

Circular duct fans

K/KV 250-315



K 250-315



KV 250-315

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

The K series is designed for installation in ducts. The KV series is designed to be used as wall mounted duct connected extract fans. All the K and KV-fans have minimum 25 mm long spigot connections.

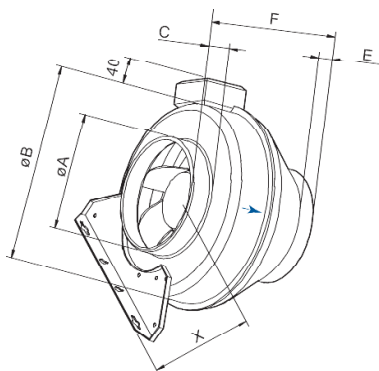
To simplify the installation the K-fan has a preassembled fixing bracket included as standard. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans have backward-curved blades and external rotor motors.

K and KV fans can be speed-controlled via a stepless thyristor or a 5-step transformer. To protect the motor from overheating the K-fan has integral thermal contacts with electrical reset, KV with automatic 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 and the IP55 rated terminal box with a IP68 rated M20 cable gland.

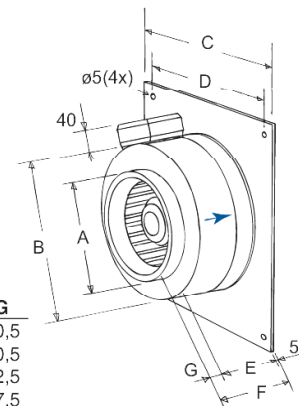
K/KV		250 M	250 L	315 M	315 L
Voltage/Frequency	V/50 Hz	230	230	230	230
Phase	~	1	1	1	1
Power	W	103	157	202	318
Current	A	0,45	0,70	0,89	1,39
Maximum air flow	m ³ /s (m ³ /h)	0,22 (778)	0,27 (961)	0,35 (1249)	0,48 (1728)
R.p.m.	min ⁻¹	2579	2640	2580	2318
Max. temp. of transported air	°C	70	70	63	57
" when speed-controlled	°C	70	70	63	52
Sound pressure level at 3 m *	dB(A)	49	49	47	50
Weight	kg	4	5	7	9
Insulation class, motor		B	F	F	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44
Capacitor	µF	3	4	5	7
Motor protection		Integral	Integral	Integral	Integral
Speed control, five-step	Transformer	RE 1,5	RE 1,5	RE 1,5	RE 1,5
Speed control, five-step high/low	Transformer	REU 1,5	REU 1,5	REU 1,5	REU 1,5
Speed control, stepless	Thyristor	REE 1	REE 1	REE 2	REE 2
Wiring diagram p. 11-17		2	2	2	2

* According to 20 m² Sabine

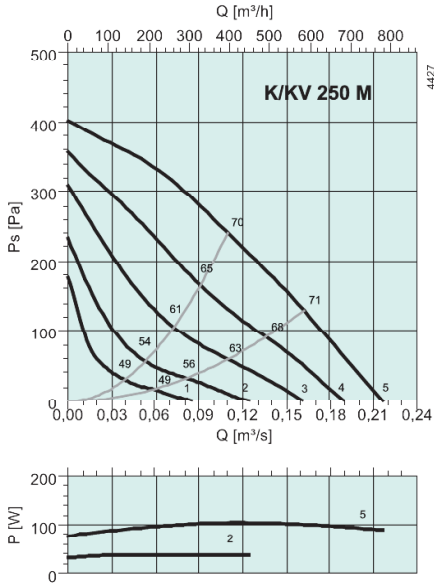


	øA	øB	C	E	F	X
K 250 M	250	336	30	27	177	184
K 250 L	250	336	30	27	202	184
K 315 M	315	408	32	27	220	222
K 315 L	315	408	38	27	225	222

	A	B	C	D	E	F	G
KV 250 M	249	336	425	394	135	170,5	30,5
KV 250 L	249	336	425	394	159	194,5	30,5
KV 315 M	314	408	489	458	145	182,5	32,5
KV 315 L	314	408	489	458	145	187,5	37,5



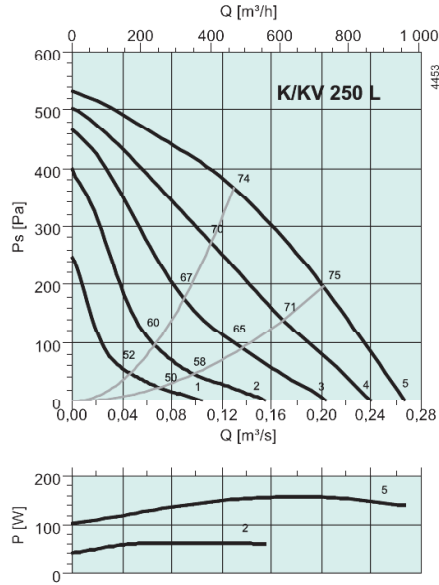
Circular duct fans



K/KV 250 M

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	70	45	59	61	65	62	60	62	53	
L_{wA} Surrounding	dB(A)	56	18	31	31	48	44	51	52	39	
With LDC 250-900											
L_{wA} Duct	dB(A)	59	42	55	53	45	36	37	52	45	

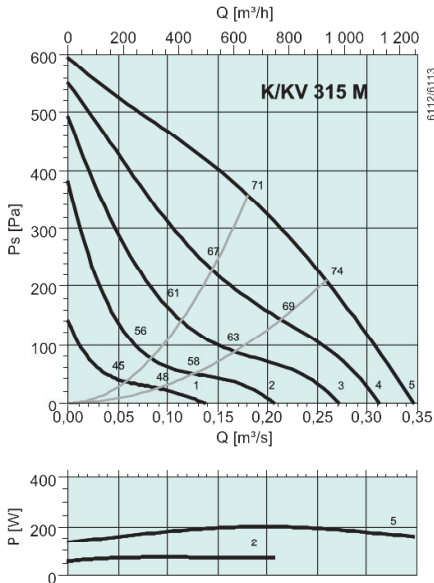
Measuring point: $q_v = 0,11 \text{ m}^3/\text{s}$, $P_s = 241 \text{ Pa}$



K/KV 250 L

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	74	59	66	67	68	67	62	55	46	
L_{wA} Surrounding	dB(A)	56	34	33	45	52	47	50	46	33	
With LDC 250-900											
L_{wA} Duct	dB(A)	65	56	62	59	48	41	39	45	38	

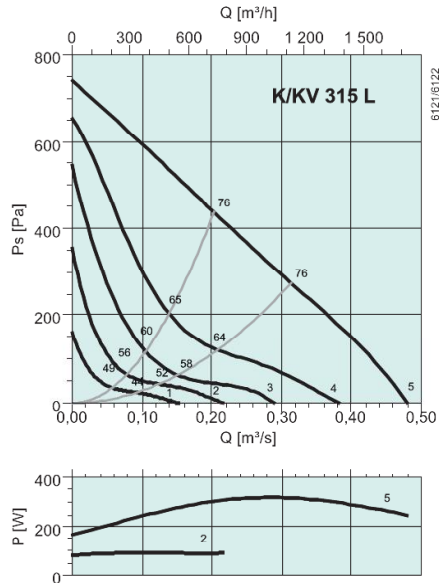
Measuring point: $q_v = 0,13 \text{ m}^3/\text{s}$, $P_s = 366 \text{ Pa}$



K/KV 315 M

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	71	37	52	61	67	66	62	58	55	
L_{wA} Surrounding	dB(A)	54	22	28	39	48	45	47	43	50	
With LDC 315-900											
L_{wA} Duct	dB(A)	59	36	49	54	51	44	50	52	48	

Measuring point: $q_v = 0,18 \text{ m}^3/\text{s}$, $P_s = 357 \text{ Pa}$



K/KV 315 L

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	76	55	67	70	71	68	66	63	58	
L_{wA} Surrounding	dB(A)	57	24	37	45	52	49	50	46	46	
With LDC 315-900											
L_{wA} Duct	dB(A)	68	54	64	63	55	46	54	57	51	

Measuring point: $q_v = 0,20 \text{ m}^3/\text{s}$, $P_s = 438 \text{ Pa}$