Ventilatoren Lti

Axial Fan Wall Mounted Series

Lti axial wall and mini ducted fans have been developed for effective supply and exhaust systems. Ranges LR and LW are suitable and best use in low pressure systems.

The LTI impellers are of sheet steel and profiled for optimal efficiency and with powder coating finish. The casing are of galvanized steel and rigid construction.

A comprehensive range of accessories is available. The LTI LR axial fan casings are designed for duct mounting, the AW fan casings for direct wall mounting. From sizes 200 up to 1000 mm, LW/LR range are all equiped with german designed external rotor motor. These design gives minimum air turbulence and lower noise.

LW RANGE

LR RANGE

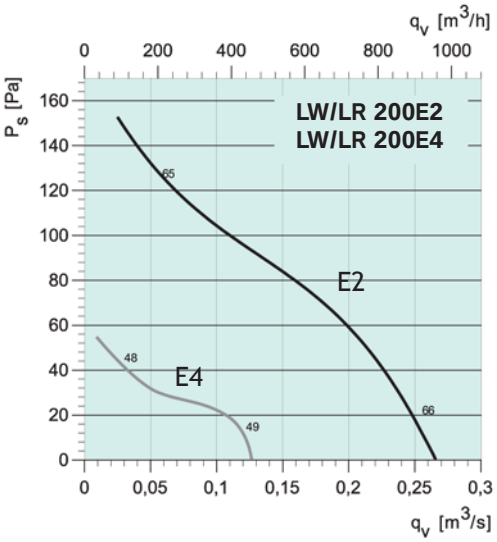
Description:

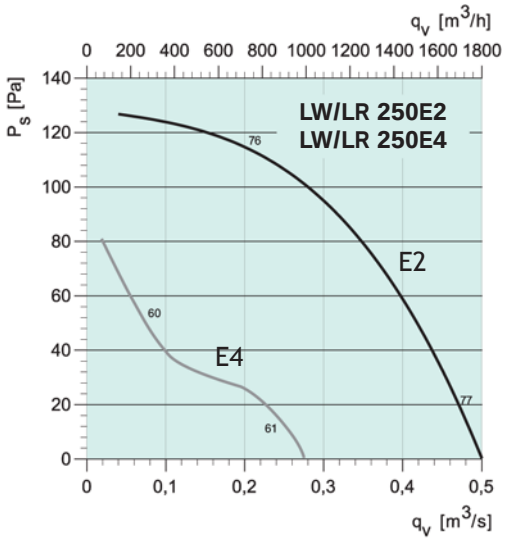
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings and impellers are manufactured from galvanised steel, Both ranges are fitted with sickle blade impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		200E2	200E4	250E2	250E4
Voltage/Frequency	V (50/60 Hz)	230	230	230	230
Phase	~	1	1	1	1
Power/Frequency	W (50/60 Hz)	60	30/27	120	69/63
Currrent/Frequency	A (50/60 Hz)	0.3	0.21/0.19	0.53	0.53/0.45
R.p.m.	min^{-1} (50/60 Hz)	2600	1370/1580	2500	1390/1600
Max. temp. of transported air	°C	70	75	60	45
Sound Pressure level at 3m	dB (A)	58	41	69	53
Weight	kg	2.7	2.5	3.9	3.5
Insulation class, motor		B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44
Capacitor	µF	1.5	-	3	-
Speed control, five-step	Trans.	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, stepless	Thyristor	KB25	KB25	KB25	KB25





LW/LR 200E2

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	65	56	57	58	58	57	55	51	47

Measuring point: q_v = 0.083 m^3/s, P_s = 124 Pa

LW/LR 250E2

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	76	67	68	69	69	68	66	62	58

Measuring point: q_v = 0.2 m^3/s, P_s = 115 Pa

LW/LR 200E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	48	39	40	41	41	40	38	34	30

Measuring point: q_v = 0.06 m^3/s, P_s = 22 Pa

LW/LR 250E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	60	51	52	53	53	52	50	46	42

Measuring point: q_v = 0.12 m^3/s, P_s = 40 Pa

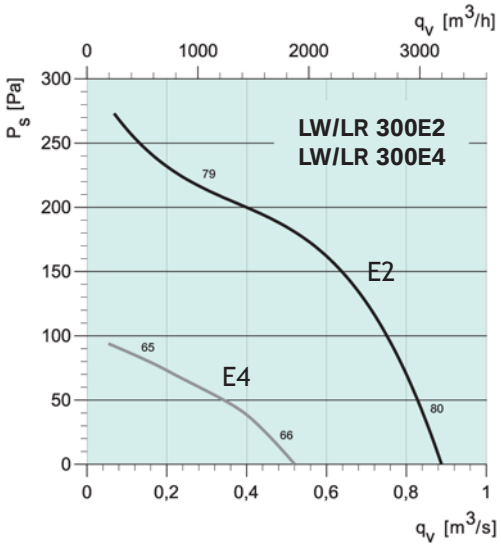
Description:

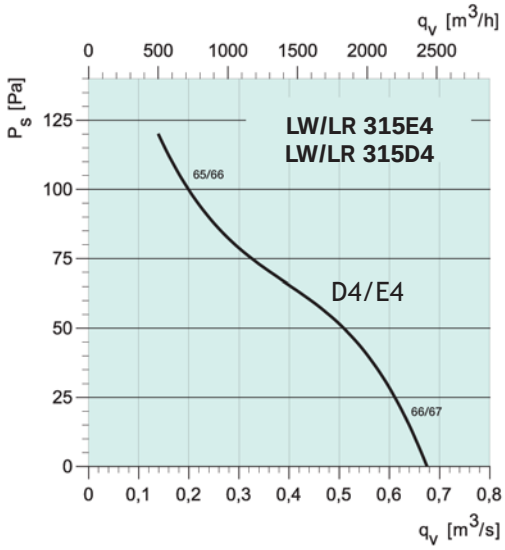
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings and impellers are manufactured from galvanised steel, Both ranges are fitted with sickle blade impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		300E2	300E4	315E4	315D4
Voltage/Frequency	V (50/60 Hz)	230	230	230	230
Phase	~	1	1	1	3
Power/Frequency	W (50/60 Hz)	230	67	102 / 120	90
Currrent/Frequency	A (50/60 Hz)	1.1	0.32	0.52 / 0.53	0.26
R.p.m.	min^{-1} (50/60 Hz)	2700	1400	1410 / 1650	1400
Max. temp. of transported air	°C	50	60	55	55
Sound Pressure level at 3m	dB (A)	72	58	58	59
Weight	kg	5	4.9	4.7	3.5
Insulation class, motor		B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44
Capacitor	µF	8	2	4	-
Speed control, five-step	Trans.	RE 1.5	RE 1.5	RE 1.5	RD 1
Speed control, stepless	Thyristor	KB25	KB25	KB25	-





LW/LR 300E2

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	79	70	71	72	72	71	69	65	61

Measuring point: q_v = 0.42 m³/s, P_s = 170 Pa

LW/LR 315E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	65	56	57	58	58	57	55	51	47

Measuring point: q_v = 0.14 m³/s, P_s = 120 Pa

LW/LR 300E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	65	56	57	58	58	57	55	51	47

Measuring point: q_v = 0.28 m³/s, P_s = 75 Pa

LW/LR 315D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	66	57	58	59	59	58	56	52	48

Measuring point: q_v = 0.28 m³/s, P_s = 87 Pa

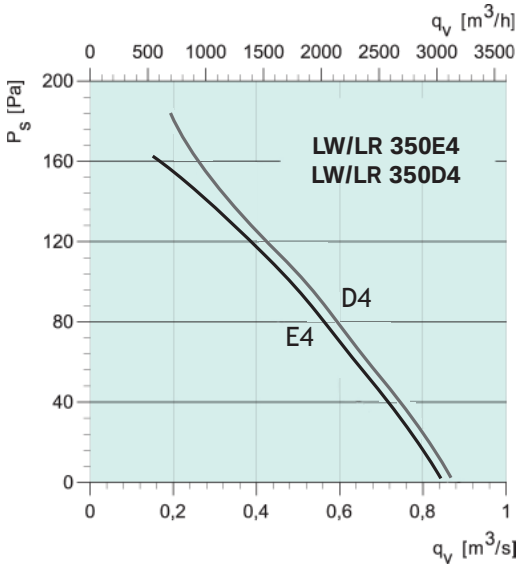
Description:

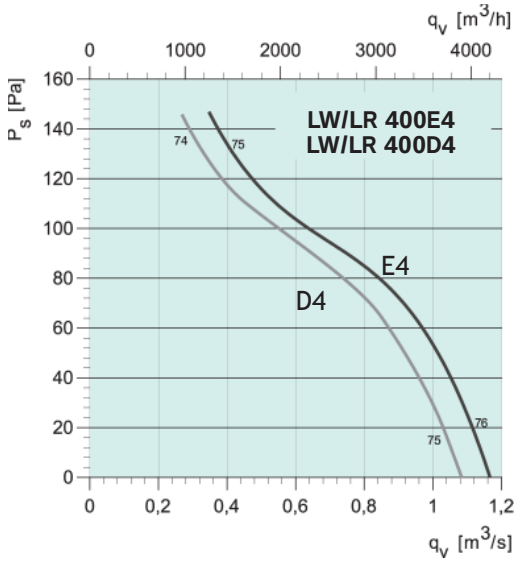
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings and impellers are manufactured from galvanised steel, Both range ae fitted with sickle blade impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		350E4	350D4	400E4	400D4
Voltage/Frequency	V(50/60 Hz)	230	400	230	400
Phase	~	1	3	1	3
Power/Frequency	W (50/60 Hz)	132/180	135/185	160/240	135/185
Currrent/Frequency	A (50/60 Hz)	0.58/0.8	0.42/0.37	0.73/1.06	0.44/0.39
R.p.m.	min^{-1} (50/60 Hz)	1365/1530	1420/1620	1430/1700	1450/1690
Max. temp. of transported air	°C	40	55	40	40
Sound Pressure level at 3m	dB (A)	63	63	68	67
Weight	kg	6.4	6.4	7.9	7.9
Insulation class, motor		B	B	B	B
Enclosure class, motor		IP 44	IP 44	IP 44	IP 44
Capacitor	µF	5	-	6	-
Speed control, five-step	Trans.	RE 1.5	RD 1	RE 1.5	RD 1
Speed control, stepless	Thyristor	KB25	-	KB25	-





LW/LR 350E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	70	61	62	63	63	62	60	56	52

Measuring point: q_v = 0.54 m^3/s, P_s = 90 Pa

LW/LR 400E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	75	66	67	68	68	67	65	61	57

Measuring point: q_v = 0.56 m^3/s, P_s = 108 Pa

LW/LR 350D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	70	61	62	63	63	62	60	56	52

Measuring point: q_v = 0.44 m^3/s, P_s = 110 Pa

LW/LR 4000D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	74	65	66	67	67	66	64	60	56

Measuring point: q_v = 0.56 m^3/s, P_s = 110 Pa

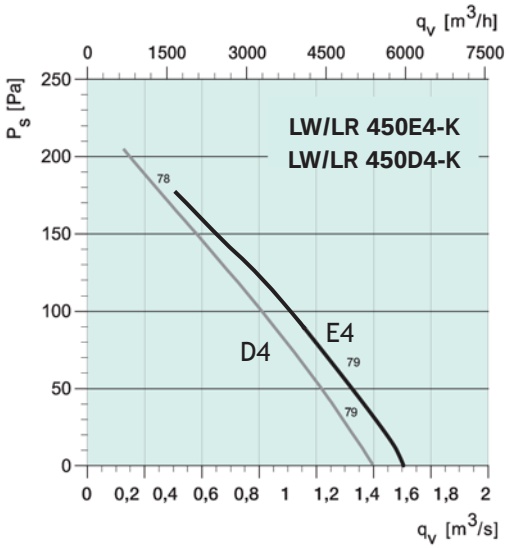
Description:

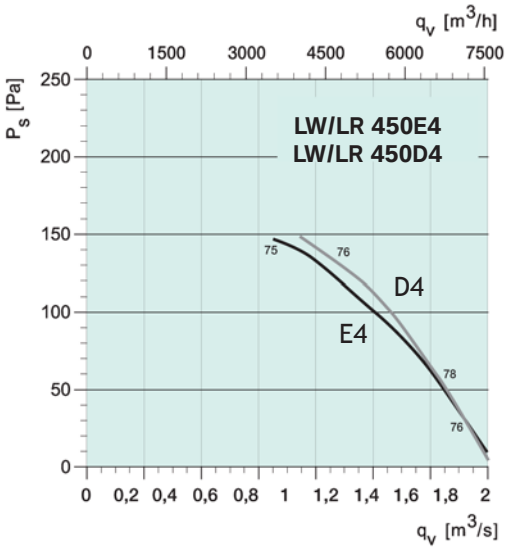
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings and impellers are manufactured from galvanised steel, Both ranges are fitted with sickle blade impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		450E4-K	450D4-K	450E4	450D4
Voltage/Frequency	V(50/60 Hz)	230	400	230	400
Phase	~	1	3	1	3
Power/Frequency	W (50/60 Hz)	245/355	200/285	375/555	540
Currrent/Frequency	A (50/60 Hz)	1.1/1.55	0.48/0.53	1.8/2.43	1.05
R.p.m.	min^{-1} (50/60 Hz)	1400/1600	1380/1540	1380	1340
Max. temp. of transported air	°C	40	45	65	60
Sound Pressure level at 3m	dB (A)	72	71	67	69
Weight	kg	8	8	10	10
Insulation class, motor		B	B	F	F
Enclosure class, motor		IP 44	IP 44	IP 54	IP 54
Capacitor	µF	8	-	10	-
Speed control, five-step	Trans.	RE 1.5	RD 1.5	RE 2	RD 1.5
Speed control, stepless	Thyristor	KB25	-	KB25	-





LW/LR 450E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	79	70	71	72	72	71	69	65	61

Measuring point: q_v = 1.14 m³/s, P_s = 88 Pa

LW/LR 450E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	75	66	67	68	68	67	65	61	57

Measuring point: q_v = 0.92 m³/s, P_s = 145 Pa

LW/LR 450D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	78	69	70	71	71	70	68	64	60

Measuring point: q_v = 0.71 m³/s, P_s = 123 Pa

LW/LR 450D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	76	67	68	69	69	68	66	62	58

Measuring point: q_v = 1.11 m³/s, P_s = 154 Pa

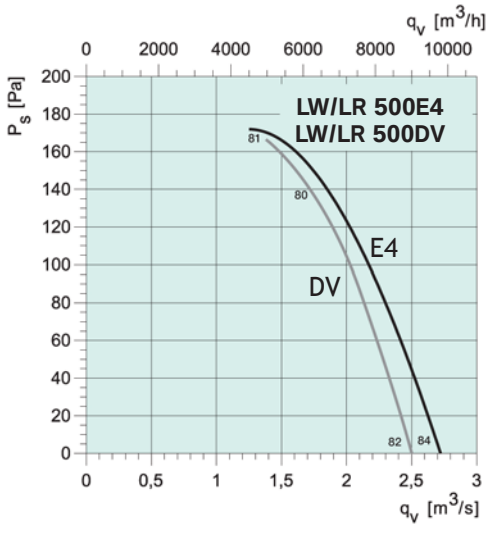
Description:

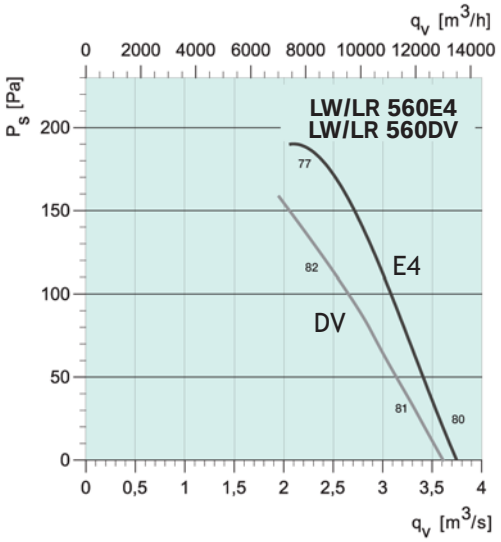
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings are manufactured from galvanised steel, Both ranges are fitted with sheet steel profile or aluminium alloy impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		500E4	500DV	560E4	560DV
Voltage/Frequency	V/50/60 Hz	230	400	230	400
Phase	~	1	3	1	3
Power/Frequency	W	780	780/550	1430	1000/650
Currrent/Frequency	A	3.4	1.35/0.94	6.5	1.8/1.0
R.p.m.	min^{-1}	1210	1320/1000	1430	1220/980
Max. temp. of transported air	°C	60	65	50	50
Sound Pressure level at 3m	dB (A)	73	69	76	75
Weight	kg	15	15	20	20
Insulation class, motor		F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54
Capacitor	µF	16	-	30	-
Speed control, five-step	Trans.	RE 5	RD 2	RE 7	RD 2
Speed control, stepless	Thyristor	KB25	-	KB25	-





LW/LR 500E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	81	72	73	74	74	73	71	67	63

Measuring point: q_v = 1.6 m^3/s, P_s = 152 Pa

LW/LR 560E4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	82	73	74	75	75	74	72	68	64

Measuring point: q_v = 2.5 m^3/s, P_s = 175 Pa

LW/LR 500DV

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	80	71	72	73	73	72	70	66	62

Measuring point: q_v = 1.39 m^3/s, P_s = 170 Pa

LW/LR 560DV

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	82	72	74	74	76	74	71	67	64

Measuring point: q_v = 2.22 m^3/s, P_s = 145 Pa

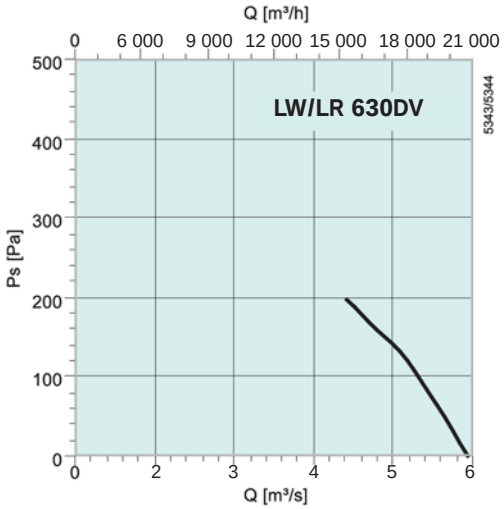
Description:

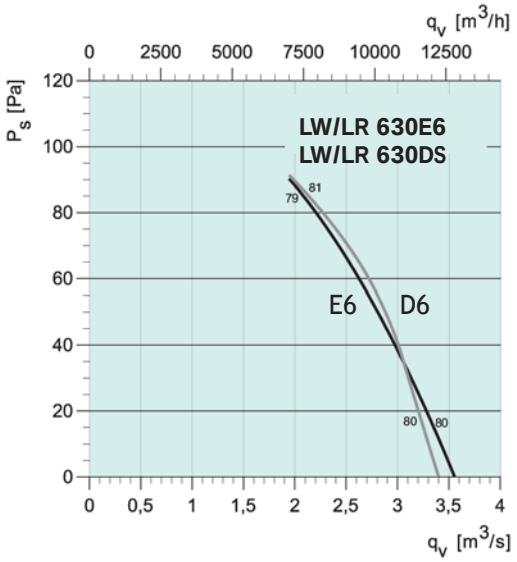
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings are manufactured from galvanised steel, Both ranges are fitted with aluminium alloy impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		630DV	630E6	630DS
Voltage/Frequency	V/50/60 Hz	400	230	400
Phase	~	3	1	3
Power/Frequency	W	2600/1600	600	690/480
Currrent/Frequency	A	4.8/2.7	2.7	1.25/0.7
R.p.m.	min^{-1}	1310/1000	880	900/690
Max. temp. of transported air	°C	65	60	65
Sound Pressure level at 3m	dB (A)	83	72	71
Weight	kg	45	24	24
Insulation class, motor		F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54
Capacitor	µF	-	12	-
Speed control, five-step	Trans.	RD 5	RE 3	RD 2
Speed control, stepless	Thyristor	-	KB25	-





LW/LR 630D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	90	81	82	83	83	82	80	76	72

Measuring point: q_v = 5 m³/s, P_s = 140 Pa

LW/LR 630E6

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	79	70	71	72	72	71	69	65	61

Measuring point: q_v = 3.1 m³/s, P_s = 36 Pa

LW/LR 630D6

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	81	72	73	74	74	73	71	67	63

Measuring point: q_v = 3.1 m³/s, P_s = 36 Pa

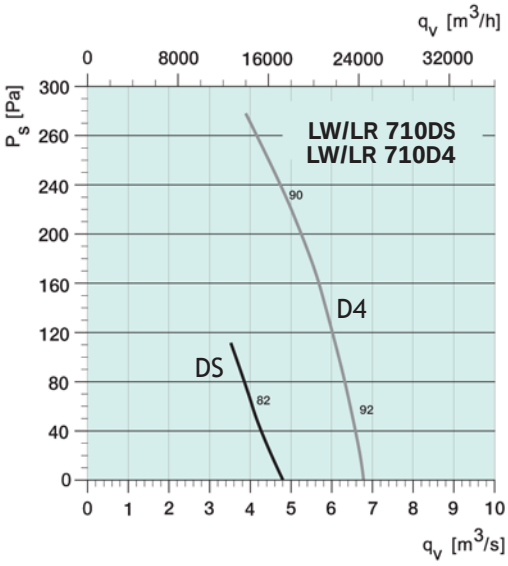
Description:

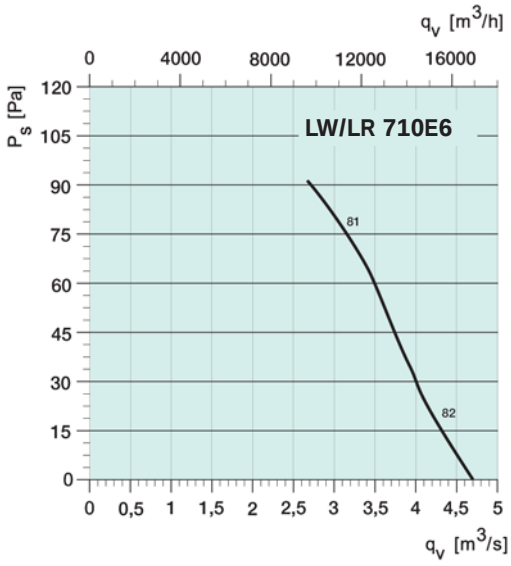
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings are manufactured from galvanised steel, Both ranges are fitted with sickle blade impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		710D4	710E6	710DS
Voltage/Frequency	V/50/60 Hz	400	230	400
Phase	~	3	1	3
Power/Frequency	W	2900	890	890/620
Currrent/Frequency	A	5.1	4.1	1.65/1.00
R.p.m.	min^{-1}	1320	850	890/710
Max. temp. of transported air	°C	65	60	70
Sound Pressure level at 3m	dB (A)	83	74	65
Weight	kg	43	32	32
Insulation class, motor		F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54
Capacitor	µF	-	16	-
Speed control, five-step	Trans.	RD 7	RE 5	RD 2
Speed control, stepless	Thyristor	-	KB28	-





LW/LR 710DS

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	82	73	74	75	75	74	72	68	64

Measuring point: q_v = 4 m^3/s, P_s = 50 Pa

LW/LR 710E6

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	81	72	73	74	74	73	71	67	63

Measuring point: q_v = 4 m^3/s, P_s = 30 Pa

LW/LR 710D4

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	90	71	66	80	82	86	85	79	69

Measuring point: q_v = 5 m^3/s, P_s = 220 Pa

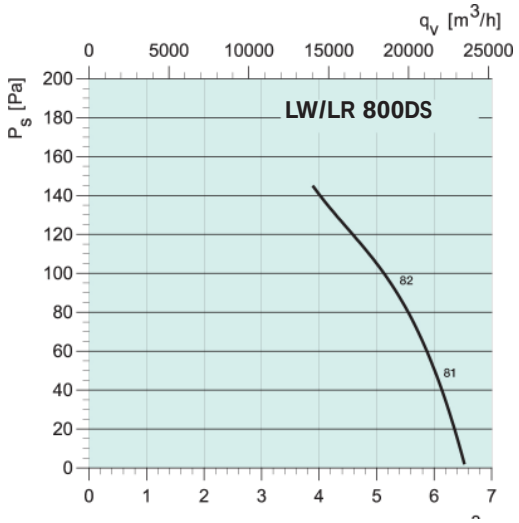
Description:

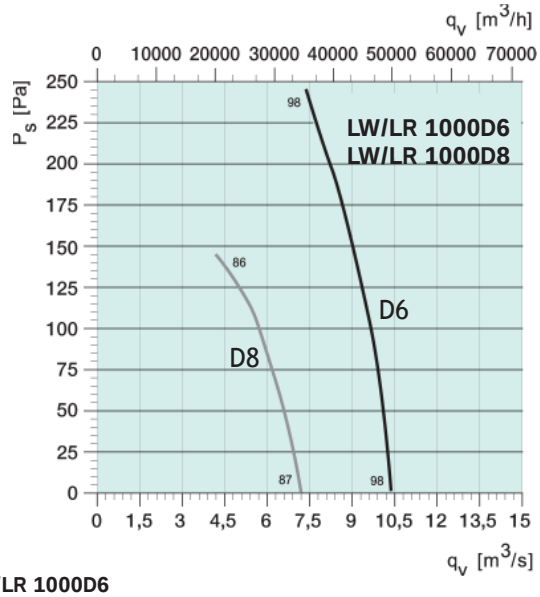
- Speed-controllable
- Integral thermal contacts
- Maintenance-free and reliable

The LW/LR fans use speed controllable external rotor motors. LW fans have square plates for wall mounting, LR fans have round flanges for duct mounting. Casings and impellers are manufactured from galvanised steel, Both ranges are fitted with sickle blade impellers.
All motors are protected by internal thermal contact to prevent overheating and prolong fans life span.

Axial Fan LW/LR Series

LW/LR		800DS	1000D6	1000D8
Voltage/Frequency	V/50/60 Hz	400	400	400
Phase	~	3	3	3
Power/Frequency	W	1450	5500	2200
Currrent/Frequency	A	2.7	10.5	4.2
R.p.m.	min^{-1}	895	935	670
Max. temp. of transported air	°C	60	60	70
Sound Pressure level at 3m	dB (A)	75	91	79
Weight	kg	41	80	74
Insulation class, motor		F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54
Capacitor	µF	-	-	-
Speed control, five-step	Trans.	RD 3	RD 14	RD 5
Speed control, stepless	Thyristor	-	-	-





LW/LR 800DS

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	82	73	74	75	75	74	72	68	64

Measuring point: q_v = 5.8 m^3/s, P_s = 58 Pa

LW/LR 1000D6

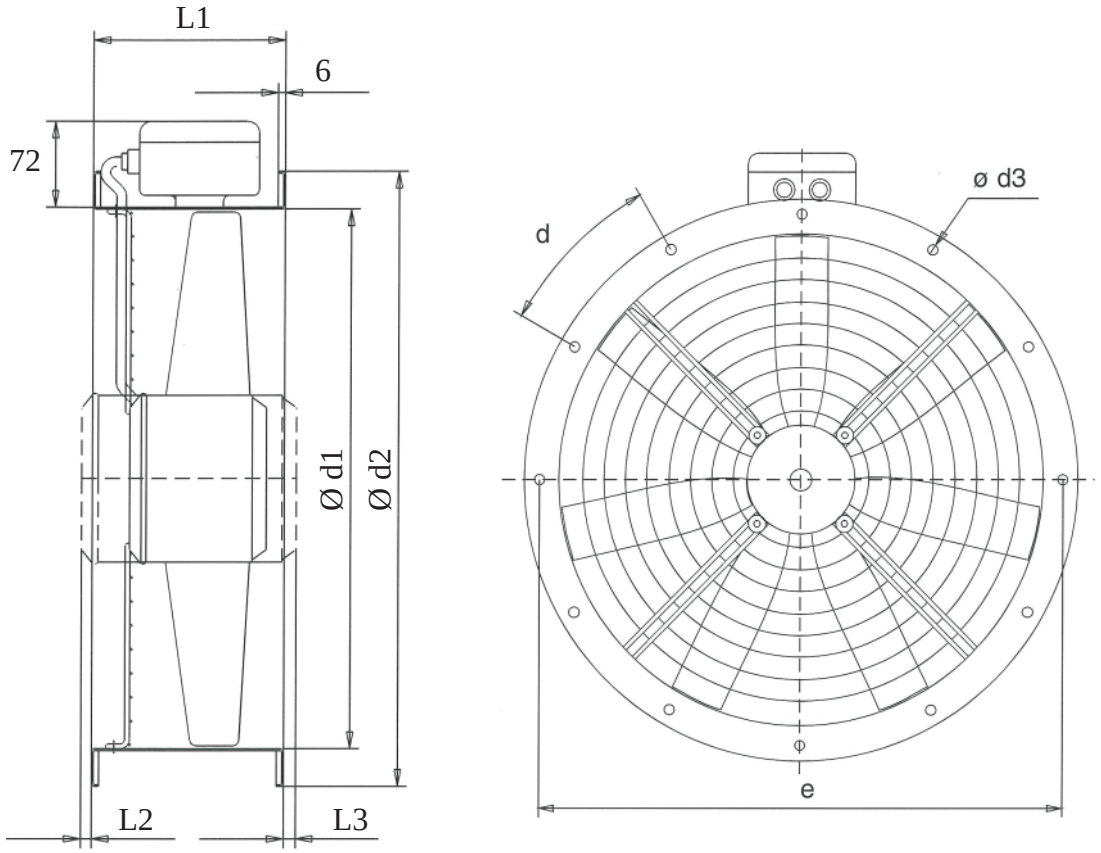
	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	98	89	90	91	91	90	88	84	80

Measuring point: q_v = 9 m^3/s, P_s = 150 Pa

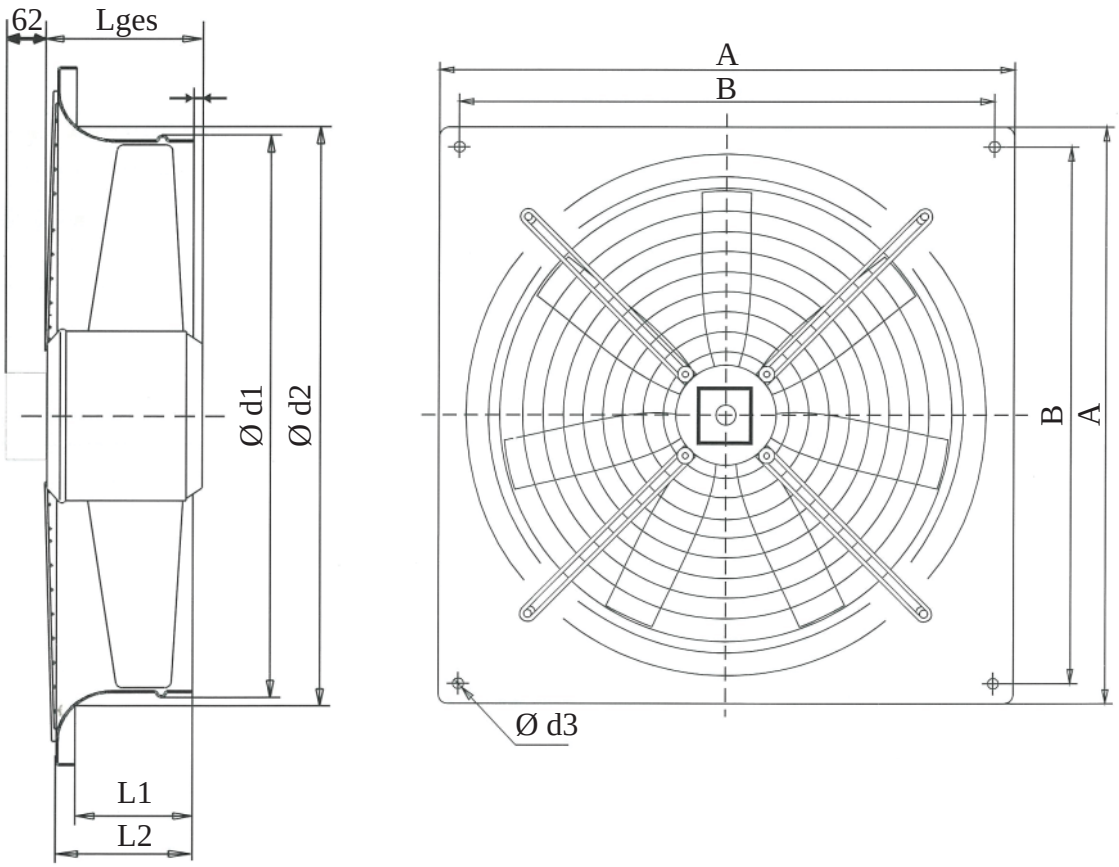
LW/LR 1000D8

	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	86	77	78	79	79	78	76	72	68

Measuring point: q_v = 5.56 m^3/s, P_s = 149 Pa



LR	L1	L2	L3	ød1	ød2	ød3	e	d
200	85	--	--	204	255	7.0	235	8 x 45 °
250	95	--	--	254	306	7.0	286	8 x 45 °
300	130	--	--	319	382	7.0	356	8 x 45 °
315	135	--	--	356	421	9.5	395	8 x 45 °
350	155	--	--	400	466	9.5	438	12 x 30 °
400	160	--	--	451	515	9.5	487	12 x 30 °
450-K	174	--	--	503	567	9.5	541	12 x 30 °
450	210	25	--	559	636	11.5	605	16 x 22.5 °
500	220	25	--	634	709	11.5	647	16 x 22.5 °
560	220	--	--	634	709	11.5	674	16 x 22.5 °
630	260	--	--	711	785	11.5	751	16 x 22.5 °
710	280	--	--	797	875	11.5	837	24 x 15 °



LW	A	B	Lges	L1	L2	L3	ød1	ød2	ød3
200	312	260	89	74	80	19	203	215	7
250	370	320	91	79	85	16	257	265	7
300	430	380	100	70	81	--	324	330	9
315	430	380	138	62	72.5	8	345	351	9
350	485	435	145	68	80	18	388	395	9
400	540	490	163	76	98	4	420	428	9
450-K	575	535	126	96	110	2	463	480	11
450	575	535	165	84	100	--	465	500	11
500	655	615	218	104	145	--	517	528	11
560	725	675	223	119	135	23	568	600	11
560	725	675	218	119	135	18	568	600	11
630D4	805	750	225	130	150	9	643	670	11
630	805	750	218	130	150	--	643	670	11
710	850	810	245	150	170	52	721	765	14.5
800	970	910	245	190	210	34	807	807	14.5
1000	1170	1110	323	200	220	86	1010	1070	14.5