

Circular duct fans



K EC

- EC-motors, high level of efficiency
- 100% speed controllable
- Integrated motor protection
- Supplied with mounting bracket

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 K EC series is designed for installation in ducts. All the K fans have minimum 25 mm long spigot connections. The fans have backward-curved blades and external rotor motors (EC). The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans are delivered with a pre-wired potentiometer (0-10V) which allows you to easily set the desired working point.

Motor protection is integrated in the electronics of the motor. The casing is manufactured from galvanised sheet steel with the seams folded to give the fan a close to air tight casing. Outdoor mounting and wet room applications are possible due to the fans air tight casing.

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

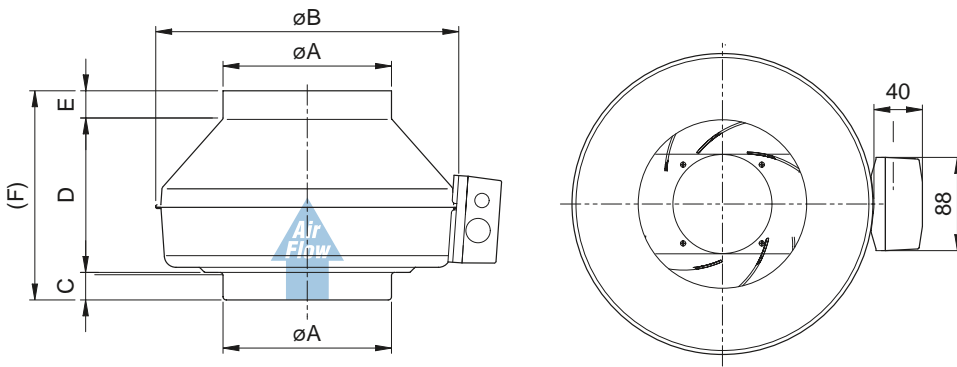


MTV 1/010
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TECHNICAL DATA

K		160 EC	200 EC	250 EC	315 M EC	315 L EC
Art no.		2580	2581	2583	2584	2585
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~
Power	W	79.4	78.6	120	166	340
Current	A	0.628	0.626	0.921	1.14	2.08
Max air flow	m ³ /s	0.151	0.215	0.287	0.393	0.481
R.p.m.	min ⁻¹	3105	2468	2628	2113	2719
Max temp. of transported air	°C	60	60	40	40	55
" when speed controlled	°C	60	60	40	40	55
Sound pressure level at 3 m	dB(A)	47	51	46	50	57
Weight	kg	3	3.3	3.5	6	7.2
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, stepless	Electronic	MTP 10	MTP 10	MTP 10	MTP 10	MTP 10
Wiring diagram p. 391-400		41	41	41	41	41

DIMENSIONS

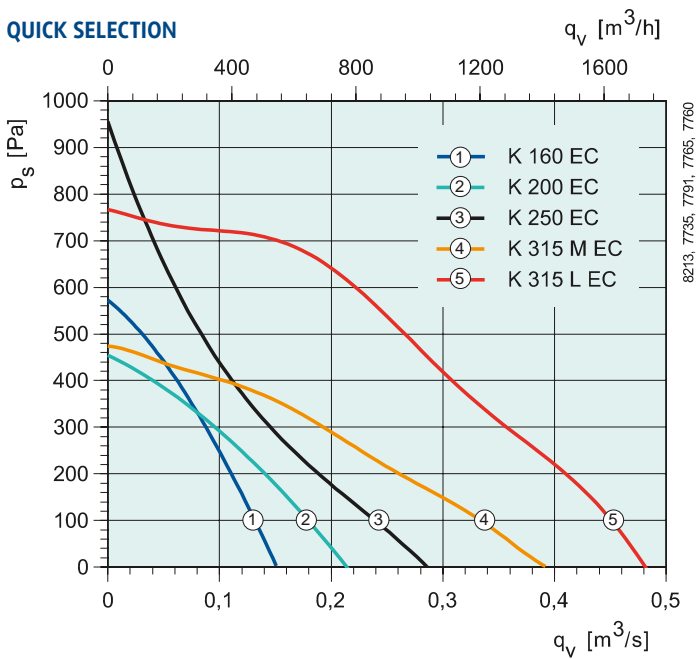


	A	B	C	D	E	(F)
K 160 EC	159	286	25	147	26	198
K 200 EC	199	336	30	148	27	205
K 250 EC	249	336	30.5	144.5	27	202
K 315 M EC	314	408	32.5	160.5	27	220
K 315 L EC	314	408	37.5	160.5	27	225

VENTILATION ACCESSORIES

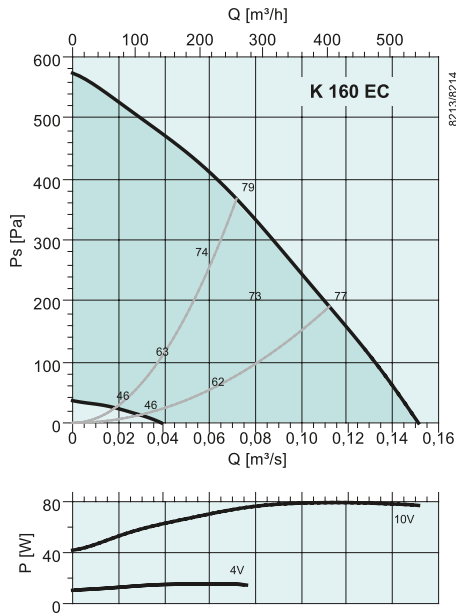
-  FK p. 355
-  SG p. 357
-  VK p. 356
-  RSK p. 355
-  LDC p. 348
-  FFR p. 349
-  CB p. 350

QUICK SELECTION



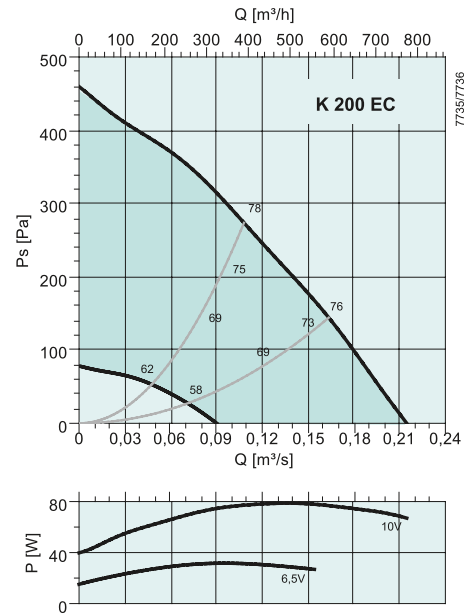


PERFORMANCE



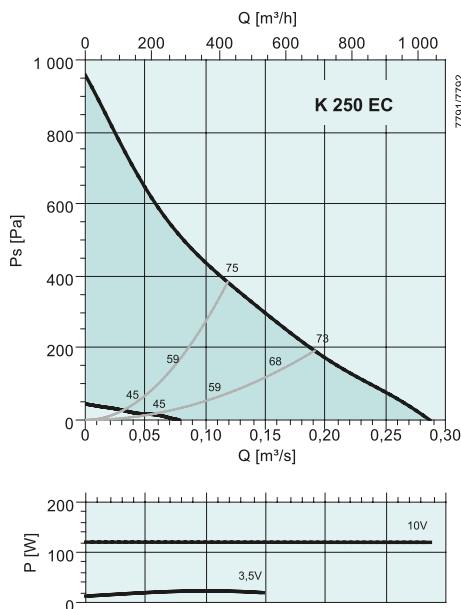
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Duct	78	53	72	73	73	69	66	56	46
L _{WA} Surrounding	54	22	28	39	50	48	47	40	29
With LDC 160-900									
L _{WA} Duct	69	51	68	63	45	27	23	36	31

Measurement point: 0,0717 m³/s; 367 Pa



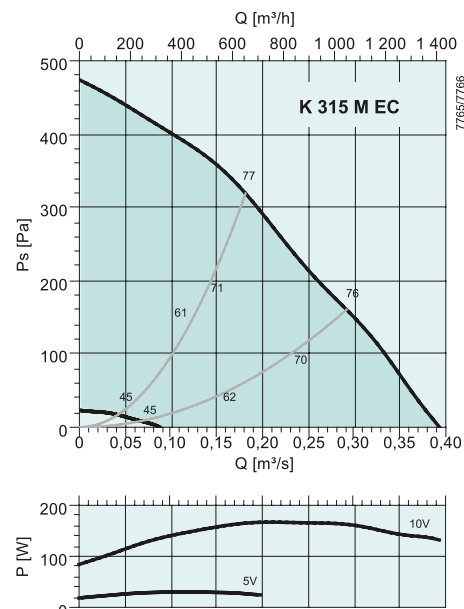
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Duct	77	51	70	68	73	68	63	55	47
L _{WA} Surrounding	58	24	38	45	57	50	45	39	29
With LDC 200-900									
L _{WA} Duct	67	49	66	60	49	36	29	42	37

Measurement point: 0,108 m³/s; 274 Pa



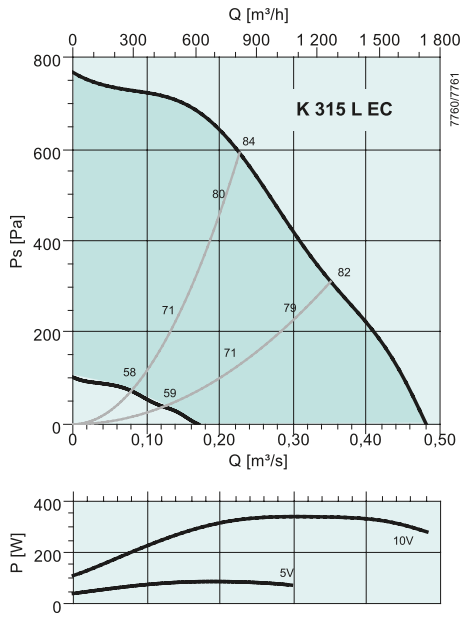
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Duct	74	52	65	68	68	66	61	53	43
L _{WA} Surrounding	53	16	36	40	50	46	44	34	23
With LDC 250-900									
L _{WA} Duct	64	49	61	60	48	40	38	43	35

Measurement point: 0,119 m³/s; 383 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Duct	76	53	70	67	70	69	65	65	60
L _{WA} Surrounding	57	24	33	48	52	49	50	48	36
With LDC 315-900									
L _{WA} Duct	69	52	67	60	54	47	53	59	53

Measurement point: 0,181 m³/s; 319 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Duct	82	67	74	74	78	75	71	69	67
L_{WA} Surrounding	64	47	45	58	61	54	54	52	44
With LDC 315-900									
L_{WA} Duct	74	66	71	67	62	53	59	63	60

Measurement point: 0,227 m^3/s ; 591 Pa