

Circular duct fans



KVK DUO

- Speed-controllable
- Integral thermal contacts
- Low sound level
- Twin fan

KVK DUO models are designed for applications where a standby fan is required.

The fans have double inlet centrifugal fans with forward-curved impellers and maintenance-free external rotor motors. To protect the motors from overheating the fans have integral thermal contacts with leads for connection to a motor protection device.

The fans are easy to connect to spiral ducts using FK mounting clamps. The KVK DUO models are manufactured from galvanised sheet steel and are thermally and acoustically insulated with a 50 mm layer of mineral wool. Internal surfaces are protected with perforated galvanised sheet steel.

ELECTRICAL ACCESSORIES



S-ET p. 341



AWE-SK p. 342



RTRE p. 320

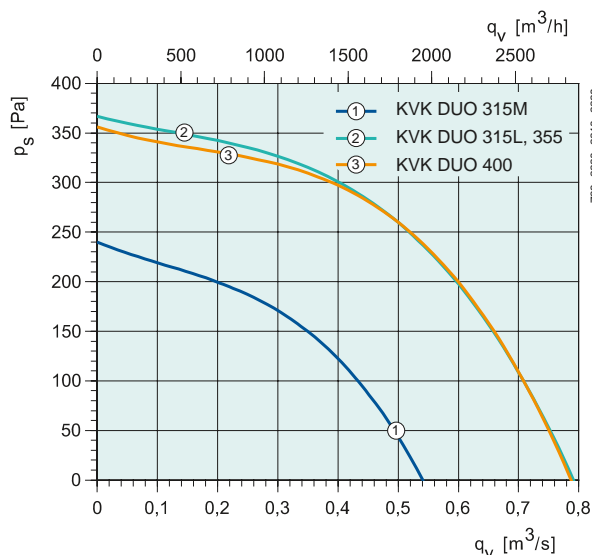
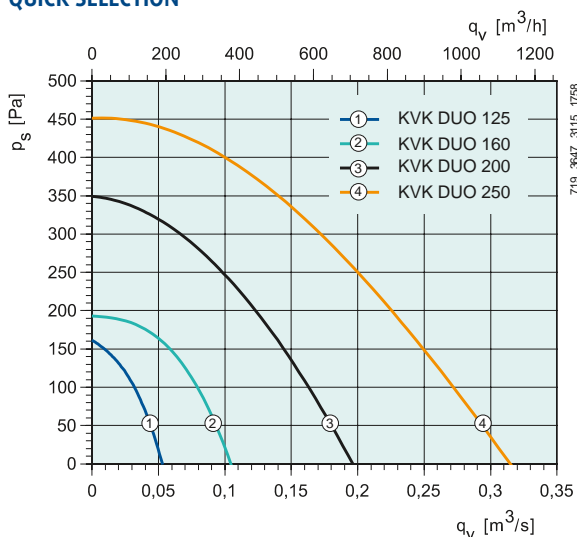


REU p. 320



REE p. 321

QUICK SELECTION

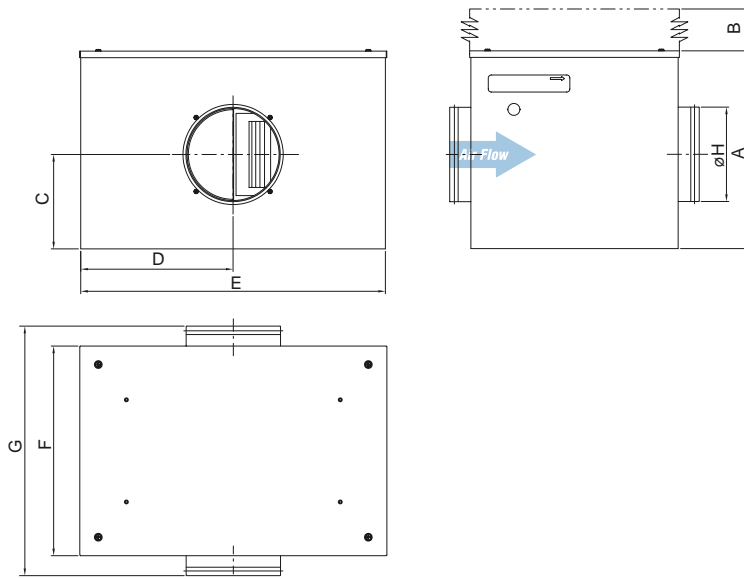


TECHNICAL DATA

KVK DUO		125	160	200	250	315M	315L
Art no.		5341	5127	5030	5031	5032	5773
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	41.4	69.1	172	304	335	643
Current	A	0.171	0.301	0.75	1.31	1.49	2.82
Max air flow	m³/s	0.0528	0.105	0.197	0.316	0.542	0.789
R.p.m.	min ⁻¹	1724	1943	1807	1962	1324	1201
Max temp. of transported air	°C	69	35	56	50	69	53
" when speed controlled	°C	69	35	56	55	69	53
Sound pressure level at 3 m	dB(A)	29	37	40	42	35	36
Weight	kg	18.3	19.5	27.9	45	66	74
Insulation class, motor		B	B	B	F	B	B
Enclosure class, motor		IP 44	IP 22	IP 44	IP 44	IP 54	IP 54
Capacitor	µF	1.5	2	4	8	10	20
Motor protection		AWE-SK	AWE-SK	S-ET 10	S-ET 10	S-ET 10	S-ET 10
Speed control, five-step	Transformer	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 3	RTRE 3
Speed control, five step high/low	Transformer	REU 1.5*	REU 1.5*	REU 1.5**	REU 1.5**	REU 3**	REU 3**
Speed control, stepless	Thyristor	REE 1*	REE 1*	REE 1**	REE 2**	REE 2*	REE 4**
Wiring diagram p. 391-400		5	5	5	5	5	5

* + AWE-SK, ** + S-ET 10

DIMENSIONS



KVK DUO	A	B	C	D	E	F	G	ϕH
125	333	275	165	255	510	350	425	125
160	333	275	165	255	510	350	425	160
200	386	325	190	300	600	400	475	200
250	460	400	207	360	720	500	615	250
315M	505	450	250	473	946	565	680	315
315L	505	450	250	473	946	565	680	315
355	505	450	250	473	946	565	680	355
400	505	450	250	473	946	565	680	400

VENTILATION ACCESSORIES

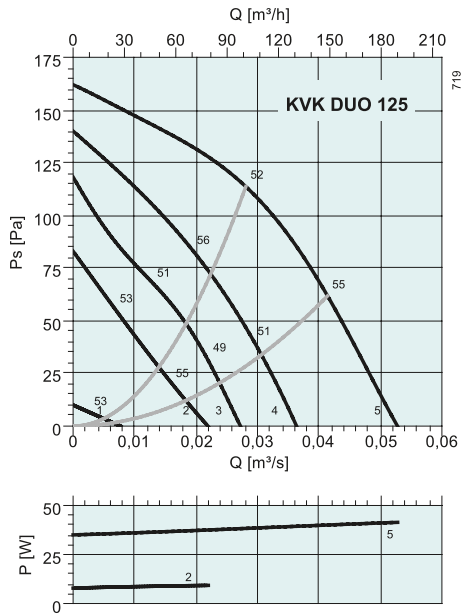


KVK DUO		355	400			
Art no.		5774	5775			
Voltage/Frequency	V/50 Hz	230 1~	230 1~			
Power	W	614	603			
Current	A	2.69	2.64			
Max air flow	m ³ /s	0.72	0.73			
R.p.m.	min ⁻¹	1220	1186			
Max temp. of transported air	°C	40	40			
" when speed controlled	°C	40	40			
Sound pressure level at 3 m	dB(A)	36	39			
Weight	kg	67	72			
Insulation class, motor	B	B				
Enclosure class, motor	IP 54	IP 54				
Capacitor	μ F	20	20			
Motor protection	S-ET 10	S-ET 10				
Speed control, five-step	Transformer	RTRE 3	RTRE 3			
Speed control, five step high/low	Transformer	REU 3*	REU 3*			
Speed control, stepless	Thyristor	REE 4*	REE 4*			
Wiring diagram p. 391-400		5	5			

* + S-ET 10

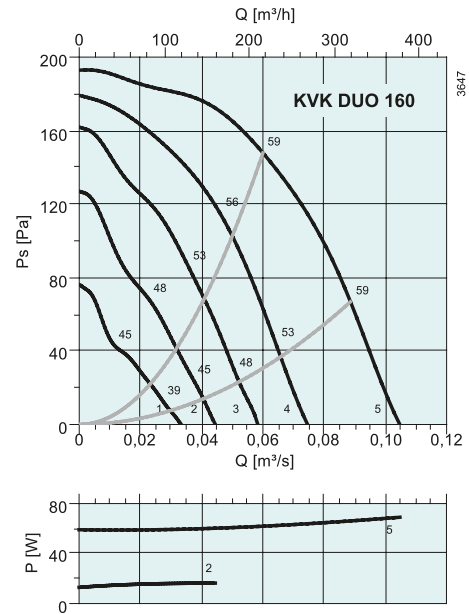
Circular duct fans

PERFORMANCE



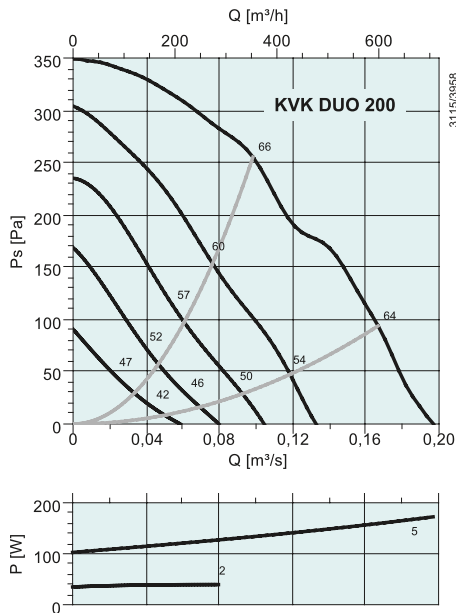
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	52	49	47	41	40	38	33	26	25
L _{WA} Outlet	61	46	53	53	54	53	53	46	38
L _{WA} Surrounding	36	30	32	24	25	26	17	18	19
With LDC 125-900									
L _{WA} Inlet	47	45	43	29	7	0	0	0	8
L _{WA} Outlet	50	42	49	41	21	8	3	16	21

Measurement point: 0,0281 m³/s; 114 Pa



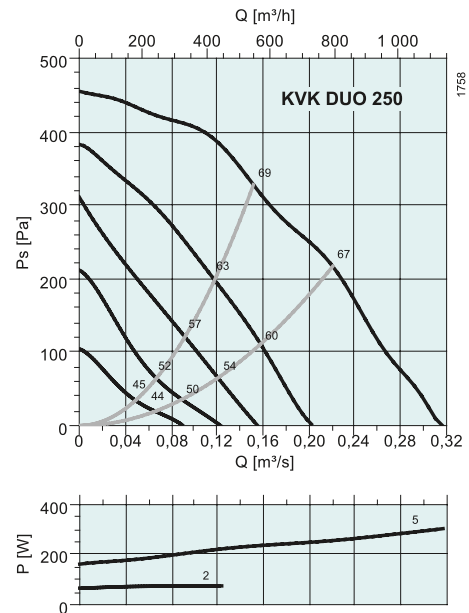
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	59	39	56	55	52	45	39	33	26
L _{WA} Outlet	68	49	57	62	64	60	59	54	48
L _{WA} Surrounding	44	6	32	42	40	30	22	20	12
With LDC 160-900									
L _{WA} Inlet	53	37	52	45	24	3	0	13	11
L _{WA} Outlet	56	47	53	52	36	18	16	34	33

Measurement point: 0,06 m³/s; 148 Pa



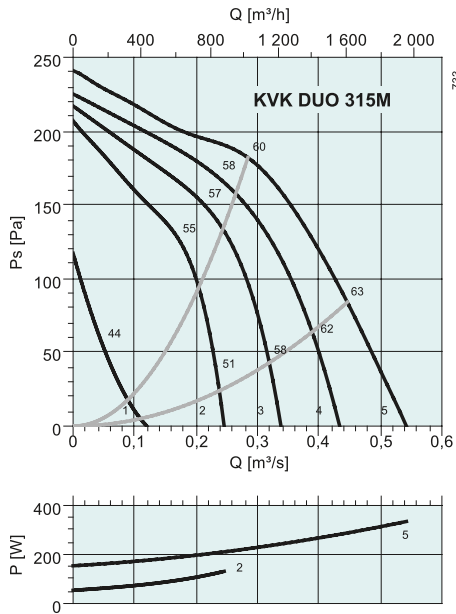
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	66	47	63	59	58	55	48	41	35
L _{WA} Outlet	73	59	63	66	67	66	66	61	54
L _{WA} Surrounding	47	19	38	43	42	35	31	26	19
With LDC 200-900									
L _{WA} Inlet	60	45	59	51	34	23	14	28	25
L _{WA} Outlet	63	57	59	58	43	34	32	48	44

Measurement point: 0,0983 m³/s; 255 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	69	50	67	62	59	53	50	46	40
L _{WA} Outlet	77	62	68	67	69	69	71	67	62
L _{WA} Surrounding	49	22	42	45	45	37	32	27	23
With LDC 250-900									
L _{WA} Inlet	64	47	63	54	39	27	27	36	32
L _{WA} Outlet	67	59	64	59	49	43	48	57	54

Measurement point: 0,152 m³/s; 328 Pa

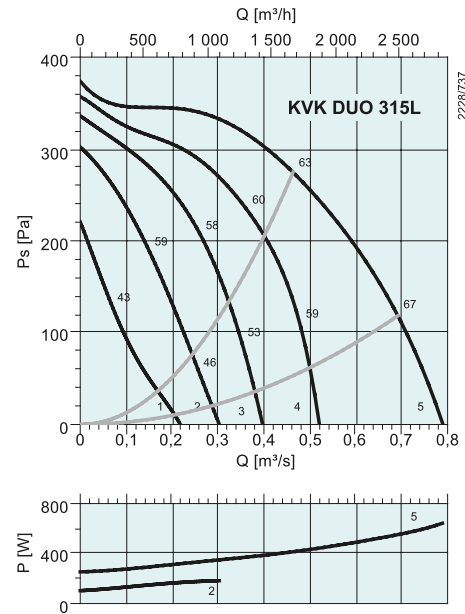


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	60	55	56	51	42	42	41	39	36
L _{WA} Outlet	71	59	63	57	63	66	62	59	57
L _{WA} Surrounding	42	36	35	35	33	30	27	22	17

With LDC 315-900

L _{WA} Inlet	57	54	53	44	26	20	29	33	29
L _{WA} Outlet	63	58	60	50	47	44	50	53	50

Measurement point: 0,284 m³/s; 182 Pa

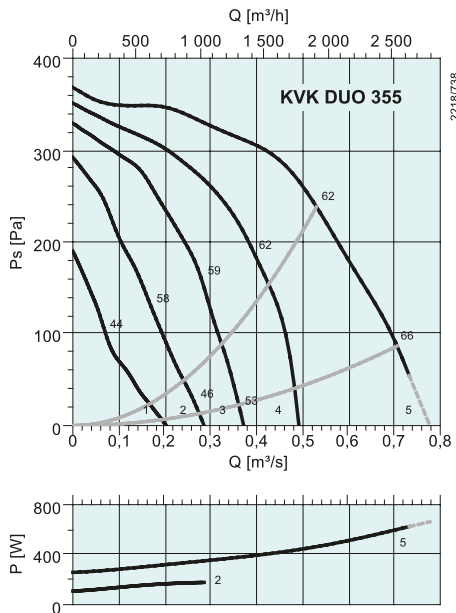


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	63	61	55	51	45	46	43	40	38
L _{WA} Outlet	73	59	61	61	64	68	66	63	59
L _{WA} Surrounding	43	31	35	36	37	35	33	29	26

With LDC 315-900

L _{WA} Inlet	61	60	52	44	29	24	31	34	31
L _{WA} Outlet	64	58	58	54	48	46	54	57	52

Measurement point: 0,463 m³/s; 275 Pa

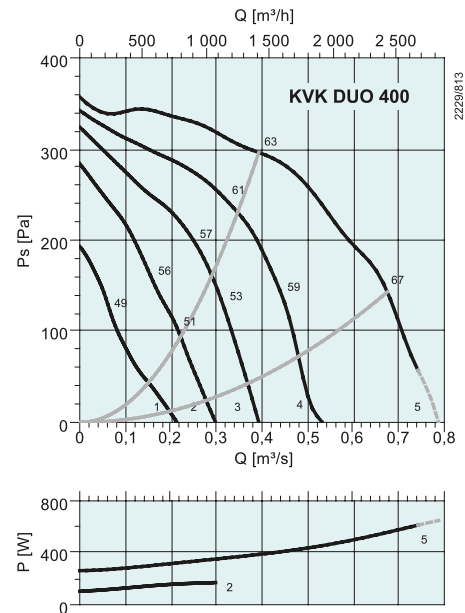


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	62	60	55	51	44	46	43	40	38
L _{WA} Outlet	72	58	60	60	64	68	66	63	59
L _{WA} Surrounding	43	31	35	36	37	35	33	29	26

With LDC 355-900

L _{WA} Inlet	61	60	52	45	31	28	33	34	31
L _{WA} Outlet	64	58	57	54	51	50	56	57	52

Measurement point: 0,531 m³/s; 238 Pa



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 m³/s; 296 Pa