Circular duct fans

K/KV

- 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 and the KV is designed to be used as a wall mounted duct-connected extract fan. All the K/KV-fans have a minimum 25 mm long spigot connections. The fans have backward-curved blades and external rotor motors. To simplify installation the K-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 K/KV 100 M and 125 M is impedance protected, K/KV 100 XL-315 L has integral thermal contacts with electrical reset.

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

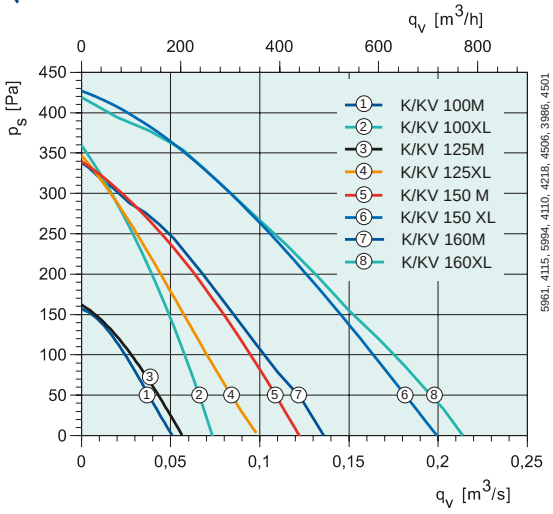
ELECTRICAL ACCESSORIES

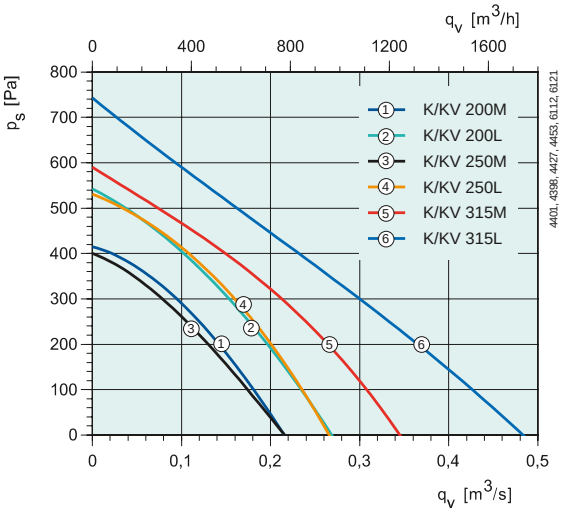
RE p. 320

REU p. 320

REE p. 321

QUICK SELECTION

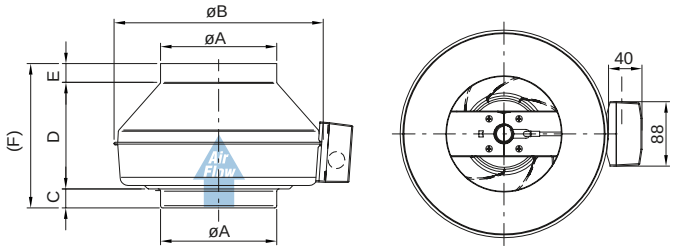




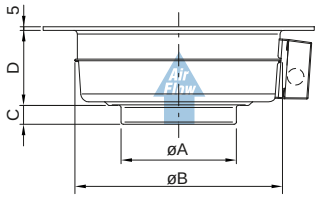
TECHNICAL DATA

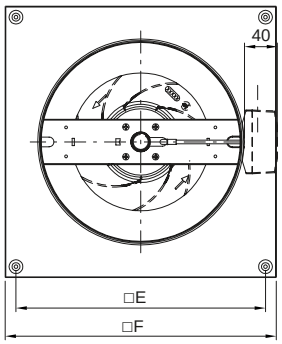
K/KV		100 M	100 XL	125 M	125 XL	150 M	150 XL	160 M
Art no.		1001/1205	1004/1207	1002/1208	1003/1210	1017/1211	1018/1212	1005/1213
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	29.9	58.6	29.1	62	61	104	59
Current	A	0.171	0.253	0.172	0.271	0.264	0.458	0.259
Max air flow	m^3/s	0.051	0.074	0.057	0.0978	0.122	0.199	0.136
R.p.m.	min^{-1}	2443	2425	2483	2390	2412	2567	2499
Max temp. of transported air	°C	70	70	70	70	70	70	70
" when speed controlled	°C	70	70	70	70	70	70	70
Sound pressure level at 3 m	dB(A)	38	48	34	50	42	55	44
Weight	kg	2.5	2.5	2.5	2.5	3.5	4.5	3
Insulation class, motor		B	B	B	B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Capacitor	µF	–	2	–	2	2	3	2
Motor protection		Integral	Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step	Transformer	RE 1.5	RE 1.5	RE 1.5	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	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless	Thyristor	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1
Wiring diagram p. 391-400		1	2	1	2	2	2	2

DIMENSIONS



K	A	B	C	D	E	F
100 M	99	218	26	166	26	218
100 XL	99	246	26	161	26	213
125 M	124	218	27	142	27	196
125 XL	124	246	26	151	26	203
150 M	149	286	25	152	25	202
150 XL	149	336	29	171	26	226
160 M	159	286	25	147	26	198
160 XL	159	336	29	166	26	221
200 M	199	336	30	148	27	205
200 L	199	336	30	174	27	231
250 M	249	336	30.5	119.5	27	177
250 L	249	336	30.5	144.5	27	202
315 M	314	408	32.5	160.5	27	220
315 L	314	408	37.5	160.5	27	225

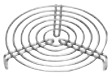




KV	A	B	C	D	□E	□F
100 M	99	218	26	143	254	284
100 XL	99	246	26	125	304	334
125 M	124	218	27	131	254	284
125 XL	124	246	26	127	304	334
150 M	149	286	25	113	344	374
150 XL	149	336	29	147	394	425
160 M	159	286	25	113	344	374
160 XL	159	336	29	147	394	425
200 M	199	336	30	134	394	425
200 L	199	336	30	158	394	425
250 M	249	336	30.5	135	394	425
250 L	249	336	30.5	159	394	425
315 M	314	408	32.5	145	458	489
315 L	314	408	37.5	145	458	489

VENTILATION ACCESSORIES


FK p. 355


SG p. 357


VK p. 356


RSK p. 355


LDC p. 348

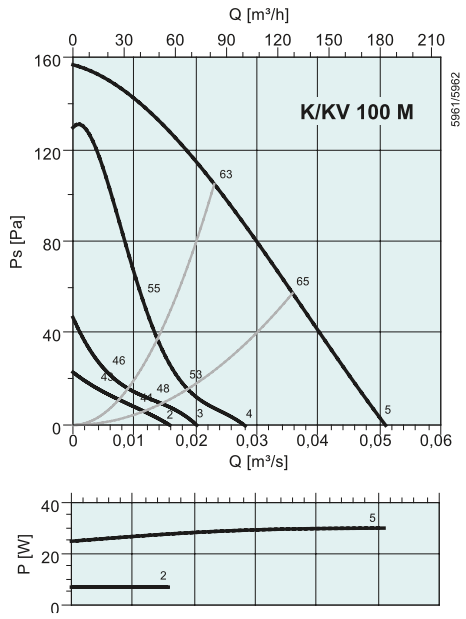

FFR p. 349


CB p. 350

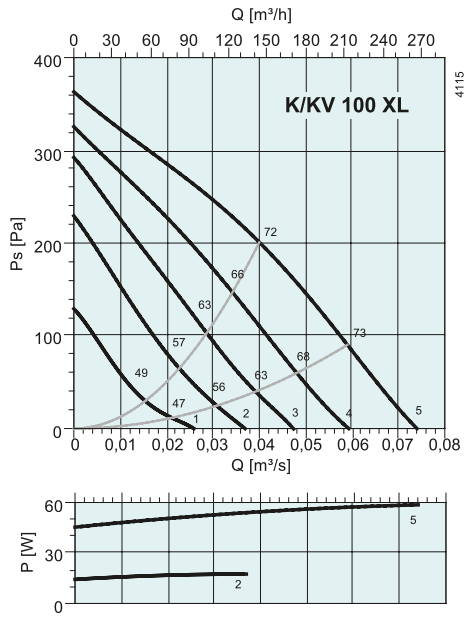
K/KV		160 XL	200 M	200 L	250 M	250 L	315 M	315 L
Art no.		1006/1214	1007/1215	1008/1216	1009/1217	1010/1218	1011/1219	1012/1220
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	105	106	158	103	157	202	318
Current	A	0.457	0.463	0.709	0.448	0.699	0.893	1.39
Max air flow	m^3/s	0.214	0.216	0.269	0.216	0.267	0.347	0.48
R.p.m.	min^{-1}	2553	2551	2630	2579	2641	2578	2318
Max temp. of transported air	°C	70	70	50	70	70	51	51
" when speed controlled	°C	70	70	50	70	70	51	45
Sound pressure level at 3 m	dB(A)	53	51	50	49	49	47	50
Weight	kg	4.5	4.5	4.5	4.5	5	6	7
Insulation class, motor		B	B	B	B	B	F	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Capacitor	µF	3	3	4	3	4	5	7
Motor protection		Integral	Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step	Transformer	RE 1.5	RE 1.5	RE 1.5	RE 3	RE 3	RE 1.5	RE 1.5
Speed control, five step high/low	Transformer	REU 1.5	REU 1.5	REU 1.5	REU 3	REU 3	REU 1.5	REU 1.5
Speed control, stepless	Thyristor	REE 1	REE 1	REE 1	REE 1	REE 1	REE 2	REE 2
Wiring diagram p. 391-400		2	2	2	2	2	2	2

Circular duct fans

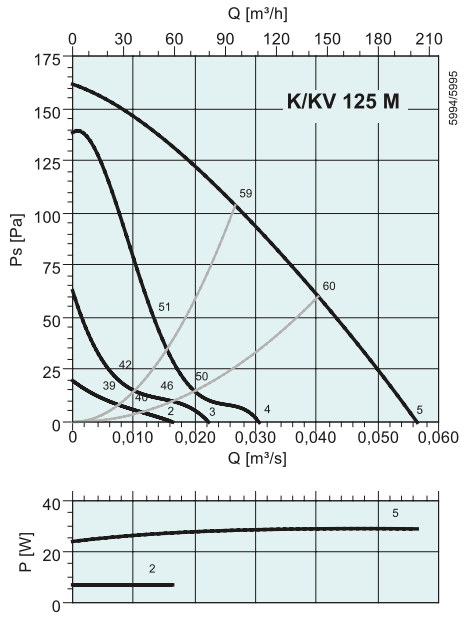
PERFORMANCE



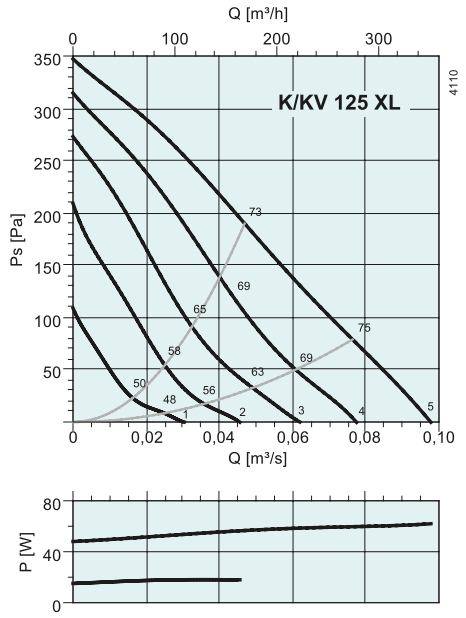
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	63	50	59	56	58	50	47	40	28
L_{wA} Outlet	60	35	54	55	54	49	44	38	27
L_{wA} Surrounding	45	21	14	23	36	41	42	29	17
With LDC 100-600									
L_{wA} Inlet	57	46	56	45	34	14	0	6	11
L_{wA} Outlet	52	31	51	44	30	13	0	4	10
Measurement point: 0,231 m³/s; 105 Pa									



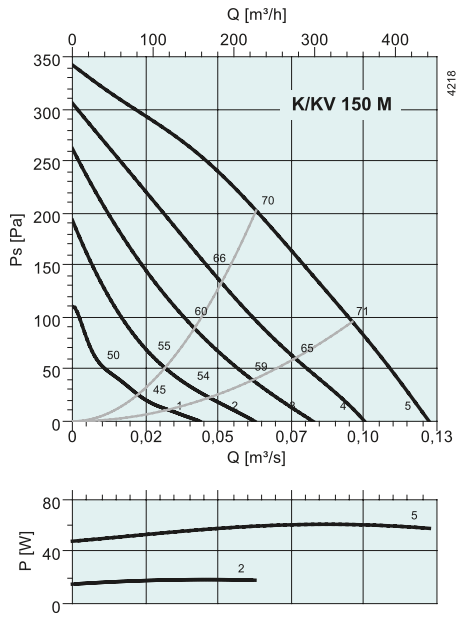
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	72	49	65	68	66	62	55	52	40
L_{wA} Outlet	69	49	63	63	65	60	55	54	44
L_{wA} Surrounding	55	28	28	47	51	48	46	44	30
With LDC 100-600									
L_{wA} Inlet	63	45	62	57	42	26	6	18	23
L_{wA} Outlet	61	45	60	52	41	24	6	20	27
Measurement point: 0,04 m³/s; 201 Pa									



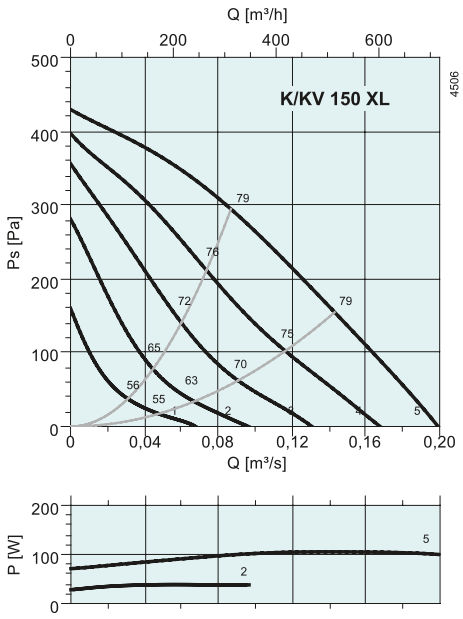
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	59	33	51	54	55	48	45	36	29
L_{wA} Outlet	60	40	46	58	55	47	44	38	31
L_{wA} Surrounding	41	12	9	24	39	32	33	25	18
With LDC 125-600									
L_{wA} Inlet	50	30	48	45	32	18	5	14	15
L_{wA} Outlet	50	37	43	49	32	17	4	16	17
Measurement point: 0,0267 m³/s; 104 Pa									



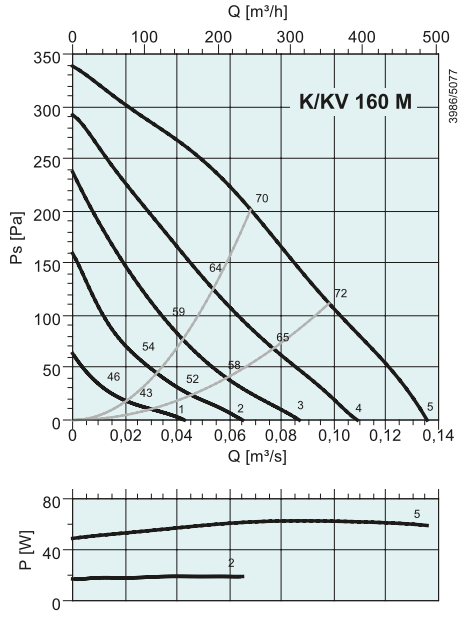
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	73	56	65	68	69	65	61	52	41
L_{wA} Outlet	73	55	64	68	68	64	61	57	50
L_{wA} Surrounding	57	35	31	46	53	52	48	40	29
With LDC 125-600									
L_{wA} Inlet	64	53	62	59	46	35	21	30	27
L_{wA} Outlet	64	52	61	59	45	34	21	35	36
Measurement point: 0,0469 m³/s; 190 Pa									



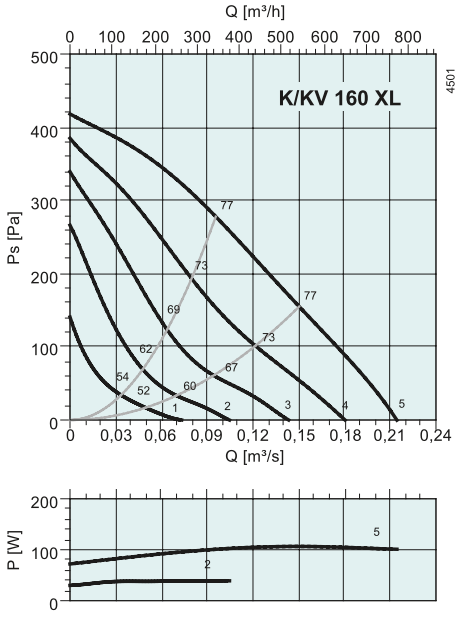
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	70	45	63	66	64	58	55	51	42
L_{wA} Outlet	69	46	63	66	60	56	52	50	41
L_{wA} Surrounding	49	24	25	43	46	40	39	36	24
With LDC 150-600									
L_{wA} Inlet	63	45	60	59	44	31	24	35	31
L_{wA} Outlet	63	46	60	59	40	29	21	34	30
Measurement point: 0,063 m³/s; 202 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	78	56	67	75	74	67	62	62	54
L_{wA} Outlet	76	51	67	73	70	65	61	60	49
L_{wA} Surrounding	62	26	28	43	61	47	49	50	36
With LDC 150-600									
L_{wA} Inlet	70	56	64	68	54	40	31	46	43
L_{wA} Outlet	68	51	64	66	50	38	30	44	38
Measurement point: 0,0869 m³/s; 294 Pa									

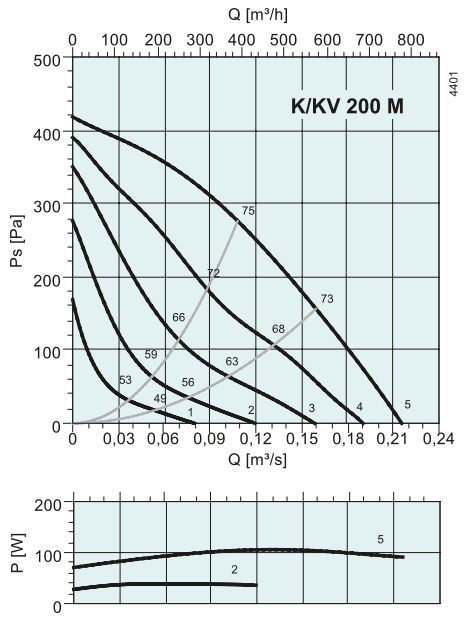


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	70	43	65	64	65	61	59	48	37
L_{wA} Outlet	68	44	62	64	61	59	56	48	37
L_{wA} Surrounding	51	13	23	35	47	43	46	38	23
With LDC 160-900									
L_{wA} Inlet	62	41	61	54	37	19	16	28	22
L_{wA} Outlet	60	42	58	54	33	17	13	28	22
Measurement point: 0,0681 m³/s; 201 Pa									

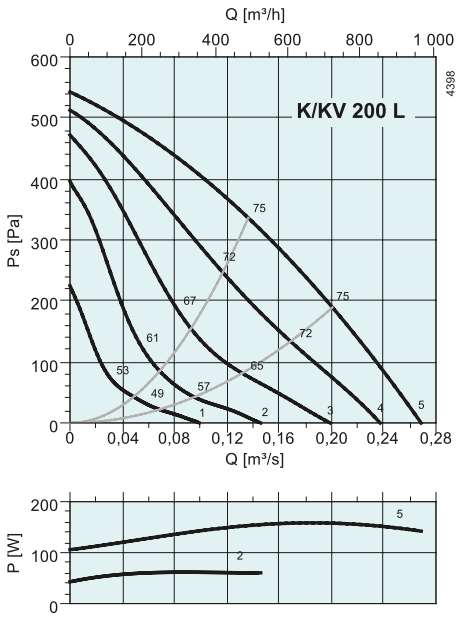


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	77	49	65	72	73	67	63	63	51
L_{wA} Outlet	75	47	65	72	68	65	63	62	50
L_{wA} Surrounding	60	24	31	42	59	46	46	49	35
With LDC 160-900									
L_{wA} Inlet	65	47	61	62	45	25	20	43	36
L_{wA} Outlet	65	45	61	62	40	23	20	42	35
Measurement point: 0,0956 m³/s; 278 Pa									

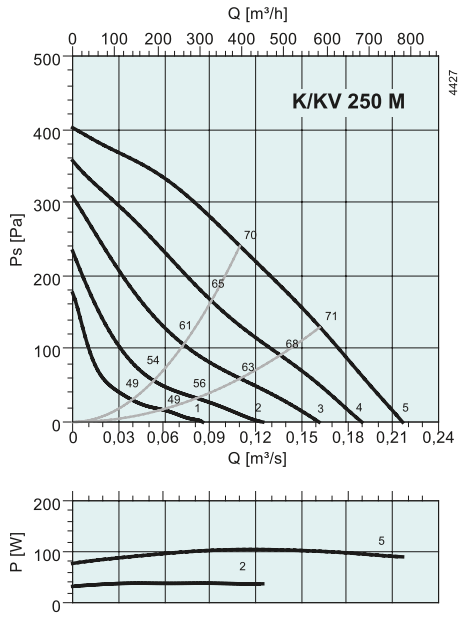
Circular duct fans



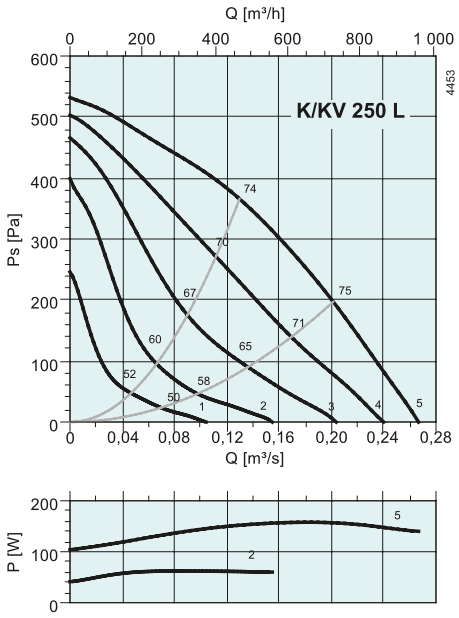
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	75	47	67	67	72	65	61	59	50
L_{wA} Outlet	74	45	65	69	68	63	62	61	50
L_{wA} Surrounding	58	16	40	39	54	49	52	52	37
With LDC 200-900									
L_{wA} Inlet	65	45	63	59	48	33	27	46	40
L_{wA} Outlet	64	43	61	61	44	31	28	48	40
Measurement point: 0,108 m^3/s; 276 Pa									



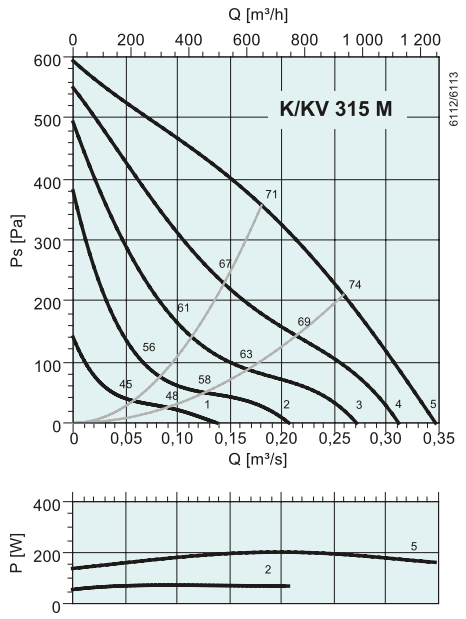
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	75	49	68	70	71	65	62	58	50
L_{wA} Outlet	74	51	66	71	67	64	62	60	53
L_{wA} Surrounding	57	17	30	41	52	49	52	48	36
With LDC 200-900									
L_{wA} Inlet	66	47	64	62	47	33	28	45	40
L_{wA} Outlet	66	49	62	63	43	32	28	47	43
Measurement point: 0,136 m^3/s; 336 Pa									



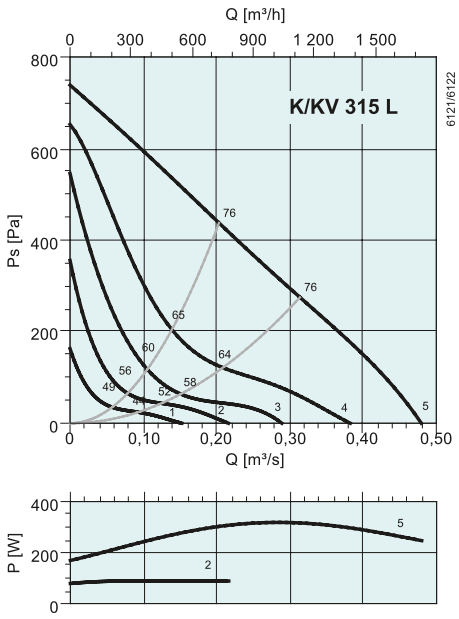
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	70	45	59	61	65	62	60	62	53
L_{wA} Outlet	70	46	58	62	64	61	63	62	51
L_{wA} Surrounding	56	18	31	31	48	44	51	52	39
With LDC 250-900									
L_{wA} Inlet	59	42	55	53	45	36	37	52	45
L_{wA} Outlet	59	43	54	54	44	35	40	52	43
Measurement point: 0,11 m^3/s; 241 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	74	59	66	67	68	67	62	55	46
L_{wA} Outlet	75	58	64	71	66	68	66	58	49
L_{wA} Surrounding	56	34	33	45	52	47	50	46	33
With LDC 250-900									
L_{wA} Inlet	65	56	62	59	48	41	39	45	38
L_{wA} Outlet	65	55	60	63	46	42	43	48	41
Measurement point: 0,13 m^3/s; 366 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	73	51	60	66	69	67	62	58	55
L_{wA} Outlet	70	49	56	62	62	65	64	58	54
L_{wA} Surrounding	54	22	28	39	48	45	47	43	50
With LDC 315-900									
L_{wA} Inlet	63	50	57	59	53	45	50	52	48
L_{wA} Outlet	60	48	53	55	46	43	52	52	47
Measurement point: 0,18 m^3/s; 357 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet	76	55	67	70	71	68	66	63	58
L_{wA} Outlet	77	63	67	71	69	70	69	63	57
L_{wA} Surrounding	57	24	37	45	52	49	50	46	46
With LDC 315-900									
L_{wA} Inlet	68	54	64	63	55	46	54	57	51
L_{wA} Outlet	69	62	64	64	53	48	57	57	50
Measurement point: 0,203 m^3/s; 438 Pa									