



KVKE EC

- EC-motors, high level of efficiency
- 100% speed controllable
- Low sound level
- Integrated motor protection
- Potentiometer included for ease of commissioning

EC technology is intelligent technology; using integral electronic control which eliminates the slip losses in the motor and ensures that the motor always runs at optimal load and guarantees that the proportion of energy utilised effectively is many times higher and that the energy usage is considerably lower compared to AC motors.

Another special feature of EC fans is their energy-saving potential not only at full load, but especially at part-load. When operating at part-load, the energy used is much lower than with an asynchronous motor of equivalent output.

Reduced energy usage guarantees a drop in operating costs.

The KVKE EC models have a single inlet centrifugal fan with backward-curved blades and a maintenance-free external rotor motor (EC). These fans develop relatively high static pressure and have a very high efficiency. The fans are delivered with a pre-wired potentiometer (0-10V) which allows you to easily set the desired working point.

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. Motor protection is integrated in the electronics of the motor. 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 airstream.

By using an EC fan you eliminate the need for an electrical protection unit and speed controller. This should be considered when doing a cost comparison with a standard AC fan model. It also simplifies the process when commissioning.

ELECTRICAL ACCESSORIES



MTP 10
p. 341



EC-Vent
p. 329-330

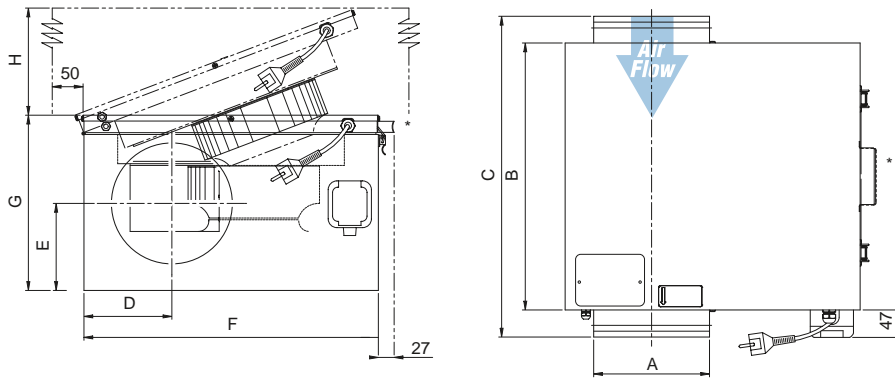


MTV 1/010
p. 341

TECHNICAL DATA

KVKE		125 EC	160 EC	200 EC	250 EC	315 EC
Art no.		2570	2571	2575	2577	2578
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	68.7	67.7	156	265	308
Current	A	0.536	0.531	1.10	1.64	1.89
Max air flow	m ³ /s	0.104	0.151	0.24	0.321	0.492
R.p.m.	min ⁻¹	3339	2592	3033	2821	2215
Max temp. of transported air	°C	60	60	60	55	45
" when speed controlled	°C	60	60	60	55	45
Sound pressure level at 3 m	dB(A)	41	39	46	49	47
Weight	kg	13.2	17	18.8	28.1	38.8
Insulation class, motor		B	B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44	IP 44
Motor protection		Integral	Integral	Integral	Integral	Integral
Speed control	Electronic	MTP	MTP	MTP	MTP	MTP
Wiring diagram p. 391-400		42	42	42	42	42

DIMENSIONS



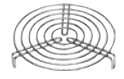
	A	B	C	D	E	F	G	H
KVKE 125 EC	125	433	479	125	128,5	442	246	470
KVKE 160 EC	160	482	528	145,5	132,5	505	266	530
KVKE 200 EC	200	482	534	150,5	149	505	303	530
KVKE 250 EC	250	578	700	176	174	596	359	620
KVKE 315 EC	315	680	802	208.5	207.5	705.5	430	730

* Handle 315M/L

VENTILATION ACCESSORIES



FK p. 355



SG p. 357



VK p. 356



IGK p. 357



RSK p. 355



LDC p. 348

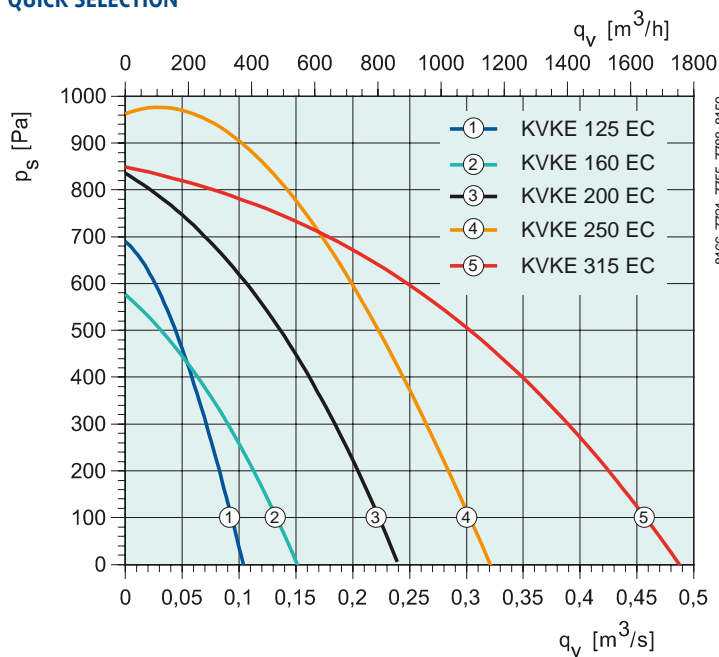


FFR p. 349



CB p. 350

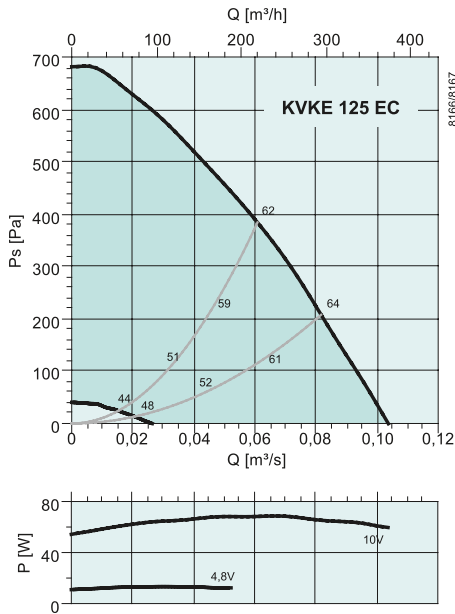
QUICK SELECTION



Circular duct fans



PERFORMANCE

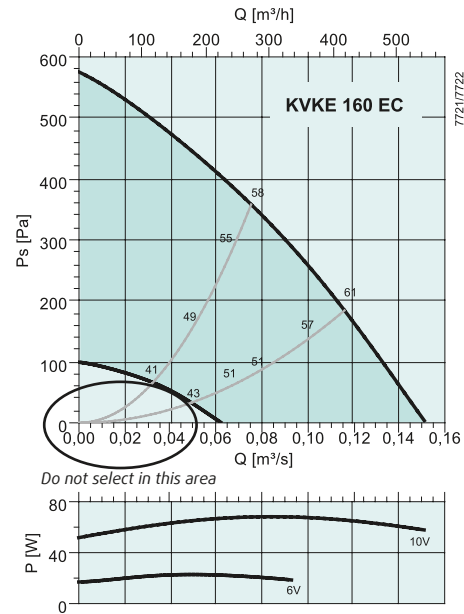


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	60	46	57	56	50	45	40	37	35
L _{WA} Outlet	76	54	63	69	71	69	66	60	46
L _{WA} Surrounding	48	18	40	41	43	40	38	35	32

With LDC 125-900

L _{WA} Inlet	54	42	53	44	17	0	0	7	18
L _{WA} Outlet	61	50	59	57	38	24	16	30	29

Measurement point: 0,0608 m³/s; 384 Pa

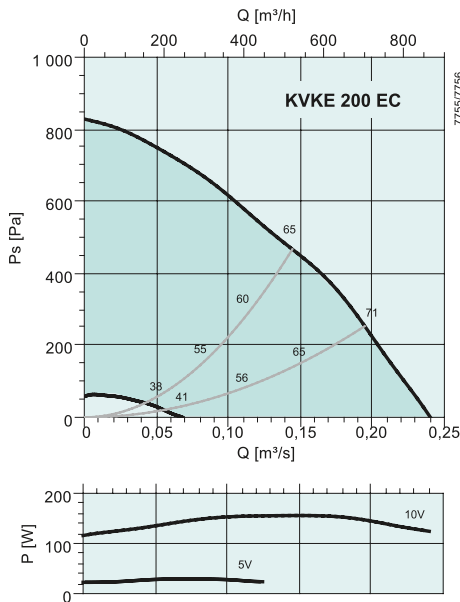


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	57	42	54	49	47	44	47	40	33
L _{WA} Outlet	72	50	59	62	68	65	62	55	42
L _{WA} Surrounding	46	19	39	36	39	34	39	36	28

With LDC 160-900

L _{WA} Inlet	51	40	50	39	19	2	4	20	18
L _{WA} Outlet	57	48	55	52	40	23	19	35	27

Measurement point: 0,0753 m³/s; 358 Pa

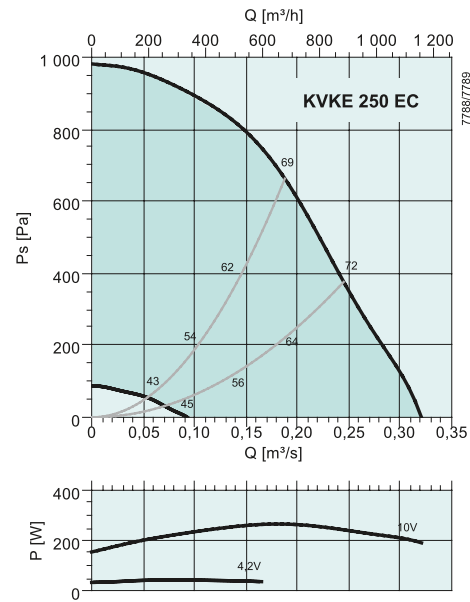


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	64	52	59	60	56	53	50	47	45
L _{WA} Outlet	80	57	64	72	76	74	71	64	53
L _{WA} Surrounding	53	27	43	49	49	40	39	39	35

With LDC 200-900

L _{WA} Inlet	58	50	55	52	32	21	16	34	35
L _{WA} Outlet	66	55	60	64	52	42	37	51	43

Measurement point: 0,144 m³/s; 467 Pa

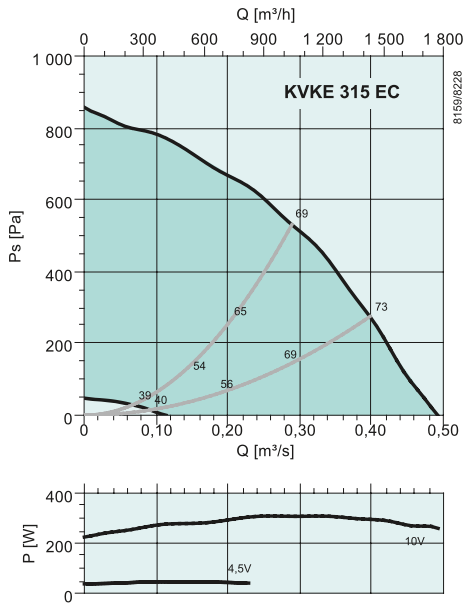


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	67	53	64	60	59	54	48	46	40
L _{WA} Outlet	83	64	70	72	80	76	75	66	56
L _{WA} Surrounding	56	32	49	50	53	42	39	35	26

With LDC 250-900

L _{WA} Inlet	61	50	60	52	39	28	25	36	32
L _{WA} Outlet	70	61	66	64	60	50	52	56	48

Measurement point: 0,188 m³/s; 663 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	66	53	64	61	51	49	45	41	36
L _{WA} Outlet	85	62	71	83	75	72	67	62	54
L _{WA} Surrounding	54	36	48	52	44	40	36	32	26
With LDC 315-900									
L _{WA} Inlet	62	52	61	54	35	27	33	35	29
L _{WA} Outlet	77	61	68	76	59	50	55	56	47
Measurement point: 0,289 m³/s; 530 Pa									