

## Circular duct fans



## KVK

- Speed-controllable
- Integral thermal contacts
- Low sound level
- Compact construction

The KVK 125-160 models have a single-inlet centrifugal fan, size 200-500 have double-inlet centrifugal fans. All sizes have forward-curved blades and a maintenance-free external rotor motor.

To protect the motor from overheating the KVK 125-160 has integral thermal contacts with electrical reset, and size 200-500 has leads for connection to a motor protection device.

The fans can be installed in any position, and are easy to connect to spiral ducts using FK mounting clamps.

The KVK models are manufactured from galvanised sheet steel and are thermally and acoustically insulated with a 50 mm layer of rockwool with a surface liner which prevents the migration of fibres into the air-stream.

## ELECTRICAL ACCESSORIES



S-ET p. 341



RTRE p. 320



RE p. 320

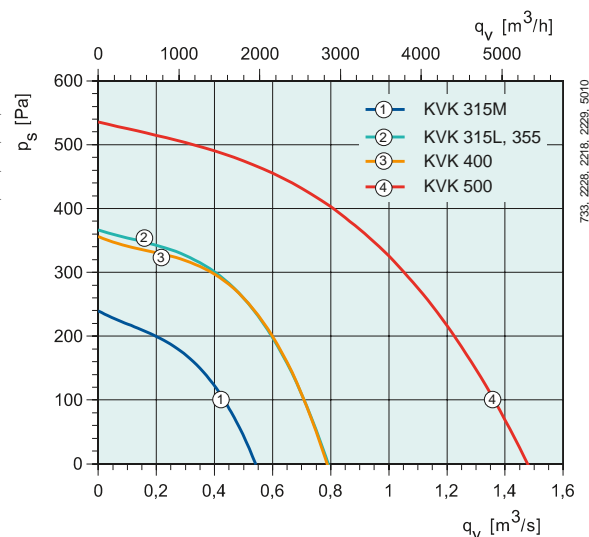
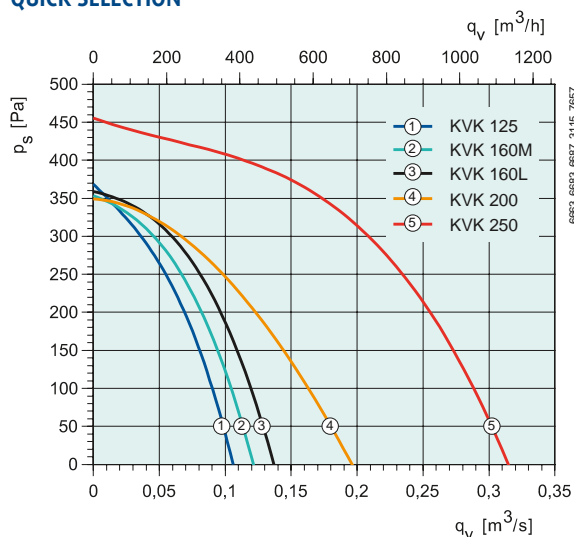


REU p. 320



REE p. 321

## QUICK SELECTION



## TECHNICAL DATA

KVK		125	160 M	160 L	200	250
Art no.		2430	2433	2434	1337	1347
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	92.7	111	134	172	308
Current	A	0.409	0.48	0.59	0.75	1.34
Max air flow	m³/s	0.106	0.123	0.138	0.197	0.311
R.p.m.	min <sup>-1</sup>	1978	2062	2519	1807	1833
Max temp. of transported air	°C	68	70	70	57	50
" when speed controlled	°C	68	70	70	57	50
Sound pressure level at 3 m	dB(A)	38	39	39	40	43.2
Weight	kg	11	11	11.8	12.9	17
Insulation class, motor		B	B	B	B	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44
Capacitor	µF	2	2	4	4	8
Motor protection		Integral	Integral	Integral	S-ET 10	S-ET 10
Speed control, five-step	Transformer	RE 1.5	RE 1.5	RE 1.5	RTRE 1.5	RTRE 1.5
Speed control, five step high/low	Transformer	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 2*
Wiring diagram p. 391-400		2	2	2	5	5

\* + S-ET 10

DIMENSIONS

KVK	A	B	C	D	E	F	G	øH	I
125	230	266	151	114	367	415	464	125	40
160	230	266	134	132	367	415	464	160	40

KVK	A	B	C	D	E	F	G	øH	I
200	340	345	191	193	395	395	440	200	20
250	380	385	198	228	460	400	490	250	40
315	540	545	328	256	520	570	655	315	40
355	540	545	328	256	520	570	655	355	40
400	540	545	328	256	520	570	680	400	50
500	750	680	400	355	710	718	850	500	80

VENTILATION ACCESSORIES

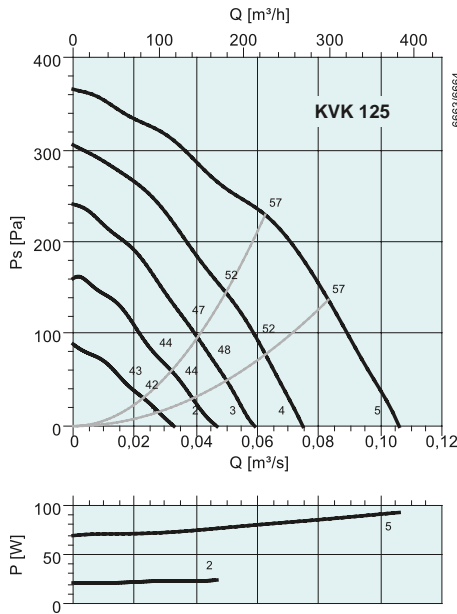
- FK p. 355
- SG p. 357
- VK p. 356
- IGK p. 357
- RSK p. 355
- LDC p. 348
- FFR p. 349
- CB p. 350

KVK		315 M	315 L	355	400	500
Art no.		1357	1365	1370	1375	4506
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	335	643	614	603	1452
Current	A	1.49	2.82	2.69	2.64	6.27
Max air flow	m <sup>3</sup> /s	0.542	0.789	0.72	0.73	1.49
R.p.m.	min <sup>-1</sup>	1324	1201	1220	1186	1235
Max temp. of transported air	°C	70	53	40	40	68
" when speed controlled	°C	70	53	40	40	68
Sound pressure level at 3 m	dB(A)	35	36	36	39	56
Weight	kg	30	32.2	32.1	32	66.9
Insulation class, motor		B	B	B	B	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54	IP 54
Capacitor	µF	10	20	20	20	25
Motor protection		S-ET 10	S-ET 10	S-ET 10	S-ET 10	S-ET 10
Speed control, five-step	Transformer	RTRE 3	RTRE 3	RTRE 3	RTRE 3	RTRE 7
Speed control, five step high/low	Transformer	REU 3*	REU 3*	REU 3*	REU 3*	REU 7*
Speed control, stepless	Thyristor	REE 2*	REE 4*	REE 4*	REE 4*	-
Wiring diagram p. 391-400		5	5	5	5	3

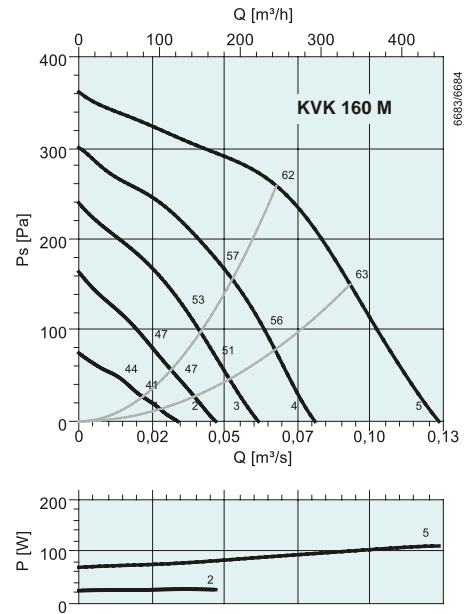
\* + S-ET 10

# Circular duct fans

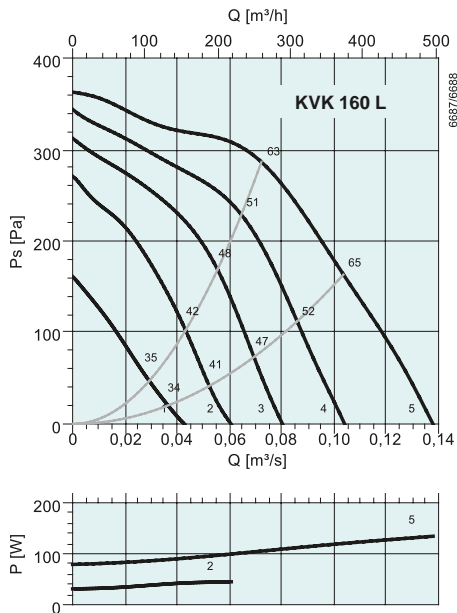
## PERFORMANCE



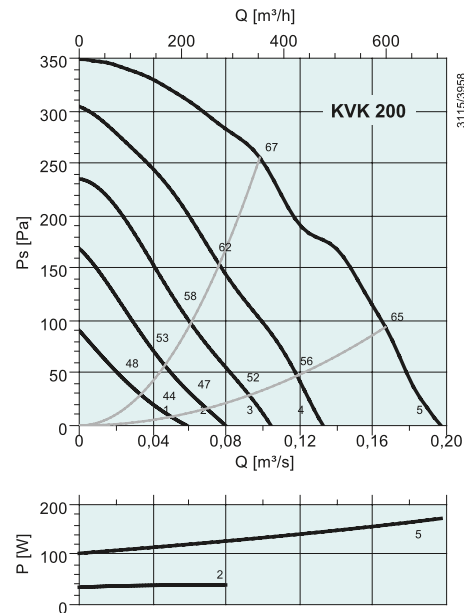
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	57	37	55	50	44	42	41	36	30
L <sub>WA</sub> Outlet	70	50	61	58	60	66	62	55	48
L <sub>WA</sub> Surrounding	45	17	33	40	41	36	36	25	16
With LDC 125-900									
L <sub>WA</sub> Inlet	51	33	51	38	11	0	0	6	13
L <sub>WA</sub> Outlet	58	46	57	46	27	21	12	25	31
Measurement point: 0,0625 m³/s; 229 Pa									



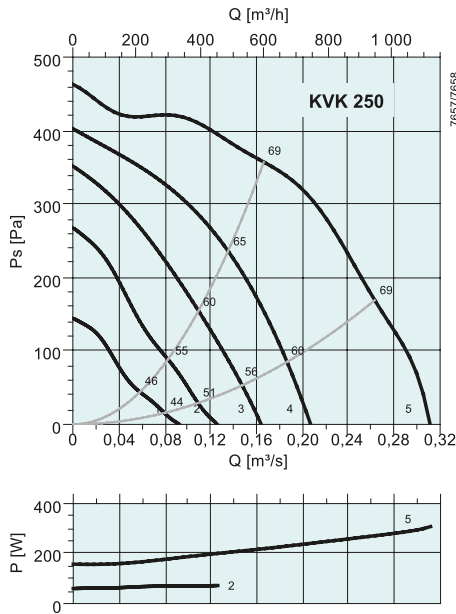
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	62	39	61	53	48	44	41	38	35
L <sub>WA</sub> Outlet	72	53	64	64	64	68	65	57	51
L <sub>WA</sub> Surrounding	46	10	43	38	37	38	27	24	21
With LDC 160-900									
L <sub>WA</sub> Inlet	57	37	57	43	20	2	0	18	20
L <sub>WA</sub> Outlet	61	51	60	54	36	26	22	37	36
Measurement point: 0,0678 m³/s; 258 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	63	48	62	53	49	46	44	42	38
L <sub>WA</sub> Outlet	75	56	66	66	67	69	69	62	57
L <sub>WA</sub> Surrounding	46	25	43	39	38	34	30	25	18
With LDC 160-900									
L <sub>WA</sub> Inlet	58	46	58	43	21	4	1	22	23
L <sub>WA</sub> Outlet	64	54	62	56	39	27	26	42	42
Measurement point: 0,0722 m³/s; 286 Pa									

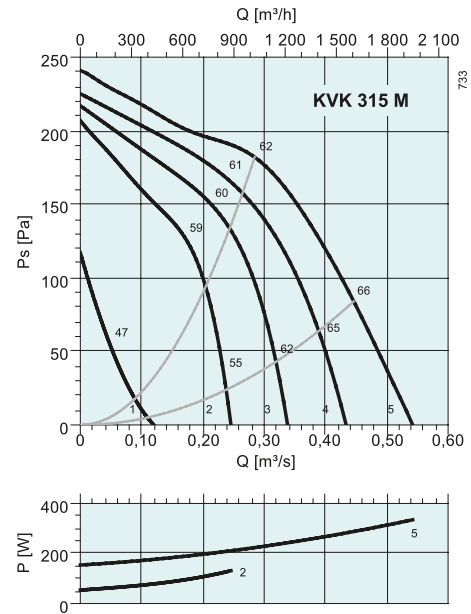


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	66	47	63	59	58	55	48	41	35
L <sub>WA</sub> Outlet	73	59	63	66	67	66	66	61	54
L <sub>WA</sub> Surrounding	47	19	38	43	42	35	31	26	19
With LDC 200-900									
L <sub>WA</sub> Inlet	60	45	59	51	34	23	14	28	25
L <sub>WA</sub> Outlet	63	57	59	58	43	34	32	48	44
Measurement point: 0,0983 m³/s; 255 Pa									



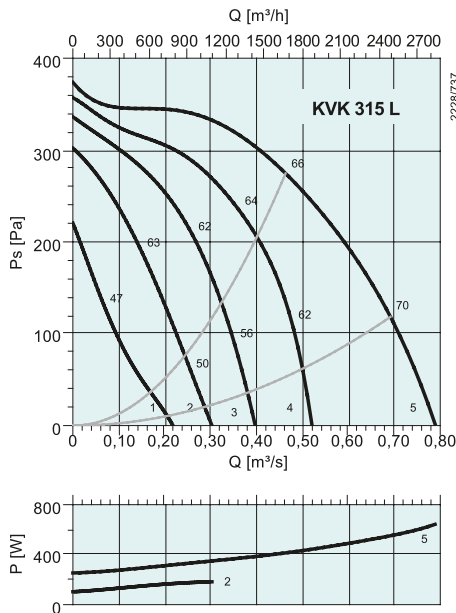
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	67	46	66	60	56	47	49	44	36
L <sub>WA</sub> Outlet	76	61	68	68	69	68	69	65	58
L <sub>WA</sub> Surrounding	50	27	46	45	43	38	37	31	21
With LDC 250-900									
L <sub>WA</sub> Inlet	62	43	62	52	36	21	26	34	28
L <sub>WA</sub> Outlet	67	58	64	60	49	42	46	55	50

Measurement point: 0,166 m<sup>3</sup>/s; 357 Pa



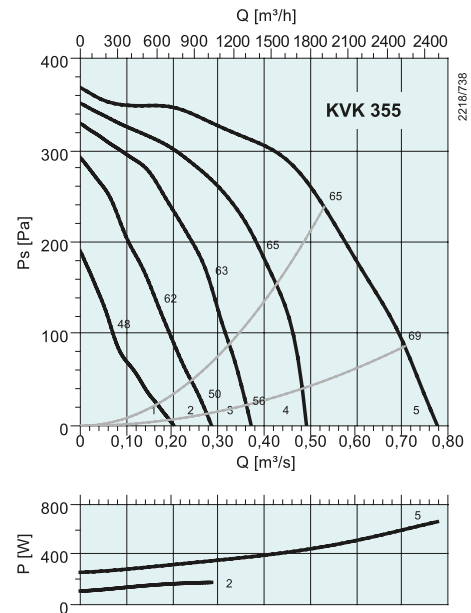
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	60	55	56	51	42	42	41	39	36
L <sub>WA</sub> Outlet	71	59	63	57	63	66	62	59	57
L <sub>WA</sub> Surrounding	42	36	35	35	33	30	27	22	17
With LDC 315-900									
L <sub>WA</sub> Inlet	57	54	53	44	26	20	29	33	29
L <sub>WA</sub> Outlet	63	58	60	50	47	44	50	53	50

Measurement point: 0,284 m<sup>3</sup>/s; 182 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	63	61	55	51	45	46	43	40	38
L <sub>WA</sub> Outlet	73	59	61	61	64	68	66	63	59
L <sub>WA</sub> Surrounding	43	31	35	36	37	35	33	29	26
With LDC 315-900									
L <sub>WA</sub> Inlet	61	60	52	44	29	24	31	34	31
L <sub>WA</sub> Outlet	64	58	58	54	48	46	54	57	52

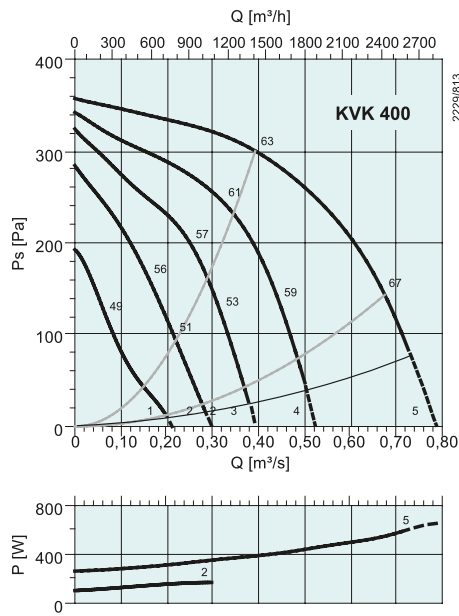
Measurement point: 0,463 m<sup>3</sup>/s; 275 Pa



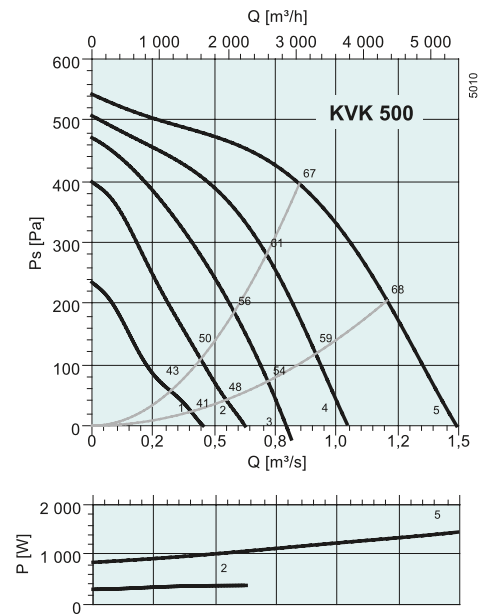
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet	62	60	55	51	44	46	43	40	38
L <sub>WA</sub> Outlet	72	58	60	60	64	68	66	63	59
L <sub>WA</sub> Surrounding	43	31	35	36	37	35	33	29	26
With LDC 355-900									
L <sub>WA</sub> Inlet	61	60	52	45	31	28	33	34	31
L <sub>WA</sub> Outlet	64	58	57	54	51	50	56	57	52

Measurement point: 0,531 m<sup>3</sup>/s; 238 Pa

# Circular duct fans



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
$L_{wA}$ Inlet	63	60	58	54	51	51	47	47	46
$L_{wA}$ Outlet	73	62	61	63	64	68	66	64	60
$L_{wA}$ Surrounding	46	33	37	38	41	37	36	37	27
With LDC 400-900									
$L_{wA}$ Inlet	61	59	55	49	41	38	40	42	40
$L_{wA}$ Outlet	67	61	58	58	54	55	59	59	54
Measurement point: 0,393 $m^3/s$ ; 296 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
$L_{wA}$ Inlet	71	53	68	66	54	52	53	58	57
$L_{wA}$ Outlet	78	64	68	68	69	69	69	72	66
$L_{wA}$ Surrounding	63	31	59	59	48	44	38	41	41
Measurement point: 0,848 $m^3/s$ ; 396 Pa									