

**LKW SERIES FORWARD-CURVED-BLADE DOUBLE-INLET CENTRIFUGAL FAN WITH EXTERNAL ROTOR MOTOR**



LKW series forward-curved-blade double-inlet centrifugal fan with external rotor motor is a special fan for air conditioning system developed by our company which is placed in the air stream, provided with impulse turbines with a large number of narrow, direct-drive blades.

The **fluid model** of this series of fans has been optimized by **CFD** advanced technology, which not only increases the output pressure, but also reduces the noise and improves the efficiency. It has the characteristics of energy saving and low noise. It is especially suitable for **supporting various air conditioning, refrigeration, purification, fresh air units, air curtain machines** and other products, and has been widely used in hotels, hotels, schools, hospitals, factories, refrigerators, cinemas, high-speed rail, urban rail transit, buses, ships and other fields.

**LKW series of fans has the following remarkable advantages:**

1. The external rotor motor is adopted, which is compact in structure, small in size, light in weight and easy to install;
2. The forward multi wing impeller with high pressure, low noise, high efficiency and low noise is adopted;
3. The **direction of the air outlet** can be specially customized, and the installation form is flexible and convenient;
4. Our **self-developed matching motors** have better reliability and service life than ordinary motors after with optimization of power;

5. Our fans can have **different power supplies**, such as single-phase, three-phase, DC power supply and others. Voltage and frequency can be as the needs of users from different countries;
6. Our fans can have **different speed modes**, such as single-speed, double-speed, three-speed and stepless speed regulation to meet the needs of users for air volume regulation.

### Model Definition

Example: LKW 250 M 2- 4 C3 X

**Model Number consists of seven parts.**

#### Part 1: Model Code;

No. 1 L: centrifugal fan;

No.2 K: air ventilation;

No. 3 P: belt driven; W: external rotor motor drive; Z: shaft drive;

No. 4 None: single-case, double inlet; D: single-case, single-inlet; S: double-case, double-inlet; W: single-inlet without case; G: duct fan; H: back curved blade;

#### Part 2: wheel diameter code, unit is mm;

#### Part 3: case width code, up to 2 bits;

SS: tiny width; S: small width; M: medium width; L: large width;

#### Part 4: designing sequence codes in numbers;

#### Part 5: motor pole, EC means brushless DC motor;

code	2	4	6	4/6
meaning to	2-pole motor	4-pole motor	6-pole motor	4/6-pole double-speed motor
code	6/8	4/6/8	EC	
meaning to	6/8-pole double-speed	4/6/8-pole three-speed motor	BLDC motor	

#### Part 6: specific code for single-phase motor

code	none	C	C2	C3
meaning to	non-single-phase motor	single-phase single-speed motor	single-phase two-speed motor	single-phase three-speed motor

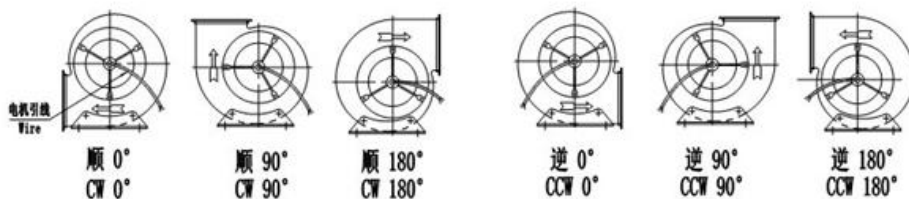
#### Part 7: motor installation types

code	meaning to
none	b3 motor; belt-drive rear installation or shaft-drive horizontal installation
l	b5 motor, shaft-drive vertical installation
x	b3 motor, belt-drive down installation
d	b3 motor, belt-drive top installation
e	b3 motor, belt-drive side installation

Such as LKW250M – 4 is forward-curved-blade double-inlet centrifugal fan with external rotor motor, blade diameter 250mm with medium width, motor poles 4.

### Installation Method

- The **rotating direction** of centrifugal fan is divided into CW and CCW according to the rotating direction of impeller. To LKW Centrifugal Fans: facing the motor's lead wire, the clockwise direction of impeller rotation is called CW, and the counter-clockwise direction of impeller rotation is called CCW.
- Air outlet angle: the angle between the air outlet and the installation surface. LKW series has three main types according to the **outlet angle**: 0°, 90°, 180°. It can also be customized to other directions according to the needs of users.



### Technical Parameters

Fan frame size	Rated performance			Volume Range (m <sup>3</sup> /h)	Voltage (V)	freq. (Hz)	Power (kW)	Current (A)	Weight (kg)
	Volume (m <sup>3</sup> /h)	Pressure (Pa)	Noise [dB(A)]						
1. Three-phase Single-speed)									
LKW180S-4	700	200	59	550~800	380	50	0.12	0.36	8
LKW180M-4	950	200	60	800~1000	380	50	0.15	0.45	9
LKW180L-4	1200	200	61	1000~1300	380	50	0.18	0.53	10
LKW180S-6	450	90	56	350~500	380	50	0.06	0.25	8
LKW180M-6	650	90	57	550~700	380	50	0.08	0.32	9
LKW180L-6	800	90	58	650~900	380	50	0.1	0.37	10
LKW200S-4	1200	300	60	1000~1300	380	50	0.18	0.53	11
LKW200M-4	1500	300	61	1250~1700	380	50	0.22	0.60	12
LKW200L-4	1800	300	62	1500~2000	380	50	0.26	0.70	13
LKW200S-6	1000	150	57	850~1100	380	50	0.08	0.32	11
LKW200M-6	1300	150	58	1100~1400	380	50	0.1	0.37	12
LKW200L-6	1600	150	59	1350~1800	380	50	0.12	0.42	13
LKW225S-4	1800	320	63	1500~2000	380	50	0.3	0.93	14
LKW225M-4	2200	320	64	1850~2400	380	50	0.37	1.06	15
LKW225L-4	2600	320	65	2200~2900	380	50	0.45	1.2	16
LKW225S2-4	1800	360	63	1500~2000	380	50	0.3	0.93	14
LKW225M2-4	2200	360	64	1850~2400	380	50	0.37	1.06	15
LKW225L2-4	2600	360	65	2200~2900	380	50	0.45	1.2	16
LKW225S-6	1500	160	61	1250~1700	380	50	0.14	0.53	14
LKW225M-6	1800	160	62	1500~2000	380	50	0.16	0.59	15
LKW225L-6	2000	160	63	1700~2200	380	50	0.18	0.64	16
LKW250S-4	2000	350	65	1700~2200	380	50	0.37	1.05	17

LKW250M-4	2800	350	66	2350~3100	380	50	0.55	1.46	20
LKW250L-4	3500	350	67	2950~3900	380	50	0.65	1.7	25
LKW250S-6	1500	150	63	1500~2000	380	50	0.18	0.64	17
LKW250M-6	2000	150	64	2000~2600	380	50	0.24	0.81	20
LKW250L-6	2500	150	65	2550~3300	380	50	0.3	0.95	25
LKW250S2-4	2000	420	66	1700~2200	380	50	0.45	1.2	17
LKW250M2-4	3000	420	67	2550~3300	380	50	0.65	1.7	20
LKW250L2-4	4000	420	68	3400~4400	380	50	0.90	2	25
LKW250S2-6	1500	180	64	1500~2000	380	50	0.24	0.81	17
LKW250M2-6	2000	180	65	2200~2900	380	50	0.3	0.95	20
LKW250L2-6	2500	180	66	2700~3500	380	50	0.36	1.1	25
LKW250S3-4	2000	500	67	1700~2200	380	50	0.45	1.2	17
LKW250M3-4	3000	500	69	2550~3300	380	50	0.65	1.7	20
LKW250L3-4	4000	500	70	3400~4400	380	50	0.9	2	25
LKW250S3-6	1500	210	65	1500~2000	380	50	0.24	0.81	17
LKW250M3-6	2000	210	66	2200~2900	380	50	0.3	0.95	20
LKW250L3-6	2500	210	67	2700~3500	380	50	0.36	1.1	25
LKW250 III M-4	3000	350	67	2550~3300	380	50	0.55	1.46	22
LKW250 III M2-4	3200	420	68	2550~3300	380	50	0.65	1.7	22
LKW250 III M3-4	3300	500	69	2550~3300	380	50	0.75	1.9	22
LKW250 III M-6	2200	150	65	2200~2900	380	50	0.3	0.95	20
LKW250 III M2-6	2400	180	66	2200~2900	380	50	0.32	1	20
LKW250 III M3-6	2600	210	67	2200~2900	380	50	0.36	1.1	20
LKW280SS-4	3500	500	68	2950~3900	380	50	0.9	2	28
LKW280S-4	4000	500	69	3400~4400	380	50	1.1	2.4	30
LKW280M-4	5000	500	70	4250~5500	380	50	1.37	3	35
LKW280L-4	6000	500	71	5100~6600	380	50	1.65	3.5	40
LKW280SS-6	2500	320	64	2100~2800	380	50	0.5	1.3	30
LKW280S-6	3000	320	65	2550~3300	380	50	0.55	1.47	30
LKW280M-6	4000	320	66	3400~4400	380	50	0.7	1.83	35
LKW280L-6	5000	320	67	4250~5500	380	50	0.87	2.24	40
LKW300SS-4	4000	550	71	3400~4400	380	50	1.1	2.5	35
LKW300S-4	4500	550	72	3800~5000	380	50	1.2	2.6	35
LKW300M-4	5500	550	73	4650~6100	380	50	1.5	3.3	42
LKW300L-4	6500	550	75	5500~7200	380	50	1.8	3.9	45
LKW300SS-6	2500	380	65	2100~2800	380	50	0.55	1.47	33
LKW300S-6	3000	380	66	2550~3300	380	50	0.7	1.85	33
LKW300M-6	4000	380	67	3400~4400	380	50	0.95	2.45	42
LKW300L-6	5000	380	68	4250~5500	380	50	1.1	2.80	46
LKW315SS-4	4000	600	73	3400~4400	380	50	1.5	3.3	40
LKW315S-4	5000	600	75	4250~5500	380	50	1.8	3.8	40

LKW315M-4	6500	600	76	5500~7200	380	50	2.2	4.6	48
LKW315L-4	8000	600	77	6800~8800	380	50	2.8	5.6	60
LKW315SS-6	3000	420	65	2550~3300	380	50	0.85	2.2	40
LKW315S-6	4000	420	66	3400~4400	380	50	0.87	2.24	40
LKW315M-6	5000	420	67	4250~5500	380	50	0.95	2.5	47
LKW315L-6	6000	420	68	5100~6600	380	50	1.1	2.8	53
LKW355SS-4	4500	800	74	3800~5000	380	50	2.2	4.6	45
LKW355S-4	7000	800	76	5950~7700	380	50	2.8	5.6	58
LKW355M-4	10000	800	78	8500~11000	380	50	3.5	6.9	73
LKW355L-4	12500	800	79	1060~13800	380	50	4.5	8.8	80
LKW355SS-6	3500	500	70	2950~3900	380	50	1.1	2.8	42
LKW355S-6	6000	500	71	5100~6600	380	50	1.8	4.1	55
LKW355M-6	7000	500	72	5950~7700	380	50	2.0	4.6	68
LKW355L-6	8500	500	73	6800~8800	380	50	2.2	5.0	77
LKW400SS-4	4000	1000	75	3400~4400	380	50	2.8	5.7	70
LKW400S-4	5000	1000	76	4250~5500	380	50	3.5	6.9	75
LKW400M-4	6500	1000	77	5500~7200	380	50	4.5	8.8	80
LKW400SS-6	4000	600	67	3400~4400	380	50	1.8	4.1	65
LKW400S-6	5000	600	68	4250~5500	380	50	2.0	4.5	68
LKW400M-6	6000	610	70	5100~6600	380	50	2.2	5.0	72
LKW400M2-6	7000	600	71	5950~7700	380	50	2.5	5.6	75
LKW400L-6	8000	600	72	6800~8800	380	50	3.0	6.8	85
LKW450SS-6	7500	800	76	6350~8300	380	50	4.0	8.3	115
LKW450S-6	10000	800	78	8500~11000	380	50	4.0	8.3	122
LKW450M-6	15000	800	80	1275~16500	380	50	5.5	11.2	138
LKW450L-6	20000	800	82	1700~22000	380	50	7.5	15.0	160
LKW500SS-6	15000	1000	79	1275~16500	380	50	7.5	15.0	160
LKW500S-6	20000	1000	80	1700~22000	380	50	9.0	20.4	180
LKW500M-6	25000	1000	82	2125~27500	380	50	11.0	24.3	192
LKW500L-6	30000	1000	84	2550~33000	380	50	15.0	32.0	260

### 2. Three-phase Double-speed

LKW180S-4/6	700 460	200 85	59 57	350~800	380	50	0.12 0.05	0.33 0.17	9
LKW180M-4/6	950 630	200 85	60 58	550~1000	380	50	0.15 0.07	0.45 0.24	10
LKW180L-4/6	1200 800	200 85	61 59	650~1300	380	50	0.18 0.08	0.50 0.27	11
LKW200S-4/6	1200 800	300 130	60 58	650~1300	380	50	0.18 0.08	0.50 0.27	11
LKW200M-4/6	1500 1000	300 130	61 59	850~1700	380	50	0.22 0.10	0.57 0.37	12

LKW200L-4/6	1800 1200	300 130	62 60	1000~2000	380	50	0.26 0.12	0.70 0.42	14
LKW225S-4/6	1800 1300	320 150	63 61	1100~2000	380	50	0.30 0.14	0.84 0.44	14
LKW225M-4/6	2200 1600	320 150	64 62	1350~2400	380	50	0.37 0.16	1.0 0.58	15
LKW225L-4/6	2600 1900	320 150	65 63	1600~2900	380	50	0.45 0.20	1.2 0.8	16
LKW250S-4/6	2000 1500	350 180	65 62	1250~2200	380	50	0.37 0.16	1.0 0.58	17
LKW250S2-4/6	2000 1500	420 210	66 64	1250~2200	380	50	0.45 0.20	1.2 0.8	17
LKW250M-4/6	2800 2000	350 180	66 63	1700~3100	380	50	0.55 0.25	1.4 0.85	20
LKW250M2-4/6	3000 2200	420 210	67 65	1850~3300	380	50	0.65 0.30	1.7 0.95	20
LKW250L-4/6	3500 2500	350 180	67 64	2100~3900	380	50	0.65 0.30	1.7 0.95	25
LKW250L2-4/6	4000 2800	420 210	68 66	2350~4400	380	50	0.90 0.42	2.2 1.2	25
LKW250S3-4/6	2000 1500	500 240	67 65	1250~2200	380	50	0.45 0.20	1.2 0.8	17
LKW250M3-4/6	3000 2200	500 240	68 66	1850~3300	380	50	0.65 0.30	1.7 0.95	20
LKW250L3-4/6	4000 2800	500 240	69 67	2350~4400	380	50	0.90 0.42	2.2 1.2	25
LKW280SS-4/6	3500 2300	500 230	68 64	1950~3900	380	50	0.9 0.42	2.2 1.2	36
LKW280S-4/6	4000 2800	500 230	69 65	2350~4400	380	50	1.1 0.45	2.5 1.2	36
LKW280M-4/6	5000 3500	500 230	70 66	2950~5500	380	50	1.37 0.58	3.0 1.7	42
LKW280L-4/6	6000 4200	500 230	71 67	3550~6600	380	50	1.65 0.65	3.6 1.5	48
LKW300SS-4/6	4000 2500	550 260	71 65	2100~4400	380	50	1.1 0.45	2.5 1.2	36
LKW300S-4/6	4500 3000	550 260	72 66	2550~5000	380	50	1.2 0.5	2.7 1.3	36
LKW300M-4/6	5500 3800	550 260	73 67	3200~6100	380	50	1.65 0.65	3.6 1.5	42
LKW300L-4/6	6500 4500	550 260	75 68	3800~7200	380	50	1.8 0.85	4.2 1.9	46

LKW315SS-4/6	4000 2500	600 300	73 65	2100~4400	380	50	1.65 0.65	3.6 1.5	42
LKW315S-4/6	5000 3500	600 300	75 66	2950~5500	380	50	1.8 0.85	4.2 1.9	42
LKW315M-4/6	6500 4500	600 300	76 67	3800~7200	380	50	2.2 1.0	4.7 2.5	50
LKW315L-4/6	8000 5500	600 300	77 68	4650~8800	380	50	2.8 1.2	5.8 2.8	62
LKW355SS-4/6	4500 3000	800 400	75 70	2550~5000	380	50	2.2 1.0	4.7 2.5	47
LKW355S-4/6	7000 5000	800 400	77 71	4250~7700	380	50	2.8 1.2	5.8 2.8	60
LKW355M-4/6	10000 7000	800 400	78 72	5900~11000	380	50	3.5 1.5	7.2 3.5	75
LKW355L-4/6	12500 8500	800 400	79 73	7200~13800	380	50	4.5 2.0	9.1 4.3	82
LKW400SS-6/8	4000 3000	600 340	69 63	2550~4400	380	50	1.6 1.0	3.7 2.8	67
LKW400S-6/8	5000 4000	600 340	70 64	3400~5500	380	50	1.8 1.2	4.1 3.2	70
LKW400M-6/8	6000 5000	600 340	71 65	4250~6600	380	50	2.1 1.4	4.7 3.6	78
LKW400M2-6/8	7000 6000	600 340	71.5 65.5	5100~7700	380	50	2.4 1.6	5.4 4.1	84
LKW400L-6/8	8000 7000	600 340	72 66	5900~8800	380	50	3.0 1.8	6.6 4.6	90
LKW450SS-6/8	7500 5000	800 475	76 71	4250~8300	380	50	3.5 1.6	7.1 3.5	122
LKW450S-6/8	10000 7700	800 475	78 72	6500~11000	380	50	4.0 1.8	8.1 4.0	129
LKW450M-6/8	15000 11500	800 475	80 74	9700 ~16500	380	50	5.5 2.5	10.8 6.0	145
LKW450L-6/8	20000 15400	800 475	82 76	13000 ~22000	380	50	7.5 3.4	14.6 7.5	167

### 3.Three-phase Three-speed

LKW180S-4/6/8	700 460 350	200 85 50	59 57 54	300 ~800	380	50	0.12 0.05 0.02	0.33 0.17 0.08	9
LKW180M-4/6/8	950 630 470	200 85 50	60 58 55	400~1000	380	50	0.15 0.07 0.03	0.45 0.24 0.11	10

LKW180L-4/6/8	1200	200	61	500~1300	380	50	0.18 0.08 0.04	0.50 0.27 0.13	11
	800	85	59						
	600	50	56						
LKW200S-4/6/8	1200	300	60	500~1300	380	50	0.18 0.08 0.035	0.60 0.40 0.16	11
	800	130	58						
	600	75	55						
LKW200M-4/6/8	1500	300	61	600~1700	380	50	0.22 0.10 0.04	0.62 0.45 0.20	12
	1000	130	59						
	750	75	56						
LKW200L-4/6/8	1800	300	62	750~2000	380	50	0.26 0.12 0.05	0.80 0.59 0.26	14
	1200	130	60						
	900	75	57						
LKW225S-4/6/8	1800	320	63	750~2000	380	50	0.30 0.14 0.06	0.85 0.6 0.28	15
	1300	150	61						
	900	80	58						
LKW225M-4/6/8	2200	320	64	950~2400	380	50	0.37 0.18 0.09	1.05 0.61 0.3	16
	1700	150	62						
	1100	80	59						
LKW225L-4/6/8	2600	320	65	1100~2900	380	50	0.45 0.22 0.10	1.4 0.8 0.34	17
	1900	150	63						
	1300	80	60						
LKW250S-4/6/8	2000	350	65	850~2200	380	50	0.37 0.18 0.09	1.05 0.61 0.30	18
	1500	180	62						
	1000	90	59						
LKW250S2-4/6/8	2000	420	66	850~2200	380	50	0.45 0.22 0.10	1.40 0.80 0.34	18
	1500	210	64						
	1000	105	61						
LKW250S3-4/6/8	2000	500	67	850~2200	380	50	0.45 0.22 0.10	1.40 0.80 0.34	18
	1500	240	65						
	1000	120	62						
LKW250M-4/6/8	2800	350	66	1150~3100	380	50	0.55 0.27 0.13	1.50 0.85 0.35	21
	2000	180	63						
	1400	90	60						
LKW250M2-4/6/8	3000	420	67	1250~3300	380	50	0.65 0.32 0.16	1.90 0.93 0.38	21
	2200	210	65						
	1500	105	62						
LKW250M3-4/6/8	3000	500	68	1250~3300	380	50	0.65 0.32 0.16	1.90 0.93 0.38	21
	2200	240	66						
	1500	120	63						
LKW250L-4/6/8	3500	350	67	1450~7900	380	50	0.65 0.32 0.16	1.90 0.93 0.38	26
	2500	180	64						
	1750	90	61						



LKW250L2-4/6/8	4000 2800 1750	420 210 105	68 66 63	1450~4400	380	50	0.90 0.42 0.20	2.40 1.30 0.50	26
LKW250L3-4/6/8	4000 2800 1750	500 240 120	69 67 64	1450~4400	380	50	0.90 0.42 0.20	2.40 1.30 0.50	26
LKW280SS-4/6/8	3500 2300 1500	500 230 125	68 64 60	1250~3900	380	50	0.9 0.4 0.22	2.1 1.3 0.6	36
LKW280S-4/6/8	4000 2800 2000	500 230 125	69 65 61	1700~4400	380	50	1.1 0.5 0.24	2.6 1.45 0.7	36
LKW280M-4/6/8	5000 3500 2500	500 230 125	70 66 62	2100~5500	380	50	1.37 0.6 0.28	3.1 1.65 0.8	42
LKW280L-4/6/8	6000 4200 3000	500 230 125	71 67 63	2550~6600	380	50	1.65 0.7 0.33	3.8 2.0 0.9	48
LKW300SS-4/6/8	4000 2500 1800	550 260 140	71 65 61	1500~4400	380	50	1.1 0.45 0.2	2.6 1.3 0.5	38
LKW300S-4/6/8	4500 3000 2300	550 260 140	72 66 62	1950~5000	380	50	1.2 0.5 0.25	2.8 1.5 0.75	38
LKW300M-4/6/8	5500 3800 2800	550 260 140	73 67 63	2350~6100	380	50	1.65 0.7 0.33	3.8 2.0 0.9	44
LKW300L-4/6/8	6500 4500 3300	550 260 140	75 68 64	2800~7200	380	50	1.8 0.85 0.4	4.2 2.5 1.1	48
LKW315SS-4/6/8	4000 2500 1500	600 300 150	73 65 61	1250~4400	380	50	1.5 0.75 0.33	3.5 1.9 0.9	46
LKW315S-4/6/8	5000 3500 2500	600 300 150	75 66 62	2100~ 5500	380	50	1.8 0.85 0.4	4.2 2.0 1.1	46
LKW315M-4/6/8	6500 4500 3300	600 300 150	76 67 63	2800~7200	380	50	2.2 1.0 0.45	4.7 2.2 1.3	54
LKW315L-4/6/8	8000 5500 4000	600 300 150	77 68 64	3400~8800	380	50	2.8 1.2 0.5	5.8 2.5 1.5	66



LKW355SS-4/6/8	4500 3000 2000	800 400 200	75 70 65	1700~5000	380	50	2.2 0.8 0.4	4.5 2.1 1.1	52
LKW355S-4/6/8	7000 5000 3500	800 400 200	77 71 66	2950~7700	380	50	2.8 1.2 0.5	5.8 2.9 1.5	65
LKW355M-4/6/8	10000 7000 5000	800 400 200	78 72 67	4250~11000	380	50	3.5 1.6 0.8	7.6 4.5 1.7	80
LKW355L-4/6/8	12500 8500 6200	800 400 200	79 73 68	5200~13800	380	50	4.5 2.0 0.9	9.1 4.9 2.0	87

4. Single-phase Single-speed

LKW150S-4C	350	100	55	250~400	220	50	0.03	0.28	3.5
LKW150M-4C	450	100	56	350~500	220	50	0.03	0.28	4
LKW150L-4C	550	100	57	450~600	220	50	0.035	0.33	4
LKW150S-6C	250	60	52	200~300	220	50	0.02	0.20	3.5
LKW150M-6C	350	60	53	250~400	220	50	0.02	0.20	4
LKW150L-6C	400	60	54	300~400	220	50	0.02	0.20	4
LKW180S-4C	700	200	59	550~800	220	50	0.12	1.26	9
LKW180M-4C	950	200	60	800~1000	220	50	0.15	1.46	10
LKW180L-4C	1200	200	61	1000~1300	220	50	0.18	1.66	11
LKW180S-6C	450	90	56	350~500	220	50	0.06	0.50	9
LKW180M-6C	650	90	57	550~700	220	50	0.08	0.70	10
LKW180L-6C	800	90	58	650~900	220	50	0.10	0.81	11
LKW200S-4C	1200	300	60	1000~1300	220	50	0.13	1.33	11
LKW200M-4C	1500	300	61	1250~1700	220	50	0.16	1.57	12
LKW200L-4C	1800	300	62	1500~2000	220	50	0.2	1.76	13
LKW200S-6C	1000	150	57	850~1100	220	50	0.08	0.70	11
LKW200M-6C	1300	150	58	1100~1400	220	50	0.1	0.81	12
LKW200L-6C	1600	150	59	1350~1800	220	50	0.12	0.94	13
LKW225S-4C	1800	320	63	1500~2000	220	50	0.3	2.5	14
LKW225M-4C	2200	320	64	1850~2400	220	50	0.37	2.9	15
LKW225L-4C	2600	320	65	2200~2900	220	50	0.45	3.2	16
LKW225S2-4C	1800	360	63	1500~2000	220	50	0.3	2.5	14

LKW225M2-4C	2200	360	64	1850~2400	220	50	0.37	2.9	15
LKW225L2-4C	2600	360	65	2200~2900	220	50	0.45	3.2	16
LKW225S-6C	1500	160	61	1250~1700	220	50	0.09	L07	14
LKW225M-6C	1800	160	62	1500~2000	220	50	0.15	1.24	15
LKW225L-6C	2000	160	63	1700~2200	220	50	0.18	1.43	16
LKW250S-4C	2000	350	65	1700~2200	220	50	0.37	2.9	17
LKW250M-4C	2800	350	66	2350~3100	220	50	0.50	3.5	20
LKW250L-4C	3500	350	67	2950~3900	220	50	0.60	4.1	25
LKW250S-6C	1800	180	63	1500~2000	220	50	0.18	1.5	17
LKW250M-6C	2400	180	64	2000~2600	220	50	0.22	1.7	20
LKW250L-6C	3000	180	65	2550~3300	220	50	0.28	2.0	25
LKW250S2-4C	2000	420	66	1700~2200	220	50	0.42	3.2	17
LKW250M2-4C	3000	420	67	2550~3300	220	50	0.60	4.1	20
LKW250L2-4C	4000	420	68	3400~4400	220	50	0.80	5.5	25
LKW250S2-6C	1800	210	64	1500~2000	220	50	0.22	1.7	17
LKW250M2-6C	2600	210	65	2200~2900	220	50	0.28	2.0	20
LKW250L2-6C	3000	210	66	2550~3300	220	50	0.32	2.2	25
LKW250S3-4C	2000	500	67	1700~2200	220	50	0.42	3.2	17
LKW250M3-4C	3000	500	68	2550~3300	220	50	0.60	4.1	20
LKW250L3-4C	4000	500	69	3400~4400	220	50	0.80	5.5	25
LKW250S3-6C	1800	240	65	1500~2000	220	50	0.22	1.7	17
LKW250M3-6C	2600	240	66	2200~2900	220	50	0.28	2.0	20
LKW250L3-6C	3000	240	67	2550~3300	220	50	0.32	2.2	25

## 5. Single-phase Double-speed

LKW150S-4C2	350 250	100 80	55 53	200~400	220	50	0.03	0.28	3.5
LKW150M-4C2	450 350	100 80	56 54	250~500	220	50	0.03	0.28	4
LKW150L-4C2	550 400	100 80	57 55	300~600	220	50	0.035	0.33	4
LKW180S-4C2	700 460	200 85	59 57	350~800	220	50	0.12	1.26	9
LKW180M-4C2	950 630	200 85	60 58	550~1000	220	50	0.15	1.46	10

LKW180L-4C2	1200 800	200 85	61 59	650~1300	220	50	0.18	1.66	11
LKW200S-4C2	1200 800	300 130	60 58	650~1300	220	50	0.18	1.33	11
LKW200M-4C2	1500 1000	300 130	61 59	850~1700	220	50	0.20	1.57	12
LKW200L-4C2	1800 1200	300 130	62 60	1000~2000	220	50	0.25	1.76	13
LKW225S-4C2	1800 1300	320 150	64 61	1100~2000	220	50	0.30	2.5	14
LKW225M-4C2	2200 1600	320 150	64 62	1350~2400	220	50	0.37	2.9	15
LKW225L-4C2	2600 1900	320 150	65 63	1600~2900	220	50	0.45	3.2	16
LKW250S-4C2	2000 1500	350 180	65 62	1250~2200	220	50	0.37	2.9	17
LKW250S2-4C2	2000 1500	420 210	66 64	1250~2200	220	50	0.42	3.2	17
LKW250S3-4C2	2000 1500	500 240	67 65	1250~2200	220	50	0.42	3.2	17
LKW250M-4C2	2700 1900	350 180	66 63	1600~3000	220	50	0.55	3.5	20
LKW250M2-4C2	3000 2200	420 210	68 65	1850~3300	220	50	0.65	4.1	20
LKW250M3-4C2	3000 2200	500 240	69 67	1850~3300	220	50	0.65	4.1	20
LKW250L-4C2	3500 2500	350 180	68 64	2100~3900	220	50	0.65	4.1	25
LKW250L2-4C2	4000 2800	420 210	69 66	2350~4400	220	50	0.80	5.5	25
LKW250L3-4C2	4000 2800	500 240	70 68	2350~4400	220	50	0.90	5.5	25
6. Single-phase Three-speed									
LKW150S-4C3	350 250 200	100 80 60	55 53 51	150~400	220	50	0.03	0.30	3.5

LKW150M-4C3	450 350 250	100 80 60	56 54 52	200~500	220	50	0.03	0.30	4
LKW150L-4C3	550 400 300	100 80 60	57 55 53	250~600	220	50	0.04	0.40	4
LKW180S-4C3	700 460 350	200 85 50	59 57 54	300~800	220	50	0.12	1.26	9
LKW180M-4C3	950 630 470	200 85 50	60 58 55	400~1000	220	50	0.15	1.46	10
LKW180L-4C3	1200 800 600	200 85 50	61 59 56	500~1300	220	50	0.18	1.66	11
LKW200S-4C3	1200 800 600	300 130 75	60 58 55	500~1300	220	50	0.16	1.33	11
LKW200M-4C3	1500 1000 750	300 130 75	61 59 56	600~1700	220	50	0.20	1.57	12
LKW200L-4C3	1800 1200 900	300 130 75	62 60 57	750~2000	220	50	0.25	1.76	13
LKW225S-4C3	1800 1300 900	320 150 80	63 61 58	750~2000	220	50	0.30	2.5	14
LKW225M-4C3	2200 1600 1150	320 150 80	64 62 59	950~2400	220	50	0.37	2.9	15
LKW225L-4C3	2600 1900 1300	320 150 80	65 63 60	1100~2900	220	50	0.45	3.2	16
LKW250S-4C3	2000 1500 1000	350 180 90	65 62 59	850~2200	220	50	0.37	2.9	17
LKW250S2-4C3	2000 1500 1000	420 210 105	66 64 61	850~2200	220	50	0.42	3.2	17
LKW250S3-4C3	2000 1500 1000	500 240 120	67 65 62	850~2200	220	50	0.42	3.2	17



LKW250M-4C3	2800	350	66	1150~3100	220	50	0.55	3.5	20
	2000	180	63						
	1400	90	60						
LKW250M2-4C3	3000	420	67	1250~3300	220	50	0.65	4.1	20
	2200	210	65						
	1500	105	62						
LKW250M3-4C3	3000	500	68	1250~7300	220	50	0.65	4.1	20
	2200	240	66						
	1500	120	63						
LKW250L-4C3	3500	350	67	1450~3900	220	50	0.65	4.1	25
	2500	180	64						
	1750	90	61						
LKW250L2-4C3	4000	420	68	1450~4400	220	50	0.80	5.5	25
	2800	210	66						
	1750	105	63						
LKW250L3-4C3	4000	500	69	1450~7400	220	50	0.90	5.5	25
	2800	240	67						
	1750	120	64						
7. with brushless DC motor									
LKW180L-EC	1200	200	61						10
LKW200S-EC	1200	300	60						11
LKW200M-EC	1500	300	61						12
LKW200L-EC	1800	300	62						13
LKW225S-EC	1800	320	63						14
LKW225M-EC	2200	320	64						15
LKW225L-EC	2600	320	65						16
LKW225S2-EC	1800	360	63						14
LKW225M2-EC	2200	360	64						15
LKW225L2-EC	2600	360	65						16
LKW250S-EC	2000	350	65						17
LKW250M-EC	2800	350	66						20
LKW250L-EC	3500	350	67						25
LKW250S2-EC	2000	420	66						17
LKW250M2-EC	3000	420	67						20
LKW250L2-EC	4000	420	68						25
LKW250S3-EC	2000	500	67						17
LKW250M3-EC	3000	500	69						20
LKW250L3-EC	4000	500	70						25



### Work Environment

- 1) Altitude not more than 1000 meters;
- 2) The ambient temperature is not lower than - 25 °C, not higher than 40 °C;
- 3) The relative humidity of the environment shall not exceed 90%;
- 4) The conveying gas does not contain acid, alkaline and corrosive medium, and the dust content is not more than 150mg / m<sup>3</sup>.

When the working environment does not meet the above requirements, it needs to be explained when ordering. We can customize the product according to the specific site conditions.

### Performance Range

Flow: 400~33000 m<sup>3</sup>/h

Total pressure: 90~1000 pa

Beyond this range, please choose other series of our fan products, or contact our technical department for customization.

### Matters Needing Attention

#### **1. Before use, please check carefully:**

- (1) Whether the motor is intact;
- (2) Whether the connecting bolts are loose;
- (3) Whether there is serious deformation of fan volute, impeller, fan shaft and other components;
- (4) Rotate the fan impeller by hand, the hand induction rotation is stable, without obvious stuck phenomenon.

#### **2. Installation**

- (1) The grounding bolt of the fan shall be connected reliably;
- (2) It is strictly prohibited to use two speed or three speed fans in parallel on the electrical side. When using multiple fans, each fan must be controlled separately by an independent main circuit controller (contactor or frequency converter);
- (3) The fan shall be equipped with phase loss and overload protection devices;

#### **3. Start up and Operation**

- (1) Before starting the fan, check the working power supply, which must be within  $\pm 5\%$  of the rated voltage and  $\pm 1\%$  of the rated frequency;
- (2) The rotation direction of the fan impeller shall be the same as that of the turning mark;
- (3) The operating current of the fan shall not exceed the defined current, otherwise the motor will be damaged or burnt;
- (4) When the fan is running, it is strictly prohibited to extend the body or foreign matters to the inside of the fan, and it is strictly prohibited to approach the belt and pulley to avoid danger;
- (5) Before starting the single-phase fan, close the air valve of the outlet channel, otherwise it may be difficult to start;
- (6) High speed start shall be selected for two speed or three speed fans, and the fan shall be switched to a lower speed after normal operation.