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LKT系列离心式空调风机技术手册 The LKTSeries Centrifugal Fan







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ZHEJIANG LION KING VENTILATOR CO., LTD.

企业理念

Qualification Certificate

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Based on Honesty, Innovation to Promote Development, Mutual Benefits Lead to Great Future

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Honesty is the foundation of LION KING. We consistently pursue good faith as our principle. We advocate our managers and employees operating honestly, and we advocate to develop with society, customers and partners in harmony to make our company to exist more than one hundred years.

Innovation is the source of vitality of LION KING. We advocate innovation, and actively create good atmosphere for innovation, such as respecting talents, respecting knowledge, respecting hardworking, respecting creation. And in practice, we continue to promote innovation of our system, mechanism, technologies and products.

Mutual benefits are the way to lead us to a great future. With honest attitude, pragmatic work style and innovative thinking, we'll try our best to achieve multi—win situation for our company, employees, customers, partners and the society, which will help us for a long—time sustainable development.





产品简介

Productd introduction

前向多翼离心式空调风机

风机流量:1000m3/h~40000m3/h

性能:达到国家1级能效要求

Forward curved multi-blades centrifugal fan Air Volume Range:1000m3/h National standard of energy efficiency: reach to grade 1 energy efficiency

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LKT系列离心风机技术手册 The LKT Series centrifugal Fan



概述 Outline

1

LKT系列离心式空调风机流量从1000m³/h-4000m³/h,具有结构紧凑、效率高、噪声低等 特点,是各类柜式中央空调机组、管道式机组 及其它暖通、空调、净化、通风设备理想的配 套产品。

LKT series centrifugal ari–conditioning ventilators volum ranging from 1000m³/h-40000m³/h, they are characterized by compact construction. high efficiency and low noise. They are the ideal subsidiary equipment for various cabinet central air–conditioning units, tube units and heating, air–conditioning, cleansing and ventilating equipments.

产品型式 Type of Product



1. 旋向

LKT系列风机可分为左旋(LG)和右旋(RD)两种旋转方式,从风机皮带轮一端正视,叶轮顺时针旋转的称为右旋风机,逆时针旋转的称为左旋风机,皮带轮可左右调向,因此不受左右方向的 問到。

2. 出风口方向

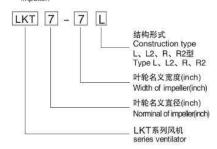
LKT系列风机可按图 1 所示制成 0°、90°、180°、 270°四种出风方向。

产品命名方式 Designation of Products



LKT系列风机命名方式由风机系列代号、叶轮名 义直径、叶轮名义宽度、结构形式组成。

The nomenclature of LKT series is composed of nominal diameter of imper and nominal width of impeller.



1. Direction of Rotation

Series ventilator can be devided into two direction of rotations, left-hand rotation (LG) and right hand rotation (RD); Viewing from end of motor outlet line, if the impeller rotates clockwise, it is called right hand ventilator; If the impellerrotates anti-clockwise, it is called left hand ventilator. The pulley can adjust its direction, left or right, therefore there is no limitation in directionality.

2. Direction of Air Outlet

According to Fig 1, LKT Series ventilator can be made in four air–outlet directions:0°,90°,180°, and 270°.

	0°	90°	180°	270°
左旋 LG Left Hand				
右旋 RD Right Hand				

图1 (Fig1)

3. 结构形式

LKT系列风机可按图2所示制成L型、LK型、R型、RK型、L2型、R2型。

3. Type of structure

According to Fig 2, LKT series ventilators can be divided into Category L . LK . R . RK Category L2 . R2.

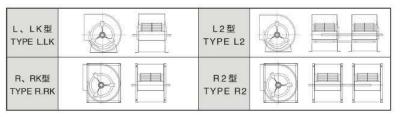


图2 (Fig2)

产品结构 Construction of Product



LKT 系列风机主要由机壳、叶轮、框架、轴承、 轴构成。

1. 机壳

机壳采用热镀锌钢板制造,侧板具有符合空气 动力的外形,进风口整体拉伸成型,蜗板采用 点焊的方式与侧板连成一体。

机壳侧板上预设了一系列的孔,以便按用户要求的出风口方向进行安装。

2. 叶轮

叶轮采用优质热镀锌钢板制成,叶片设计成符 合空气动力的特定形状,使得效率最高、噪声 最低。叶片用铆爪固定在中盘及端圈上,在最 大功率连续运转时,叶轮将具备足够的刚度。叶 轮出厂前按高于国家标准的内控动平衡等级全 检合格。

3. 框架

R型风机框架采用热镀锌钢板剪切、折弯制成, TOX免焊连接保证了所需的尺寸精度和应有 的刚度: LKT series ventilators are mainly consisted of scroll, impeller, frame bearing and shaft.

1). Scroll

The scroll is made of hot galvanizing steel sheet. Its side plate has an outline complying with aerodynamics. The scroll plat fixed to the side plates by means of "electric spot welding".

On the side plate of the scroll there are a series of holes drilled in advance for riveting nuts to carry out installation according to air outlet direction needed by the customer.

2. Impeller

The impeller is made of high grade hot galvanizing steel sheet and is designed to a special configuration according to aerodynamics to make the efficiency highest and the noise lowest. The impeller is fixed on the middle disk plate and on the end ring with riveling grippers. The impeller has enough rigidity during continuous rotation with maximum power. Before leaving factory, all impellers have passed all—round dynamic balance test according to the Company Standard which is higher level than National Standard.

3. Frame

The frames for type R ventilators are made of galvanized steel angle iron bars. The outting and bending of the frame parts, as well as the TOX connections, are formed with the use of molds to assure their high accuracy and the rigidity of the frames.

01 _______ 02

4. 轴承

LKT系列风机均采用优质滚珠轴承,并根据噪声最低来选择,该轴承预先加润滑油并自动对中。轴承安装在轴承支架上,并设有防振垫圈。

5. 轴

风机轴采用40Cr或45#钢经粗加工、调质处理 及磨削加工制成,严格控制轴径尺寸公差及形 位公差,每根轴均经过涂覆防锈处理。

风机性能 Performance of Ventilator



该技术手册中风机性能均指在标准状态下的性能,即风机进气状态为:

进气压力 Pa = 101.325KPa 进气温度 t = 20 ℃ 进气气体密度 ρ= 1.2Kg/m³

若用户实际使用的气体进气状态或使用的风机转 速改变时则可按下列关系式换算:

$$\begin{split} \frac{G_0}{Q_0} &= \frac{1}{n} \\ \frac{P_0}{P_0} &= \frac{n^{12}}{n^2} \cdot \frac{\rho^1}{\rho} & \frac{P_0}{P_0} &= \frac{n^{12}}{n^2} \cdot \frac{P_0}{\rho_0} \cdot \frac{273+t}{273+t^2} \\ \frac{Nin_0}{Nin_0} &= \frac{n^{13}}{n^3} \cdot \frac{\rho^1}{\rho} & \frac{Nin_0^1}{Nin_0} &= \frac{n^{13}}{n^3} \cdot \frac{P_0}{\rho_0} \cdot \frac{273+t}{273+t^2} \end{split}$$

上述式中

- 流量Q₀(m³/h)、全压P₀(Pa)、转速n(r/min)、 内功率Nin₀(Kw)由性能曲线图上查得。
- 右上角加符号 "*" 的则为用户实际使用气体 进气状态下所需的性能参数。
- 上式中略去了相对湿度的差别。
- 2. 性能曲线图上的功率Nino是指风机的内功率。
- 风机轴功率: Ns = Nin√nm
 式中: Ns 风机轴功率
 nm 风机机械效率
 风机机械效率
 风机机械效率

4. Bearing

LKT series ventilators are made of ball bearings of high quality, which are chosen according to the lowest noise produced. These bearingsare air—sealed, with preset lubricating oil, and of automatically alignment. The bearings are assembled on the support and vibration—proof rings arealso provided.

5. Shaft

The shafts are made of 40Cr of C45 carbon steel bars. The shafts are rough machined and then stress relieved before final machining. The shaft diameters are machined to very accurate tolerance levels and they are fully checked to assure precision fits, they are coated after assembly in order to provide corrosion resistance.

 The ventilator performance in this catalogue denotes the performance in standard conditions. It denotes air inlet conditions of ventilator as follows:

Air inlet pressure $P_a = 101.325$ KPa Air temperature I = 20 °C Inlet gas density p = 1.2Kg/m³

If the practical air inlet conditions of constomer or the speed of the operating ventilator changes, the conversion can be carried out according to the following expression:

$$\begin{split} \frac{Q_{s}}{Q_{s}} &= \frac{n}{n} \\ \frac{P_{s}}{P_{o}} &= \frac{n^{12}}{n^{2}} \bullet \frac{\rho'}{\rho} \\ \frac{P_{s}}{P_{o}} &= \frac{n^{12}}{n^{2}} \bullet \frac{Pa'}{\rho} \bullet \frac{273+t}{273+t'} \\ \frac{Nin_{s}}{Nin_{s}} &= \frac{n^{13}}{n^{3}} \bullet \frac{Pa'}{Pa} \bullet \frac{273+t}{273+t'} \\ \frac{Nin_{s}}{Nin_{s}} &= \frac{n^{13}}{n^{3}} \bullet \frac{Pa'}{Pa} \bullet \frac{273+t}{273+t'} \end{split}$$

where

- Volume Q₀(m³/h), total pressure P₀(Pa), speed n(r/min) can be obtained from Performance chart.
- Asterisk (*) on the upper right corner denotes the performance parameter needed by the customers in practical gas inlet conditions.
- The difference in relative humidity is omitted from the abovementionedformulas.
- 2. The power (Nin_o) on the performance chart the internal power of the ventilator.
- Shaft power of ventilator: Ns = Nin_o/ηm
 where: Ns-Shaft power of ventilator
 η m-Mechanical efficiency of ventilator

The value of mechanical efficiency of ventilator can be obtained from Table 1.

风机传动方式 Way of ventilator driving	ηm
电机直联传动 Electric motor directly driven	1
联轴器直联传动 Coupling directly driven	0.98
三角皮带传动 V-belt driven	0.95

表1(Table1)

 配套电机的功率: N = Ns·K 式中: N - 配套电机的功率 K - 电机容量安全系数 电机容量安全系数的取值方法可参照表2。

3. L2 型、R2型双联风机性能与L型、R型风机曲线上所示性能比较,在压力相同情况下,双联风机性能如下:

风量 x2 转速 x1.05 内功率 x2.15 噪声 +3

 本样本中的风机性能按 GB/T1236-2000 标准检测,风机噪声指标是按GB/T2888-2008 标准任离进风口1米处测定的声压级指标。 Power of matching electric motor: N = Ns · K
 here: N-Power of matching electric motor
 K-Safety coefficient of electric motor capacity

The value of safety coefficient of electric motor capacity can be obtained from Table 2.

3. Comparing the performance of the twin ventilator of Category L2 and Category R2 with the performance of Category L and Category R1 in the chart, in the same condition of pressure, the twin ventilators' performance is as the following.

Volume x 2 Speed x 1.05 Inner Power x 2.15 Noise +3

 The performance of the sample ventilator is tested in accordance with GB/T1236-2000. Its noise index is measured according to GB/T2888-2008 at the point 1 metre from the inlet.

电动机功率 power of electric motor(Kw)	K 值 value k
≤ 2.2	1.2
≤ 11	1.15
>11	1.1

表2 (Table2)

皮带传动安装 V-Belt drive installation



ZID RESIZER V BOX GITVO III Otaliatio

- 拆除风机轴端的保护并检查有无缺口和毛刺;
 检查风机和电机轴之间的平行度;
- 2. 检查风机和电机轴之间的平行度;
 3. 中心距应控制在0.7(d1+d2)
- 4. 将皮带轮套在轴上滑进去,不要敲击,以免损伤轴承;

倾风机皮带速度应控制在10~15m/s;

- 5. 用一根直尺把风机和电机上的带轮对齐并紧固; 6. 把皮带套进皮带轮,不要撬、挤压,以免损 作皮带。
- 7.调整张紧度直至皮带看起来松紧适度,风机运行几分钟后,再调整皮带至合适的张紧度; 8. 关掉风机,移动电机座以调整张紧度,当风机工作时,皮带紧的一边应是两个皮带轮连成的一直线。松的一边有轻微弧形。
- Remove the protective coating from the ends of the fan shaft and assure that the shaft ends are free of nicks and burrs.
 Check fan and motor shafts for parallel and angular alignment.
- The center distance must be controlled as 0.7(d1+d2)
 the belt speed of fan should be more han 10m/s,but less than 15m/s, (10<v<15m/s).
- Slide sheaves on to the shafts—do not drive the sheaves on to the shafts as this may result in bearing damage.
 Align fan and motor sheaves with a straight—edge or string, and
- tighten.
 6. Place belts over the sheaves with carefull, otherwise the belts
- will be damaged.
 7. Adjust the belt tension until the belts appear snug. Run the unit
- for a few minutes and allow the belts to set properly.

 8. Switch off the fan, adjust the belt tension by moving the motor base.
- 8. Switch off the ran, adjust the bett tension by moving the motor base. When in operation, the tight side of the belts should be in a straight line from sheave to sheave and there should be a slight bow on the slack side.

03







Proper



Offset







皮带张紧度 Belt tenstion

合适的皮带张紧度对使用寿命来说很重要。太 紧会给皮带和轴承带来额外的负载,降低它们 的使用寿命; 太松则会出现打滑现象而产生热 能并严重降低皮带的寿命。

皮带张紧度量具可用来判断皮带是否松紧合适。 量具本身带有一个尺表,根据皮带轮中心距和 横截面确定皮带张紧力的大小。

如果没有皮带张紧度量具,应调节皮带松紧至 风机启动时皮带不发出异常叫声为止, 如发出 短促的叫声也是允许的。

拉紧皮带后、开动风机之前, 须重新检查皮带 轮的对齐情况,如有必要则重新调整对齐。新 皮带在刚开始使用时可能会有点拉伸, 应在运 行几天后重新检查皮带张紧度。

注意: 风机长期停车应把皮带放松, 在使用时重 新调整皮带的张紧度。风机长期停车转子每隔一 定时间,旋转1800,以防主轴静态变形弯曲。

Belt tension indicator applied to mid centre distance.

中心距有关的皮带张紧度指示



A proper level of belt tension is required in order to obtain a satisfactory belt life. If the belt tension levelis too high, then excessive loads will be imposed on the bearings, and this will reduce the lives of both of these components. If the belt tension level is too low, then the belt will slip. Belt slippage generates a large amount of heat, and this beat will drastically reduce the life of a belt.

Belt-tensioning gauges can be used to determine whether the belts are tensioned properly. A chart is normally supplied with the gauge which indicates the rangees of forces required to deflect the belts by a given amount to obtain the proper belt tension level. The required forces are based upon the center distance of the sheaves and the belt cross-section, the belts are properly tensioned when the forces required to deflect the belt are within the specified range, if a belttensioning gauge is not available, then the belt should be tightened just enough so that the belt does not squeal when the ventilator is started. A very short period of noise during the starting of a ventilator is allowable, but a squeal lasting several seconds or longer is not acceptable. After tensioning the belts and before starting the ventilator, check to make sure that the sheaves are properly aligned. Realign the sheaves if necessary. Note that new belts may stretch a little during initial use, so the belt tension level should be checked after a few days of operation. Note: The belt should be released if the ventilator do not run in a long time, and until the fan is to be used over again, the bell tension level must to be just again. The rotor should be turned 180 degree at regular intervals when the ventilar don't use in a long time to avoid the static static state distortion of the shaft.

皮带截面 Belt Section	使皮带向下移动16mm径向距离1米所需的力 Force required to deflect belt 16mm per metre of span										
	推築力(小技術較直径) Smiall Puller Diamter (non)	#48 Newton(N)	干克力 Kilogram force (Kgf)								
SPZ	56-95	13-20	1.3-2.0								
SPZ	100-140	20-25	2.0-2.5								
on.	80-132	25-35	2.5-3.6								
SPA	140-200	35-45	3.6-4.6								
	112-224	45-65	4.6-6.6								
SPB	236-315	65-85	6.6-8.7								
	224-335	85-115	8.7-11.7								
SPC	375-560	115-150	11.7-15.3								
Α	80-140	10-15	1.1-1.5								
В	125-200	20-30	2.0-3.1								

轴承润滑 Bearing lubrication

风机轴承配有支架和减震橡胶圈, 轴承已预先 润滑,不必在开动前涂润滑油。带座轴承在油 脂超过有效期时, 可通过加油嘴注入润滑油。 润滑油有效期取决于油脂类型、轴承的转速和 工作温度。判断是否需要加油的最好办法是当 加新油时观察清除下来的旧油脂, 如果清除下 来的油脂看起来还像是新的, 可延长换油脂的 间隔。如果清除下来的油脂比新的黑得多那表 明油脂已氧化,应缩短换油脂的间隔。

说明 Instructions

- 1. 在安装前应对风机各部件进行检查,对叶 轮、轴和轴承等主要部件应重点细致检查,若 有损伤应修复后再安装使用。
- 2. 风机安装后应检查机壳内是否有遗留的工具、 杂物等。
- 3. 风机安装后用手或杠杆拨动叶轮,检查是否 有过紧或碰撞现象,确认无这些现象时方可进 行试转。
- 4. 风机配用电机功率是指在特定工况下,风机 内功率加上机械损失与电机容量安全系数而言, 并非出风口全敞开时所需的功率, 因此为防止 电机超功率运转而烧毁, 严禁风机出风口及进 风口不接管路或未加外界任何阻力进行空运转。
- 5. 风管与风机出风口之间应采用软连接,接头 不得拉得过紧。
- 6. 风机正式运转前,需检查电机的转向是否符 合风机转向的要求。
- 7. 订货时须注明风机型号、转速、风量、风压、 出风口方向和旋转方向以及电机型号规格。标 准型风机不带法兰,如需法兰在订货时注明。
- 8. 若需配套皮带、皮带轮、电机、安装底座等 配件或其它特殊要求可在订货时提出。

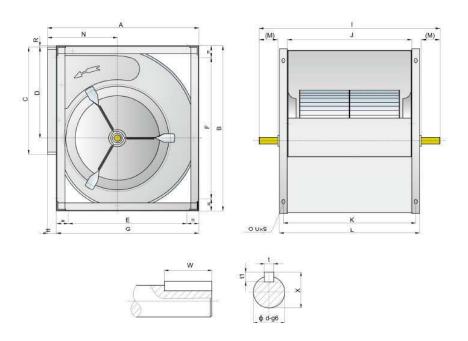
The ventilator bearings are filled with lubricant they come from the factory, so the bearings do not require any additional grease to be supplied before starting the ventilator. The ventilator that are equipped with pillow block bearings are provided with lubrication fittings, and these fittings allow for additional lubrication to be supplied to the bearings at regular intervals. The allowable period of time between lubrication of these bearings depends upon the operating speeds and temperatures of the bearing as well as on the type of grease used. The best way to determine the required frequency of lubrication is to inspect the condition of the grease that is discharged from the seals when new grease is added. If the discharged grease looks similar to the new grease, then a longer period of time between lubrications is possible. If the discharged grease is much darker than the new grease, the this indicates that the grease is being oxidized and more frequent lubrications of the bearings are required.

- 1. Prior to installation, all parts of the ventilator should be inspected. Greatand careful attention should be taken to shaft, bearings and main parts for checking. If there is some damage, recovery should be made, then to install again for use.
- 2. Check the internal space of the scroll and other casings, tools and other extra matters should not be left inside.
- 3. After installation, turn its impeller by hand or by means of lever to check for tightness or shock. Make sure that there is no such phenomenon over there, trial operation can be carried out.
- 4. Matching electric motor power of ventilator denotes internal power plus mechanical loss during driving and safety coefficient of electric motor capacity in special operating condition, it does not denote the power required during full opening of air outlet. Therefore no-load running of ventilator without any applied resistance including connecting pipelines on air-inlet or aoroutlet is strictly prohibited in order to avoid burning out of the motor caused by its operation at over rated power.
- 5. Soft connection between air pipe and ventilator air-outlet should be made. The joints should not be tightened too much.
- 6. Prior to official operation of ventilator, it is necessary to check the rolating direction of both motor and ventilator for their coordination
- 7. During ordering it is necessary to state the type of ventilator. speed, air volume, air pressure, direction of air outlet, rotating direction, type of electric motor and its specifications.
- 8. If the customer needs matching belts, pulley, electric motor, mountingframe and other parts and requirements, please state at that time.

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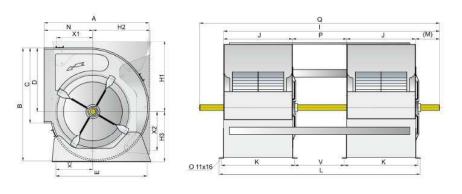
LKT-R (RK)

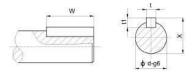


注:尺寸单位为毫米 Note:the size unit the form is mm

Modle Dim	A	В	С	D	E	F	G	Н	1	J	K	L	М	N	R	t	t1	W	х	d	UxS
LKT7-7R	323	336	228	192	180	180	294	29	400	259	281	299	50	152	6	6	6	40	22.5	20	9x12
LKT8-8R	348	370	256	216	224	224	314	34	450	287	312	337	55	164	3	6	6	40	22.5	20	9x12
LKT9-7R	385	399	262	215	274	324	349	36	390	232	254	272	58	185	6	6	6	40	22.5	20	9x12
LKT9-9R	385	399	262	215	274	324	349	36	460	298	320	338	60	185	6	6	6	40	22.5	20	9x12
LKT10-8R	431	455	289	249	330	390	395	36	425	265	287	305	59	203	6	8	7	40	28	25	11x16
LKT10-10R	431	455	289	249	330	390	395	36	490	331	353	371	58	203	6	8	7	40	28	25	11×16
LKT12-9R	494	527	341	294	371	443	458	36	490	309	339	369	59	230	3	8	7	50	28	25	11x16
LKT12-12R	494	527	341	294	371	443	458	36	580	395	425	455	61	230	3	8	7	40	28	25	11×16
LKT15-11R	575	619	402	294	449	531	539	36	590	373	403	433	77	266.7	4	8	7	50	28	25	11x16
LKT15-11RK	575	619	402	343	449	531	539	36	625	373	403	433	99	266.7	4	8	7	65	33	30	11x16
LKT15-15R	575	619	402	343	449	531	539	36	680	471	501	531	73	266.7	4	8	7	50	28	25	11x16
LKT15-15RK	575	619	402	343	449	531	539	36	725	471	501	531	100	266.7	4	8	7	65	33	30	11x16
LKT18-13R	690	751	478	415	544	641	654	36	660	430	470	510	74	314	6	8	7	55	28	25	11x16
LKT18-13RK	690	751	478	415	544	641	654	36	660	430	470	510	89	314	6	10	8	55	38	35	11x1
LKT10-18R	690	751	478	415	544	641	654	36	780	557	597	637	70	314	6	- 8	7	55	28	25	11×16
LKT18-18RK	690	751	478	415	544	641	654	36	780	557	597	637	89	314	6	10	8	70	38	35	11x16

LKT-L2





注:尺寸单位为毫米 Note:the size unit the form is mm

Dim Modle	Α	В	С	D	E	I	J	K	L	М	N	х	t	t1	w	D	Н1	H2	НЗ	X1	X2	Х3	Р	Q	٧
LKT7-7L2	312	327.5	228	192	160	. 2	259	289	762	80	152	22.5	6	6	50	20	215	185	155	80	80	80	184	860	154
LKT8-8L2	345	364	256	216	190	-	287	317	848	96	164	22.5	. 6	6	50	20	239	204	175	95	80	95	214	980	184
LKT9-7L2	380	387	262	215	260	12	232	262	708	91	185	22.5	8	6	60	20	236	195	173	127.5	100	90	184	830	154
LKT9-9L2	380	387	262	215	260	-	298	328	900	90	185	28	8	7	60	25	236	195	173	127.5	100	90	244	1020	214
LKT10-8L2	425	444	289	249	300	2	265	295	804	90.5	203	28	8	7	60	25	273	222	198	143	110	100	214	925	184
LKT10-10L2	425	444	289	249	300	-	331	361	986	89.5	203	28	8	7	60	25	273	225	198	143	110	100	264	1105	234
LKT12-9L2	491.5	521.5	341	294	370	. 2	309	339	922	109	230	28	8	7	60	25	314.5	275	241	190	150.5	163	244	1080	214
LKT12-12L2	491.5	521.5	341	294	370	1224	395	425	1174	110	230	33	8	7	80	30	314.5	275	241	190	150.5	163	324	0	294
LKT15-11L2	569	622	404	342	430	1170	373	403	1100	130	264	33	8	7	90	30	362.5	324	280	214	182	204	294		264
LKT15-15L2	569	622	404	342	430	1456	471	501	1386	130	264	33	8	7	90	30	362.5	324	280	214	182	204	384	10.00	354
LKT18-13L2	683	739	478	415	540	1343	430	460	1263	140	314	38	10	8	90	35	440	385	340	270	270	270	343		313
LKT18-18L2	683	739	478	415	540	1702	557	587	1632	130	314	38	10	8	90	35	440	385	340	270	270	270	458	-	428

注:LKT7-7至LKT12-9系列风机为双出轴

LKT12-12至LKT18-18系列风机为单出轴

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