Mixed flow fans

KD 315-355

- 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.

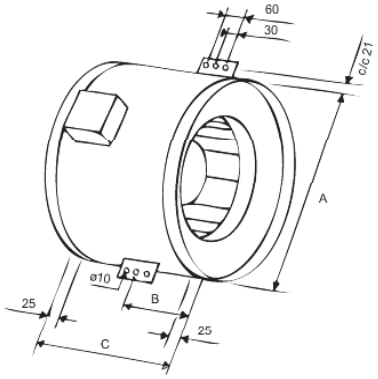
Brackets are supplied with the fans to make installation easier. The FK mounting clamp facilitates easy installation and removal and prevents the transfer of vibrations to the duct.

To protect the motor from overheating the KD fans have integral thermal contacts with electrical reset. KD 315XL has integral thermal contacts with leads for connection to a motor protection device. The casing is manufactured from powder-coated galvanised sheet steel.

KD		315 M	355 S	315 XL	355 M
Voltage/Frequency	V/50 Hz	230	230	230	230
Phase	~	1	1	1	1
Power	W	252	371	276	275
Current	A	1,12	1,61	1,29	1,30
Maximum air flow	m^3/s (m^3/h)	0,39 (1415)	0,60 (2152)	0,77 (2765)	0,85 (3056)
R.p.m.	min^{-1}	2573	2597	1375	1375
Max. temp. of transported air	°C	55	70	70	70
" when speed-controlled	°C	45	70	70	70
Sound pressure level at 3 m *	dB(A)	59	53	52	50
Weight	kg	7	9	16	15
Insulation class, motor		F	F	B	F
Enclosure class, motor		IP 44	IP 44	IP 54	IP 54
Capacitor	µF	6	10	6	6
Motor protection		Integral	Integral	S-ET 10	Integral
Speed control, five-step	Transformer	RE 1,5	RE 3	RTRE 3	RE 1,5
Speed control, five-step high/low	Transformer	REU 1,5	REU 3	REU + S-ET 10	REU 1,5
Speed control, stepless	Thyristor	REE 2	REE 2	REE 2 + S-ET 10	REE 2
Wiring diagram p. 11-17		2	2	6	6

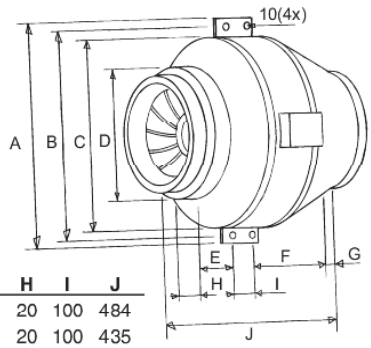
** According to 20 m² Sabine*

KD 315 M, KD 355 S

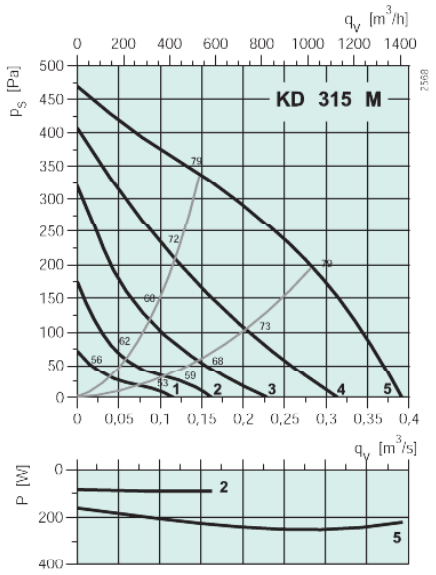


	A	B	C
KD 315 M	315	90	180
KD 355 S	355	102,5	205

KD 315 XL, KD 355 M



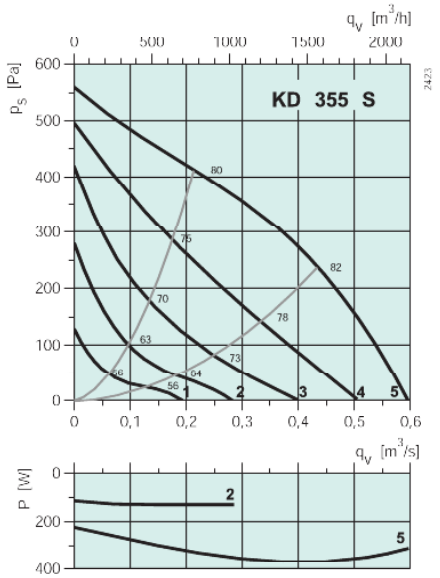
	A	B	C	D	E	F	G	H	I	J
KD 315 XL	540	518	455	315	114	168	49	20	100	484
KD 355 M	540	518	455	355	78	133	35	20	100	435



KD 315 M

		Hz	Tot	63	125	250	500	1k	2k	4k	8k
			Mid-frequency band, Hz								
L_{wA} Inlet	dB(A)		79	54	64	68	76	73	68	66	62
L_{wA} Outlet	dB(A)		81	59	69	70	76	75	74	67	60
L_{wA} Surrounding	dB(A)		66	32	33	41	65	50	46	45	40
With LDC 315-900											
L_{wA} Inlet	dB(A)		68	53	63	61	60	51	55	60	55
L_{wA} Outlet	dB(A)		71	58	67	65	60	53	62	61	53

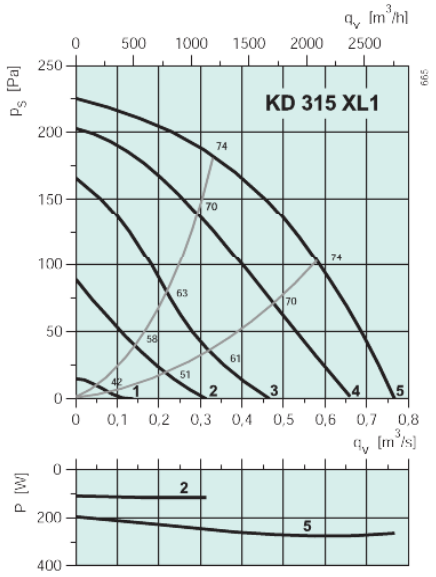
Measuring point: q_v = 0,23 m³/s, P_s = 263 Pa



KD 355 S

		Hz	Tot	63	125	250	500	1k	2k	4k	8k
			Mid-frequency band, Hz								
L_{wA} Inlet	dB(A)		80	56	69	70	75	74	72	70	68
L_{wA} Outlet	dB(A)		83	57	69	69	76	77	78	72	66
L_{wA} Surrounding	dB(A)		60	32	32	39	59	49	48	49	40
With LDC 355-900											
L_{wA} Inlet	dB(A)		72	56	66	64	62	56	62	64	61
L_{wA} Outlet	dB(A)		73	57	66	63	63	59	68	66	59

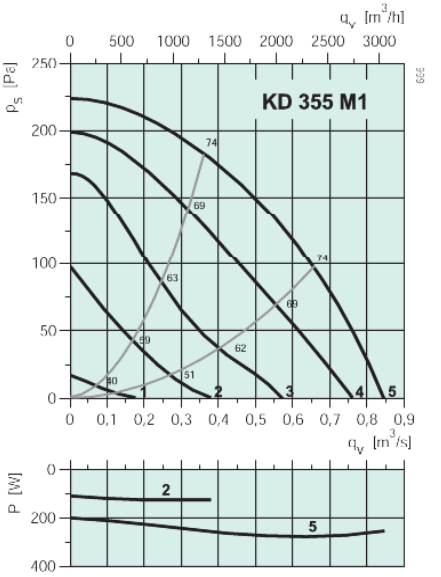
Measuring point: q_v = 0,37 m³/s, P_s = 305 Pa



KD 315 XL1

		Hz	Tot	63	125	250	500	1k	2k	4k	8k
			Mid-frequency band, Hz								
L_{wA} Inlet	dB(A)		74	60	63	68	70	68	61	56	46
L_{wA} Outlet	dB(A)		75	59	69	66	68	69	66	56	48
L_{wA} Surrounding	dB(A)		59	33	42	51	52	55	52	38	27
With LDC 315-900											
L_{wA} Inlet	dB(A)		66	59	60	62	54	46	49	50	39
L_{wA} Outlet	dB(A)		69	58	66	59	52	47	54	50	40

Measuring point: q_v = 0,48 m³/s, P_s = 143 Pa



KD 355 M1

		Hz	Tot	63	125	250	500	1k	2k	4k	8k
			Mid-frequency band, Hz								
L_{wA} Inlet	dB(A)		73	62	65	67	66	65	61	56	46
L_{wA} Outlet	dB(A)		75	57	69	66	68	70	65	56	48
L_{wA} Surrounding	dB(A)		57	40	40	48	51	52	49	38	27
With LDC 355-900											
L_{wA} Inlet	dB(A)		67	62	62	61	53	47	51	50	39
L_{wA} Outlet	dB(A)		69	57	66	60	55	52	55	50	41

Measuring point: q_v = 0,52 m³/s, P_s = 145 Pa