

Circular duct fans



KD

- 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 mixed flow impeller which reduces the external dimensions of the fans. These fans have high flow 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 vibration to the duct. To protect the motor from overheating KD 200 L1, 250 M, 315 M1, 315 L1 and and 355 S1 have integral thermal contacts with electrical reset, and the remaining sizes have integral thermal contacts with leads to a motor protection device. The casing is manufactured from galvanised sheet steel.

ELECTRICAL ACCESSORIES



S-ET p. 341



RTRE p. 320



RE p. 320

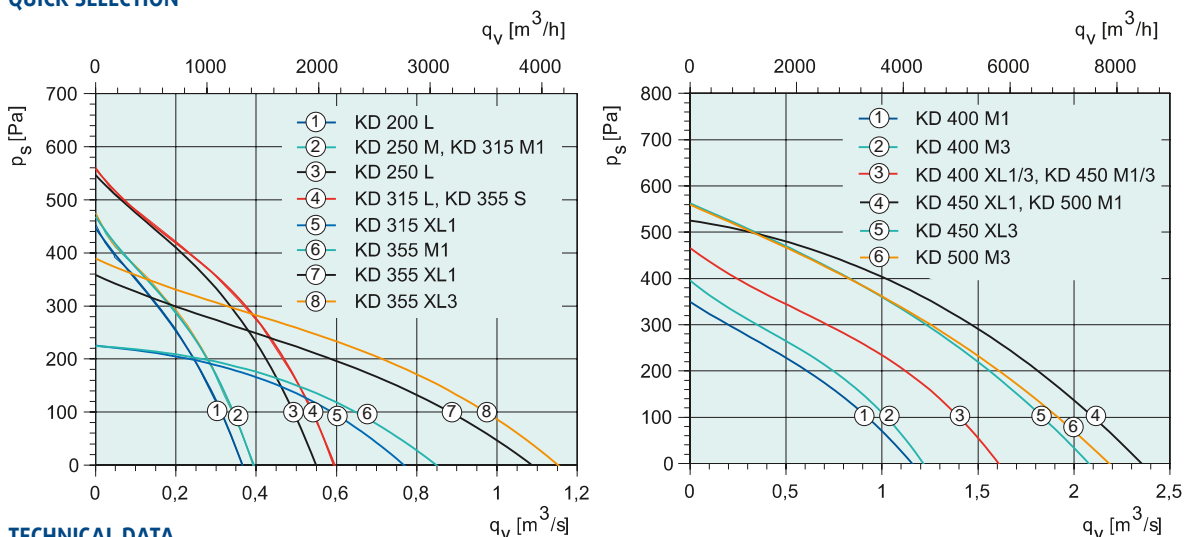


REU p. 320



REE p. 321

QUICK SELECTION

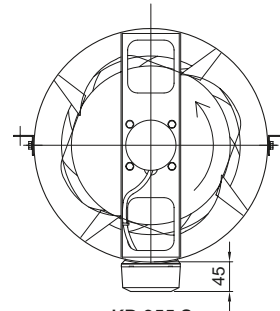
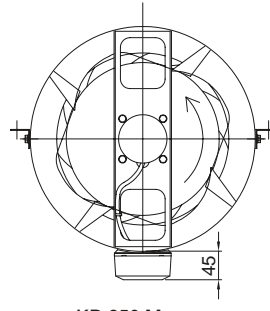
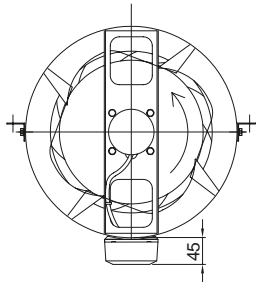
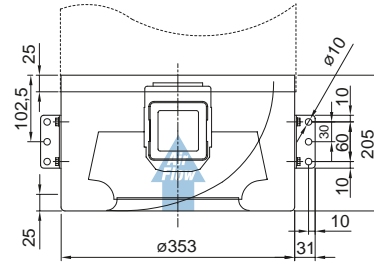
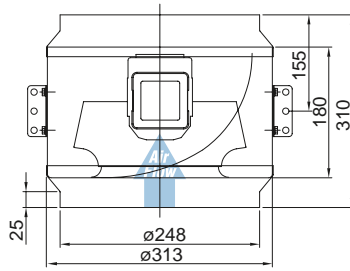
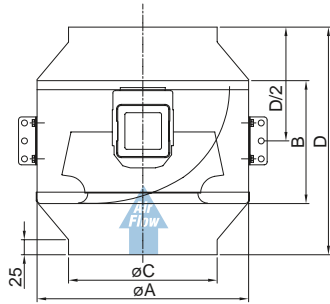


TECHNICAL DATA

KD		200 L	250 M	250 L	315 M	315 L	315 XL	355 S	355 M	355 XL1	355 XL3
Art no.		1284	1285	1286	1287	1288	1289	1291	1292	1294	1296
Voltage/Frequency	V/50 Hz	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	400 3~
Power	W	257	254	369	252	372	276	371	275	431	451
Current	A	1.14	1.13	1.60	1.12	1.62	1.29	1.61	1.30	1.90	0.96
Max air flow	m ³ /s	0.37	0.40	0.55	0.39	0.59	0.77	0.60	0.85	1.10	1.16
R.p.m.	min ⁻¹	2562	2572	2604	2573	2595	1375	2597	1375	1309	1399
Max temp. of transported air	°C	55	55	70	55	70	70	70	70	70	70
" when speed controlled	°C	46	46	70	46	70	70	70	70	70	70
Sound pressure level at 3 m	dB(A)	53	54	55	59	54	52	54	50	56	58
Weight	kg	7	6.5	9.5	5.5	9	15.5	8	15	20.5	18
Insulation class, motor	F	F	F	F	F	F	B	F	B	F	F
Enclosure class, motor	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 54	IP 44	IP 54	IP 54	IP 54
Capacitor	µF	6	6	10	6	10	6	10	6	10	-
Motor protection	Integral	Integral	Integral	Integral	Integral	Integral	S-ET 10	Integral	S-ET 10	S-ET 10	STDT 16
Speed control, five-step	Transformer	RE 1.5	RE 1.5	RE 3	RE 1.5	RE 3	RTRE 3	RE 3	RTRE 1.5	RTRE 3	RTRD 2
Speed control, five step high/low	Transformer	REU 1.5	REU 1.5	REU 3	REU 1.5	REU 3	REU 1.5*	REU 3	REU 1.5*	REU 3*	RTRDU 2
Speed control, stepless	Thyristor	REE 2	REE 2	REE 2	REE 2	REE 2	REE 2*	REE 2	REE 2*	REE 4*	-
Wiring diagram p. 391-400		2	2	2	2	2	6	2	6	6	8

*+ S-ET 10

DIMENSIONS

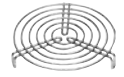


KD	A	B	C	D
250 L	353	205	248	385
315 L	353	205	313	305
315 XL	455	-	315	484
355 M	455	-	355	435
355 XL	503	-	355	516
400 M	503	-	400	480
400 XL	560	-	400	602
450 M	560	-	450	559
450 XL	560	-	450	742
500 M	717	-	500	699

VENTILATION ACCESSORIES



FK p. 355



SG p. 357



VK p. 356



RSK p. 355



LDC p. 348



FFR p. 349



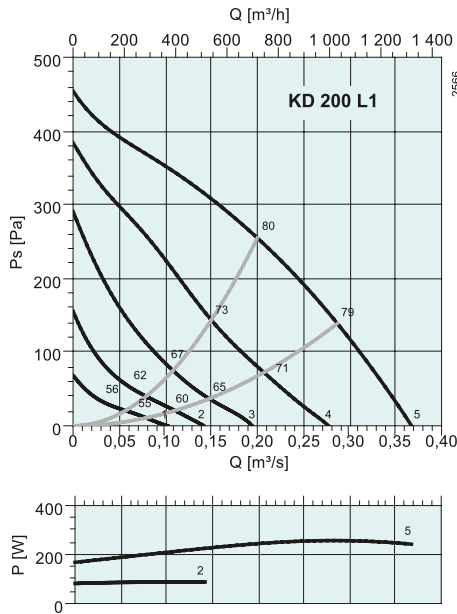
CB p. 350

KD		400 M1	400 M3	400 XL1	400 XL3	450 M1	450 M3	450 XL1	450 XL3	500 M1	500 M3
Art no.		1297	1300	1301	1302	1303	1304	1305	1307	1309	1310
Voltage/Frequency	V/50 Hz	230 1~	400 3~	230 1~	400 3~	230 1~	400 3~	230 1~	400 3~	230 1~	400 3~
Power	W	432	456	855	792	857	778	1392	1246	1386	1243
Current	A	1.90	0.952	4.24	1.53	4.21	1.53	6.16	2.22	6.12	2.20
Max air flow	m ³ /s	1.16	1.22	1.62	1.65	1.60	1.64	2.35	2.07	2.37	2.18
R.p.m.	min ⁻¹	1307	1397	1298	1304	1308	1307	1289	1325	1290	1315
Max temp. of transported air	°C	70	70	65	67	65	70	60	61	62	62
" when speed controlled	°C	70	70	65	67	65	70	60	30	57	51
Sound pressure level at 3 m	dB(A)	54	57	64	61	61	63	61	61	64	65
Weight	kg	19.5	17.5	28.5	25.5	28	25.5	36.5	35	39	34.5
Insulation class, motor		F	F	F	F	F	F	F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Capacitor	µF	10	-	16	-	16	-	30	-	30	-
Motor protection		S-ET 10	STDT 16	S-ET 10	STDT 16	S-ET 10	STDT 16	S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control, five-step	Transformer	RTRE 3	RTRD 2	RTRE 5	RTRD 2	RTRE 5	RTRD 2	RTRE 7	RTRD 4	RTRE 7	RTRD 4
Speed control, five step high/low	Transformer	REU 3*	RTRDU 2	REU 5*	RTRDU 2	REU 5*	RTRDU 2	REU 7*	RTRDU 4	REU 7*	RTRDU 4
Speed control, stepless	Thyristor	REE 4*	-	-	-	REE 2*	-	-	-	-	-
Wiring diagram p. 391-400		6	8	6	8	6	8	6	8	6	8

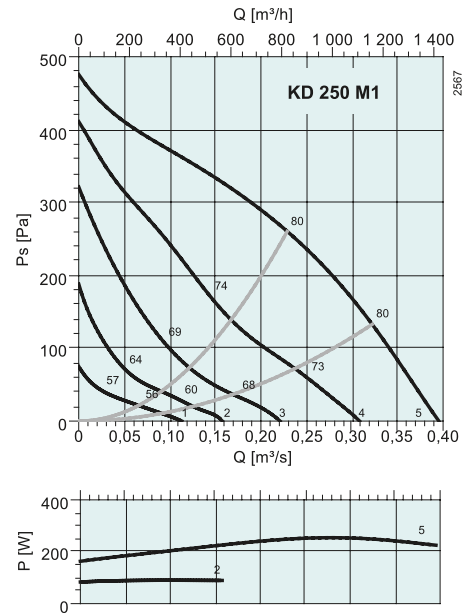
*+ S-ET 10

Circular duct fans

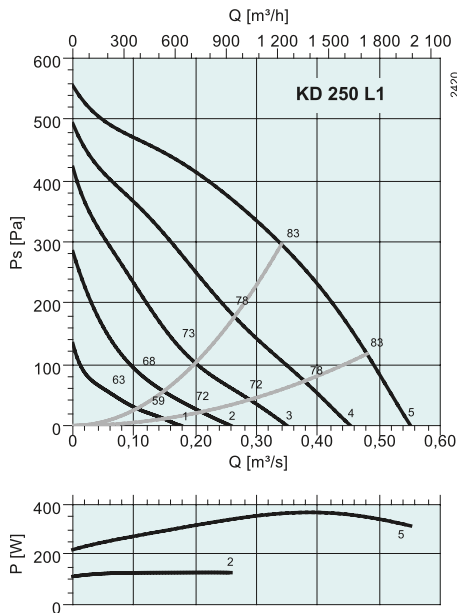
PERFORMANCE



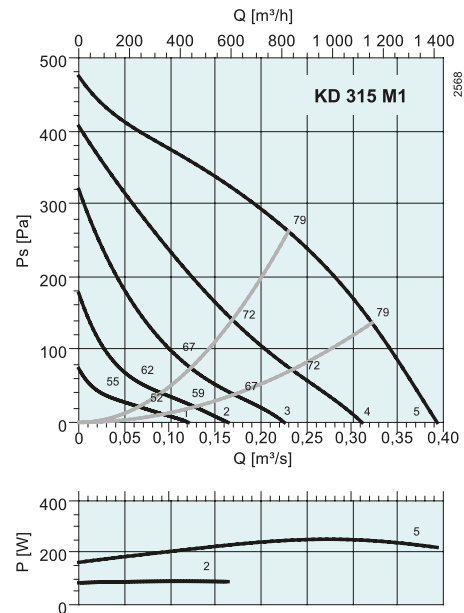
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	79	60	70	71	75	71	64	64	57
L _{WA} Outlet	84	57	71	75	76	76	78	75	73
L _{WA} Surrounding	60	27	27	46	55	56	52	48	39
With LDC 200-900									
L _{WA} Inlet	68	58	66	63	51	39	30	51	47
L _{WA} Outlet	72	55	67	67	52	44	44	62	63
Measurement point: 0,2 m³/s; 255 Pa									



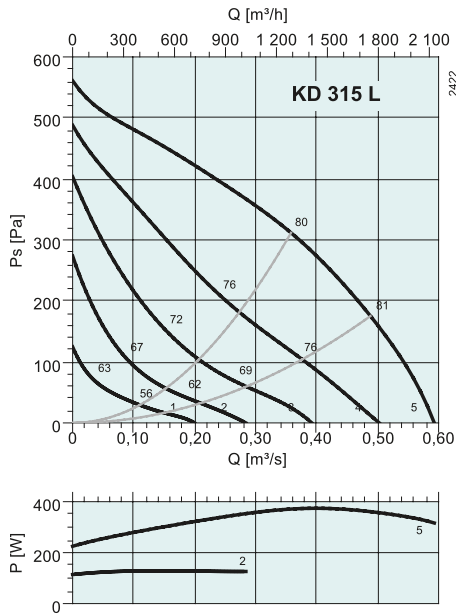
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	79	55	66	69	76	73	66	65	61
L _{WA} Outlet	79	55	70	71	73	73	72	65	59
L _{WA} Surrounding	61	22	27	43	56	56	53	50	44
With LDC 250-900									
L _{WA} Inlet	73	73	49	51	36	33	34	48	51
L _{WA} Outlet	68	52	66	63	53	47	49	55	51
Measurement point: 0,229 m³/s; 260 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	56	73	75	78	75	71	71	64
L _{WA} Outlet	81	56	71	71	75	74	76	71	64
L _{WA} Surrounding	62	28	37	46	61	50	48	49	37
With LDC 250-900									
L _{WA} Inlet	72	53	69	67	58	49	48	61	56
L _{WA} Outlet	70	53	67	63	55	48	53	61	56
Measurement point: 0,341 m³/s; 296 Pa									

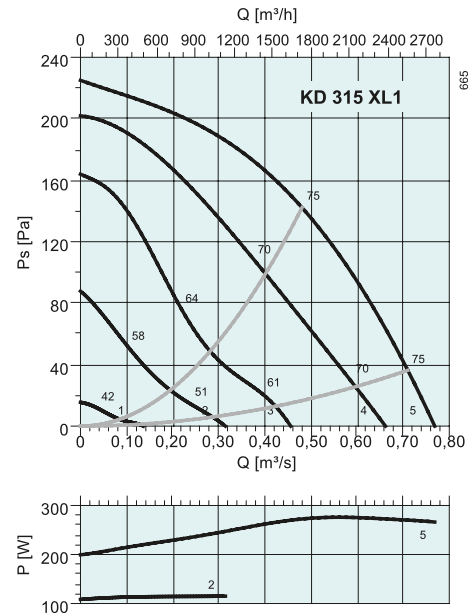


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	79	54	64	68	76	73	68	66	62
L _{WA} Outlet	81	58	69	70	76	75	74	67	60
L _{WA} Surrounding	66	32	33	41	65	50	46	45	40
With LDC 315-900									
L _{WA} Inlet	67	53	61	61	60	51	56	60	55
L _{WA} Outlet	70	57	66	63	60	53	62	61	53
Measurement point: 0,23 m³/s; 262 Pa									



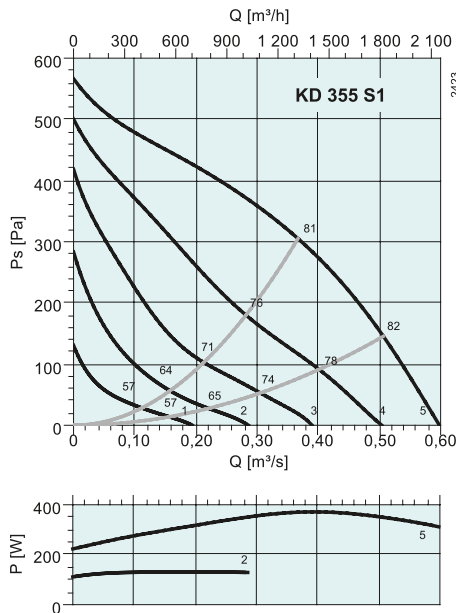
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	80	58	69	71	75	75	71	69	67
L _{WA} Outlet	81	54	68	70	73	75	76	71	65
L _{WA} Surrounding	61	32	36	44	60	50	47	48	40
With LDC 315-900									
L _{WA} Inlet	71	57	66	64	59	53	59	63	60
L _{WA} Outlet	71	53	65	63	57	53	64	65	58

Measurement point: 0,358 m³/s; 312 Pa



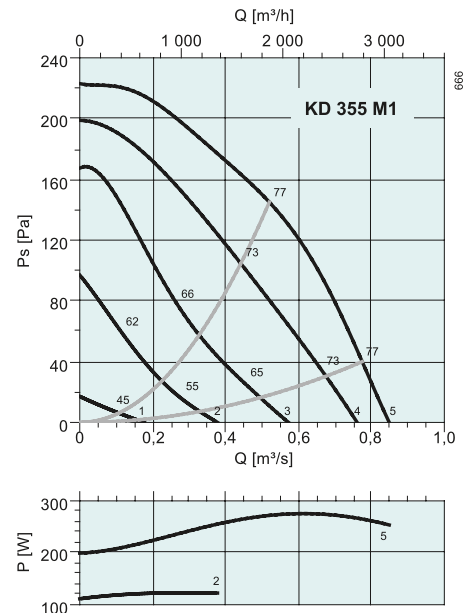
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	74	60	63	68	69	68	61	56	46
L _{WA} Outlet	75	59	69	66	67	69	66	56	48
L _{WA} Surrounding	59	33	42	51	52	55	52	38	27
With LDC 315-900									
L _{WA} Inlet	65	59	60	61	53	46	49	50	39
L _{WA} Outlet	68	58	66	59	51	47	54	50	41

Measurement point: 0,481 m³/s; 142 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	80	57	68	69	75	74	72	70	68
L _{WA} Outlet	83	58	68	68	76	77	78	72	67
L _{WA} Surrounding	61	32	35	43	60	50	48	49	41
With LDC 355-900									
L _{WA} Inlet	71	57	65	63	62	56	62	64	61
L _{WA} Outlet	73	58	65	62	63	59	68	66	60

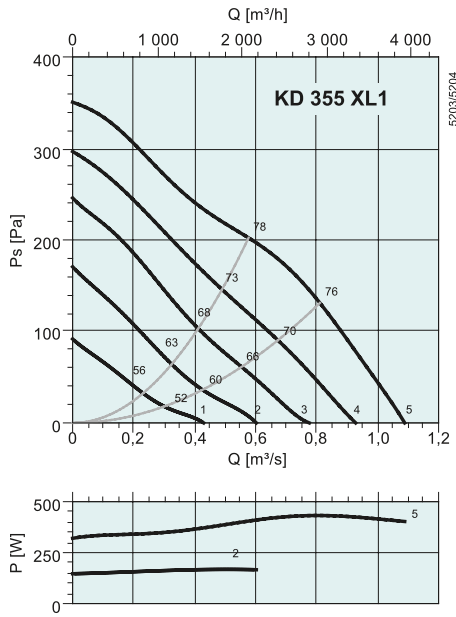
Measurement point: 0,367 m³/s; 305 Pa



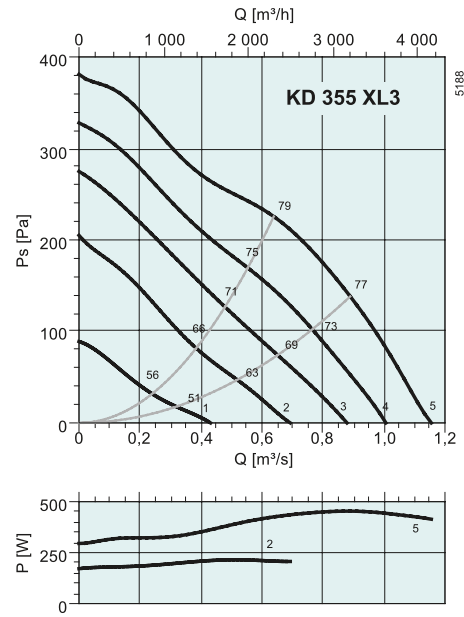
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	73	62	65	67	66	65	61	56	46
L _{WA} Outlet	75	57	69	66	68	70	65	56	48
L _{WA} Surrounding	57	40	40	48	51	52	49	38	27
With LDC 355-900									
L _{WA} Inlet	67	62	62	61	53	47	51	50	39
L _{WA} Outlet	68	57	66	60	55	52	55	50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

Measurement point: 0,52 m³/s; 145 Pa

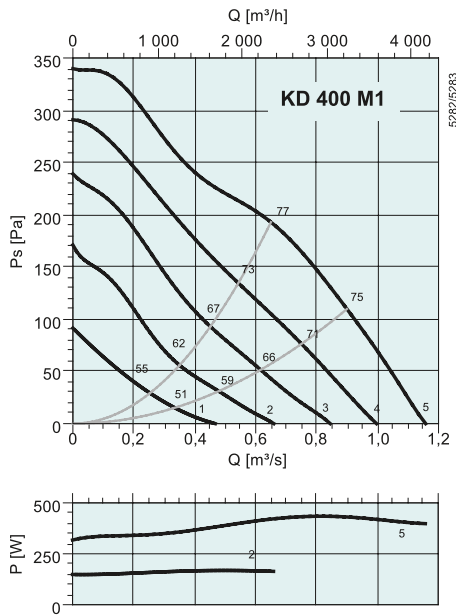
Circular duct fans



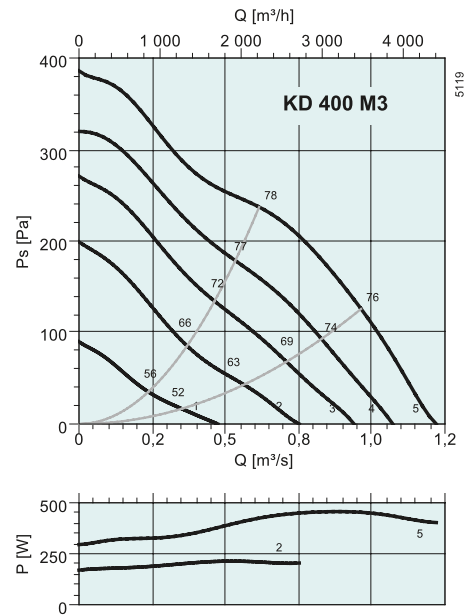
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	78	55	75	72	69	66	62	61	56
L _{WA} Outlet	78	50	75	70	70	68	65	64	59
L _{WA} Surrounding	63	26	48	60	59	53	47	47	42
With LDC 355-900									
L _{WA} Inlet	73	55	72	66	56	48	52	55	49
L _{WA} Outlet	73	50	72	64	57	50	55	58	52
Measurement point: 0,577 m³/s; 202 Pa									



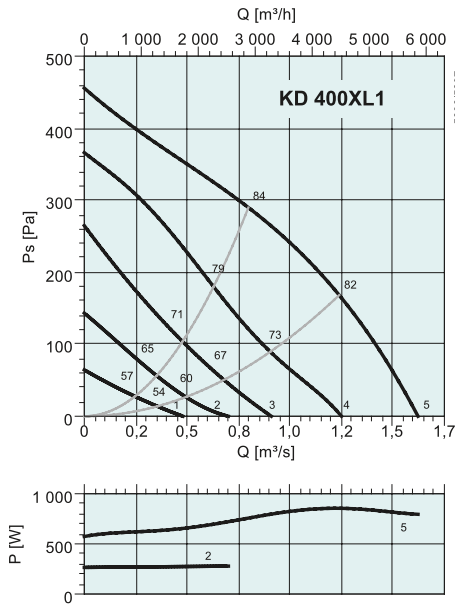
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	79	55	77	73	71	67	63	63	57
L _{WA} Outlet	79	50	76	71	72	70	66	66	61
L _{WA} Surrounding	65	29	52	60	60	57	51	51	42
With LDC 355-900									
L _{WA} Inlet	75	55	74	67	58	49	53	57	50
L _{WA} Outlet	74	50	73	65	59	52	56	60	54
Measurement point: 0,639 m³/s; 226 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	77	52	73	71	69	64	61	60	54
L _{WA} Outlet	77	48	73	70	71	68	65	64	59
L _{WA} Surrounding	60	27	45	56	57	51	46	46	39
With LDC 400-900									
L _{WA} Inlet	72	51	70	66	59	51	54	55	48
L _{WA} Outlet	72	47	70	65	61	55	58	59	53
Measurement point: 0,65 m³/s; 193 Pa									

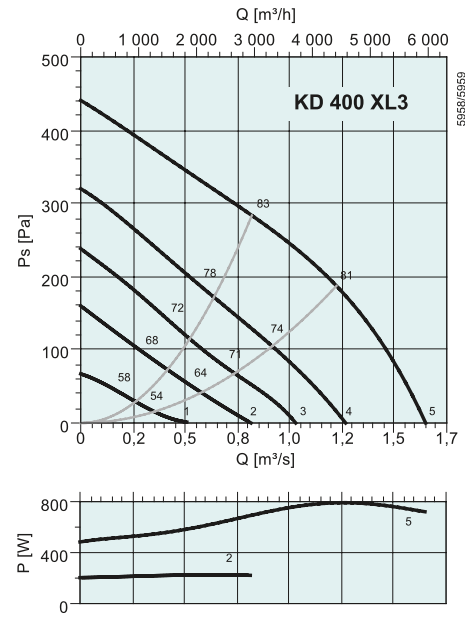


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	78	54	76	72	70	67	63	62	57
L _{WA} Outlet	79	51	74	71	72	71	67	65	61
L _{WA} Surrounding	64	24	47	60	59	56	49	49	44
With LDC 400-900									
L _{WA} Inlet	74	53	73	67	60	54	56	57	51
L _{WA} Outlet	73	50	71	66	62	58	60	60	55
Measurement point: 0,615 m³/s; 237 Pa									



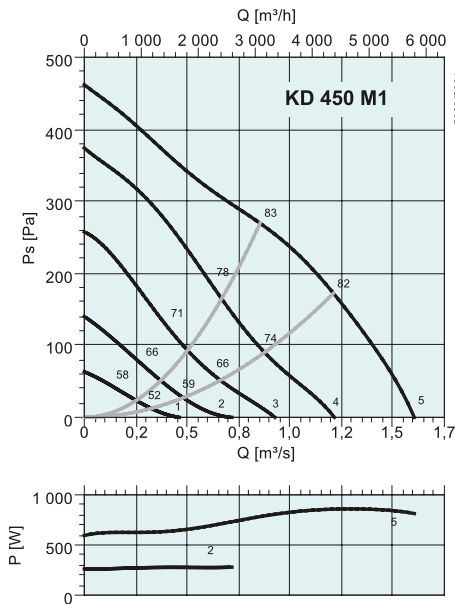
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	84	55	79	78	78	71	68	66	58
L _{WA} Outlet	85	55	79	80	79	75	71	69	61
L _{WA} Surrounding	71	21	62	64	68	59	54	51	41
With LDC 400-900									
L _{WA} Inlet	78	54	76	73	68	58	61	61	52
L _{WA} Outlet	79	54	76	75	69	62	64	64	55

Measurement point: 0,798 m³/s; 290 Pa



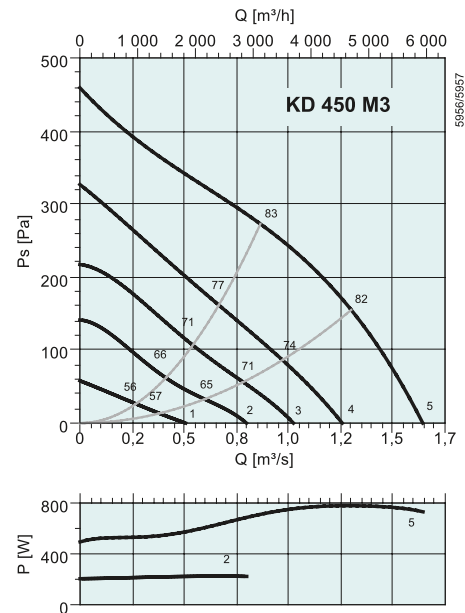
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	83	53	78	77	77	71	68	66	58
L _{WA} Outlet	85	55	78	79	79	75	72	70	60
L _{WA} Surrounding	68	18	44	61	65	61	53	51	42
With LDC 400-900									
L _{WA} Inlet	77	52	75	72	67	58	61	61	52
L _{WA} Outlet	79	54	75	74	69	62	65	65	54

Measurement point: 0,818 m³/s; 283 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	83	57	77	79	77	69	68	65	58
L _{WA} Outlet	83	51	75	76	79	75	69	66	61
L _{WA} Surrounding	68	25	47	67	61	56	55	50	43

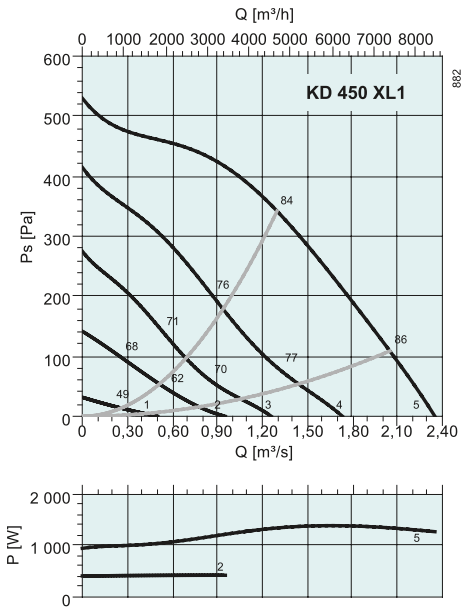
Measurement point: 0,854 m³/s; 270 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	83	53	78	78	77	68	68	66	58
L _{WA} Outlet	84	52	77	77	80	75	71	69	61
L _{WA} Surrounding	70	15	45	68	66	59	53	50	42

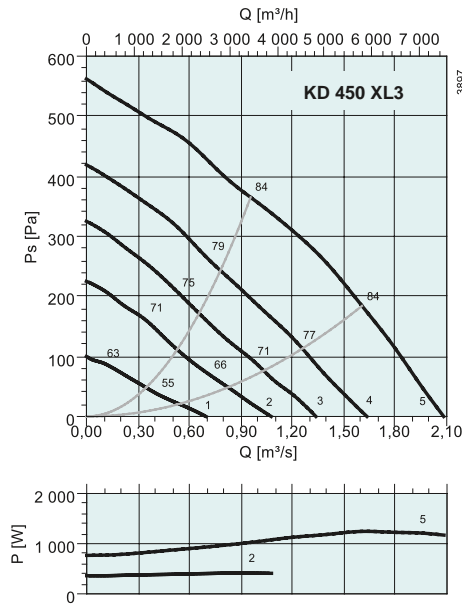
Measurement point: 0,865 m³/s; 273 Pa

Circular duct fans



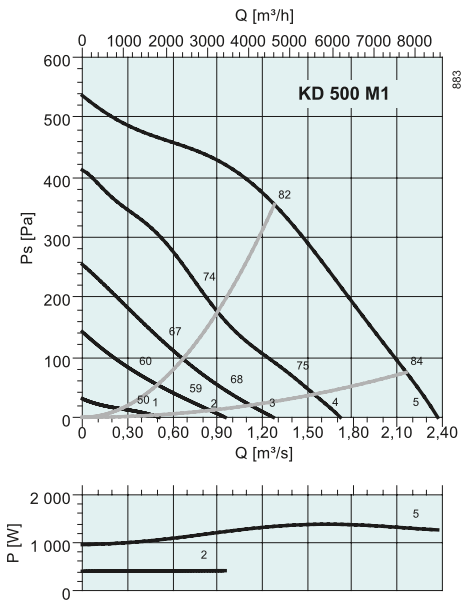
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	69	76	75	75	73	73	66	59
L _{WA} Outlet	82	69	75	73	76	76	72	66	61
L _{WA} Surrounding	68	35	54	60	65	61	59	46	40

Measurement point: 1,3 m³/s; 342 Pa



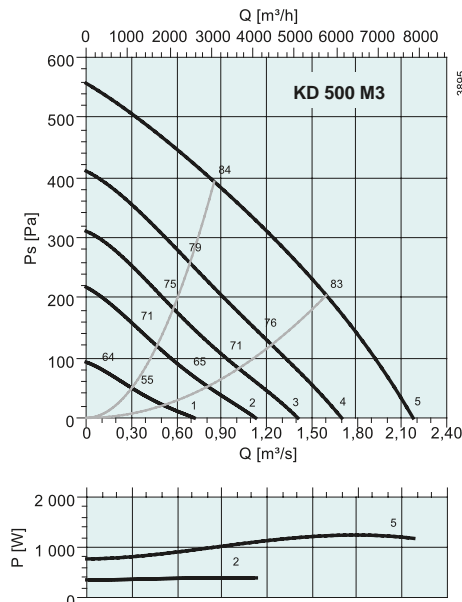
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	84	64	76	78	78	77	73	66	60
L _{WA} Outlet	86	61	76	78	82	81	75	69	63
L _{WA} Surrounding	68	34	48	60	61	65	60	47	40

Measurement point: 0,957 m³/s; 365 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	82	69	75	75	75	73	72	65	59
L _{WA} Outlet	83	70	75	72	76	78	73	67	60
L _{WA} Surrounding	71	41	58	63	68	64	60	48	48

Measurement point: 1,28 m³/s; 355 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	84	66	77	78	78	75	73	66	60
L _{WA} Outlet	86	62	78	77	82	81	75	68	63
L _{WA} Surrounding	71	26	47	63	67	67	63	55	51

Measurement point: 0,853 m³/s; 393 Pa