

Circular duct fans

K/KV 100-125



- 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.

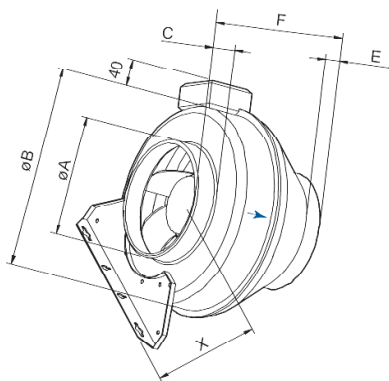
To simplify the installation the K-fan has a preassembled fixing bracket included as standard. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans have backward-curved blades and external rotor motors.

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/KV 100/125 M is impedance protected. K 100/125 XL has integral thermal contacts with electrical reset, KV 100/125 XL 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.

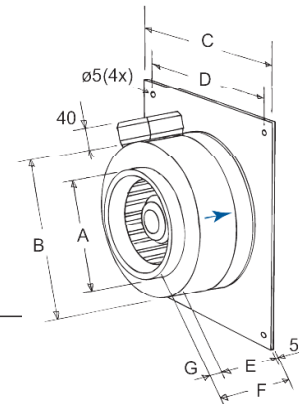
K/KV		100 M	100 XL	125 M	125 XL
Voltage/Frequency	V/50 Hz	230	230	230	230
Phase	~	1	1	1	1
Power	W	30	59	29	62
Current	A	0,17	0,25	0,17	0,27
Maximum air flow	m ³ /s (m ³ /h)	0,051 (184)	0,074 (266)	0,056 (203)	0,098 (352)
R.p.m	min ⁻¹	2443	2425	2483	2390
Max temp. of transported air	°C	70	70	70	70
" when speed-controlled	°C	70	70	70	70
Sound pressure level at 3 m *	dB(A)	38	48	34	50
Weight	kg	2	4,5	2	4,5
Insulation class, motor		B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44
Capacitor	µF	-	2	-	2
Motor protection		Impedance	Integral	Impedance	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 1	REE 1
Wiring diagram p. 11-17		1	2	1	2

* According to 20 m² Sabine

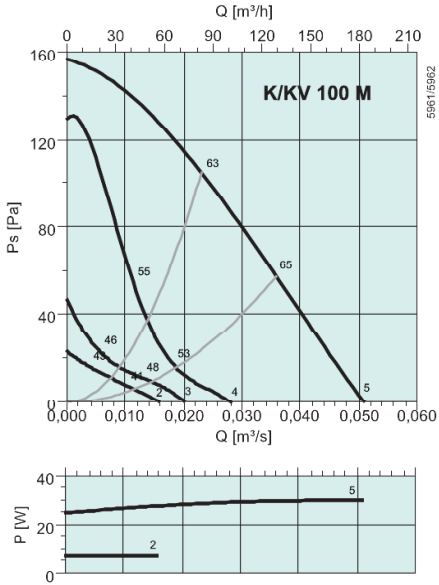


	øA	øB	C	E	F	X
K 100 M	100	218	26	26	218	112
K 100 XL	100	246	26	26	213	124
K 125 M	125	218	27	27	196	112
K 125 XL	125	246	26	26	203	124

	A	B	C	D	E	F	G
KV 100 M	99	218	284	254	120	174	26
KV 100 XL	99	246	334	304	125	156	26
KV 125 M	124	218	284	254	115	163	27
KV 125XL	124	246	334	304	120	158	26



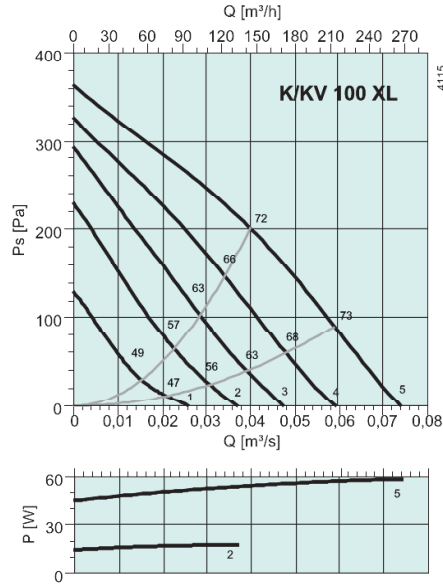
Circular duct fans



K/KV 100 M

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	63	50	59	56	58	50	47	40	28	
L_{wA} Surrounding	dB(A)	45	21	14	23	36	41	42	29	17	
With LDC 100-600											
L_{wA} Duct	dB(A)	57	46	56	45	34	14	0	6	11	

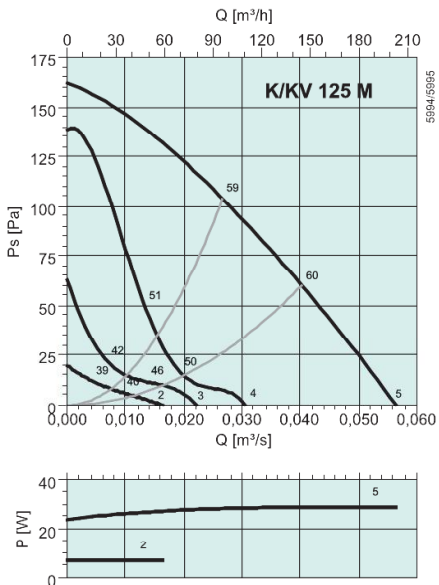
Measuring point: $q_v = 0,023 \text{ m}^3/\text{s}$, $P_s = 105 \text{ Pa}$



K/KV 100 XL

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	72	49	65	68	66	62	55	52	40	
L_{wA} Surrounding	dB(A)	55	28	28	47	51	48	46	44	30	
With LDC 100-600											
L_{wA} Duct	dB(A)	63	45	62	57	42	26	6	18	23	

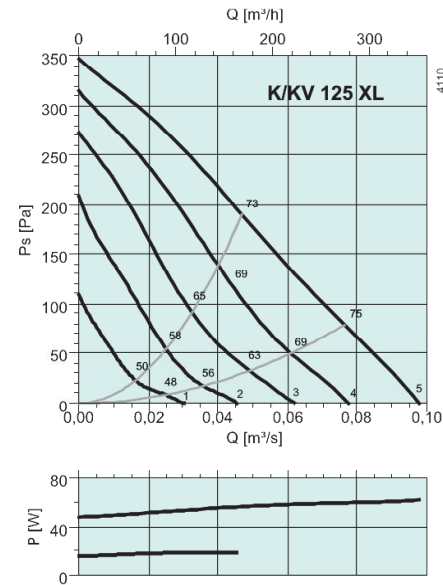
Measuring point: $q_v = 0,04 \text{ m}^3/\text{s}$, $P_s = 201 \text{ Pa}$



K/KV 125 M

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	59	33	51	54	55	48	45	36	29	
L_{wA} Surrounding	dB(A)	41	12	9	24	39	32	33	25	18	
With LDC 125-600											
L_{wA} Duct	dB(A)	64	46	62	59	43	32	15	30	26	

Measuring point: $q_v = 0,027 \text{ m}^3/\text{s}$, $P_s = 104 \text{ Pa}$



K/KV 125 XL

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L_{wA} Duct	dB(A)	73	56	65	68	69	65	61	52	41	
L_{wA} Surrounding	dB(A)	57	35	31	46	53	52	48	40	29	
With LDC 125-600											
L_{wA} Duct	dB(A)	64	53	62	59	46	35	21	30	27	

Measuring point: $q_v = 0,047 \text{ m}^3/\text{s}$, $P_s = 190 \text{ Pa}$