions. An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated.

Radio interference suppression in accordance with EN 50081-1 and EN 50082-2.

Electrical accessories



CO2RT-R-D Transmitter

Art no: 6993

Measuring system CO2-sensor

The CO₂-concentration is measured by means of infrared light, a technique that measures the absorption in gases. It has a reference measuring system that compensates values in relation to changes in light intensity. The method gives several advantages:

- Very high accuracy
- Exact identification of the detected gas
- Low risk for contamination
- Short response time
- High long term stability
- Long calibration interval (>5 years)

Display

The display models have an LCD-display showing actual values in an alternated series.

Applications

Measuring the CO₂-level gives a direct indication about the indoor air quality. With this basic information ventilation can be controlled with high precision and air quality improved. At the same time supply air will only be increased when it is necessary thus cutting energy costs.



Presence detector/IR24-P

Art no: 6995

Presence detector

A detector that gives a signal when someone is present in the room under supervision. The detector has a pulse detecting function that minimizes the risk for false alarm. Settable output on/off delay. Intended for wall or ceiling mounting.

IR24-P is a presence detector designed for automatic ventilation control of HVAC systems.



MicroREX D21 Plus Time Switch

Art no: 17822

The MicroREX D21 is a digital 7 day time switch with a circular segmented display for general rail mounting use or on walls in a box, included. Up to 8 program pictures can be set. A program picture incorporates both ON and OFF time. If no button is pressed for 60 seconds during programming the time switch goes back to the start position.

The copying function enables program to be copied to other days. Minimum switching time is 1 minute. The switching times are protected but can be overlaid by other programs. Programs are displayed with a minimum segment size of 30 minutes. The time and the week days are presented digitally. The summer-/winter changeover can be programmed for hand or automatic operation. Plastic housing for easy wall mounting, is available. Spring reserve 6 years.

Ventilation accessories



FK 315 Fast clamp

Art no: 1613

Fast clamps

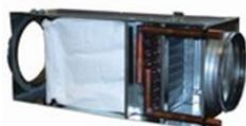
Mounting clips which facilitate the installation and removal of fans for service and cleaning. Made from galvanised sheet steel and fitted with an 8 mm neoprene lining which suppresses vibrations and ensures a tight fit. The mounting clips are clamped together by two screws which allow for small differences in dimension.



VKK-315 Back draft damper

Art no: 1628

Back draft damper for installation in horizontal ducts. The profiled vanes produce a strong upward force which reduces the air resistance. This means that the vanes opens fully at low air velocities as well. The box is manufactured from galvanised sheet steel. The damper inside the box is manufactured in weather-resistant and shock-proof nylon material. The robust construction ensures that the vanes will not become deformed or loose. Air velocity should not exceed 12 m/s.



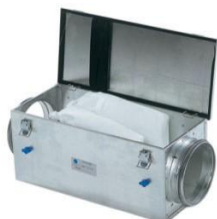
VBF 315 Water heating battery

Art no: 1734

Water-heating battery with integral EU5 bag filter for heating air in ventilation systems with circular ducts. Casing from galvanised sheet steel, with copper tubes and aluminium fins. Inspection cover which facilitates cleaning and replacing the filter.

The water-heating battery must be installed in a horizontal duct. The bag filter must always be fitted vertically. The VBF is fitted with connections for connecting to a filter monitor.

The Systemair fan selection programme includes a special selection programme for water-heating batteries. The recommended final pressure drop is 200 Pa.



FFR 315 Filter cassette

Art no: 1779

Filter cassette for circular ducts

The FFR filter cassette is designed for bag filters of the F3, F5 or F7 standard filter types. The cassette is manufactured from galvanised sheet steel with rubber-sealed circular connections and locks with toggle fasteners.

The cassette is fitted with connections for connecting to a pressure sensor. The filters for FFR are BFR bag filters. Available in the F3, F5 or F7 filter classes and are ordered separately and supplied individually. The recommended final pressure drop is 170 Pa for the F3 filter, 200 Pa for the F5 filter and 250 Pa for the F7 filter.



FGR 315 Filter cassette G3

Art no: 1818

Filter cassette for circular ducts

The FGR filter cassette is fitted with a standard type F3 panel filter. The cassette housing is manufactured from galvanised sheet steel with rubber-sealed circular connections, toggle locks and disposable filters. Replacement PFR filters are sold in packs of five.



CWK 315-3-2,5 Duct cooler, circ

Art no: 30025

CWK water-cooling battery for circular ducts

Casing of galvanised sheet steel with copper tubes and aluminium fins. Inspection covers for easy cleaning and maintenance.

Connection sleeves with rubber seal.

Max operating temperature 150 °C

Max operating pressure 1,6 MPa (16Bar)

Ventilation accessories



LDC 315-900 Silencer

Art no: 5197

Silencer

Easily-fitted silencer for circular ducts, fitted with a connection that complies with the spiral duct standard. The LD effectively reduces noise in the duct. Two silencers can be used together in installations where noise reduction is a particularly strong requirement. This is very effective. For the most effective noise reduction, the silencer should be fitted immediately behind a fan or bend. The silencer should be used together with an insulated fan where there is a requirement for noise reduction both in the duct and in the surroundings as a whole. Insulation thickness 50 mm.



CB 315-6,0 400V/2 Duct heater

Art no: 5374

Electrical duct heater

Duct heater with spigot connection for standard spiral ducts. Manufactured from Aluzinc-coated sheet steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CB heater has rubber seals on the connecting spigots. Suitable for control by room thermostat or Pulser. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50°C. The CB can be installed in a horizontal or vertical duct. In a horizontal duct, the connection box should be installed facing upwards, or rotated 90° to one side. Installation with the connection box facing downwards is not allowed.



CB 315-9,0 400V/3 Duct heater

Art no: 5375

Electrical duct heater

Duct heater with spigot connection for standard spiral ducts. Manufactured from Aluzinc-coated sheet steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CB heater has rubber seals on the connecting spigots. Suitable for control by room thermostat or Pulser. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50°C. The CB can be installed in a horizontal or vertical duct. In a horizontal duct, the connection box should be installed facing upwards, or rotated 90° to one side. Installation with the connection box facing downwards is not allowed.



CB 315-3,0 230V/1 Duct heater

Art no: 5386

Electrical duct heater

Duct heater with spigot connection for standard spiral ducts. Manufactured from Aluzinc-coated sheet steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CB heater has rubber seals on the connecting spigots. Suitable for control by room thermostat or Pulser. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50°C. The CB can be installed in a horizontal or vertical duct. In a horizontal duct, the connection box should be installed facing upwards, or rotated 90° to one side. Installation with the connection box facing downwards is not allowed.



CB 315-12,0 400V/3 Duct heater

Art no: 5387

Electrical duct heater

Duct heater with spigot connection for standard spiral ducts. Manufactured from Aluzinc-coated sheet steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CB heater has rubber seals on the connecting spigots. Suitable for control by room thermostat or Pulser. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50°C. The CB can be installed in a horizontal or vertical duct. In a horizontal duct, the connection box should be installed facing upwards, or rotated 90° to one side. Installation with the connection box facing downwards is not allowed.



VBC 315-2 Water heating batt

Art no: 5461

Water-heating battery for heating air in ventilation systems with circular ducts. Aluzinc-coated casing, heat transmission element with copper tubes and aluminium fins. Removable cover for cleaning the unit.

The water-heating battery can be installed in a horizontal or a vertical duct with optional direction of airflow.

Max operating temperature 150 °C
Max operating pressure 1,6 MPa (16Bar)
2-rows battery

Ventilation accessories



CBM 315-9,0 400V/3 Duct heater

Art no: 5485

Duct heater with integral control equipment

Duct heater with spigot connection for standard spiral circular ducts. Manufactured from Aluzinc-coated sheet steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CBM have rubber seals on the connecting spigots. The temperature is set on the cover of the duct heater. The unit is controlled by an integral electronic temperature regulator, using so-called time-proportional Pulse/Pause technology. This provides extremely precise temperature control. As a thyristor is used for adjusting the temperature, the unit has no moving parts. This means that it is silent and not susceptible to wear and tear. Terminals for interlocking the heater, via a pressure- and airflow guard are available in the terminal box. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50°C.

All CBMs are delivered with duct sensor TG-K330 (0-30°C) as standard.

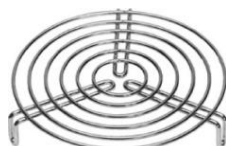


RSK-315 Back draft damper

Art no: 5604

Back draft damper

Back draft damper for circular ducts, manufactured from galvanised sheet steel. The two blades are spring-loaded, which means that the damper can also be mounted vertically.



SG 315 Protection guard

Art no: 5611

Protection grille for duct fans, mounted with three screws.



VK-30 Louvre shutter

Art no: 5641

Louvre shutter

Louvre shutters for vertical mounting on a wall. The profiled vanes produce a strong upward force which reduces the air resistance. This means that the vanes opens fully at low air velocities as well.

All the parts are manufactured in weather-resistant and shockproof nylon material (PVC containing special synthetic). The robust construction ensures that the vanes will not become deformed or loose.

Above size 45, the vanes are fitted with a cast counterweight. Air velocity should not exceed 12 m/s. Maximum allowed temperature is 60 °C. The louvre shutters are easy to install. Wall plugs and screws are included above size 15.



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K A JULY 2025