

## Mixed flow fans

### KD 200-315



- High efficiency – low noise
- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Maintenance-free and reliable

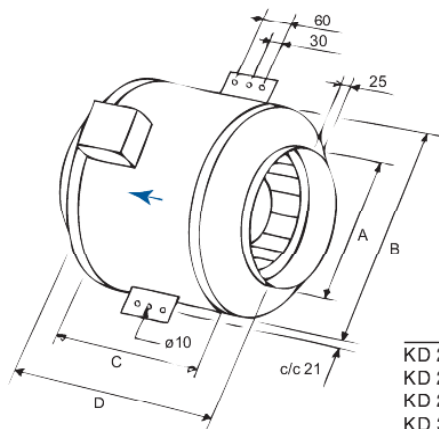
The KD series have external rotor motors with a new type of mixed flow impeller which reduces the external dimensions of the fans. These fans have a high capacity in relation to their compact design.

Brackets are supplied with the fans to make installation easier. The FK mounting clamp facilitates easy installation and removal and prevents the transfer of vibrations to the duct.

To protect the motor from overheating the KD fans have integral thermal contacts with electrical reset. The casing is manufactured from powder-coated galvanised sheet steel.

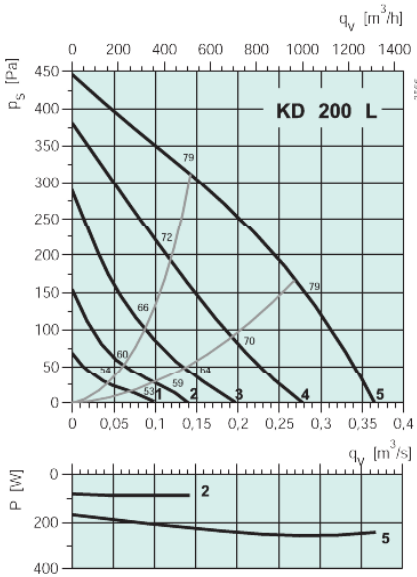
KD		200 L	250 M	250 L	315 L
Voltage/Frequency	V/50 Hz	230	230	230	230
Phase	~	1	1	1	1
Power	W	257	254	370	372
Current	A	1,14	1,13	1,61	1,62
Maximum air flow	m <sup>3</sup> /s (m <sup>3</sup> /h)	0,37 (1320)	0,40 (1425)	0,55 (1985)	0,59 (2135)
R.p.m.	min <sup>-1</sup>	2562	2572	2604	2595
Max. temp. of transported air	°C	55	55	70	70
" when speed-controlled	°C	45	45	70	70
Sound pressure level at 3 m *	dB(A)	53	54	55	54
Weight	kg	7	7	10	9
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44
Capacitor	µF	6	6	10	10
Motor protection		Integral	Integral	Integral	Integral
Speed control, five-step	Transformer	RE 1,5	RE 1,5	RE 3	RE 3
Speed control, five-step high/low	Transformer	REU 1,5	REU 1,5	REU 3	REU 3
Speed control, stepless	Thyristor	REE 2	REE 2	REE 2	REE 2
Wiring diagram p. 11-17		2	2	2	2

\* According to 20 m<sup>2</sup> Sabine



	A	B	C	D
KD 200 L	200	315	180	370
KD 250 M	250	315	180	310
KD 250 L	250	355	205	385
KD 315 L	315	355	205	305

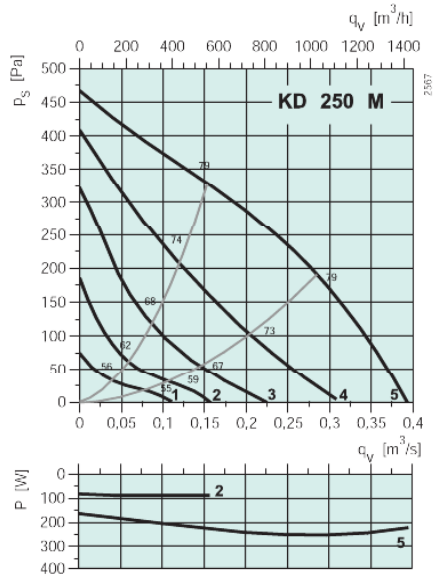
# Mixed flow fans



**KD 200L**

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L <sub>wA</sub>	Inlet	dB(A)	79	60	70	72	76	70	64	63	57
L <sub>wA</sub>	Outlet	dB(A)	84	55	70	76	76	75	78	75	73
L <sub>wA</sub>	Surrounding	dB(A)	60	26	26	45	55	56	53	48	38
<b>With LDC 200-900</b>											
L <sub>wA</sub>	Inlet	dB(A)	69	58	66	64	52	38	30	50	47
L <sub>wA</sub>	Outlet	dB(A)	72	53	66	68	52	43	44	62	63

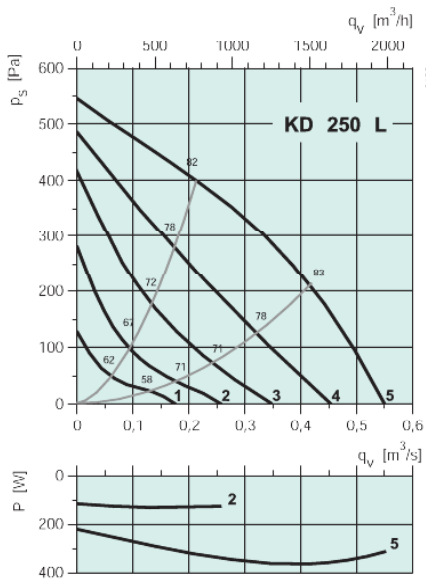
Measuring point:  $q_v = 0,2 \text{ m}^3/\text{s}$ ,  $P_s = 256 \text{ Pa}$



**KD 250 M**

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L <sub>wA</sub>	Inlet	dB(A)	79	55	67	70	76	72	66	65	61
L <sub>wA</sub>	Outlet	dB(A)	79	55	70	72	74	72	71	65	58
L <sub>wA</sub>	Surrounding	dB(A)	61	22	27	42	56	56	53	50	43
<b>With LDC 250-900</b>											
L <sub>wA</sub>	Inlet	dB(A)	67	52	63	62	56	46	43	55	53
L <sub>wA</sub>	Outlet	dB(A)	69	52	66	64	54	46	48	55	50

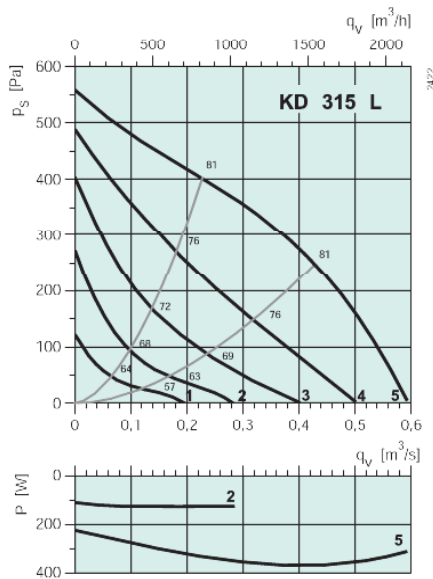
Measuring point:  $q_v = 0,23 \text{ m}^3/\text{s}$ ,  $P_s = 261 \text{ Pa}$



**KD 250 L**

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L <sub>wA</sub>	Inlet	dB(A)	82	55	73	76	78	74	71	71	64
L <sub>wA</sub>	Outlet	dB(A)	82	57	71	72	76	73	76	70	63
L <sub>wA</sub>	Surrounding	dB(A)	62	28	34	43	61	49	47	50	37
<b>With LDC 250-900</b>											
L <sub>wA</sub>	Inlet	dB(A)	72	52	69	68	58	48	48	61	56
L <sub>wA</sub>	Outlet	dB(A)	70	54	67	64	56	47	53	60	55

Measuring point:  $q_v = 0,34 \text{ m}^3/\text{s}$ ,  $P_s = 296 \text{ Pa}$



**KD 315 L**

		Mid-frequency band, Hz									
		Hz	Tot	63	125	250	500	1k	2k	4k	8k
L <sub>wA</sub>	Inlet	dB(A)	80	58	69	71	75	75	71	69	67
L <sub>wA</sub>	Outlet	dB(A)	81	54	68	70	73	75	76	71	65
L <sub>wA</sub>	Surrounding	dB(A)	61	32	36	44	60	50	47	48	40
<b>With LDC 315-900</b>											
L <sub>wA</sub>	Inlet	dB(A)	71	57	66	64	59	52	59	63	60
L <sub>wA</sub>	Outlet	dB(A)	72	53	65	63	57	53	64	65	58

Measuring point:  $q_v = 0,36 \text{ m}^3/\text{s}$ ,  $P_s = 312 \text{ Pa}$