

# Wall mounted fan series

High efficiency & flexible systems



## About Us



At Lti Ventilatoren, Singapore, we produce complete range of ventilation products over a decade. Our products are required for ventilation of areas where we have to improve the Indoor Air Quality (IAQ), an important ingredient of life. With more than 30 years of experience of our colleagues in producing ventilation fans, we have been successful in setting up few manufacturing/assembly plants across the world.

Our long history of production & continuous investment in our R&D, have given us success in developing new innovative products with better efficiencies, low noise levels & compact sizes for easy installations.

Our name LTi, L-Long term T-Technical i-Innovative, supports our concept of continuous growth with our technical innovations on our existing product range & to develop new products for growing markets.

Our wide range of products includes Axial fans, Bifurcated axial fans, belt driven axial fans, Jet fans, centrifugal fans, In-line fans, mixed flow fans, special application fans for chemical resistance & battery room applications. Our customers are in domestic

sector, commercial sector, Industrial sector, power sector & infrastructure sector.

LTi Ventilatoren (Asia) Pte Ltd, established to support local markets by producing complete range of fans with national/international technologies to serve our customers locally & globally.

Our experience in the ventilation systems give our customers confidence to have most efficient/economical solutions for their ventilation requirements. This confidence in LTi & its high quality products is backed by excellent

pre/after sales services by our experienced sales & technical staff.

We provide complete designing solutions for ventilation problems. With this catalogue, we provide the complete overview of the fan type, Lti can offer to the market. For further detailed discussions & information kindly feel free to contact our local sales company/distributor/dealer worldwide.

## Quality standards

Our focus is customer satisfaction. The bases for the same are best quality & accurate delivery time. We believe in quality of our products, to support this our products carries 3 years standard warranty against any manufacturing defect. The products have been tested in Singapore with PSB & AMCA for their performances. The air & sound performances are tested as per AMCA standards. The products required for high temperature applications are tested in accordance with BS/EN latest standards for different temperature & time classifications.

\*No liability for errors! - Subject to technical modification

## Our Projects



Project Title: ITE College & HQ @ AMK  
Consultant: Kajima  
Fan supplied : Axial, Cabinet & MIL



Project Title: The Estuary  
Contractor: Great Resources M&E Contractor Pte Ltd  
Fan supplied: Axial, Cabinet & CIL



Project Title: Suki Sushi  
Contractor: Natural Cool Airconditioning & Engineering Pte Ltd  
Fan supplied: Axial, Cabinet, CIL & Propeller



Project Title: Central Fire Station  
Contractor: BNF Engineering (S) Pte Ltd  
Fan supplied: CIL & Propeller

### *Air Movement and Control Association International, Inc.*

*Certifies that*

***LTI Ventilatoren (Asia) Pte Ltd***

*Having satisfied the membership requirements, has been granted membership in the  
Air Movement and Control Association International, Inc.*

*Member Since  
February 2011*

*Minke & Bay*  
AMCA International President



*M. L. S. S. S.*  
Acting Executive Director

## Wall mounted fan

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

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

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



LW RANGE



LR RANGE





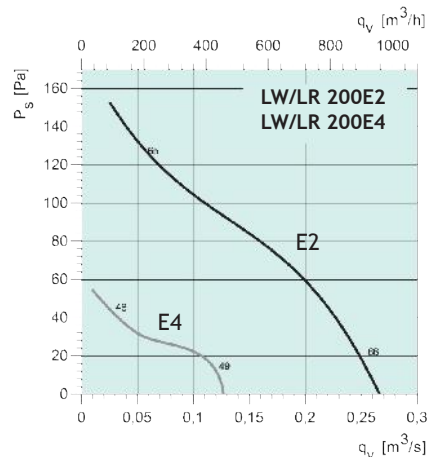
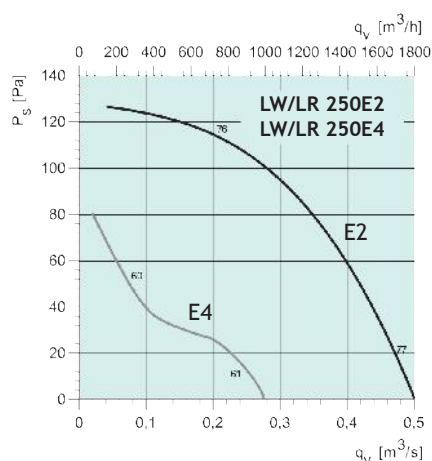
## LW/LR

- 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.

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
Current/Frequency	A (50/60 Hz)	0.3	0.21/0.19	0.53	0.53/0.45
R.p.m.	min <sup>-1</sup> (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.				
Speed control, stepless	Thyristor				



### 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:  $q_v = 0.083 \text{ m}^3/\text{s}$ ,  $P_s = 124 \text{ Pa}$

### 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:  $q_v = 0.2 \text{ m}^3/\text{s}$ ,  $P_s = 115 \text{ Pa}$

### 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:  $q_v = 0.06 \text{ m}^3/\text{s}$ ,  $P_s = 22 \text{ Pa}$

### 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:  $q_v = 0.12 \text{ m}^3/\text{s}$ ,  $P_s = 40 \text{ Pa}$



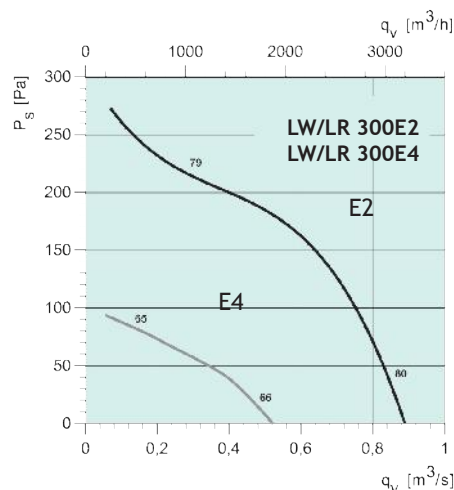
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LW/LR		300E2	300E4	315E4	315D4
Voltage/Frequency	V (50/60 Hz)	230	230	230	230
Phase	~	1	1	1	3
Power/Frequency	W (50/60 Hz)	230	67	102 / 120	90
Current/Frequency	A (50/60 Hz)	1.1	0.32	0.52 / 0.53	0.26
R.p.m.	min <sup>-1</sup> (50/60 Hz)	2700	1400	1410 / 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.				
Speed control, stepless	Thyristor				



**LW/LR 300E2**

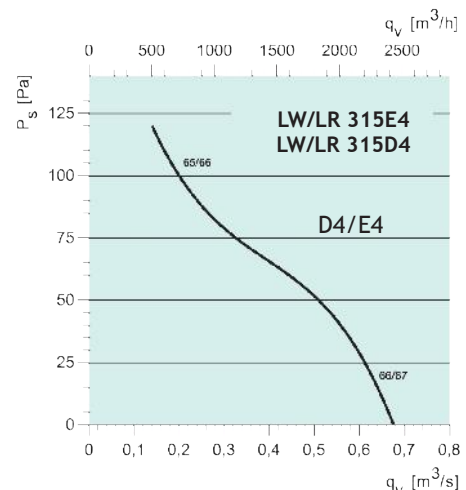
	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	79	70	71	72	72	71	69	65	61

Measuring point:  $q_v = 0.42 \text{ m}^3/\text{s}$ ,  $P_s = 170 \text{ Pa}$

**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:  $q_v = 0.28 \text{ m}^3/\text{s}$ ,  $P_s = 75 \text{ Pa}$



**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:  $q_v = 0.14 \text{ m}^3/\text{s}$ ,  $P_s = 120 \text{ Pa}$

**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:  $q_v = 0.28 \text{ m}^3/\text{s}$ ,  $P_s = 87 \text{ Pa}$



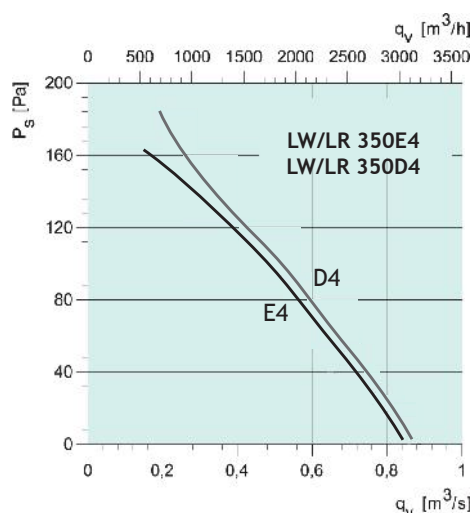
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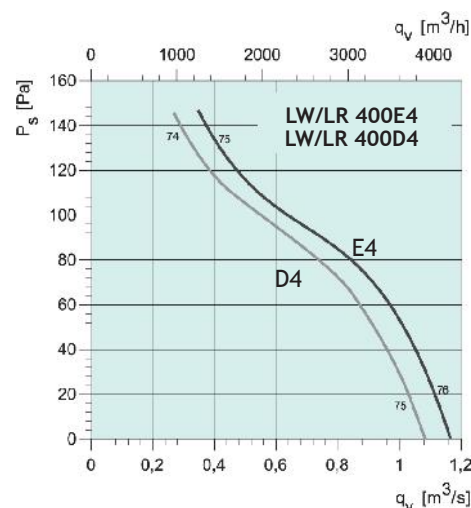
LW/LR		350E4	350D4	400E4	400D4
Voltage/Frequency	V(50/60 Hz)	230	400	230	400
Phase	~	1	3	1	3
Power/Frequency	W (50/60 Hz)	132/180	135/185	160/240	135/185
Current/Frequency	A (50/60 Hz)	0.58/0.8	0.42/0.37	0.73/1.06	0.44/0.39
R.p.m.	min <sup>-1</sup> (50/60 Hz)	1365/1530	1420/1620	1430/1700	1450/1690
Max. 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.				
Speed control, stepless	Thyristor				



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:  $q_v = 0.54 \text{ m}^3/\text{s}$ ,  $P_s = 90 \text{ Pa}$



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:  $q_v = 0.56 \text{ m}^3/\text{s}$ ,  $P_s = 108 \text{ Pa}$

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:  $q_v = 0.44 \text{ m}^3/\text{s}$ ,  $P_s = 110 \text{ Pa}$

LW/LR 400D4

	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:  $q_v = 0.56 \text{ m}^3/\text{s}$ ,  $P_s = 110 \text{ Pa}$



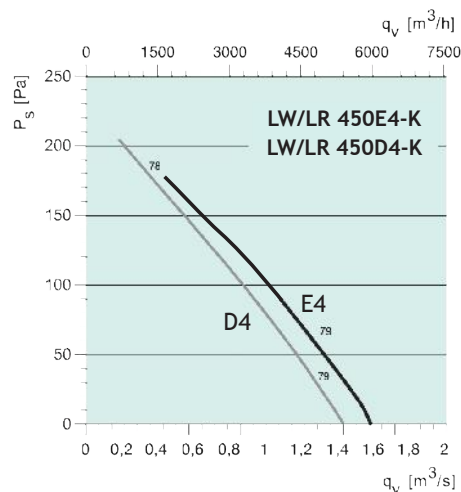
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- Maintenance-free and reliable

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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
Current/Frequency	A (50/60 Hz)	1.1/1.55	0.48/0.53	1.8/2.43	1.05
R.p.m.	min <sup>-1</sup> (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.				
Speed control, stepless	Thyristor				



LW/LR 450E4

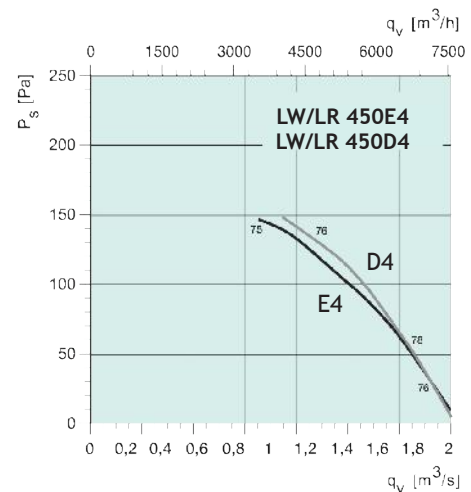
	Hz	Tot	Mid-frequency band, Hz							
			63	125	250	500	1k	2k	4k	8k
LwA Inlet/Outlet	dB(A)	79	70	71	72	72	71	69	65	61

Measuring point:  $q_v = 1.14 \text{ m}^3/\text{s}$ ,  $P_s = 88 \text{ Pa}$

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:  $q_v = 0.71 \text{ m}^3/\text{s}$ ,  $P_s = 123 \text{ Pa}$



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:  $q_v = 0.92 \text{ m}^3/\text{s}$ ,  $P_s = 145 \text{ Pa}$

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:  $q_v = 1.11 \text{ m}^3/\text{s}$ ,  $P_s = 154 \text{ Pa}$



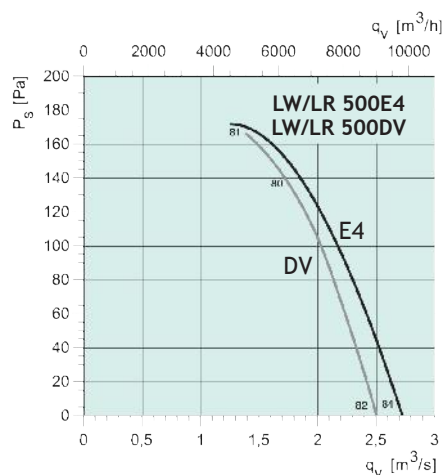


### Description:

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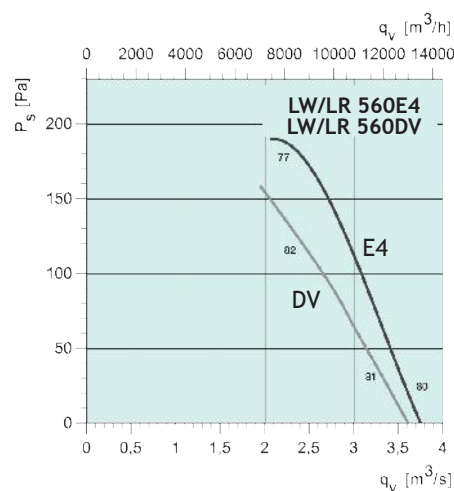
LW/LR		500E4	500DV	560E4	560DV
Voltage/Frequency	V/50/60 Hz	230	400	230	400
Phase	~	1	3	1	3
Power/Frequency	W	780	780/550	1430	1000/650
Current/Frequency	A	3.4	1.35/0.94	6.5	1.8/1.0
R.p.m.	min <sup>-1</sup>	1210	1320/1000	1430	1220/980
Max. temp. of transported air	°C	60	65	50	50
Sound Pressure level 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.				
Speed control, stepless	Thyristor				



**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:  $q_v = 1.6 \text{ m}^3/\text{s}$ ,  $P_s = 152 \text{ Pa}$



**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:  $q_v = 2.5 \text{ m}^3/\text{s}$ ,  $P_s = 175 \text{ Pa}$

**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:  $q_v = 1.39 \text{ m}^3/\text{s}$ ,  $P_s = 170 \text{ Pa}$

**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:  $q_v = 2.22 \text{ m}^3/\text{s}$ ,  $P_s = 145 \text{ Pa}$

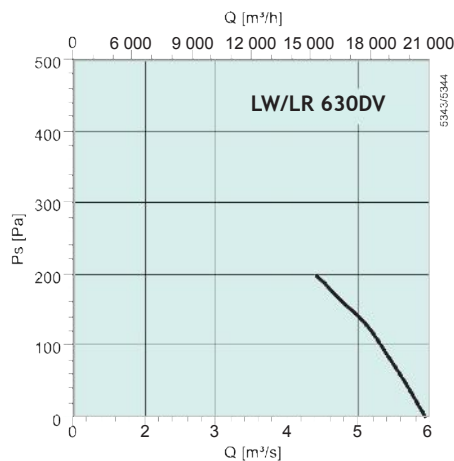


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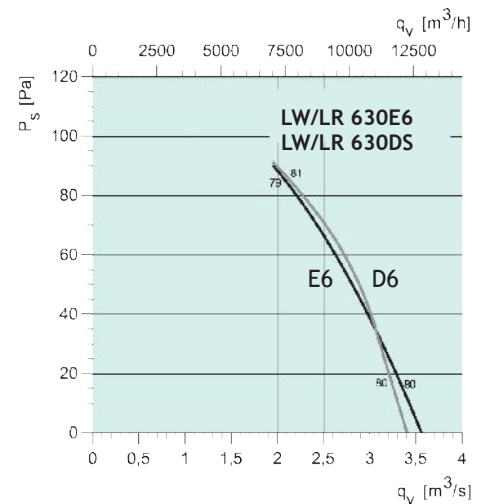
LW/LR		630DV	630E6	630DS
Voltage/Frequency	V/50/60 Hz	400	230	400
Phase	~	3	1	3
Power/Frequency	W	2600/1600	600	690/480
Current/Frequency	A	4.8/2.7	2.7	1.25/0.7
R.p.m.	min <sup>-1</sup>	1310/1000	880	900/690
Max. temp. of transported air	°C	65	60	65
Sound Pressure level at 3m	dB (A)	83	72	71
Weight	kg	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.			
Speed control, stepless	Thyristor			



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:  $q_v = 5 \text{ m}^3/\text{s}$ ,  $P_s = 140 \text{ Pa}$



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:  $q_v = 3.1 \text{ m}^3/\text{s}$ ,  $P_s = 36 \text{ Pa}$

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:  $q_v = 3.1 \text{ m}^3/\text{s}$ ,  $P_s = 36 \text{ Pa}$

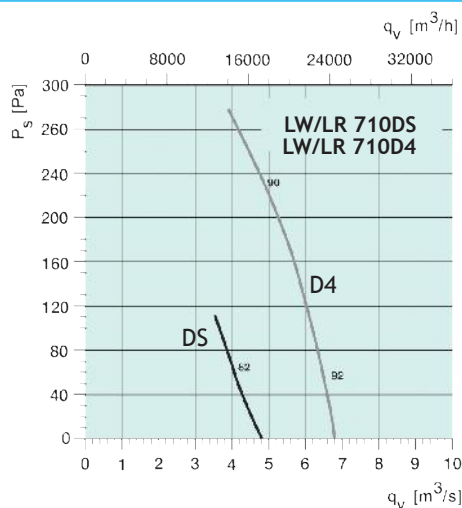


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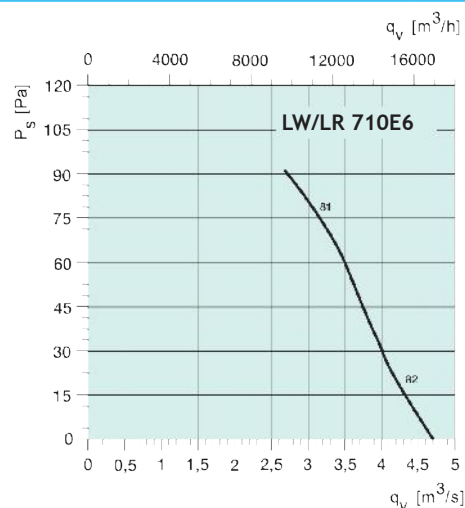
LW/LR		710D4	710E6	710DS
Voltage/Frequency	V/50/60 Hz	400	230	400
Phase	~	3	1	3
Power/Frequency	W	2900	890	890/620
Current/Frequency	A	5.1	4.1	1.65/1.00
R.p.m.	min <sup>-1</sup>	1320	850	890/710
Max. temp. of transported air	°C	65	60	70
Sound Pressure level at 3m	dB (A)	83	74	65
Weight	kg	43	32	32
Insulation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



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:  $q_v = 4 \text{ m}^3/\text{s}$ ,  $P_s = 50 \text{ Pa}$



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:  $q_v = 4 \text{ m}^3/\text{s}$ ,  $P_s = 30 \text{ Pa}$

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:  $q_v = 5 \text{ m}^3/\text{s}$ ,  $P_s = 220 \text{ Pa}$

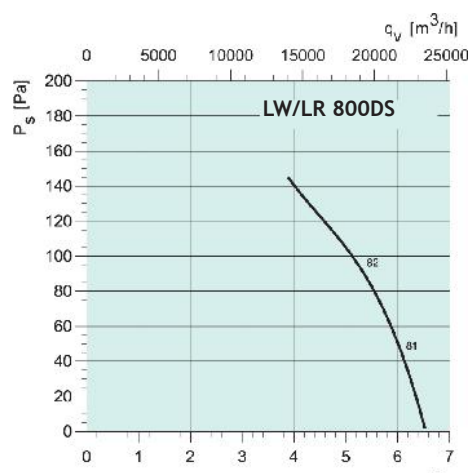


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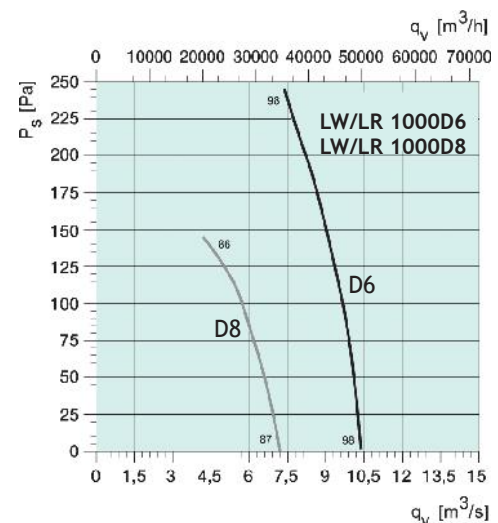
LW/LR		800DS	1000D6	1000D8
Voltage/Frequency	V/50/60 Hz	400	400	400
Phase	~	3	3	3
Power/Frequency	W	1450	5500	2200
Current/Frequency	A	2.7	10.5	4.2
R.p.m.	min <sup>-1</sup>	895	935	670
Max. temp. of transported air	°C	60	60	70
Sound Pressure level at 3m	dB (A)	75	91	79
Weight	kg	41	80	74
Insulation class, motor		F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54
Capacitor	μF	-	-	-
Speed control, five-step	Trans.			
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:  $q_v = 5.8 \text{ m}^3/\text{s}$ ,  $P_s = 58 \text{ Pa}$



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:  $q_v = 9 \text{ m}^3/\text{s}$ ,  $P_s = 150 \text{ Pa}$

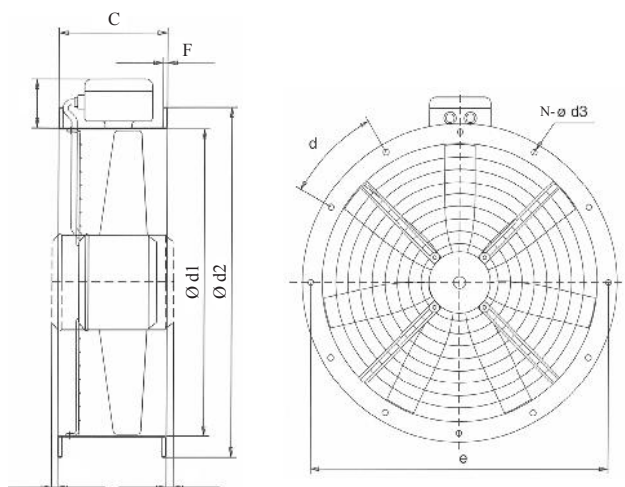
LW/LR 1000D8

	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

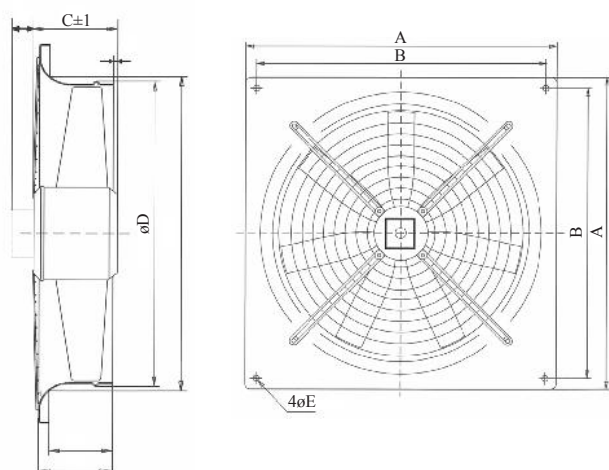
Measuring point:  $q_v = 5.56 \text{ m}^3/\text{s}$ ,  $P_s = 149 \text{ Pa}$



## Dimensions



LR	Ød1	Ød2	N-Ød3	C	F
200	208	250	8-Ø7	180	8
250	257	306	8-Ø7	180	8
300	317	382	8-Ø9.5	180	8
350	359	421	8-Ø9.5	180	8
400	400	460	8-Ø9.5	190	12
450	460	515	12-Ø9.5	190	12
500	517	567	12-Ø9.5	250	12
550	565	635	16-Ø11.5	250	16
630	640	705	16-Ø11.5	250	16



LW	A	B	C	D	E
200	312	260	54	253	7
300	430	380	81	315	7
350	485	435	86	357	9
400	540	490	100	403	9
450	575	535	100	449	9
500	655	615	120	503	9
550	725	675	118	559	9
600	805	750	115	615	11
630	805	750	125	645	11
710	850	810	170	709	14.5
800	970	910	208	797	14.5



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\*subject to technical modification