

Circular duct fans



KVKE

- Speed controllable
- Integral thermal contacts
- Low sound level
- Servicing cover

The KVKE models have a single inlet centrifugal fan with backward-curved blades and a maintenance-free external rotor motor. These fans develop relatively high static pressure and have a high efficiency.

The KVKE motor and impeller are mounted on the access cover for ease of maintenance. The service cover can be easily removed by withdrawing the hinge pin. To protect the motor from overheating, the fans have integral thermal contacts with automatic reset. The fans can be installed in any position and are easy to connect to spiral ducts using FK mounting clamps.

The KVKE 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



REU p. 320



REU p. 320

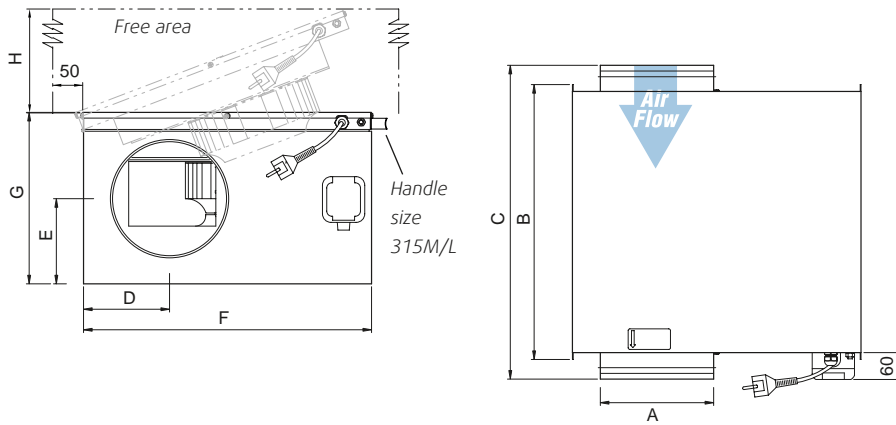


REE p. 321

TECHNICAL DATA

KVKE		125	160	200	250 M	250 L	315 M	315 L
Art no.		1406	1409	1412	1416	1419	1421	1423
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	55.1	97.6	152	186	258	285	496
Current	A	0.244	0.422	0.67	0.841	1.10	1.23	2.15
Max air flow	m ³ /s	0.0854	0.148	0.211	0.27	0.317	0.44	0.61
R.p.m.	min ⁻¹	2548	2687	2661	2655	2578	2505	2364
Max temp. of transported air	°C	70	70	70	58	60	60	59
" when speed controlled	°C	70	70	70	58	56	60	49
Sound pressure level at 3 m	dB(A)	34	36	47	38	45	41	50
Weight	kg	14	18	19.5	26.5	28.5	40.5	42
Insulation class, motor		B	B	F	B	F	F	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Capacitor	µF	2	3	4	5	7	7	12
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 3
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 3
Speed control, stepless	Thyristor	REE 1	REE 1	REE 1	REE 1	REE 2	REE 2	REE 4
Wiring diagram p. 391-400		4	4	4	4	4	4	4

DIMENSIONS



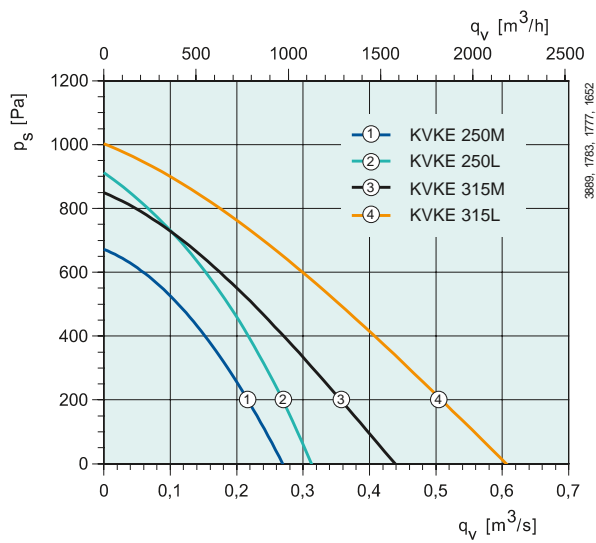
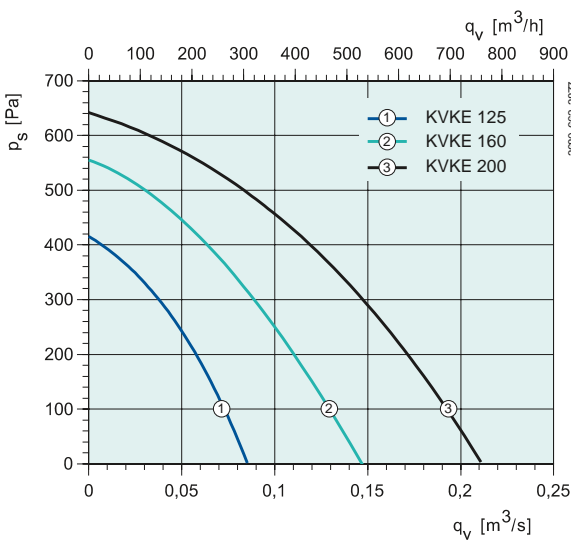
KVKE	A	B	C	D	E	F	G	H
125	125	433	479	125	128.5	442	246	470
160	160	482	528	145.5	132.5	505	266	530
200	200	482	534	150.5	149	505	303	530
250	250	578	700	176	174	596	359	620
315	315	680	802	208.5	207.5	705.5*	430	730

* + handle

VENTILATION ACCESSORIES

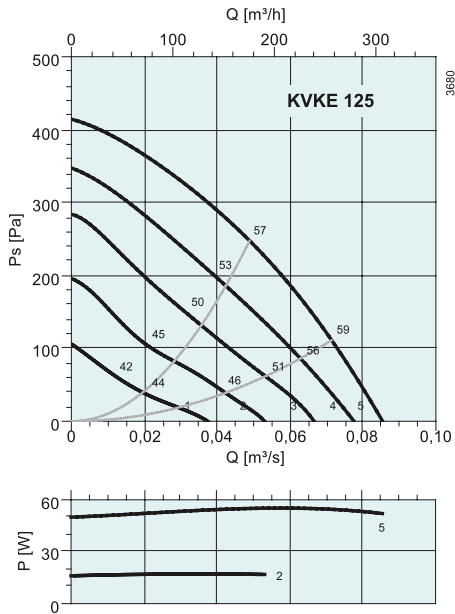


QUICK SELECTION

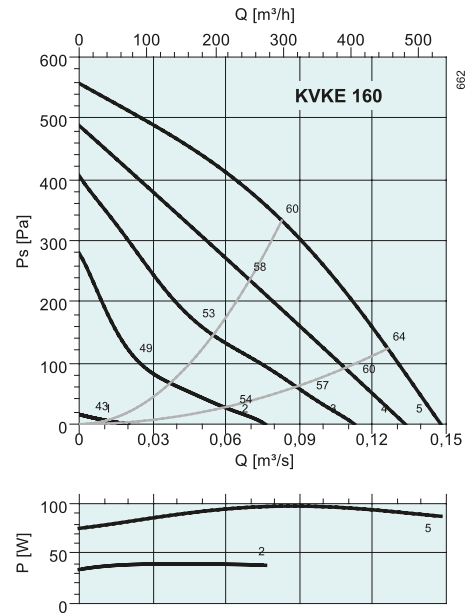


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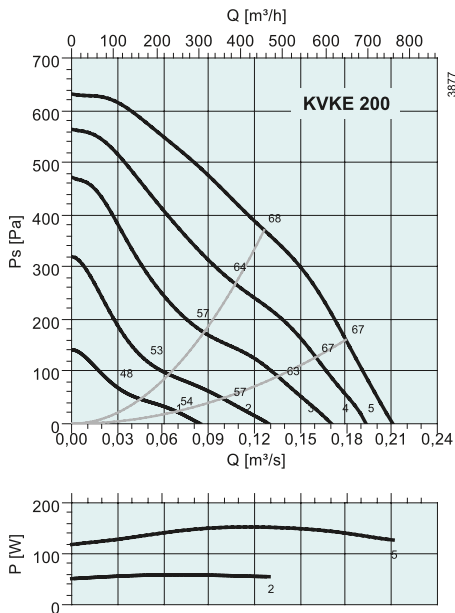
PERFORMANCE



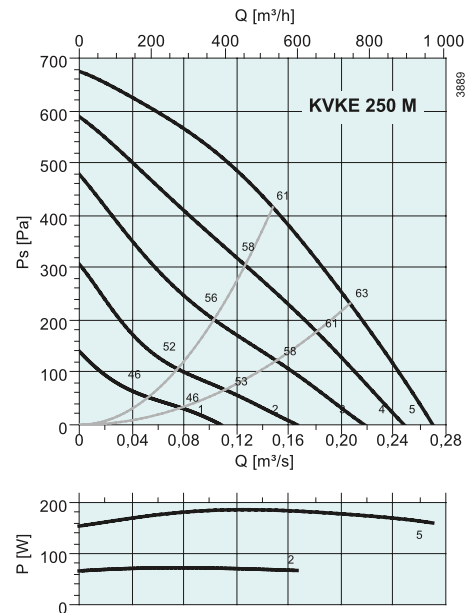
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	56	35	50	55	42	40	32	21	17
L _{WA} Outlet	70	50	59	67	63	63	61	56	36
L _{WA} Surrounding	41	6	35	38	31	32	29	20	15
With LDC 125-900									
L _{WA} Inlet	48	31	46	43	9	0	0	0	0
L _{WA} Outlet	58	46	55	55	30	18	11	26	19
Measurement point: 0,0489 m ³ /s; 248 Pa									



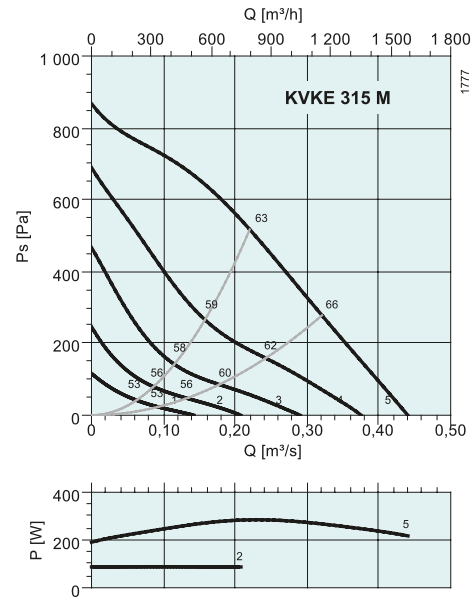
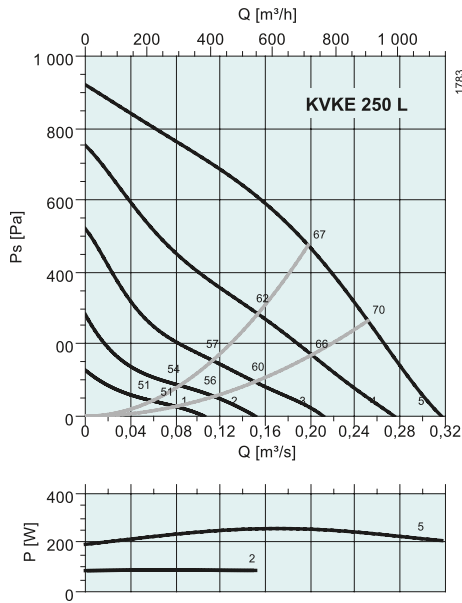
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	57	55	48	49	48	43	38	35	38
L _{WA} Outlet	71	53	58	62	68	65	61	54	40
L _{WA} Surrounding	43	32	30	33	37	35	33	34	35
With LDC 160-900									
L _{WA} Inlet	54	53	44	39	20	1	0	15	23
L _{WA} Outlet	57	51	54	52	40	23	18	34	25
Measurement point: 0,0828 m ³ /s; 333 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	67	44	58	66	54	52	45	36	33
L _{WA} Outlet	79	56	61	75	73	71	69	59	49
L _{WA} Surrounding	54	12	40	54	43	38	35	31	20
With LDC 200-900									
L _{WA} Inlet	60	42	54	58	30	20	11	23	23
L _{WA} Outlet	68	54	57	67	49	39	35	46	39
Measurement point: 0,126 m ³ /s; 371 Pa									

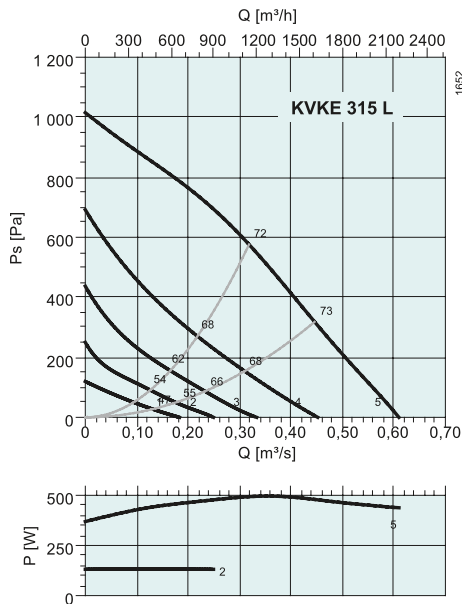


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	60	44	54	54	53	51	49	45	37
L _{WA} Outlet	73	56	56	62	70	67	65	58	48
L _{WA} Surrounding	45	17	37	37	42	35	31	30	23
With LDC 250-900									
L _{WA} Inlet	52	41	50	46	33	25	26	35	29
L _{WA} Outlet	59	53	52	54	50	41	42	48	40
Measurement point: 0,148 m ³ /s; 415 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	65	51	60	61	57	52	45	45	41
L _{WA} Outlet	78	60	62	69	75	71	70	62	54
L _{WA} Surrounding	52	28	44	49	46	36	28	31	23
With LDC 250-900									
L _{WA} Inlet	58	48	56	53	37	26	22	35	33
L _{WA} Outlet	65	57	58	61	55	45	47	52	46
Measurement point: 0,198 m³/s; 475 Pa									

dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	61	46	57	55	52	52	46	47	45
L _{WA} Outlet	76	60	59	65	73	68	66	60	55
L _{WA} Surrounding	47	21	38	43	43	36	29	28	26
With LDC 315-900									
L _{WA} Inlet	56	45	54	48	36	30	34	41	38
L _{WA} Outlet	65	59	56	58	57	46	54	54	48
Measurement point: 0,22 m³/s; 517 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	70	58	66	66	54	55	45	43	39
L _{WA} Outlet	85	62	71	83	76	74	66	60	53
L _{WA} Surrounding	57	37	48	56	46	40	36	34	29
With LDC 315-900									
L _{WA} Inlet	65	57	63	59	38	33	33	37	32
L _{WA} Outlet	77	61	68	76	60	52	54	54	46
Measurement point: 0,318 m³/s; 576 Pa									