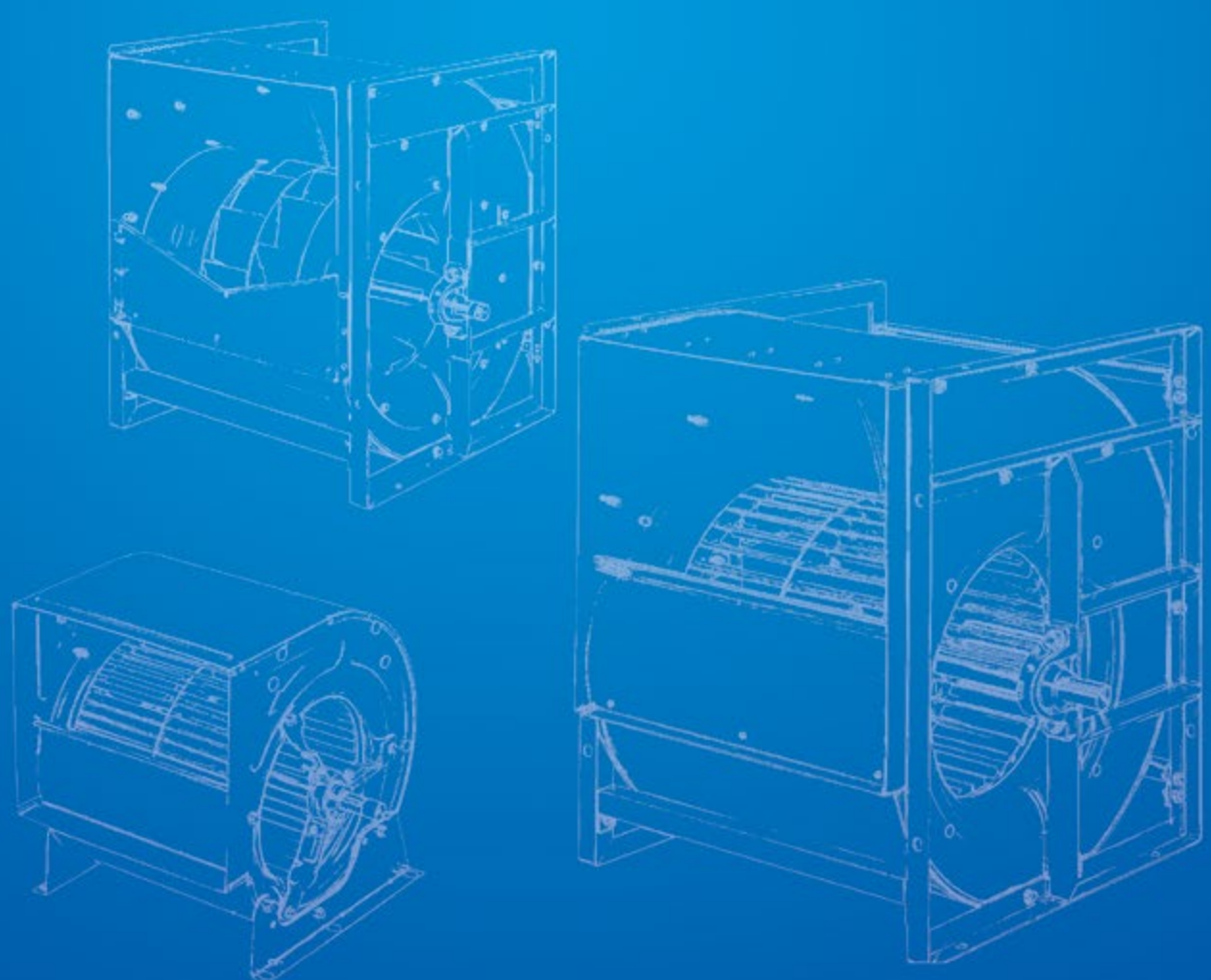
增锦®
ZENGJIN

山东增锦风机有限公司

Shandong Zengjin fan Co., LTD

KTQ系列/KTH系列/KTY系列
离心式空调风机



中国 · 山东
Shandong · China

企业简介
CORPORATE CULTURE

山东增锦风机有限公司是专业生产空调风机和生产通风设备的综合性企业，公司技术力量雄厚，生产设备先进，检测设备完善，产品设计采用国内外先进工艺，质量控制严格。本公司开发生产的KTW系列、RD系列、AC系列、EC系列、KTQ系列和KTH系列产品，共计200余个品种，是空调机组、管道通风、空气净化除尘、除湿烘干机设备、建筑通风、厨房排烟等设备及工程的理想配套产品。

公司注重科研投入，不断开拓创新，引进一批优秀科研、管理人才和国内外先进的加工设备，并与科研单位携手合作，致力于产品开发创新，促进成果转化，不断增强企业的市场竞争力和产品创新能力。2021年公司经过不断发展创新，坚定不移地贯彻执行“科学、严谨的管理，严格把控产品质量和现场管理”，顺利通过了中国制冷空调行业CRAA认证。

公司奉行“品质至上，精益求精，学以载道，诚信为本”的经营理念，建设诚信、勤劳和创造的团队，凝聚行业人才和资源，立志成为中国和全球最好的供应商。公司精诚与广大海内外客户合作，用优质的通风和空调产品，为人类的工作和生活提供更清洁舒适的空气环境，创造更辉煌美好的未来。

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企业资质 ENTERPRISE QUALIFICATION

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KTQ 系列离心式空调风机 Centrifugal Ventilators

概述 Summary

KTQ系列离心式空调风机采用国际同类产品先进技术自行开发生产。该样本中列出的15种规格风机，流量范围从1000m³/h-100000m³/h。KTQ系列风机采用前向多翼叶轮，具有通用性强、效率高、噪音低、耗能少等特点。是各类中央空调机组及其他暖通空调、净化、通风等设备理想的配套产品。

The KTQ Series of centrifugal air conditioning fan was developed with advanced technologies.The KTQ Series includes 15 models as described in this catalogue.The volume flow of the KTQ Series ranges from 1,000m³/h to100,000m³/h. Some of the features and characteristics of thesefans are: forward Wheel blades, a wide range of applications,high efficiency, low noise, and low power consumption.Thesefans are ideal for use in central air conditioning systems, inpurifiers.They are also suitable for use in a variety of other ventilation applications.

命名方式 Nomenclature

KTQ 200 L

- L — 结构型式 Construction type
  - L,R型(基本型) Type L, R (Basic Model)
  - K型（加强型） Type K (Heavy Duty Model)
- 200 — 叶轮直径(mm) Diameter of Wheel (mm)
- KTQ — 前向离心风机系列代号 Fan series with forward curved blades

产品型式 Product Features

1、旋向

KTQ 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。

1. Rotation

KTQseries fans have two direction of rotations, left-hand rotation (LG) and right-hand rotation (RD); Viewing from drive side, if the Wheel rotates clockwise, it is left hand (LG) rotation. If the Wheel rotates counter clockwise, it is right-hand (RD).

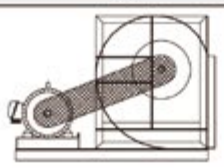
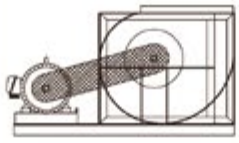
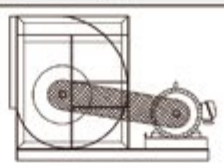
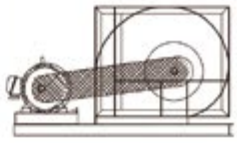
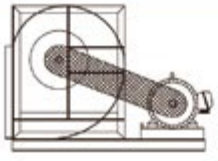
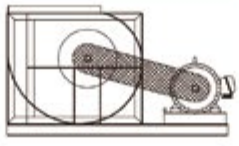
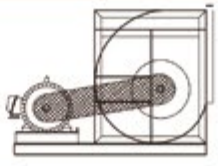
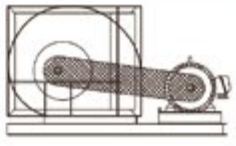
2、出风口方向

KTQ系列出风口可按图1所示制成0° 、90° 、180° 、270° 四种出风方向。

2. Discharge Direction

As shown in Fig1, KTQ Series ventilator can be constructed in four discharge directions: 0° , 90° , 180° , and 270° .

图1(Fig 1)

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

产品结构 Construction of Product

KTQ系列风机主要由机壳、叶轮、框架、轴承及轴构成。
出口法兰（为可选件）。

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,蜗板采用点焊或"Pittsburg seam locking"的连接方式与侧板连成一体。

2、叶轮

前向多翼叶轮采用优质热镀锌板钢板制成,叶片设计成符合空气动力学的特定形状，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。所有叶轮进行静平衡和动平衡测试,内控精度达到G2.5级(ANSI/AMCA 204-05)。

3、框架

L、R型风机框架采用热镀锌钢板剪切、折弯制成，TOX连接保证了所需的尺寸精度和应有的刚度；K 型风机框架由角钢和扁钢冷弯焊接制成，轴承安装位进行对称铣平面加工,表面喷塑处理,以保证足够的刚度和强度，同时保证安装轴和轴承的同心度。

4、轴承

KTQ系列风机均采用优质滚珠轴承，并根据噪声最低来选择轴承型号；L/R 型风机的轴承安装在轴承支架上，并设有防振垫圈，该轴承已预先加润滑油并自动对中,免维护；K 型风机则采用带座偏心套轴承。轴承设计寿命为L10≥100000小时。

5、轴

风机轴采用40Cr低合金钢，经车、调质热处理、磨削制成，强度高，挠度小，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。轴尺寸设计应满足第一临界转速至少为风机最大运行转速的1.4倍。

6、出风口法兰

法兰采用热镀锌钢板制成，法兰与蜗壳的连接采用 TOX免焊工艺，外观精美，并具有足够的刚度与强度。

KTQseries fans are mainly constructed of housing, Wheel, frame, bearing and shaft. Outlet flange (is optional).

1. Housing

The housing is made of hot galvanized steel sheet. The side plates include inlets cones that are designed with the best aerodynamics for inlet condition. The scroll is fixed to the side plates by spot welding or "Pittsburg seam locking".

2. Wheel

Forward curved Wheel is constructed of high-grade hot galvanized steel sheet with the advanced aerodyamics profile to achieve the highest efficiency and the lowest noise level. The Wheel is fixed on the certer plate and on the end ring with riveting grippres. The Wheel is constructed with maximum strength that endure the continuous operation with maximum power. All Wheels are balanced to ANSI/AMCA Standard 204-05. Zengjin's internal standard is G2.5 or higher for wheel balancing.

3. Frame

The frames for type L, R construction are made of galvanized steel angle iron bars. The cutting and bending of the frame parts, as well as the TOX connections, are formed with the use of toolings to assure the high accuracy and the rigidity of the frames; The farmes for K constructions are welded by angle steel and flat steel, and finished with polyester coating in order to ensure sufficient rigidity and strength. The bearing supports are machined to ensure proper installation and alignments of the bearings.

4. Bearings

The KTQ series fans are using high-quality ball bearings. They are selected to minimize the noise levels. For type R and L fans, the bearings are mounted on bearing bracket as well as shock-proof washer. The bearings are pre-lubricated, sealed, self-centering and maintenance-free. For type K fans are supplied with eccentric shaft bearings. The bearing design life (L10) is above 100000 hours.

5. Shaft

The shafts are made of 40 Cr carbon steel bars. The shafts are rough machined and then stress relieved with heat treatment before final machining. The shaft diameters are machined to very accurate tolerance levels and they are fully checked to ensure precision fit. Each shaft is made turned, ground and polished. They are coated after assembly to provide corrosion resistance. Shaft size should be designed to meet the first critical speed of at least fan maximum running speed 1.4 times.

6. Outlet Flange

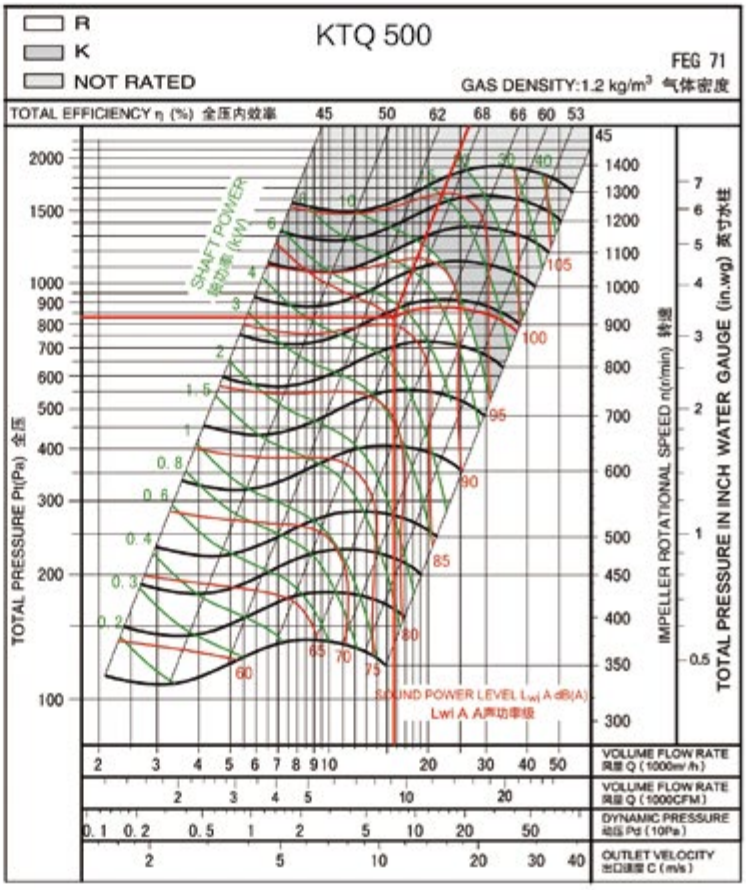
The outlet flange is made of galvanized steel. The connections of the flange components to the scroll are made using a Tox non-welding process. This maintains a good flange appearance while also providing sufficient strength and rigidity.

风机性能 Performance Chart

1、风机选型示意图例

型号 Type	KTQ 500K
风量 Volume	q_v=15700m³/h
全压 Total Pressure	P_{tF}=839Pa
动压 Dynamic Pressure	P_{dF}=109Pa
出口速度 Outlet Velocity	C=13.5m/s
风机转速 Fan Speed	n=980r/min
轴功率 Shaft Power	P_{sh}=5.34KW
A声功率级 A Sound Power Level	L_{WI}A=86dB(A)
全压效率 Total Efficiency	η_{tF}=68.5%

1. Fan Performance Curve

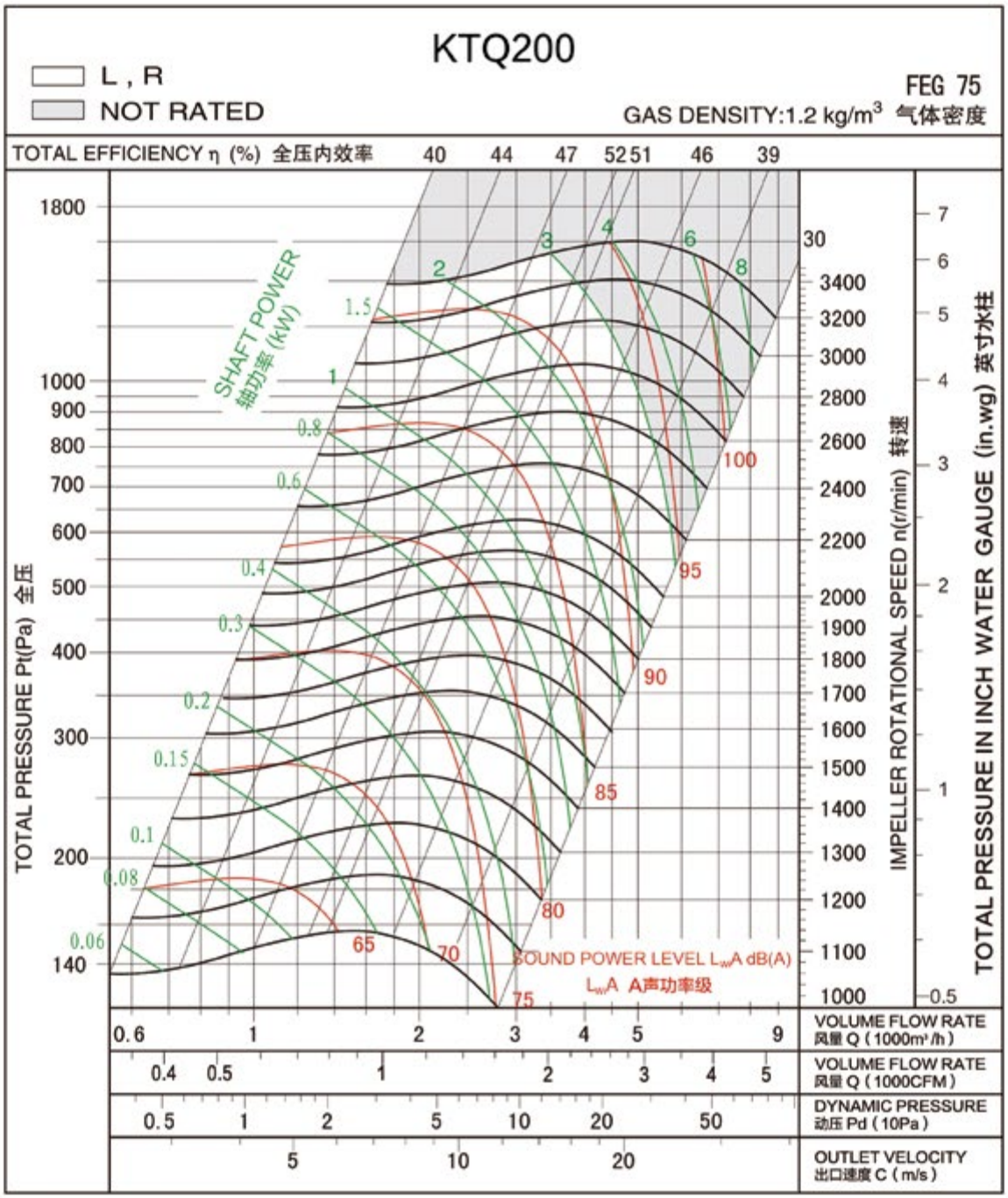


说明 Instructions

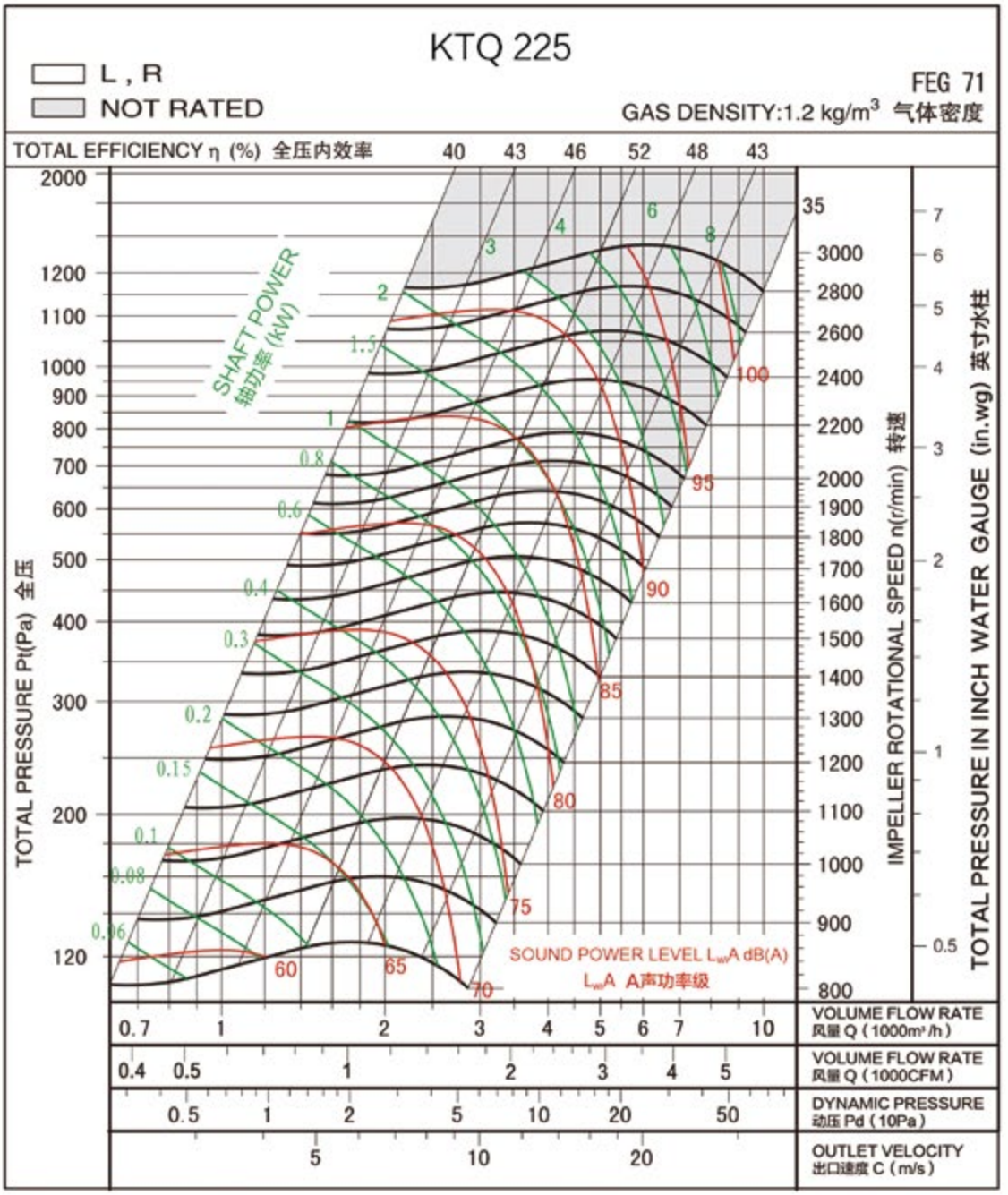
1)订货时须注明风机型号、转速、风量、风压、出风口方向和旋转方向。若需配套皮带、皮带轮、电机、安装底座等配件及其它特殊要求可在订货时提出。
2)在安装前应对风机各部件进行检查，对叶轮、主轴和轴承等主要机件应重点细致检查,如有损伤应修复后再安装使用。
3)检查机壳和其它壳体内部，不应有掉入、遗留的工具和杂物。
4)风机正式运转前，需检查电机的转向是否符合风机转向的要求。
5)风管与出风口之间应采用软连接，接头不得拉紧。
6)风机安装后用手或杠杆拨动叶轮，检查是否过紧或碰撞现象，确认无这些现象时方向可进行试转。
7)风机配用电机功率是指在特定工况下，风机内功率加上机械损失与电机容量安全系数而言，并非出风口全敞开时所需的功率。为防止电机超功率运行而烧毁,严禁风机出风口或进风口不接管路或未加外界任何阻力进行空运转。
8）风机在无较大腐蚀性气体、不含酸（碱）性和尘粒物质<150mg/m³的气体、-20℃<温度<85℃的气体环境下使用，风机在运输装卸过程中应小心轻放,防止碰撞挤压。

1) When placing the order, it is necessary to state the type of fan, speed, air volume, air pressure, discharge direction, rotation direction, type of electric motor and its specifications.
2) Prior to installation, the fan should be carefully inspected. Special care should be taken in checking the shalf, Wheel and bearings. If there is an indication of any damage, the damaged parts should be repaired or repaired before the fan is installed or commissioned.
3) The inside of the scroll and casing need to be checked to make sure that there are no foreign objects inside the housing, such as tools or loose parts.
4) The rotational directions of the motor and Wheel should be checked to ensure that they are in comliance with the specification and purchase orders.
5) A flexible connector should be used between the fan out let flange and its mating ductwork. The flex connector should not be over-stretched.
6) Following the installation, the Wheel should be turned by hand or with the use of a wrench to make sure that it turns freely without colliding with other parts of the fan. Once all this is done, the fan can be commissioned normally.
7) The rated motor power as calcutated herein might not be sufficient to drive the fan with an unrestricted discharge flow. Operating the fan with an unrestricted discharge outlet will result in flow rate that exceeds the specified fan capabilities. Such operation will quickly burn the motor and damage the fan. Great care must be taken in operating the fan to make sure that the maximum rated flows, as provided on the performanced charts in this catalog, are not exceeded.
8) The fan is limited for use in areas where air substances are non-corrosive, non-toxics and non-erosive and where dust particles are less than 150mg/m'with a temperature between -20℃ and 85℃. Special care should be taken during transportation, load and unload.

KTQ200 性能曲线图 Performance Curve



KTQ225 性能曲线图 Performance Curve



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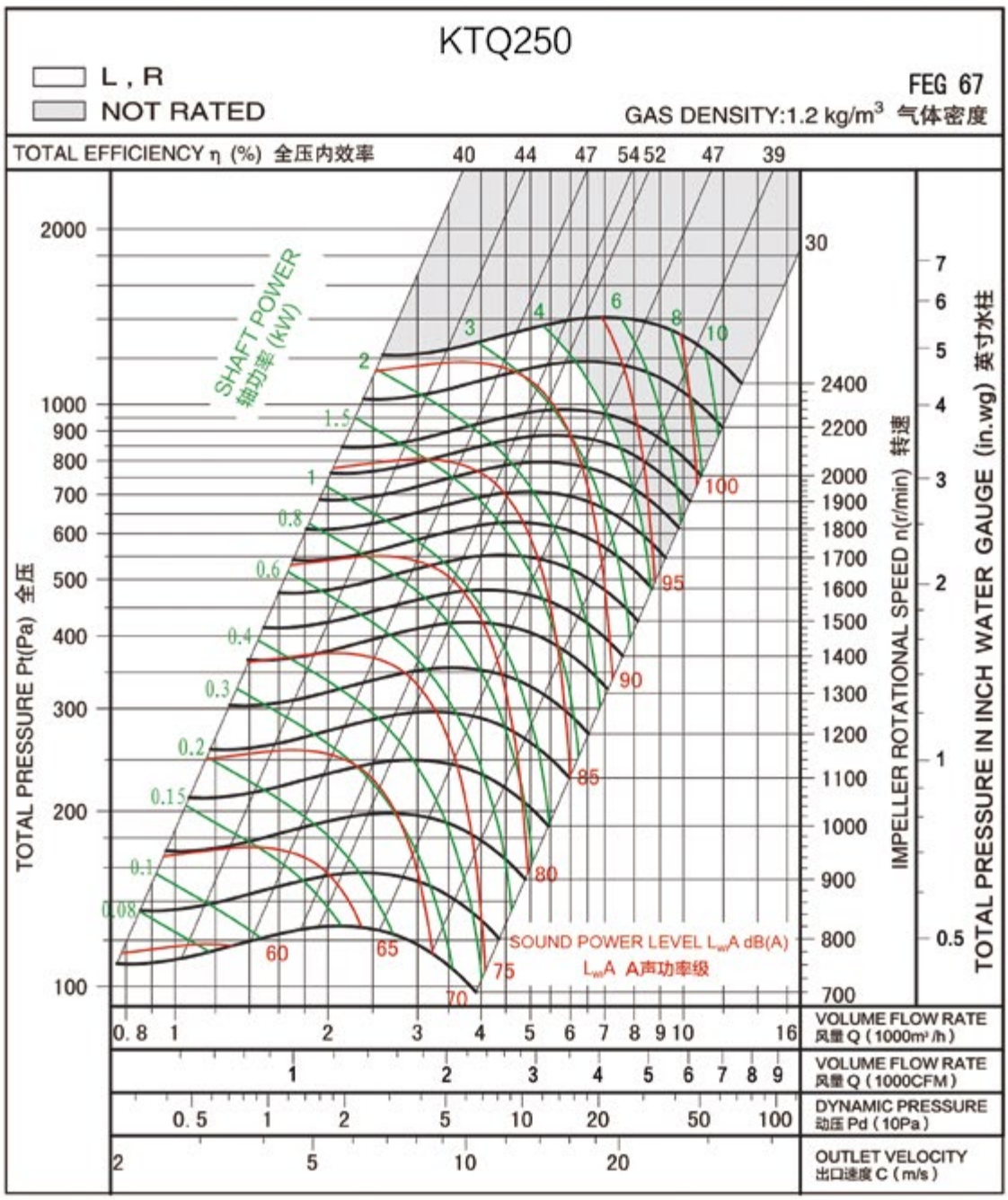

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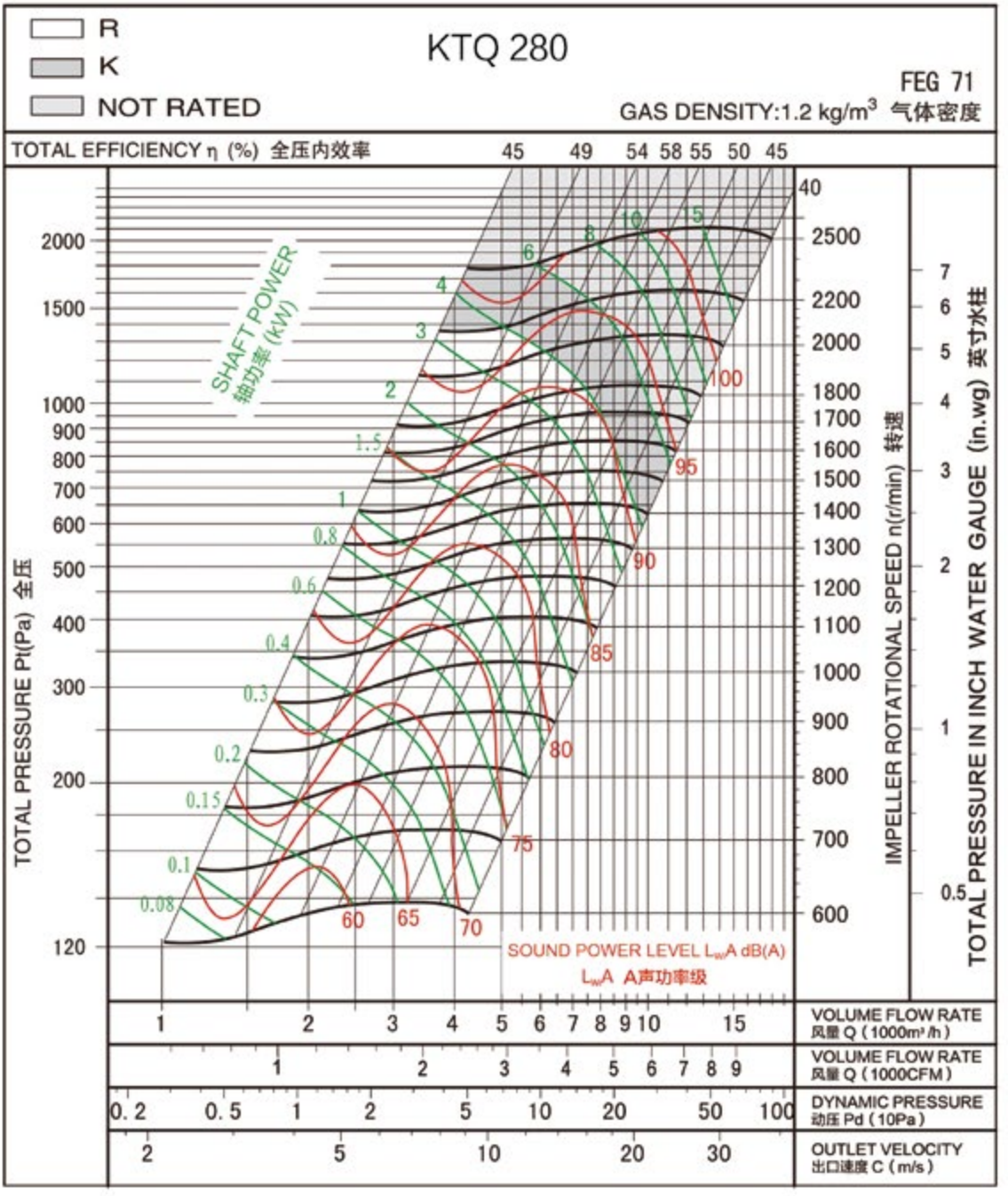

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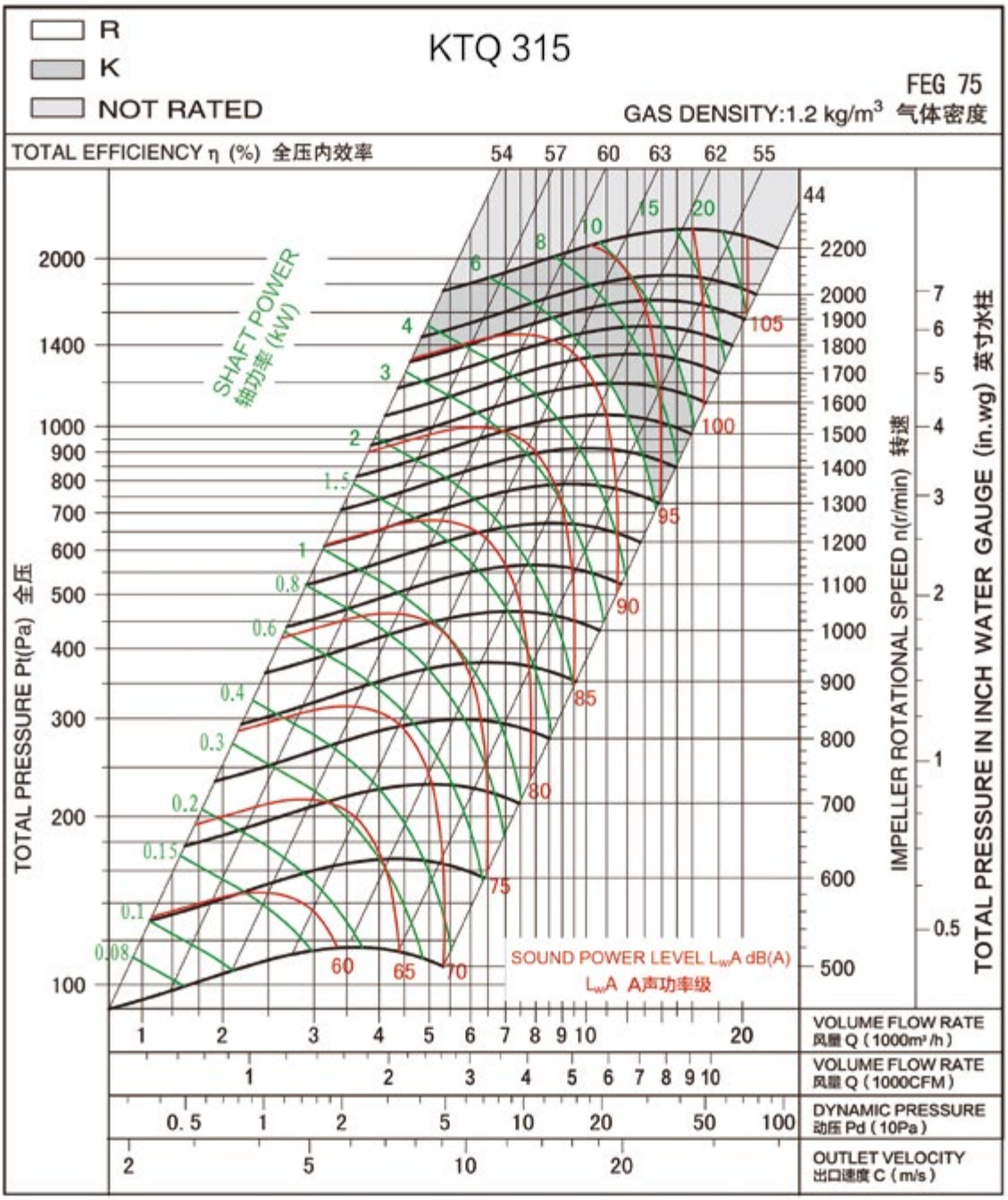

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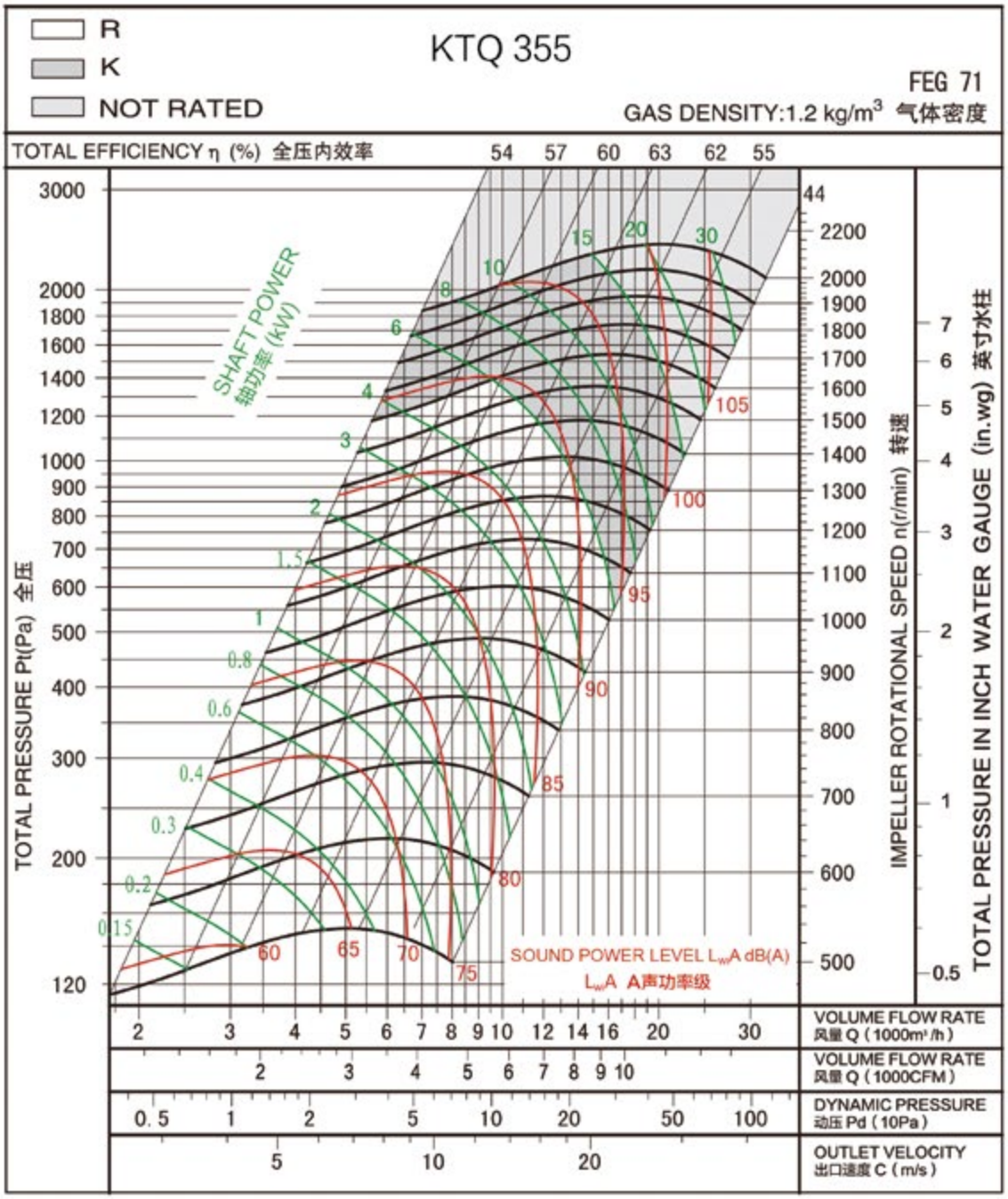

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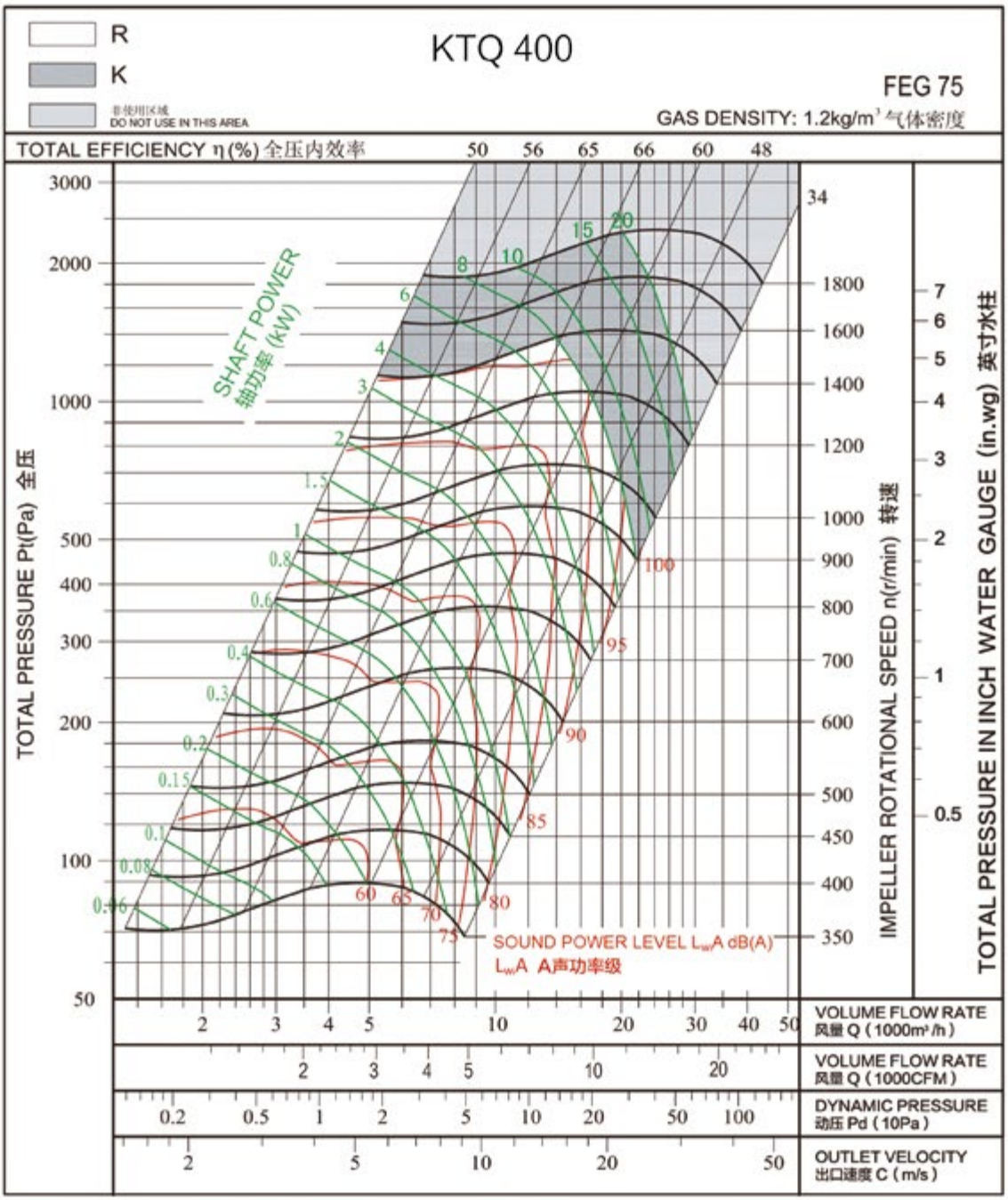

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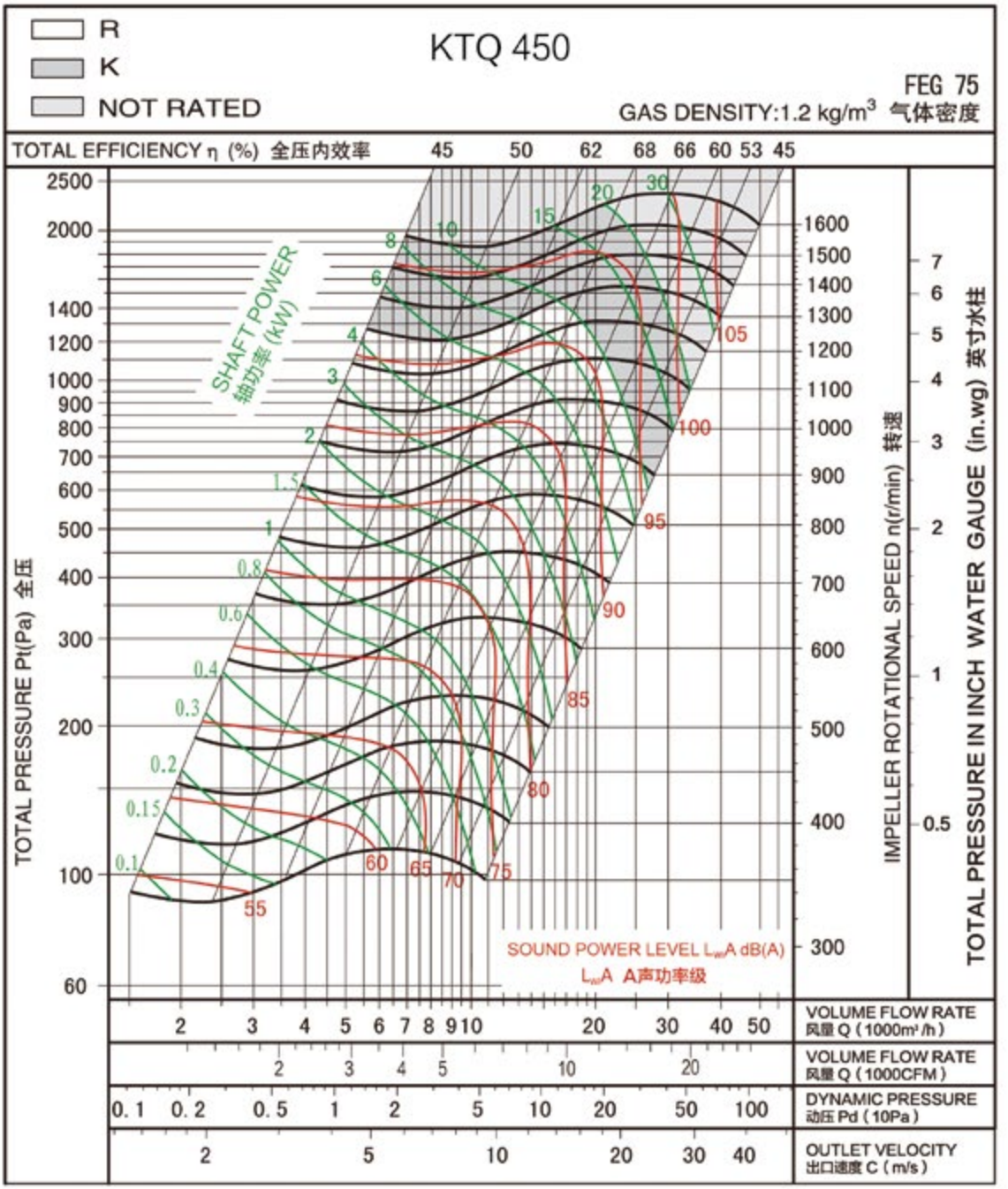

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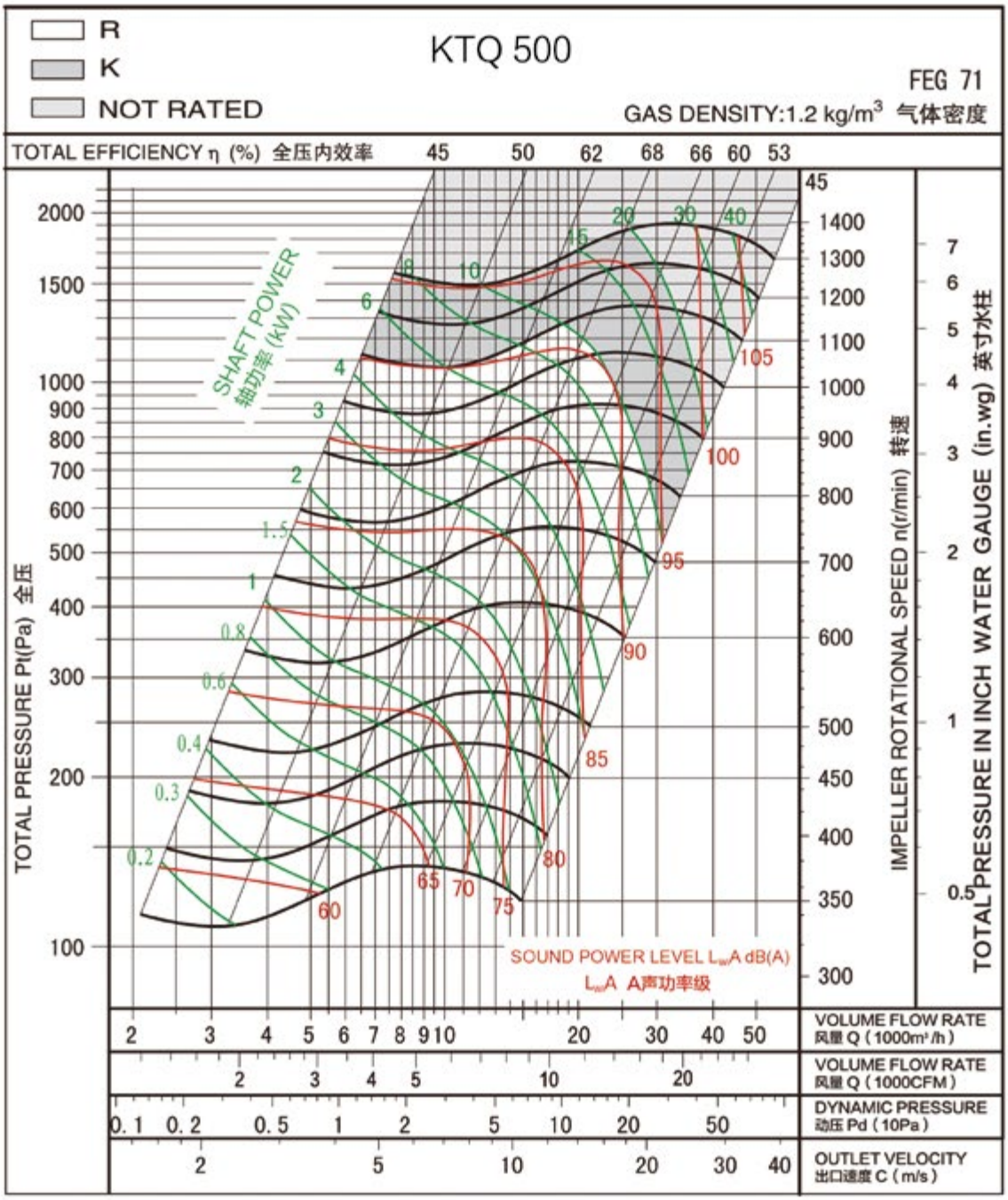

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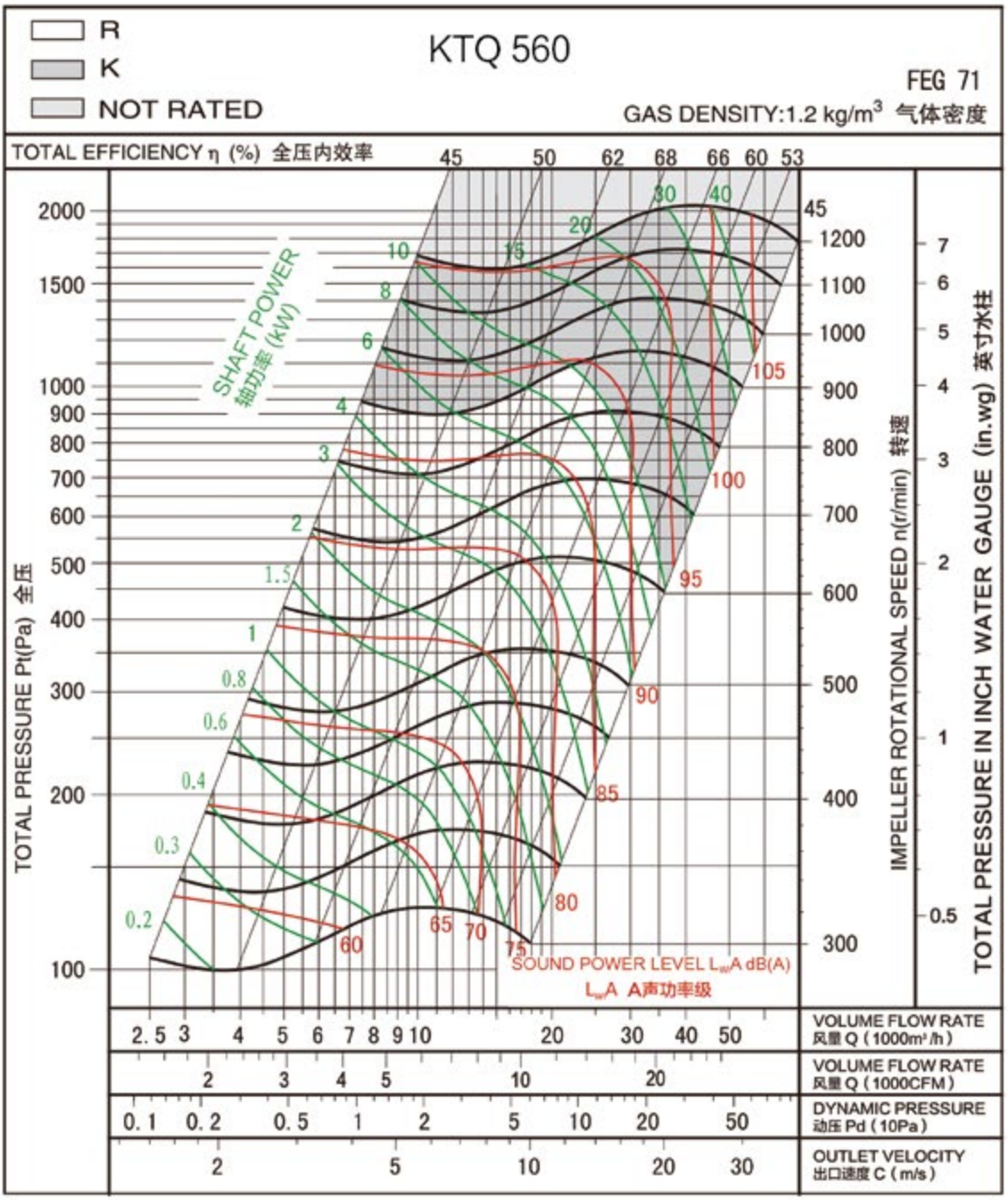

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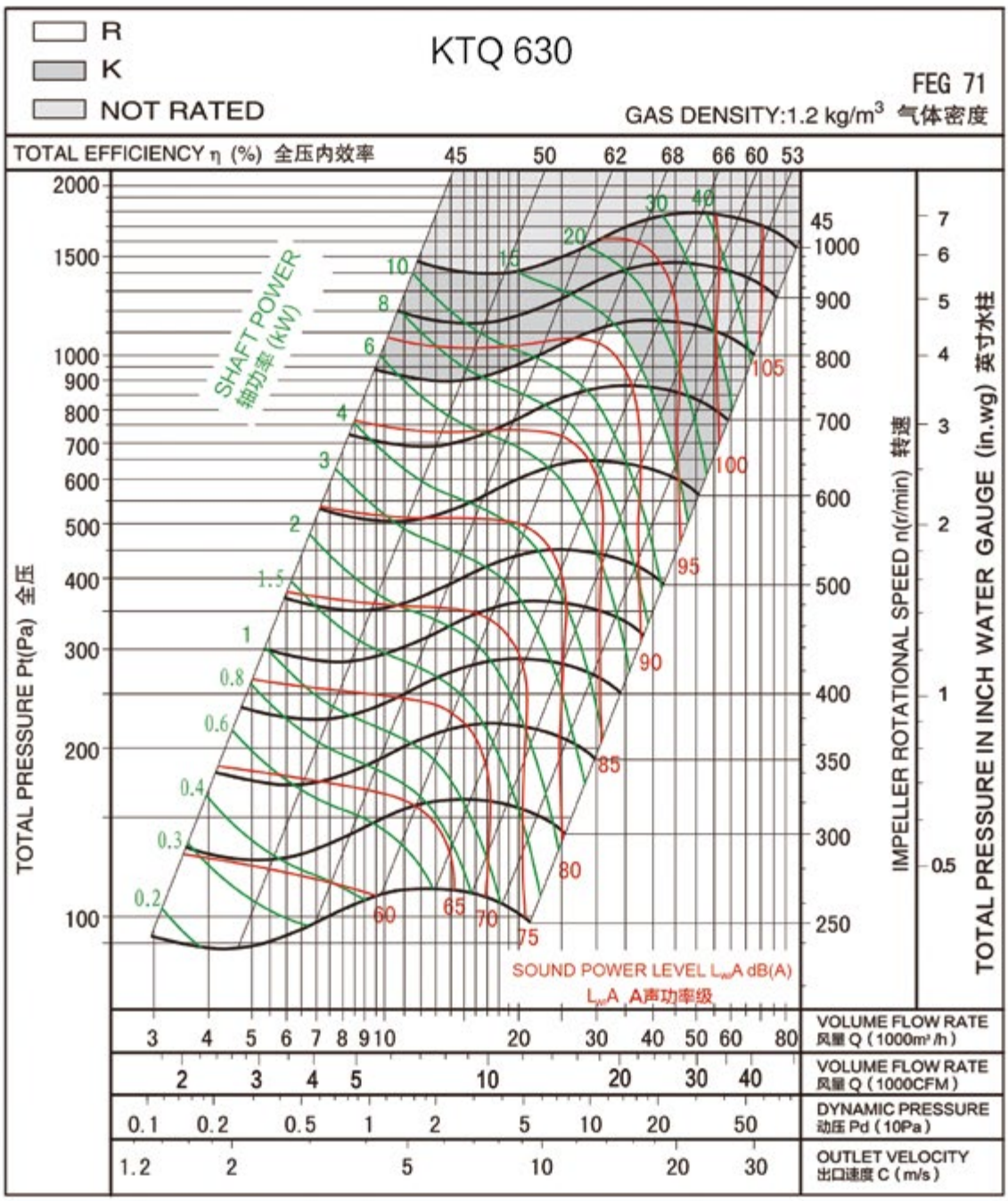

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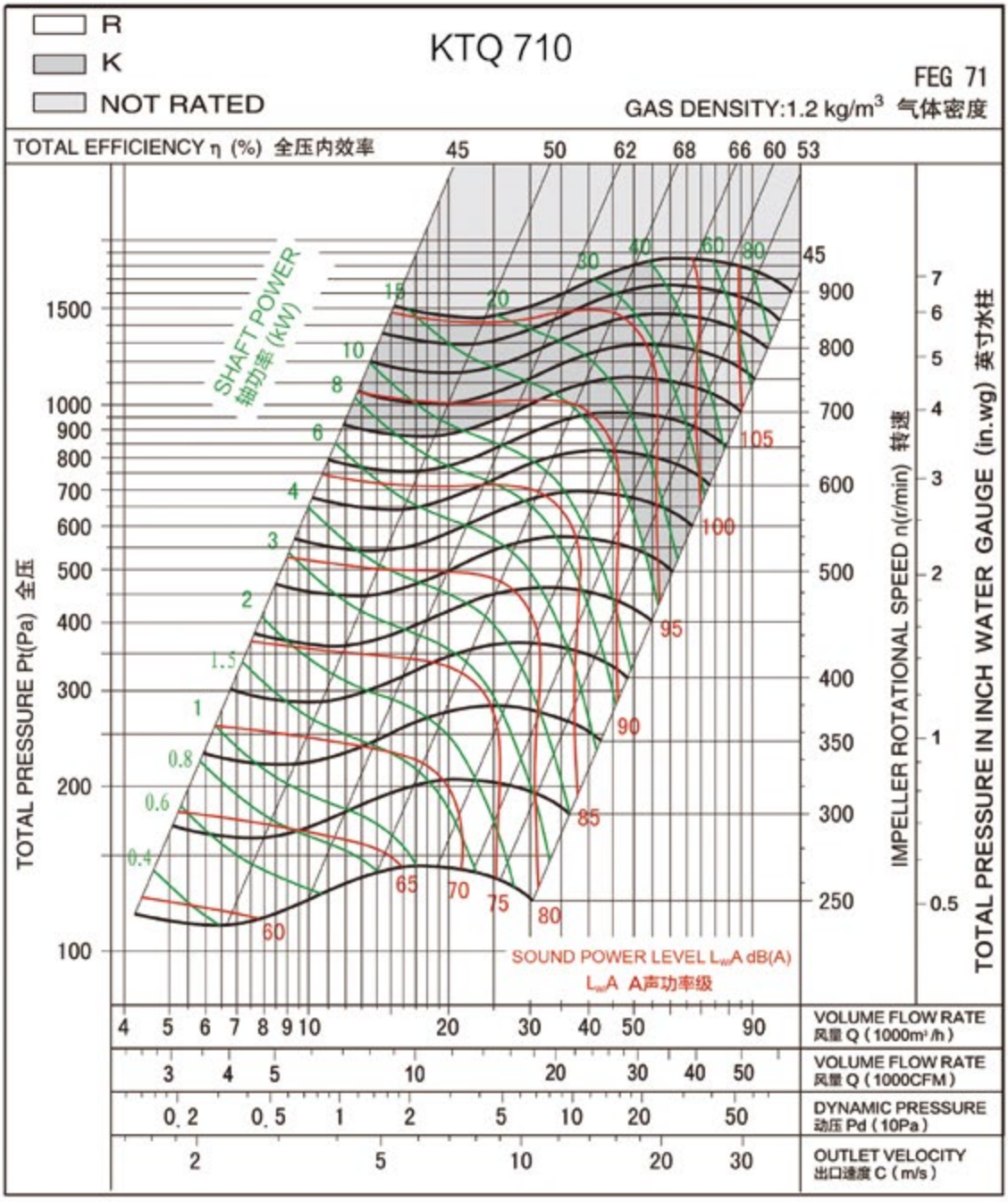

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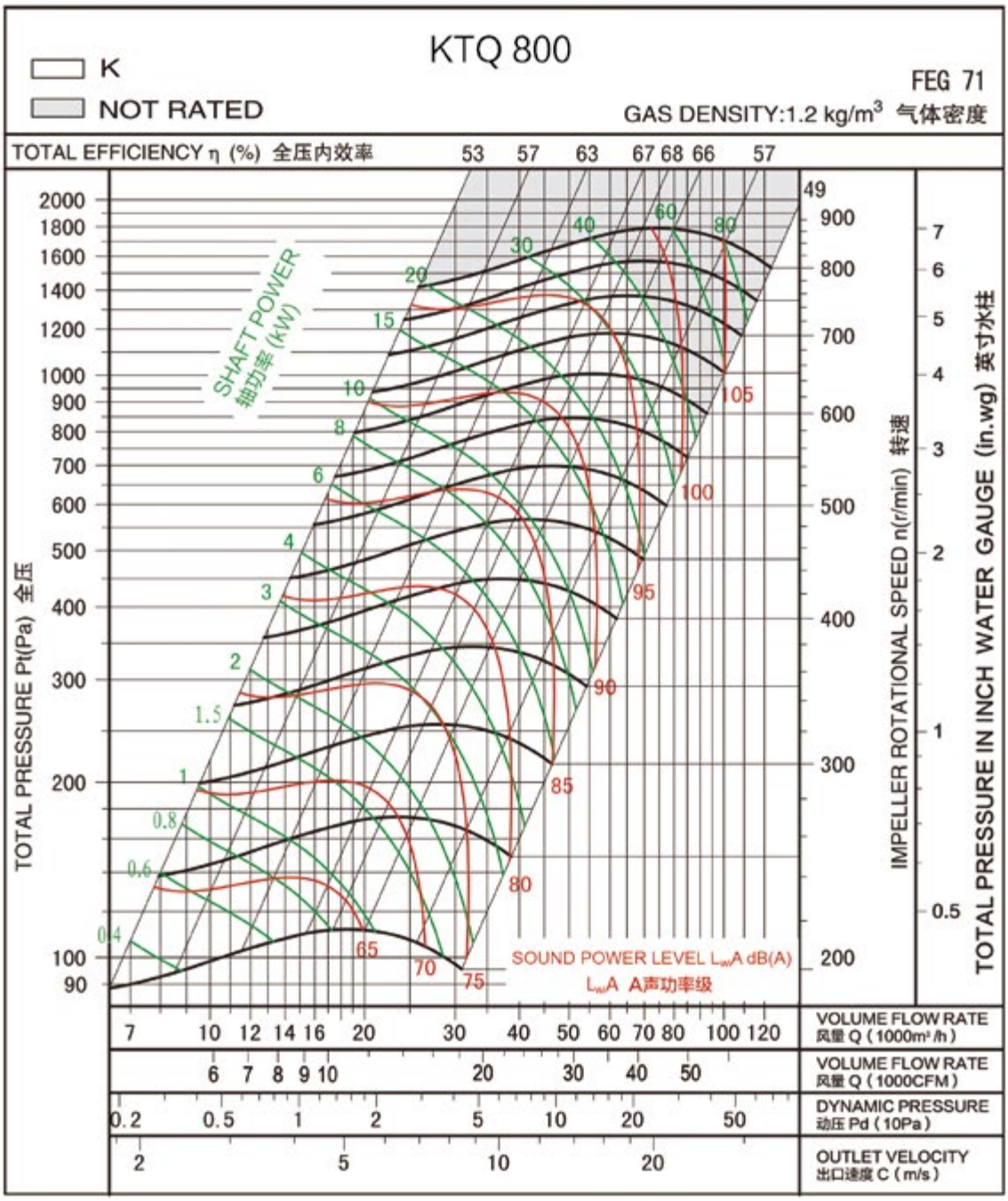

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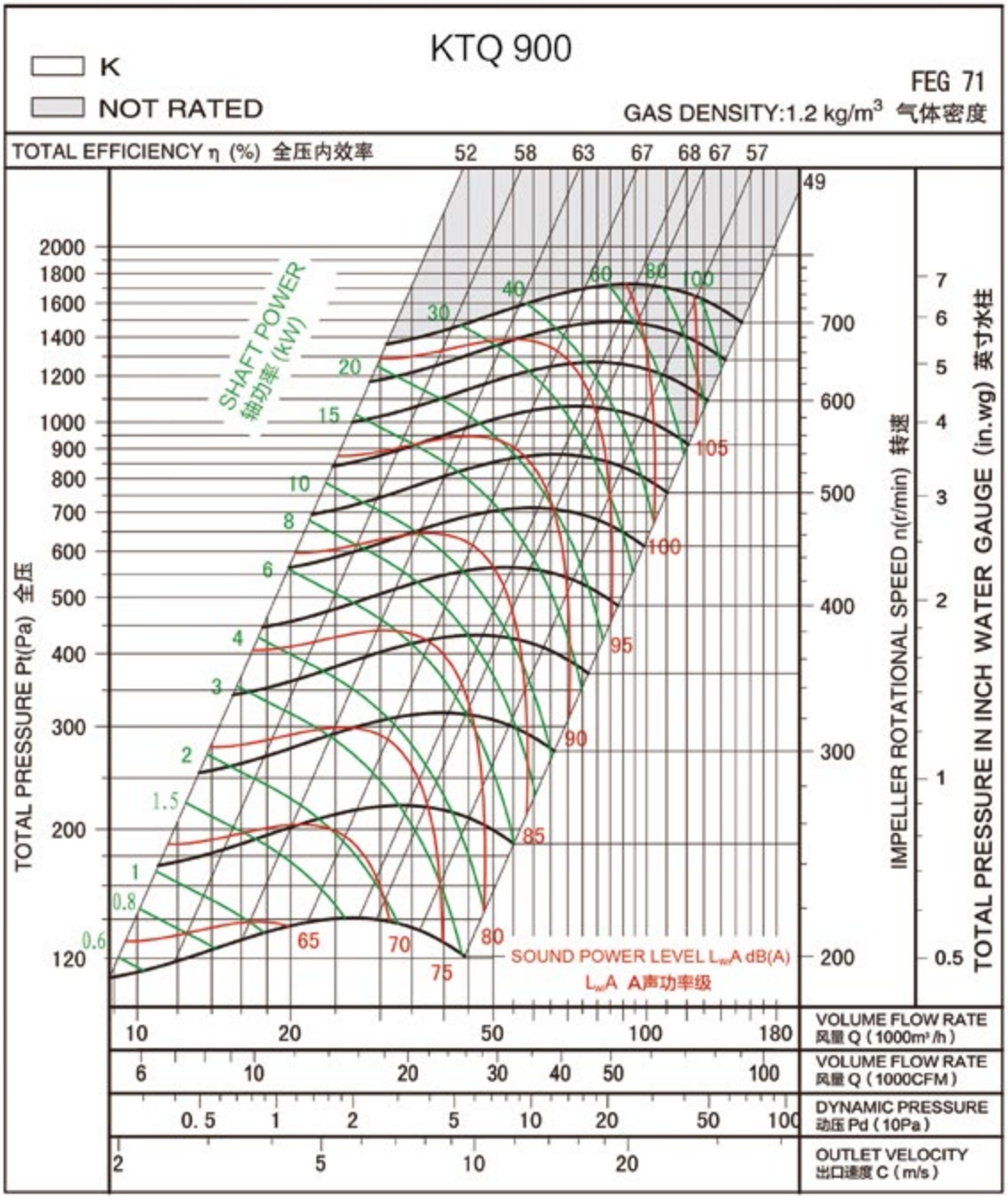
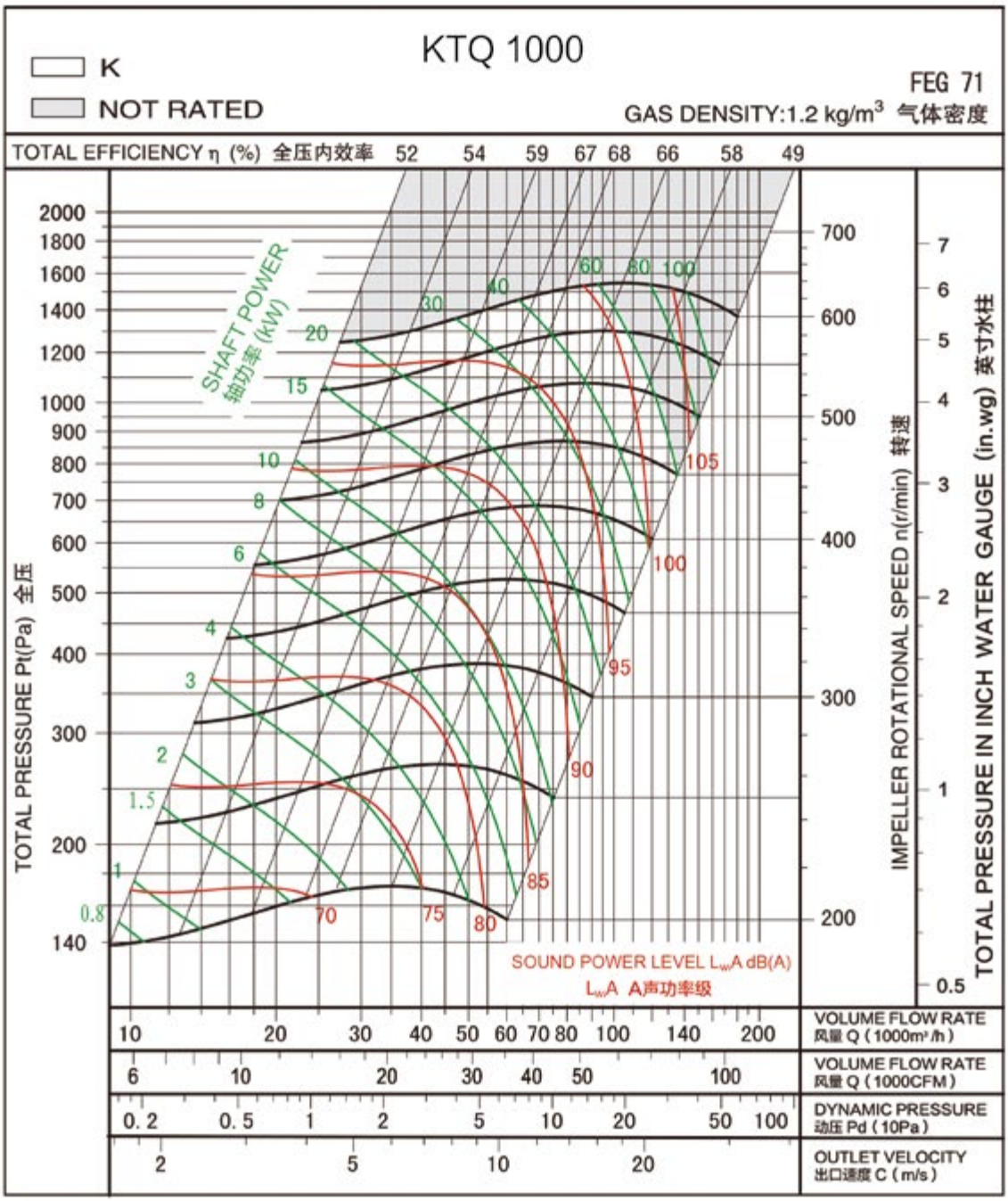
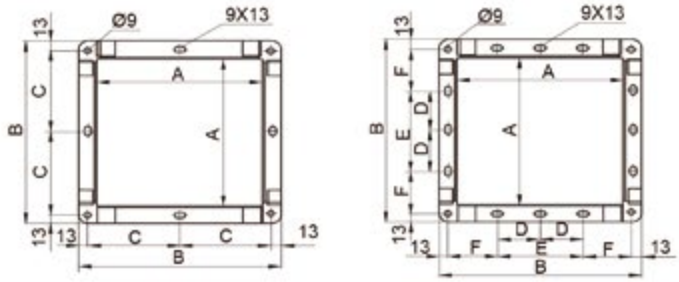


KTQ1000 性能曲线图 Performance Curve



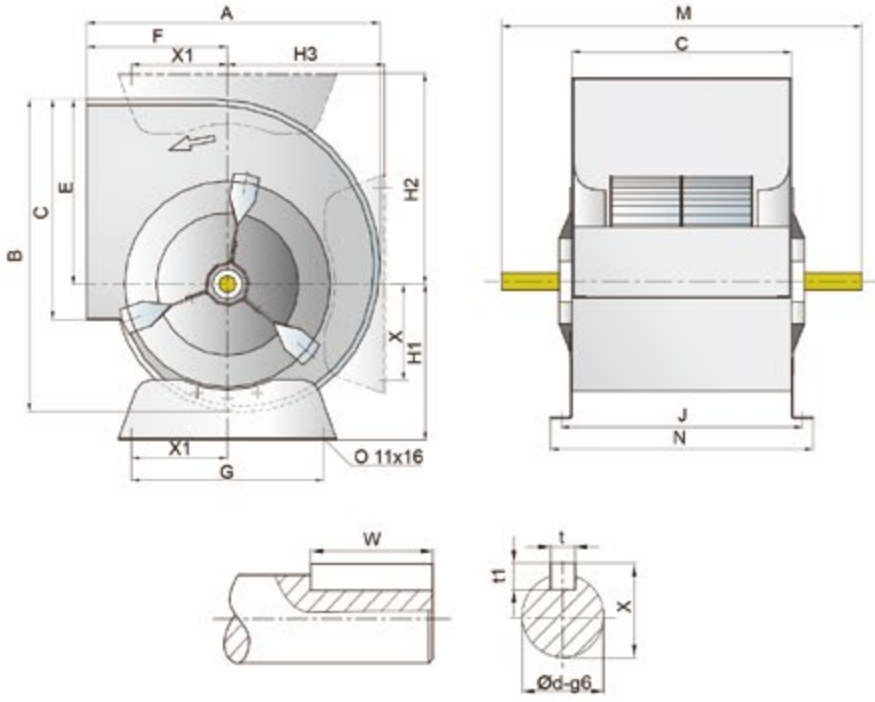
出口法兰 Outlet Flange



单位：mm

尺寸 \ 型号	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
A	256	288	322	361	404	453	507	569	638	715	801	898	1007	1130	1267
B	296	328	362	417	460	509	563	625	694	771	857	954	1063	1186	1323
C	138	154	171	195.5	217	241.5	\	\	\	\	\	\	\	\	\
D	\	\	\	\	\	\	\	\	\	\	\	200	250	300	350
E	\	\	\	\	\	\	200	200	250	250	300	400	500	600	700
F	\	\	\	\	\	\	168.5	200	209	248	266	264	269	280	298.5

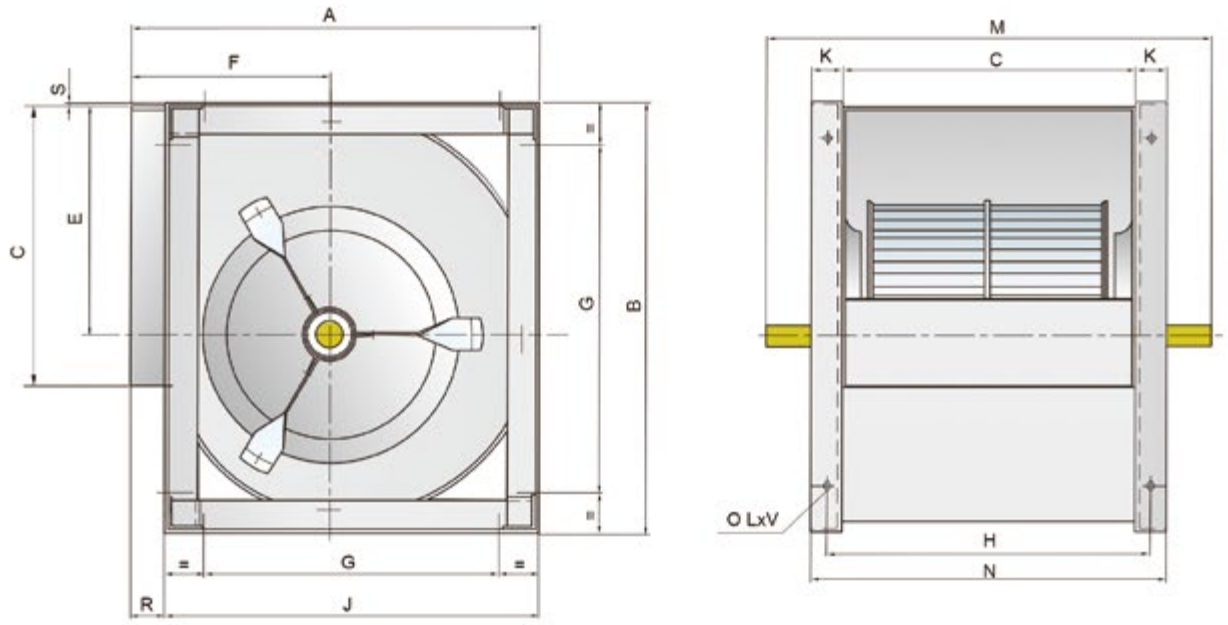
KTQ-L

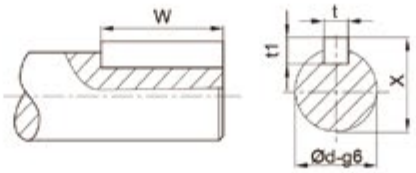


单位：mm

尺寸 \ 型号	A	B	C	E	F	G	J	M	N	X1	H1	H2	H3	t	t1	X	W	Φd
200	342	364	256	215	164	224	281	420	306	112	181	245	184	6	6	22.5	40	20
225	380	408	288	243	180	224	313	460	338	112	197	274	204	6	6	22.5	50	20
250	417	454	322	270	195	224	347	490	372	112	210	299	227	6	6	22.5	50	20

KTQ-R

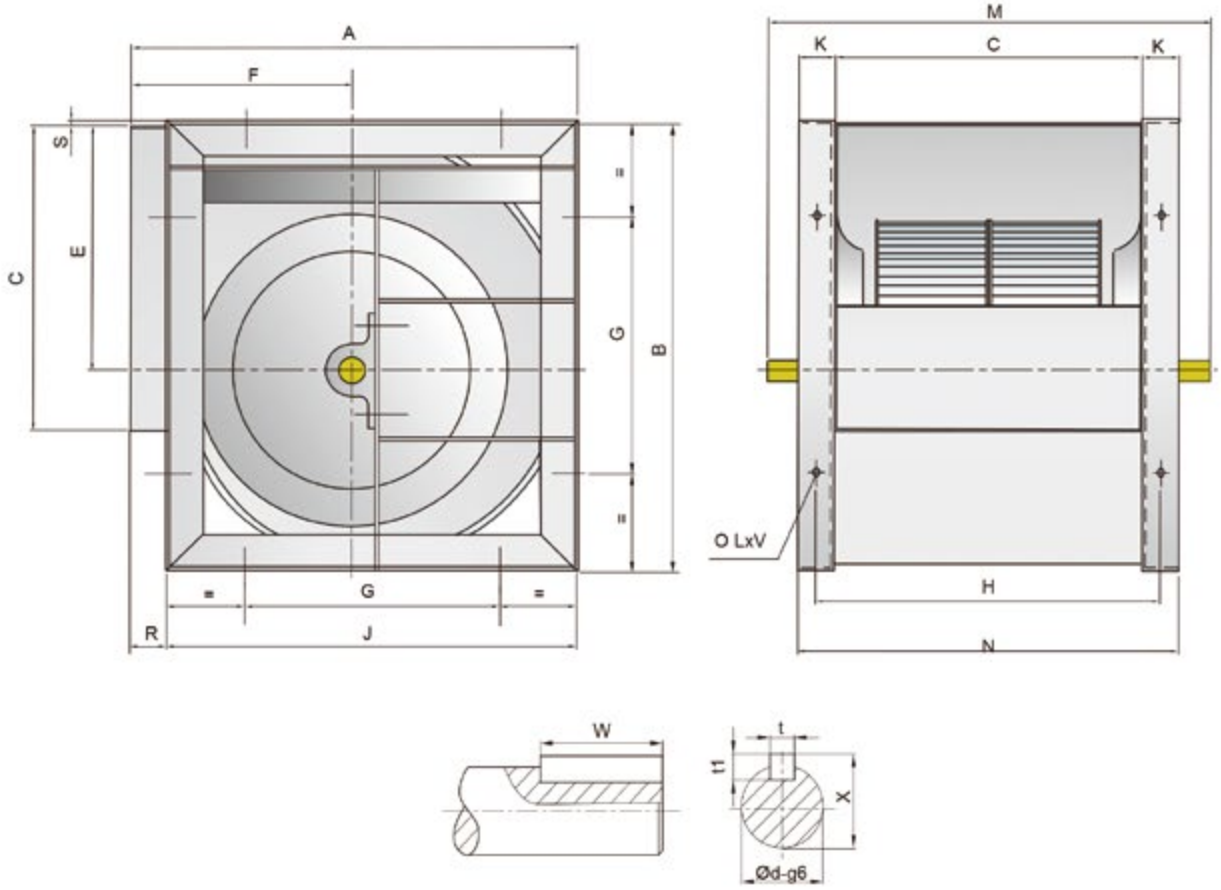




单位：mm

型号 / 尺寸	A	B	C	E	F	G	H	J	K	M	N	R	S	t	t1	W	X	Φd	LxV
200	343	370	256	215	164	224	281	306	25	420	306	37	4	6	6	40	23	20	11x16
225	383	415	288	243	180	224	313	348	25	460	338	35	3	6	6	50	23	20	11x16
250	419	461	322	270	195	224	347	384	25	490	372	35	4	6	6	50	23	20	11x16
280	466	518	361	302	215	280	391	432	30	555	421	34	5	8	7	40	28	25	13x18
315	518	578	404	340	236	280	434	480	30	600	464	38	3	8	7	40	28	25	13x18
355	578	655	453	383	261	355	493	548	40	675	533	30	6	8	7	65	33	30	13x18
400	651	736	507	432	290	355	547	613	40	725	587	38	5	8	7	65	33	30	13x18
450	726	827	569	486	322	530	609	681	40	815	649	45	5	10	8	70	38	35	13x18
500	800	918	638	538	352	530	678	750	40	885	718	50	5	10	8	50	38	35	13x18
560	893	1030	715	602	390	530	765	845	50	1000	815	48	8	12	8	70	43	40	13x18
630	999	1157	801	679	434	530	851	946	50	1090	901	53	7	14	9	70	49	45	13x18
710	1121	1303	898	765	485	630	948	1058	50	1255	998	63	7	14	9	90	54	50	17x22

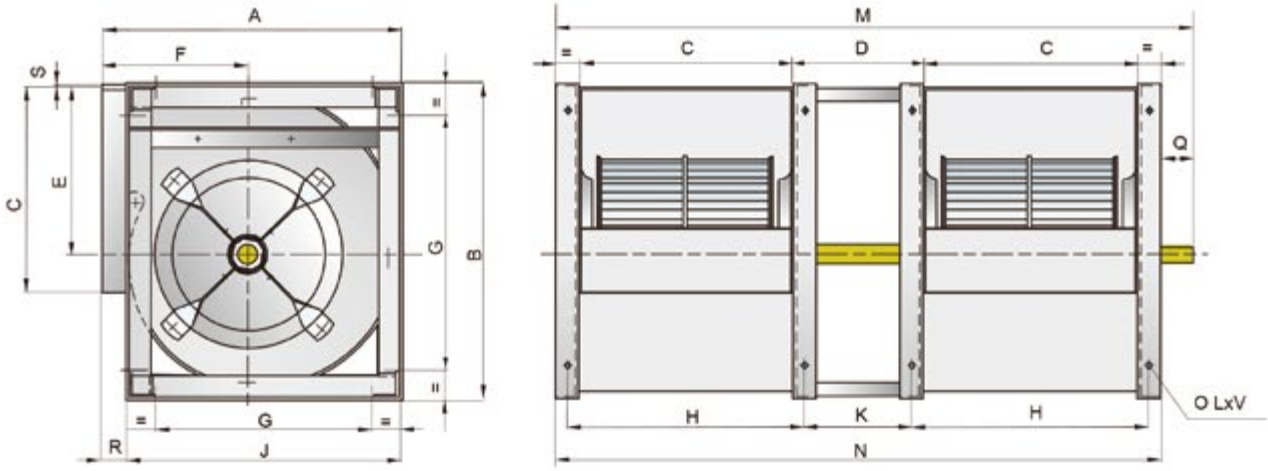
KTQ-K

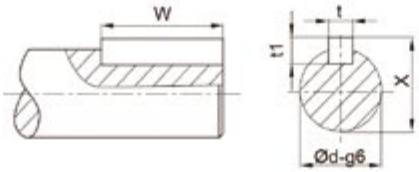


单位：mm

型号 / 尺寸	A	B	C	E	F	G	H	J	K	M	N	R	S	t	t1	W	X	Φd	LxV
280	466	518	361	302	215	280	391	432	30	580	421	34	5	8	7	40	33	30	13x18
315	518	578	404	340	236	280	434	480	30	625	464	38	3	8	7	40	33	30	13x18
355	578	655	453	383	261	355	493	548	40	685	533	30	6	10	8	50	38	35	13x18
400	651	736	507	431.5	290	355	547	613	40	790	587	38	4.5	10	8	70	38	35	13x18
450	726	827	569	486	322	530	609	681	40	850	649	45	5	12	8	70	43	40	13x18
500	800	918	638	538	352	530	678	750	40	920	718	50	5	12	8	70	43	40	13x18
560	893	1030	715	602	390	530	765	845	50	1070	815	48	8	14	9	90	54	50	13x18
630	999	1157	801	678.5	434	530	851	946	50	1155	901	53	7	14	9	90	54	50	13x18
710	1121	1303	898	765	485	630	948	1058	50	1290	998	63	7	18	11	90	64	60	17x22
800	1250	1468	1007	862	535	710	1057	1181	50	1450	1107	69	7	18	11	90	64	60	17x22
900	1408	1648	1130	971	604	800	1180	1319	60	1570	1250	89	9	18	11	100	64	60	17x22
1000	1541	1810	1267	1066	657	900	1317	1462	60	1700	1387	79	9	18	11	100	64	60	17x22

KTQ-R2

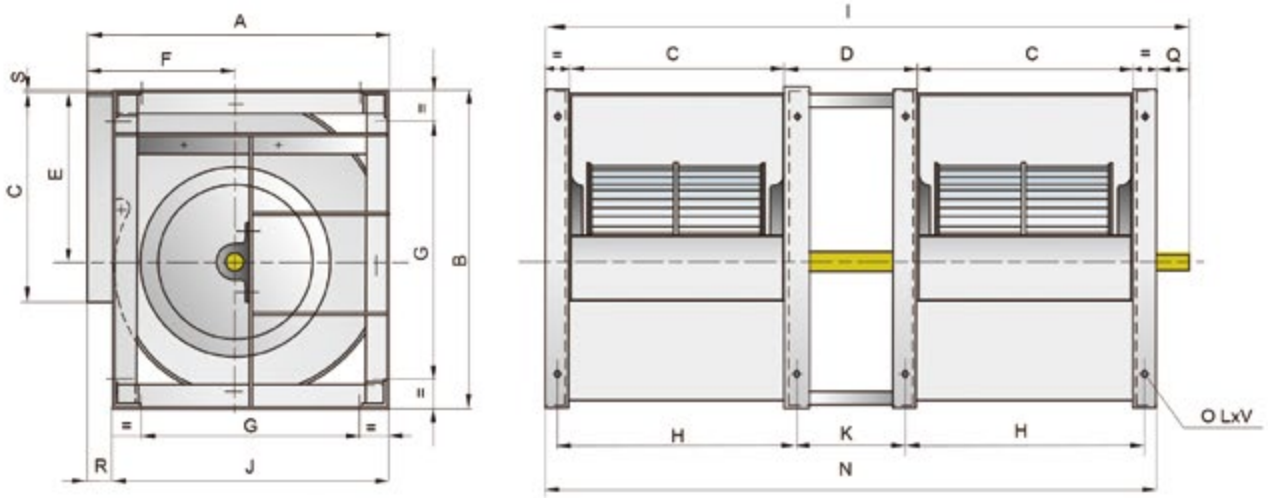


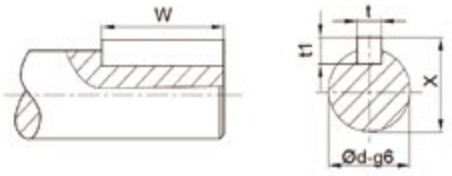


单位：mm

型号 / 尺寸	A	B	C	D	E	F	G	H	J	K	M	N	Q	R	S	t	t1	W	X	Φd	LxV
280	466	518	361	280	302	215	280	391	432	250	1140	1062	78	34	5	8	7	60	33	30	13x18
315	518	578	404	315	340	236	280	434	480	285	1263	1183	80	38	3	8	7	60	33	30	13x18
355	578	655	453	355	383	261	355	493	548	315	1431	1340	90	30	6	10	8	50	38	35	13x18
400	651	736	507	400	432	290	355	547	613	360	1582	1494	88	38	5	10	8	50	38	35	13x18
450	726	827	569	450	486	322	530	609	681	410	1768	1668	100	45	5	12	8	70	43	40	13x18
500	800	918	638	500	538	352	530	678	750	460	1956	1856	100	50	5	12	8	70	43	40	13x18

KTQ-K2

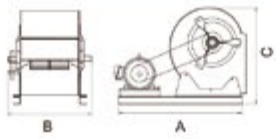
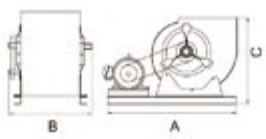
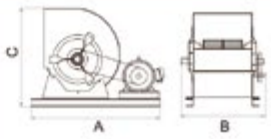
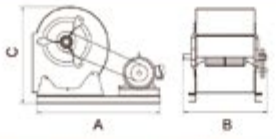
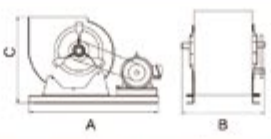
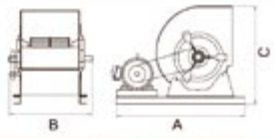




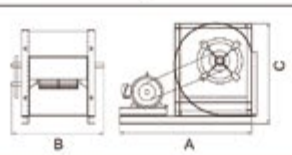
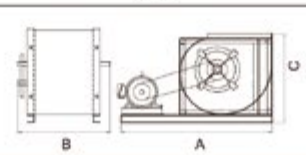
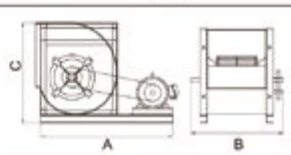
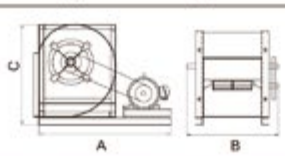
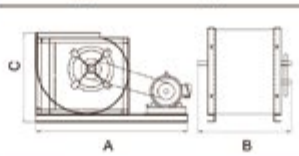
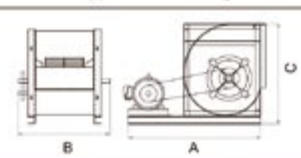
单位：mm

型号 / 尺寸	A	B	C	D	E	F	G	H	I	J	K	N	Q	R	S	t	t1	Φd	W	X	LxV
355	578	655	453	355	383	261	355	493	1451	548	315	1341	110	30	6	12	8	40	70	43	13x18
400	651	736	507	400	431.5	290	355	547	1602	613	360	1494	108	38	5	12	8	40	90	43	13x18
450	726	827	569	450	486	322	530	609	1803	681	410	1668	135	45	5	14	9	45	90	48.5	13x18
500	800	918	638	500	538	352	530	678	1991	750	460	1856	135	50	5	14	9	50	90	53.5	13x18

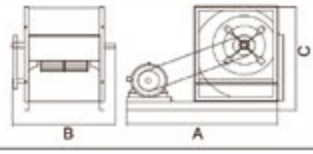
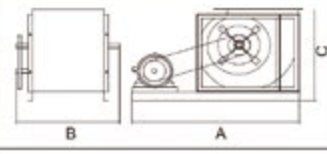
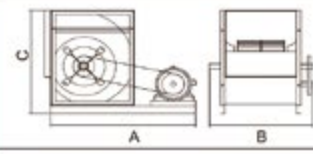
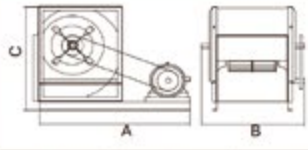
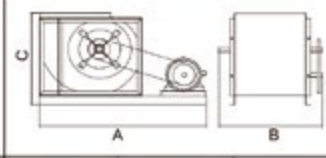
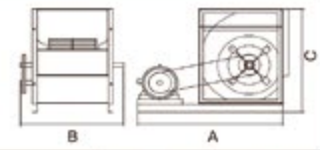
KTQ-L

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
200	56	730	420	404	730	420	358	730	420	406
	63	730	420	404	730	420	358	730	420	406
	71	730	420	404	730	420	358	730	420	406
	80	730	420	404	730	420	358	730	420	406
225	63	760	460	450	760	460	394	760	460	450
	71	760	460	450	760	460	394	760	460	450
	80	760	460	450	760	460	394	760	460	450
	90	760	460	450	760	460	394	760	460	450
250	63	820	490	484	820	490	422	820	490	482
	71	820	490	484	820	490	422	820	490	482
	80	820	490	484	820	490	422	820	490	482
	90	820	490	484	820	490	422	820	490	482

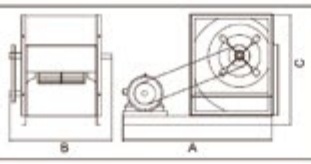
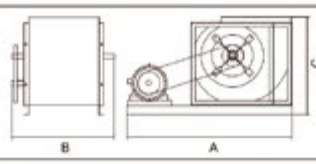
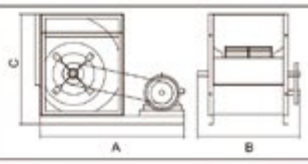
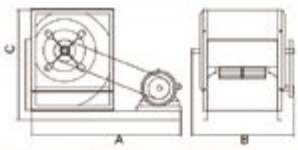
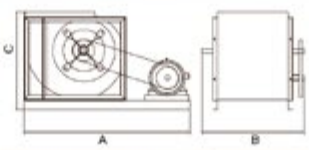
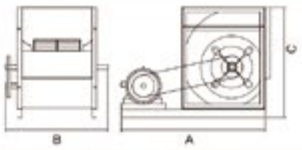
KTQ-R

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
200	56	730	420	404	730	420	358	730	420	406
	63	730	420	404	730	420	358	730	420	406
	71	730	420	404	730	420	358	730	420	406
	80	730	420	404	730	420	358	730	420	406
225	63	760	460	450	760	460	394	760	460	450
	71	760	460	450	760	460	394	760	460	450
	80	760	460	450	760	460	394	760	460	450
	90	760	460	450	760	460	394	760	460	450
250	63	820	490	484	820	490	422	820	490	482
	71	820	490	484	820	490	422	820	490	482
	80	820	490	484	820	490	422	820	490	482
	90	820	490	484	820	490	422	820	490	482

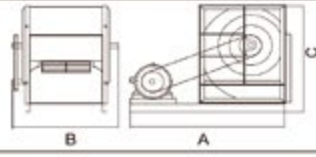
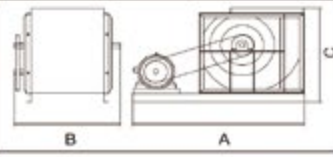
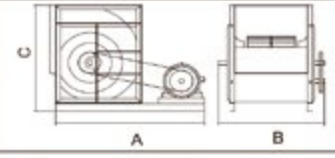
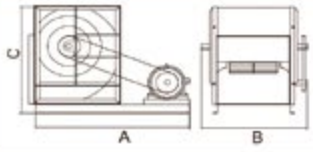
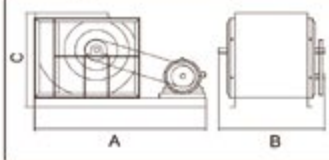
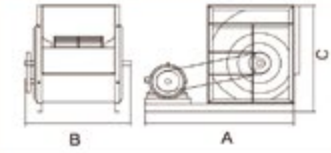
KTQ-R

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
280	71	940	575	568	940	575	516	940	575	568
	80	940	575	568	940	575	516	940	575	568
	90	940	575	568	940	575	516	940	575	568
	100	940	575	568	940	575	516	940	575	568
	112	940	575	568	940	575	516	940	575	568
	132	940	575	568	940	575	516	940	575	568
315	71	1040	630	628	1040	640	568	1040	640	628
	80	1040	640	628	1040	640	568	1040	640	628
	90	1040	640	628	1040	640	568	1040	640	628
	100	1040	640	628	1040	640	568	1040	640	628
	112	1040	640	628	1040	640	568	1040	640	628
	132	1040	640	628	1040	640	568	1040	640	628
355	71	1110	700	705	1110	700	628	1110	700	705
	80	1110	700	705	1110	700	628	1110	700	705
	90	1110	700	705	1110	700	628	1110	700	705
	100	1110	700	705	1110	700	628	1110	700	705
	112	1110	700	705	1110	700	628	1110	700	705
	132	1110	700	705	1110	700	628	1110	700	705
400	71	1250	760	786	1250	760	701	1250	760	786
	80	1250	760	786	1250	760	701	1250	760	786
	90	1250	760	786	1250	760	701	1250	760	786
	100	1250	760	786	1250	760	701	1250	760	786
	112	1250	760	786	1250	760	701	1250	760	786
	132	1250	760	786	1250	760	701	1250	760	786
450	71	1340	845	890	1340	845	789	1340	845	890
	80	1340	845	890	1340	845	789	1340	845	890
	90	1340	845	890	1340	845	789	1340	845	890
	100	1340	845	890	1340	845	789	1340	845	890
	112	1340	845	890	1340	845	789	1340	845	890
	132	1340	845	890	1340	845	789	1340	845	890
	160	1340	845	890	1340	845	789	1340	845	890

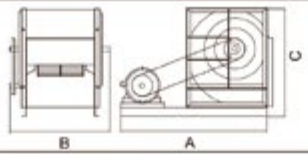
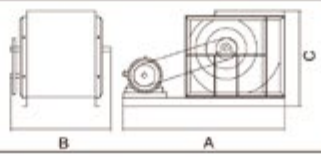
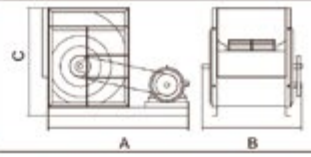
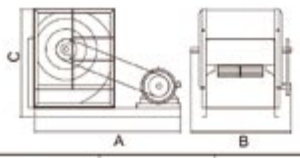
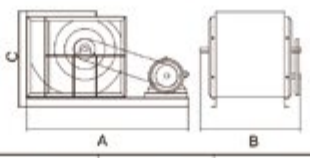
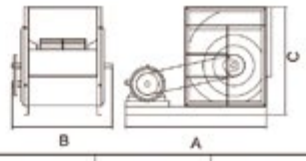
KTQ-R

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
500	80	1420	915	981	1420	915	863	1420	915	981
	90	1420	915	981	1420	915	863	1420	915	981
	100	1420	915	981	1420	915	863	1420	915	981
	112	1420	915	981	1420	915	863	1420	915	981
	132	1420	915	981	1420	915	863	1420	915	981
	160	1420	915	981	1420	915	863	1420	915	981
560	80	1580	1000	1093	1580	1000	956	1580	1000	1093
	90	1580	1000	1093	1580	1000	956	1580	1000	1093
	100	1580	1000	1093	1580	1000	956	1580	1000	1093
	112	1580	1000	1093	1580	1000	956	1580	1000	1093
	132	1580	1000	1093	1580	1000	956	1580	1000	1093
	160	1580	1000	1093	1580	1000	956	1580	1000	1093
630	90	1770	1090	1220	1770	1090	1062	1770	1090	1220
	100	1770	1090	1220	1770	1090	1062	1770	1090	1220
	112	1770	1090	1220	1770	1090	1062	1770	1090	1220
	132	1770	1090	1220	1770	1090	1062	1770	1090	1220
	160	1770	1090	1220	1770	1090	1062	1770	1090	1220
	180	1770	1090	1220	1770	1090	1062	1770	1090	1220
710	100	1950	1255	1366	1950	1255	1184	1950	1255	1366
	112	1950	1255	1366	1950	1255	1184	1950	1255	1366
	132	1950	1255	1366	1950	1255	1184	1950	1255	1366
	160	1950	1255	1366	1950	1255	1184	1950	1255	1366
	180	1950	1255	1366	1950	1255	1184	1950	1255	1366

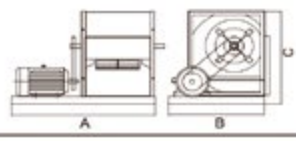
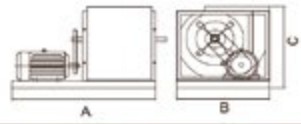
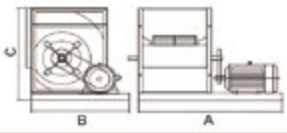
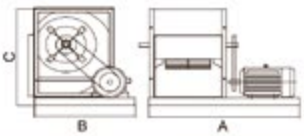
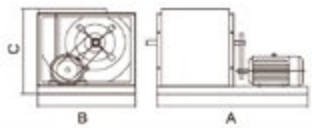
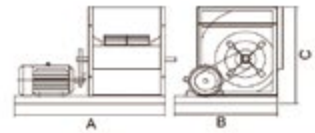
KTQ-K

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
280	90	940	600	568	940	600	516	940	600	568
	100	940	600	568	940	600	516	940	600	568
	112	940	600	568	940	600	516	940	600	568
	132	940	600	568	940	600	516	940	600	568
	160	940	600	568	940	600	516	940	600	568
315	100	1040	665	628	1040	665	568	1040	665	628
	112	1040	665	628	1040	665	568	1040	665	628
	132	1040	665	628	1040	665	568	1040	665	628
	160	1040	665	628	1040	665	568	1040	665	628
	180	1040	665	628	1040	665	568	1040	665	628
355	100	1110	725	705	1110	725	628	1110	725	705
	112	1110	725	705	1110	725	628	1110	725	705
	132	1110	725	705	1110	725	628	1110	725	705
	160	1110	725	705	1110	725	628	1110	725	705
	180	1110	725	705	1110	725	628	1110	725	705
400	100	1250	790	786	1250	790	701	1250	790	786
	112	1250	790	786	1250	790	701	1250	790	786
	132	1250	790	786	1250	790	701	1250	790	786
	160	1250	790	786	1250	790	701	1250	790	786
	180	1250	790	786	1250	790	701	1250	790	786
450	100	1340	845	890	1340	845	789	1340	845	890
	112	1340	890	890	1340	890	789	1340	890	890
	132	1340	890	890	1340	890	789	1340	890	890
	160	1340	890	890	1340	890	789	1340	890	890
	180	1340	890	890	1340	890	789	1340	890	890
	200	1340	890	890	1340	890	789	1340	890	890
500	100	1420	915	981	1420	915	863	1420	915	981
	112	1420	960	981	1420	960	863	1420	960	981
	132	1420	960	981	1420	960	863	1420	960	981
	160	1420	960	981	1420	960	863	1420	960	981
	180	1420	960	981	1420	960	863	1420	960	981
	200	1420	960	981	1420	960	863	1420	960	981

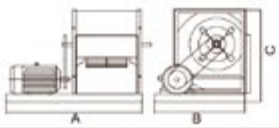
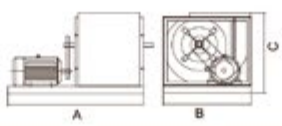
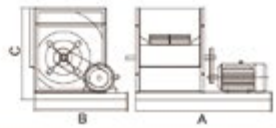
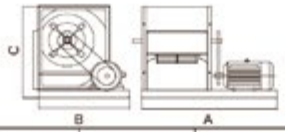
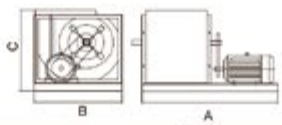
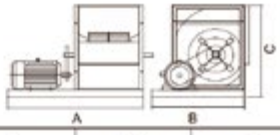
KTQ-K

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
560	132	1580	1070	1093	1580	1070	956	1580	1070	1093
	160	1580	1070	1093	1580	1070	956	1580	1070	1093
	180	1580	1070	1093	1580	1070	956	1580	1070	1093
	200	1580	1070	1093	1580	1070	956	1580	1070	1093
630	132	1770	1155	1220	1770	1155	1062	1770	1155	1220
	160	1770	1155	1220	1770	1155	1062	1770	1155	1220
	180	1770	1155	1220	1770	1155	1062	1770	1155	1220
	200	1770	1155	1220	1770	1155	1062	1770	1155	1220
710	132	1950	1290	1366	1950	1290	1284	1950	1290	1366
	160	1950	1290	1366	1950	1290	1284	1950	1290	1366
	180	1950	1290	1366	1950	1290	1284	1950	1290	1366
	200	1950	1290	1366	1950	1290	1284	1950	1290	1366
	225	1950	1290	1366	1950	1290	1284	1950	1290	1366
800	100	2130	1450	1548	2130	1450	1330	2130	1450	1548
	112	2130	1450	1548	2130	1450	1330	2130	1450	1548
	132	2130	1450	1548	2130	1450	1330	2130	1450	1548
	160	2130	1450	1548	2130	1450	1330	2130	1450	1548
	180	2130	1450	1548	2130	1450	1330	2130	1450	1548
	200	2130	1450	1548	2130	1450	1330	2130	1450	1548
	225	2130	1450	1548	2130	1450	1330	2130	1450	1548
900	112	2450	1570	1748	2450	1570	1508	2450	1570	1748
	132	2450	1570	1748	2450	1570	1508	2450	1570	1748
	160	2450	1570	1748	2450	1570	1508	2450	1570	1748
	180	2450	1570	1748	2450	1570	1508	2450	1570	1748
	200	2450	1570	1748	2450	1570	1508	2450	1570	1748
	225	2450	1570	1748	2450	1570	1508	2450	1570	1748
1000	112	2650	1700	1910	2650	1700	1641	2650	1700	1910
	132	2650	1700	1910	2650	1700	1641	2650	1700	1910
	160	2650	1700	1910	2650	1700	1641	2650	1700	1910
	180	2650	1700	1910	2650	1700	1641	2650	1700	1910
	200	2650	1700	1910	2650	1700	1641	2650	1700	1910
	225	2650	1700	1910	2650	1700	1641	2650	1700	1910
	250	2650	1700	1910	2650	1700	1641	2650	1700	1910

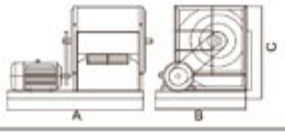
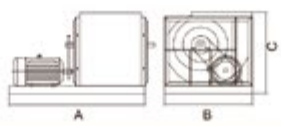
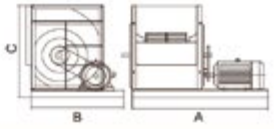
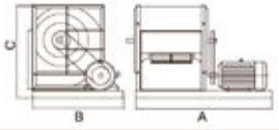
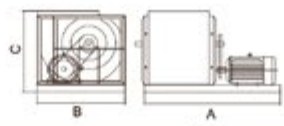
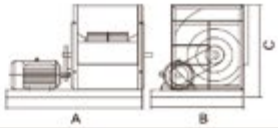
KTQ-R

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
280	71	840	612	568	840	612	516	840	612	568
	80	840	612	568	840	612	516	840	612	568
	90	840	612	568	840	612	516	840	612	568
	100	840	612	568	840	612	516	840	612	568
	112	840	612	568	840	612	516	840	612	568
315	71	880	617	628	880	617	568	880	617	628
	80	880	617	628	880	617	568	880	617	628
	90	880	617	628	880	617	568	880	617	628
	100	880	617	628	880	617	568	880	617	628
	112	880	617	628	880	617	568	880	617	628
355	71	940	655	705	940	655	628	940	655	705
	80	940	655	705	940	655	628	940	655	705
	90	940	655	705	940	655	628	940	655	705
	100	940	655	705	940	655	628	940	655	705
	112	940	655	705	940	655	628	940	655	705
400	80	1130	736	786	1130	736	613	1130	736	786
	90	1130	736	786	1130	736	613	1130	736	786
	100	1130	736	786	1130	736	613	1130	736	786
	112	1130	736	786	1130	736	613	1130	736	786
	132	1130	736	786	1130	736	613	1130	736	786
450	90	1210	827	890	1210	827	789	1210	827	890
	100	1210	827	890	1210	827	789	1210	827	890
	112	1210	827	890	1210	827	789	1210	827	890
	132	1210	827	890	1210	827	789	1210	827	890
500	90	1290	918	981	1290	918	863	1290	918	981
	100	1290	918	981	1290	918	863	1290	918	981
	112	1290	918	981	1290	918	863	1290	918	981
	132	1290	918	981	1290	918	863	1290	918	981
	160	1290	918	981	1290	918	863	1290	918	981
560	90	1410	1030	1093	1410	1030	956	1410	1030	1093
	100	1410	1030	1093	1410	1030	956	1410	1030	1093
	112	1410	1030	1093	1410	1030	956	1410	1030	1093
	132	1410	1030	1093	1410	1030	956	1410	1030	1093
	160	1410	1030	1093	1410	1030	956	1410	1030	1093

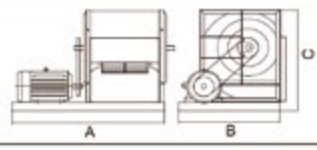
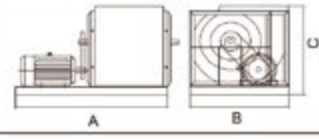
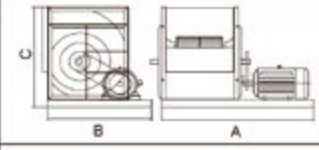
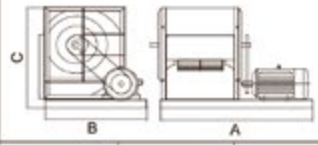
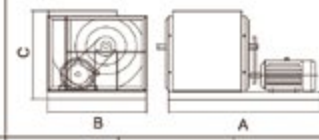
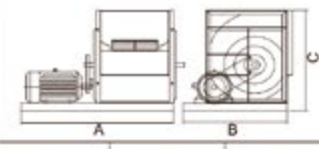
KTQ-R

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
630	90	1510	1157	1220	1510	1157	1062	1510	1157	1220
	100	1510	1157	1220	1510	1157	1062	1510	1157	1220
	112	1510	1157	1220	1510	1157	1062	1510	1157	1220
	132	1510	1157	1220	1510	1157	1062	1510	1157	1220
710	160	1730	1303	1366	1730	1303	1491	1730	1303	1366
	100	1730	1303	1366	1730	1303	1491	1730	1303	1366
	112	1730	1303	1366	1730	1303	1491	1730	1303	1366
	132	1730	1303	1366	1730	1303	1491	1730	1303	1366
	160	1730	1303	1366	1730	1303	1491	1730	1303	1366
	180	1730	1303	1366	1730	1303	1491	1730	1303	1366

KTQ-K

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
280	100	840	612	568	840	612	516	840	612	568
	112	840	612	568	840	612	516	840	612	568
	132	840	612	568	840	612	516	840	612	568
315	100	880	617	628	880	617	568	880	617	628
	112	880	617	628	880	617	568	880	617	628
	132	880	617	628	880	617	568	880	617	628
	160	880	617	628	880	617	568	880	617	628
355	100	940	655	705	940	655	628	940	655	705
	112	940	655	705	940	655	628	940	655	705
	132	940	655	705	940	655	628	940	655	705
	160	940	655	705	940	655	628	940	655	705
400	112	1130	736	786	1130	736	613	1130	736	786
	132	1130	736	786	1130	736	613	1130	736	786
	160	1130	736	786	1130	736	613	1130	736	786

KTQ-K

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
450	112	1210	827	890	1210	827	789	1210	827	890
	132	1210	827	890	1210	827	789	1210	827	890
	160	1210	827	890	1210	827	789	1210	827	890
	180	1210	827	890	1210	827	789	1210	827	890
500	112	1290	918	981	1290	918	863	1290	918	981
	132	1290	918	981	1290	918	863	1290	918	981
	160	1290	918	981	1290	918	863	1290	918	981
	180	1290	918	981	1290	918	863	1290	918	981
560	132	1410	1030	1093	1410	1030	956	1410	1030	1093
	160	1410	1030	1093	1410	1030	956	1410	1030	1093
	180	1410	1030	1093	1410	1030	956	1410	1030	1093
	200	1410	1030	1093	1410	1030	956	1410	1030	1093
630	132	1510	1157	1220	1510	1157	1062	1510	1157	1220
	160	1510	1157	1220	1510	1157	1062	1510	1157	1220
	180	1510	1157	1220	1510	1157	1062	1510	1157	1220
	200	1510	1157	1220	1510	1157	1062	1510	1157	1220
710	132	1730	1303	1366	1730	1303	1491	1730	1303	1366
	160	1730	1303	1366	1730	1303	1491	1730	1303	1366
	180	1730	1303	1366	1730	1303	1491	1730	1303	1366
	200	1730	1303	1366	1730	1303	1491	1730	1303	1366
	225	1730	1303	1366	1730	1303	1491	1730	1303	1366
800	132	1870	1468	1548	1870	1468	1330	1870	1468	1548
	160	1870	1468	1548	1870	1468	1330	1870	1468	1548
	180	1870	1468	1548	1870	1468	1330	1870	1468	1548
	200	1870	1468	1548	1870	1468	1330	1870	1468	1548
	225	1870	1468	1548	1870	1468	1330	1870	1468	1548
900	160	2170	1648	1748	2170	1648	1748	2170	1648	1748
	180	2170	1648	1748	2170	1648	1748	2170	1648	1748
	200	2170	1648	1748	2170	1648	1748	2170	1648	1748
	225	2170	1648	1748	2170	1648	1748	2170	1648	1748
1000	160	2300	1810	1910	2300	1810	1641	2300	1810	1910
	180	2300	1810	1910	2300	1810	1641	2300	1810	1910
	200	2300	1810	1910	2300	1810	1641	2300	1810	1910
	225	2300	1810	1910	2300	1810	1641	2300	1810	1910
	250	2300	1810	1910	2300	1810	1641	2300	1810	1910

KTH 系列离心式空调风机 Centrifugal Ventilators

概述 Summary

KTH系列后向离心式空调风机采用国际同类产品先进技术自行开发生产该样本中列出的15种规格风机，流量范围从1000m³/h-120000 m³/h,全压从200Pa-3000Pa。KTH系列风机采用直板式叶轮，具有效率高、噪音低、耗能少、通用性强，安全性好等特点。广泛应用于各类中央空调机组及其它暖通空调、净化、通风等空调系统。

The KTH Series of centrifugal fans with backward blade were developed with advanced technologies.The KTH Series includes 15 models as described in this catalogue.The volume flow of the KTH Series ranges from 1,000 m³/h to120,000 m³/h, the total pressure ranges from 200 Pa to 3,000Pa.Some of the features and characteristics of these fans are:forward Wheel blades, a wide range of applications, high efficiency, low noise, and low power consumption.These fans are ideal for use in central air-conditioning systems, in purifiers.They are also suitable for use in a variety of other ventilation.applications.

命名方式 Nomenclature

KTH 500 R

- R — 结构型式 Construction type
  - L,R 型(基本型) Type L, R (Basic Model)
  - K型(加强型) Type K (Heavy Duty Model)
  - Z型（超重型） Type Z (Extra-heavy Duty Model)
- 500 — 叶轮名义直径(mm) Nominal diameter of Wheel (mm)
- KTH — 后向单板型离心风机系列代号 Fan series with backward blades

产品型式 Product Features

1、旋向

KTH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。皮带轮可分为左右调向，

1. Rotation

KTH series fans have two direction of rotations, left-hand rotation (LG) and right-hand rotation (RD); Viewing from drive side, if the Wheel rotates clockwise, it is left hand (LG) rotation. If the Wheel rotates counter clockwise, it is right-hand (RD).

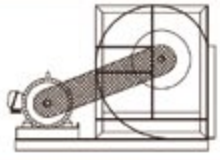
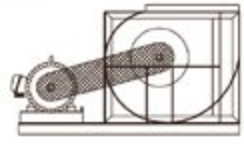
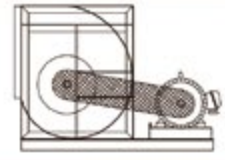
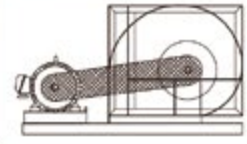
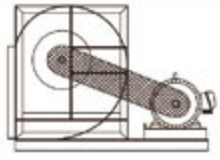
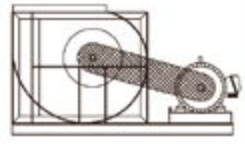
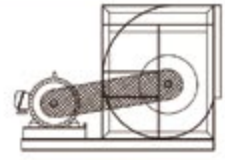
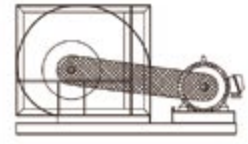
2、 出风口方向

KTH系列出风口可按图1所示制成0° 、90° 、180° 、270° 四种出风方向。

2. Discharge Direction

As shown in Fig1, KTH Series fans can be constructed in four discharge directions: 0° , 90° , 180° , and 270° .

图1(Fig 1)

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

产品结构 Construction of Product

KTH系列风机主要由机壳、叶轮、框架、轴承及轴构成。
出口法兰（为可选件）。

KTH series fans are mainly constructed of housing, Wheel, frame, bearing and shaft. Outlet flange (is optional).

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,蜗板采用点焊或"Pittsburg seam locking"的连接方式与侧板连成一体。

1. Housing

The housing is made of hot galvanized steel sheet. The side plates include inlets cones that are designed with the best aero-dynamics for inlet condition. The scroll is fixed to the side plates by spot welding or "Pittsburg seam locking."

2、 叶轮

后向叶轮采用优质冷轧钢板制成，按三元流理论设计的平板式叶片焊接在高精度激光切割机床加工的中盘和端圈上，整体喷塑。所有叶轮进行静平衡和动平衡测试，内控精度达到G2.5级(ANSI/AMCA 204-05)。

2. Wheel

Backwards curved airfoil Wheel is constructed of high-grade cold-roll steel sheets, according to the three-dimensional flow theory, the Wheel is fixed on the center plate and on the end ring with welding by high precision laser cutting machine. the unity of the Wheel is spraying by plastic. All Wheels are bal-anced to ANSI/AMCA Standard 204-05. Zengjin's internal standard is G2.5 or higher for wheel balancing.

3、 框架

L、R型风机框架采用热镀锌钢板剪切、折弯制成，TOX连接保证了所需的尺寸精度和应有的刚度; K 型风机框架由角钢和扁钢冷弯焊接制成，Z 型风机框架由加宽加厚的角钢扁钢焊接制成。轴承安装位进行对称铣平面加工,表面喷塑处理,以保证足够的刚度和强度，同时保证安装轴和轴承的同心度。

3. Frame

The frames for type L and R construction are made of galvanized steel angle iron bars. The cutting and bending of the frame parts, as well as the TOX connections, are formed with the use of toolings to ensure the high accuracy and the rigidity of the frames; The farmes for K constructions are welded by angle steel and flat steel, the farmes for Z constructions are welded by thicker angle steel and flat steel, and finished with polyester coating in order to ensure sufficient rigidity and strength. The bearing supports are machined to ensure proper installation and alignments of the bearings.

4、 轴承

KTH 系列风机均采用优质滚珠轴承，并根据噪声最低来选择，该轴承设有加润滑油的孔,已预先加润滑油并自动对中; L/R型风机的轴承安装在轴承支架上,并设有防振垫圈;K 型风机则采用带座向心球轴承；Z 型风机采用重载荷的双列滚柱轴承的轴承箱结构。轴承寿命为L10≥100000小时。

4. Bearings

Ball bearings are used in all of the KTH Series fans. These are high-quality bearings and selected to minimize the fan noise levels. The bearings are pre-lubricated, sealed, and self-centering. For type R and L constructions, the bearings are supplied with lubrication fittings. For type K constructions, the bearings are supplied with redial bearing. For type Z, the beanings are supplied with heavylift double-row ball bearing. Zengjin bearing service life (L10) are over 100,000 hours (L10≥100000 hours).

5、 轴

风机轴采用40Cr低合金钢,经车、调质热处理、磨削制成,强度高,挠度小,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。轴尺寸设计应满足第一临界转速至少为风机最大运行转速的 1.4 倍。

5. Shaft

The shafts are made of 40 Cr carbon steel bars. The shafts are rough machined and then stress relieved with heat treatment before final machining. The shaft diameters are machined to very accurate tolerance levels, and they are fully checked to ensure precision fit. Each shaft is made turned, ground and polished. They are coated after assembly to provide corrosion resistance. Shaft size should be designed to meet the first critical speed of at least fan maximum running speed 1.4 times.

6、 出风口法兰

法兰采用热镀锌钢板制成，法兰与蜗壳的连接采用TOX免焊工艺，外观精美，并具有足够的刚度与强度。

6. Outlet Flange

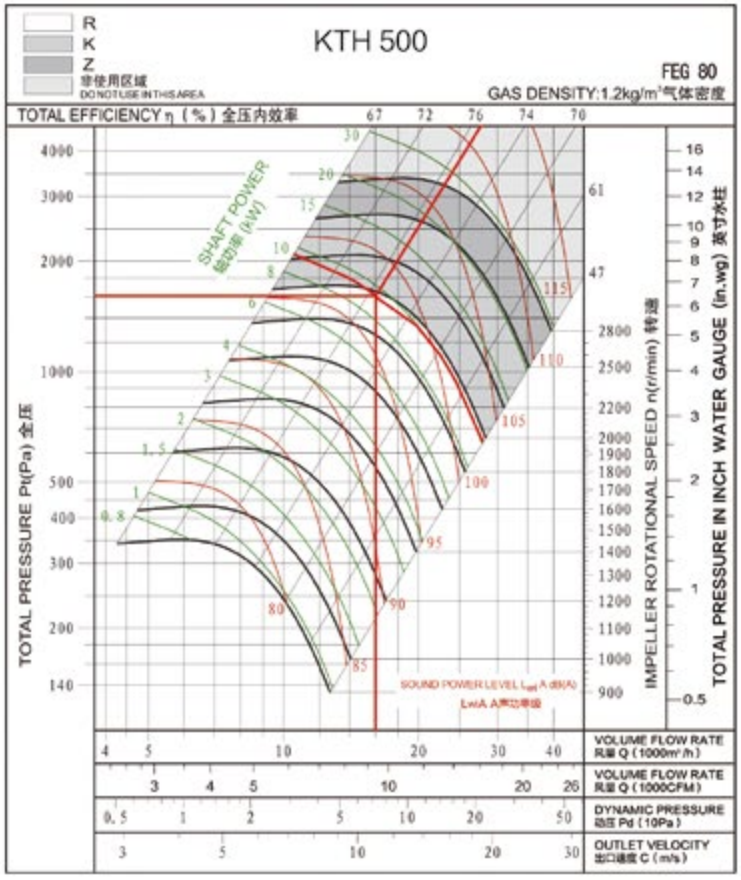
The outlet flange is made of galvanized steel. The connections of the flange components to the scroll are made using a TOX non-welding process. This maintains a good flange appearance while also providing sufficient strength and rigidity.

风机性能 Performance Chart

1、风机选型示意图例

型号 Type	KTH 500K
风量 Volume	q_v=16000m³/h
全压 Total Pressure	P_{tF}=1600Pa
动压 Dynamic Pressure	P_{dF}=71Pa
出口速度 Outlet Velocity	C=10.92m/s
风机转速 Fan Speed	n=1977r/min
轴功率 Shaft Power	P_{sh}=9.43KW
A声功率级 A Sound Power Level	L_{WA}=97dB(A)
全压效率 Total Efficiency	η_{tF}=75.4%

1. Fan Performance Curve

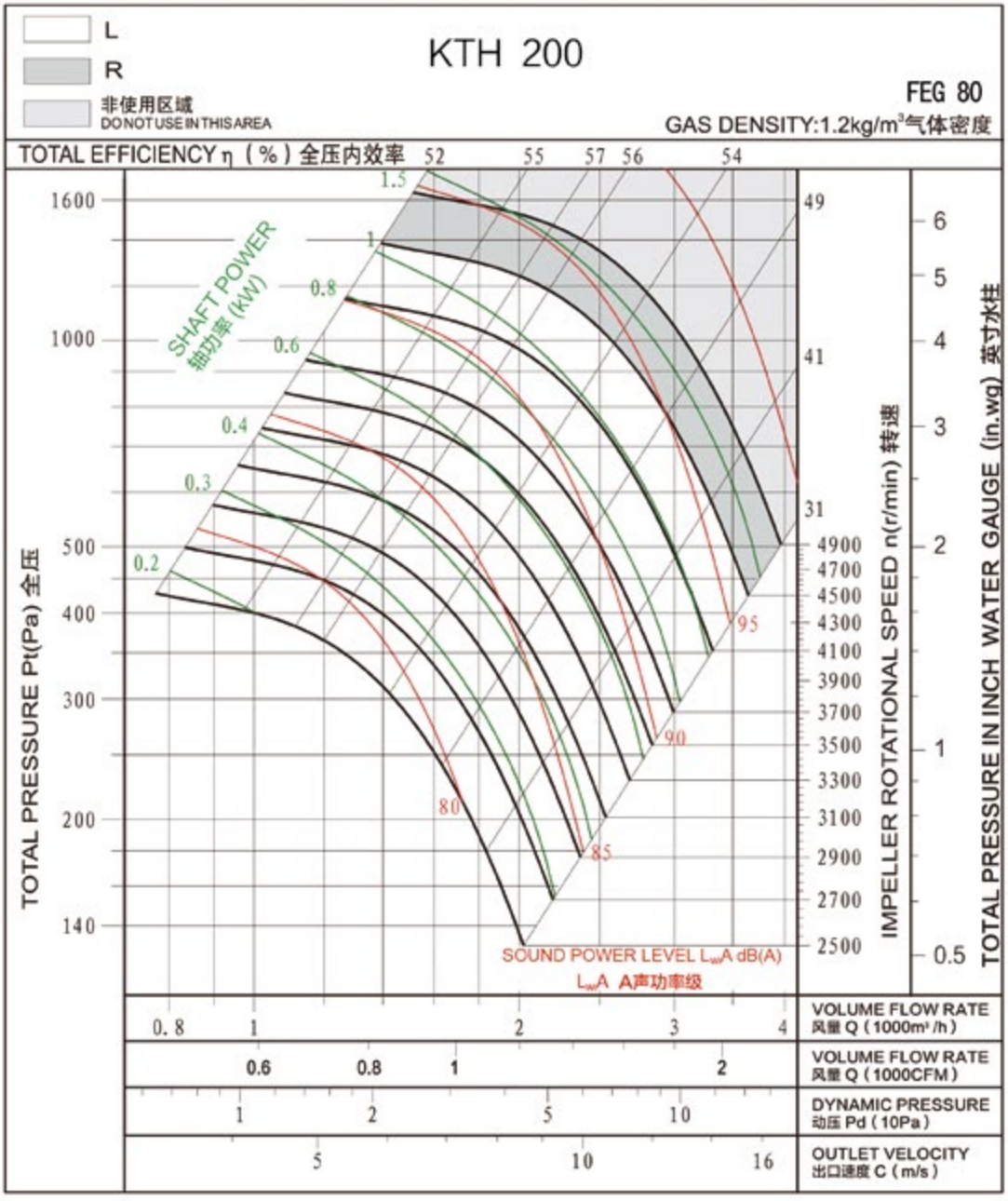


说明 Instructions

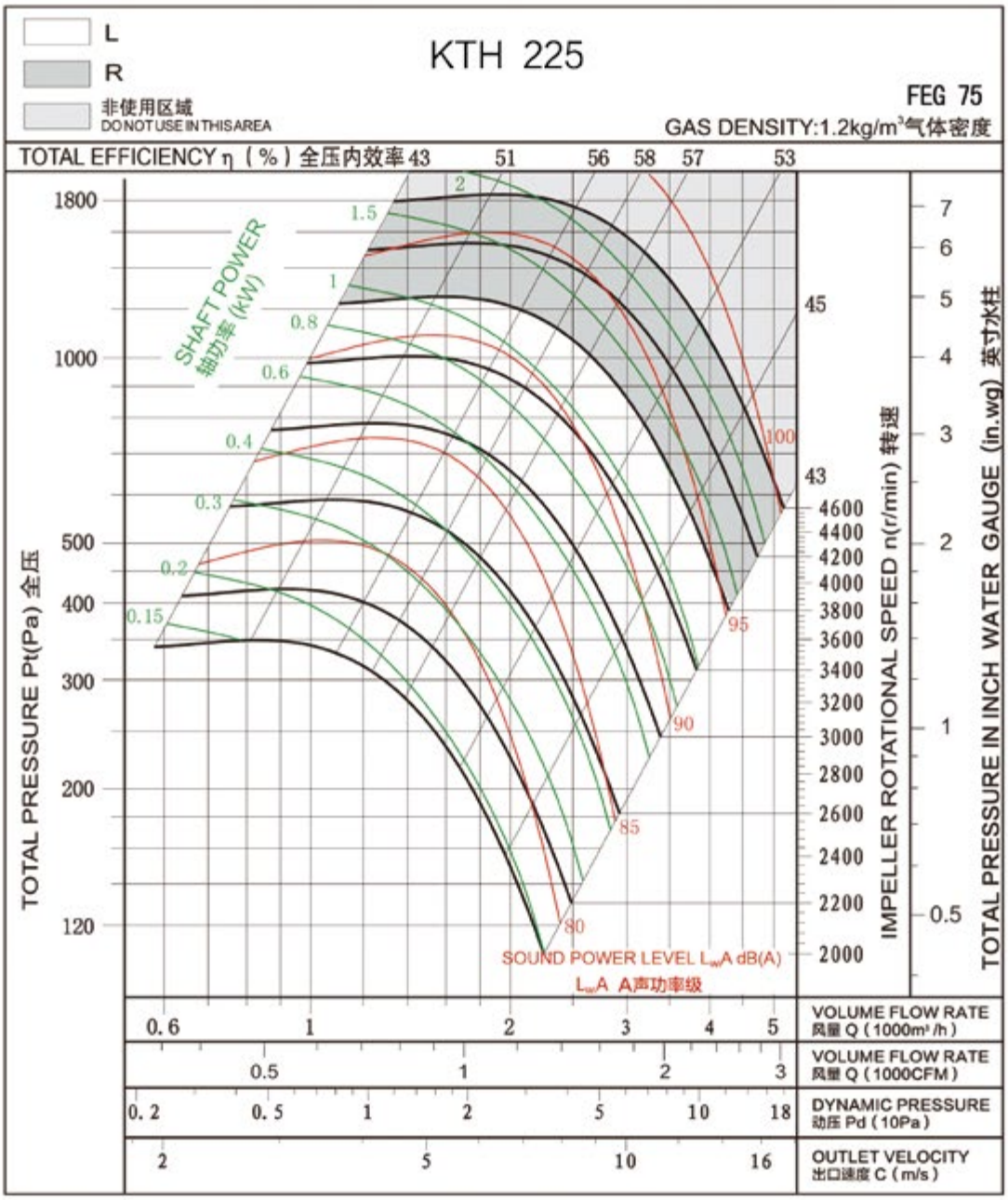
1).订货时须注明风机型号、转速、风量、风压、出风口方向和旋转方向。若需配套皮带、皮带轮、电机、安装底座等配件及其它特殊要求可在订货时提出。
2).在安装前应对风机各部件进行检查，对叶轮、主轴和轴承等主要机件应重点细致检查,如有损伤应修复后再安装使用。
3).检查机壳和其它壳体内部，不应有掉入、遗留的工具和杂物。
4).风机正式运转前，需检查电机的转向是否符合风机转向的要求。
5).风管与出风口之间应采用软连接，接头不得拉紧。
6).风机安装后用手或杠杆拨动叶轮，检查是否过紧或碰撞现象，确认无这些现象时方向可进行试转。
7).风机配用电机功率是指在特定工况下，风机内功率加上机械损失与电机容量安全系数而言，并非出风口全敞开时所需的功率。为防止电机超功率运行而烧毁,严禁风机出风口或进风口不接管路或未加外界任何阻力进行空运转。
8）.风机在无较大腐蚀性气体、不含酸（碱）性和尘粒物质<150mg/m³的气体、-20℃<温度<85℃的气体环境下使用，风机在运输装卸过程中应小心轻放,防止碰撞挤压。

1) When placing the order, it is necessary to state the type of fan, speed, air volume, air pressure, discharge direction, rotation direction, type of electric motor and its specifications.
2) Prior to installation, the fan should be carefully inspected. Special care should be taken in checking the shalf, Wheel and bearings. If there is an indication of any damage, the damaged parts should be repaired or repaired before the fan is installed or commissioned.
3) The inside of the scroll and casing need to be checked to make sure that there are no foreign objects inside the housing, such as tools or loose parts.
4) The rotational directions of the motor and Wheel should be checked to ensure that they are in comliance with the specification and purchase orders.
5) A flexible connector should be used between the fan out let flange and its mating ductwork. The flex connector should not be over-stretched.
6) Following the installation, the Wheel should be turned by hand or with the use of a wrench to make sure that it turns freely without colliding with other parts of the fan. Once all this is done, the fan can be commissioned normally.
7) The rated motor power as calcutated herein might not be sufficient to drive the fan with an unrestricted discharge flow. Operating the fan with an unrestricted discharge outlet will result in flow rate that exceeds the specified fan capabilities. Such operation will quickly burn the motor and damage the fan. Great care must be taken in operating the fan to make sure that the maximum rated flows, as provided on the performanced charts in this catalog, are not exceeded.
8) The fan is limited for use in areas where air substances are non-corrosive, non-toxics and non-erosive and where dust particles are less than 150mg/m'with a temperature between -20℃ and 85℃. Special care should be taken during transportation, load and unload.

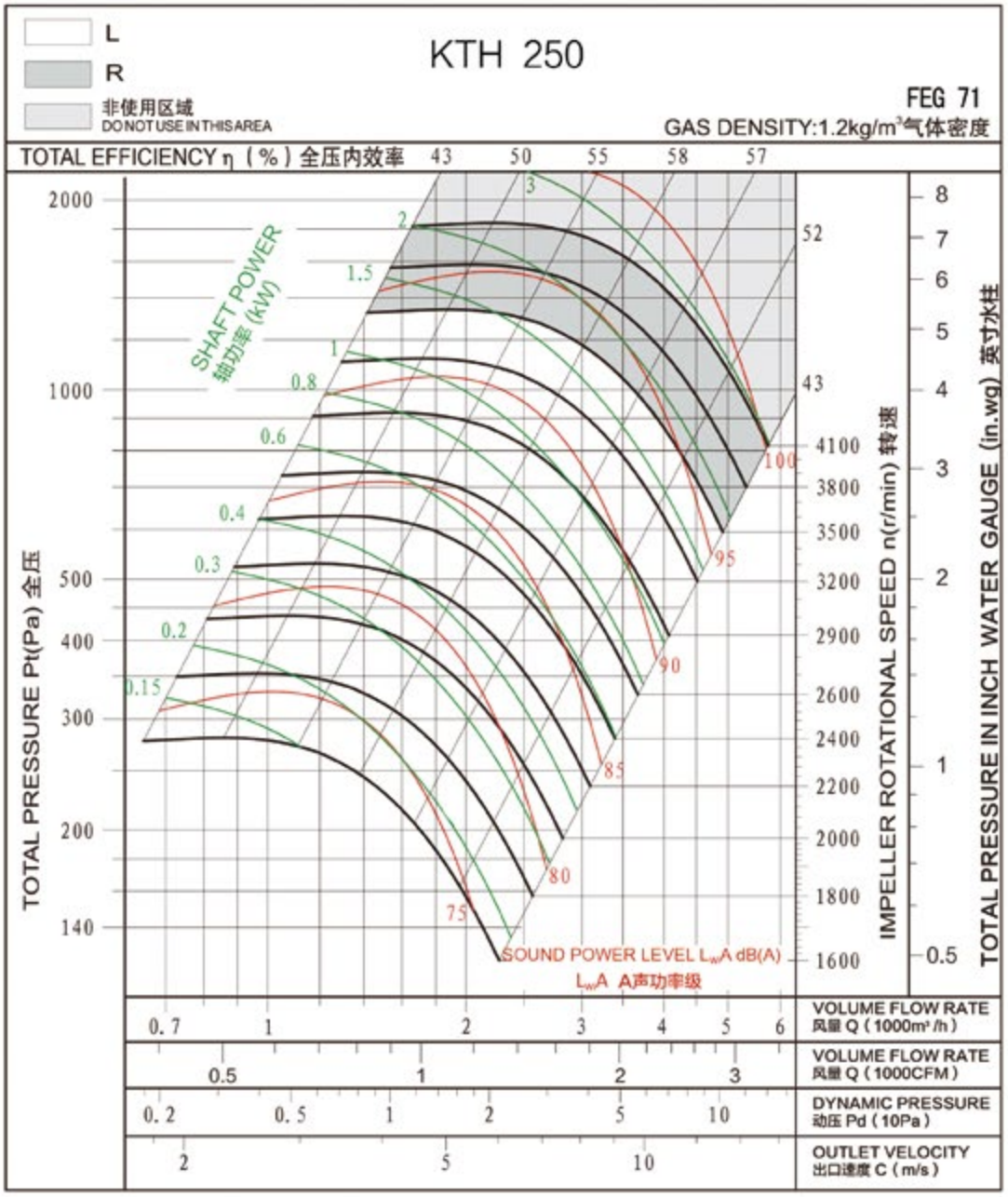
KTH 200 性能曲线图 Performance Curve



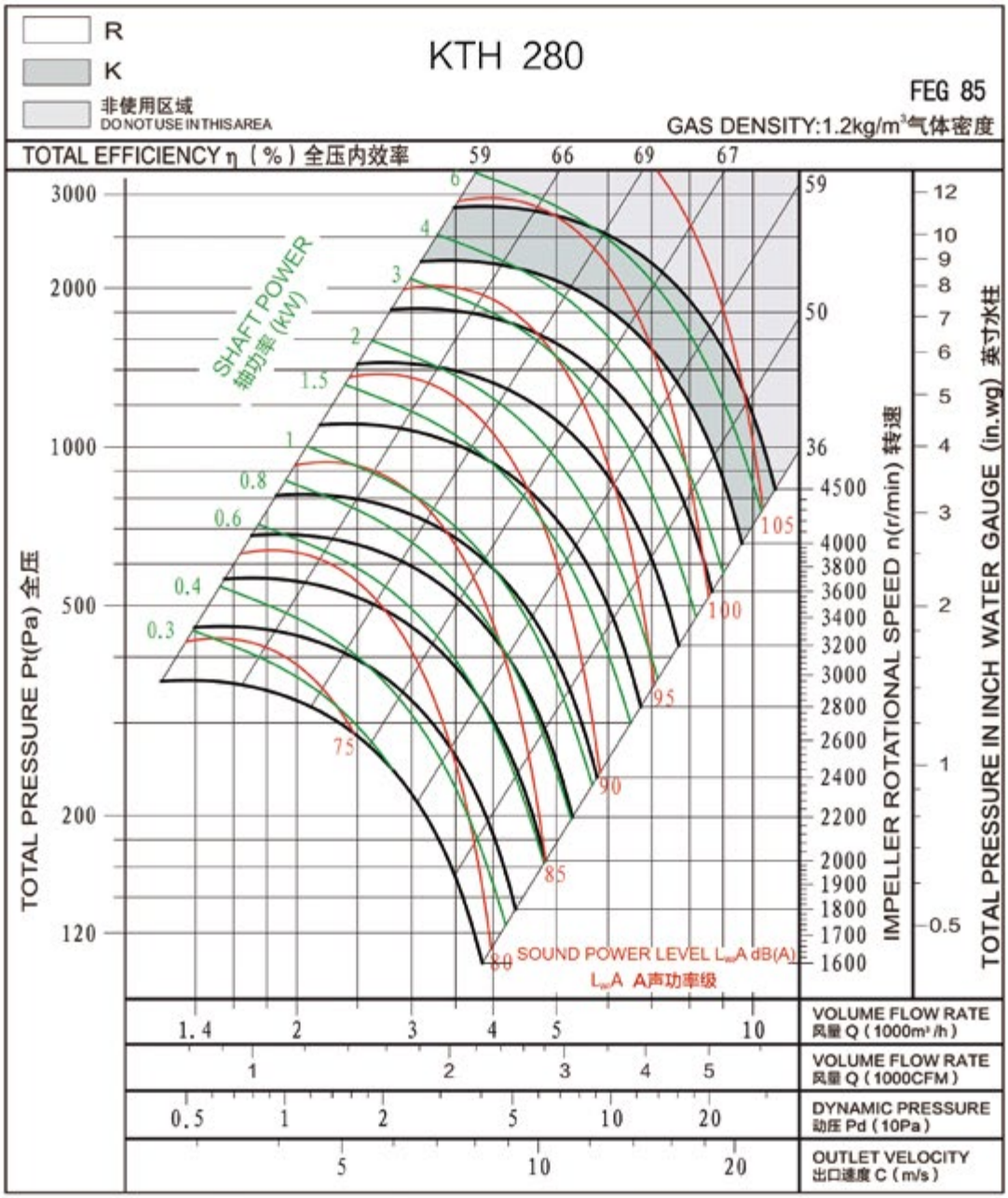
KTH 225 性能曲线图 Performance Curve



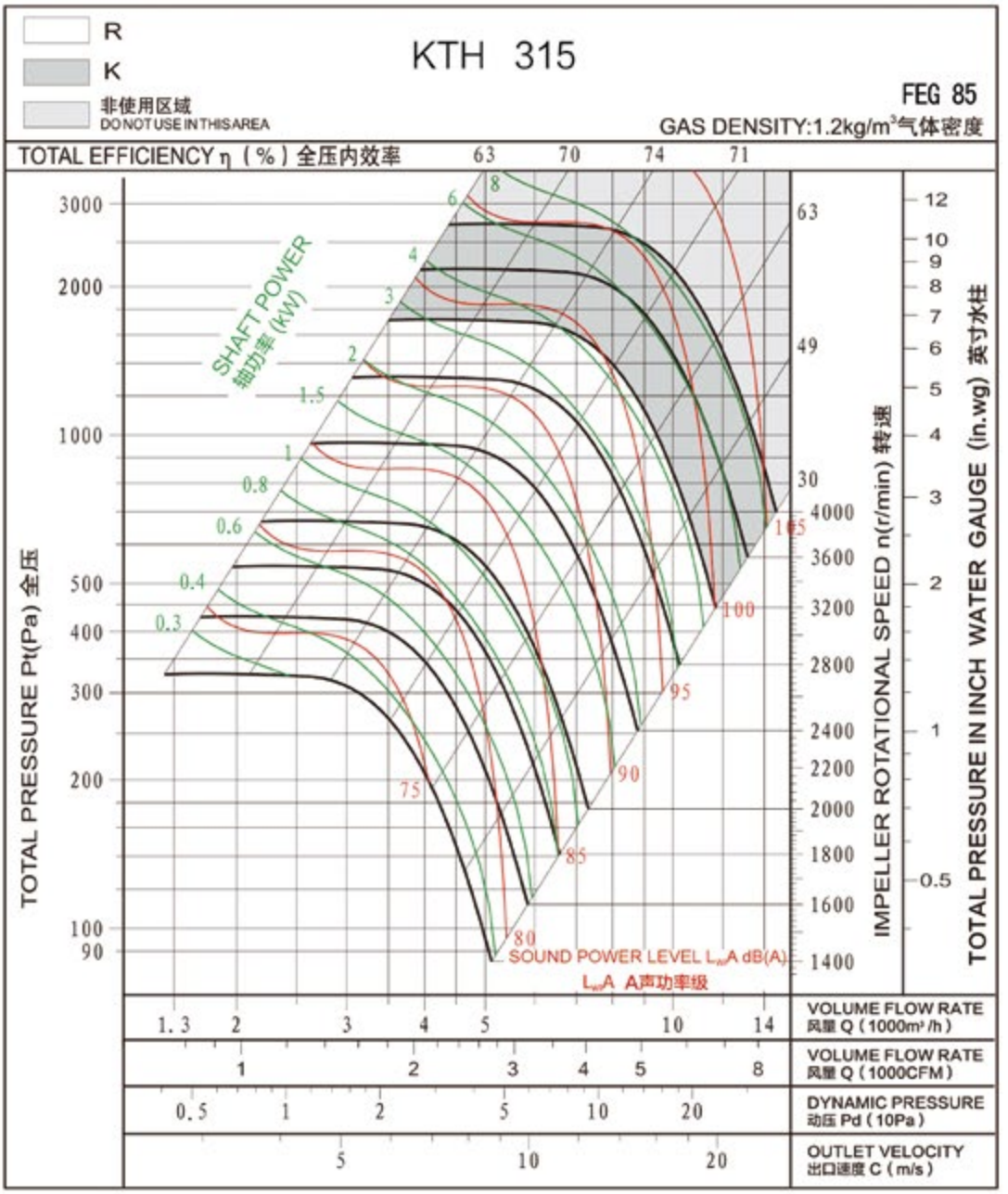
KTH 250 性能曲线图 Performance Curve



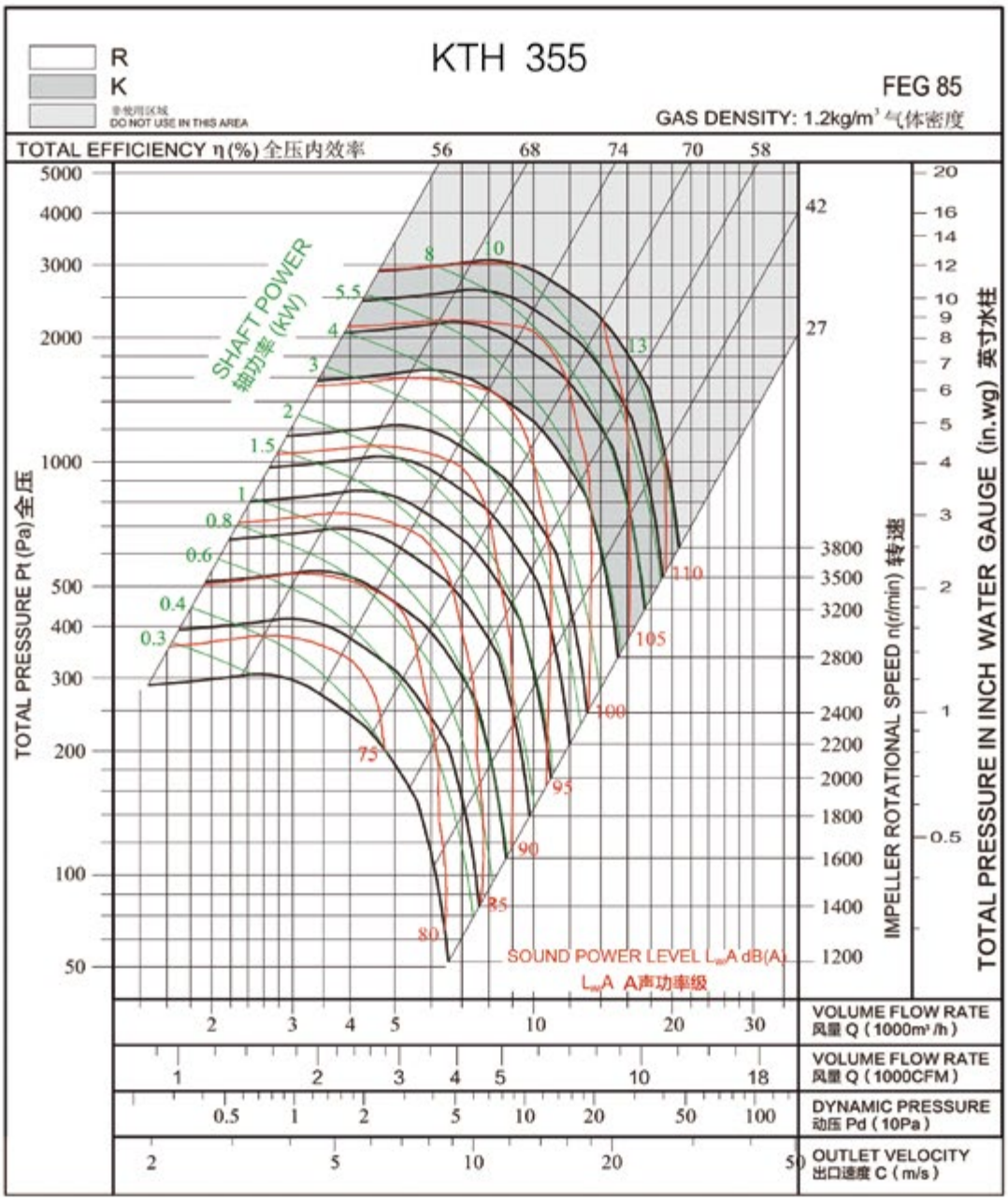
KTH 280 性能曲线图 Performance Curve



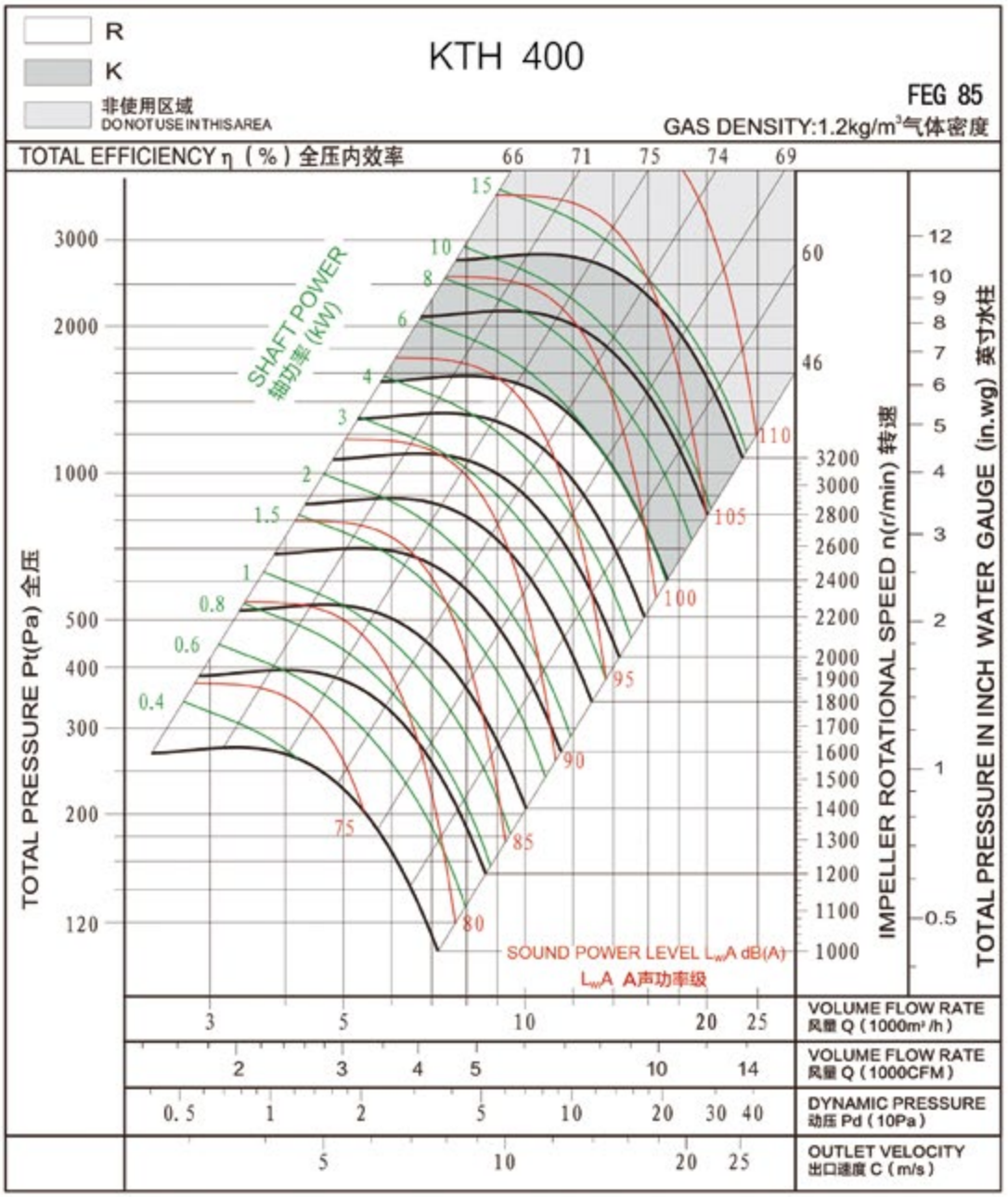
KTH 315 性能曲线图 Performance Curve



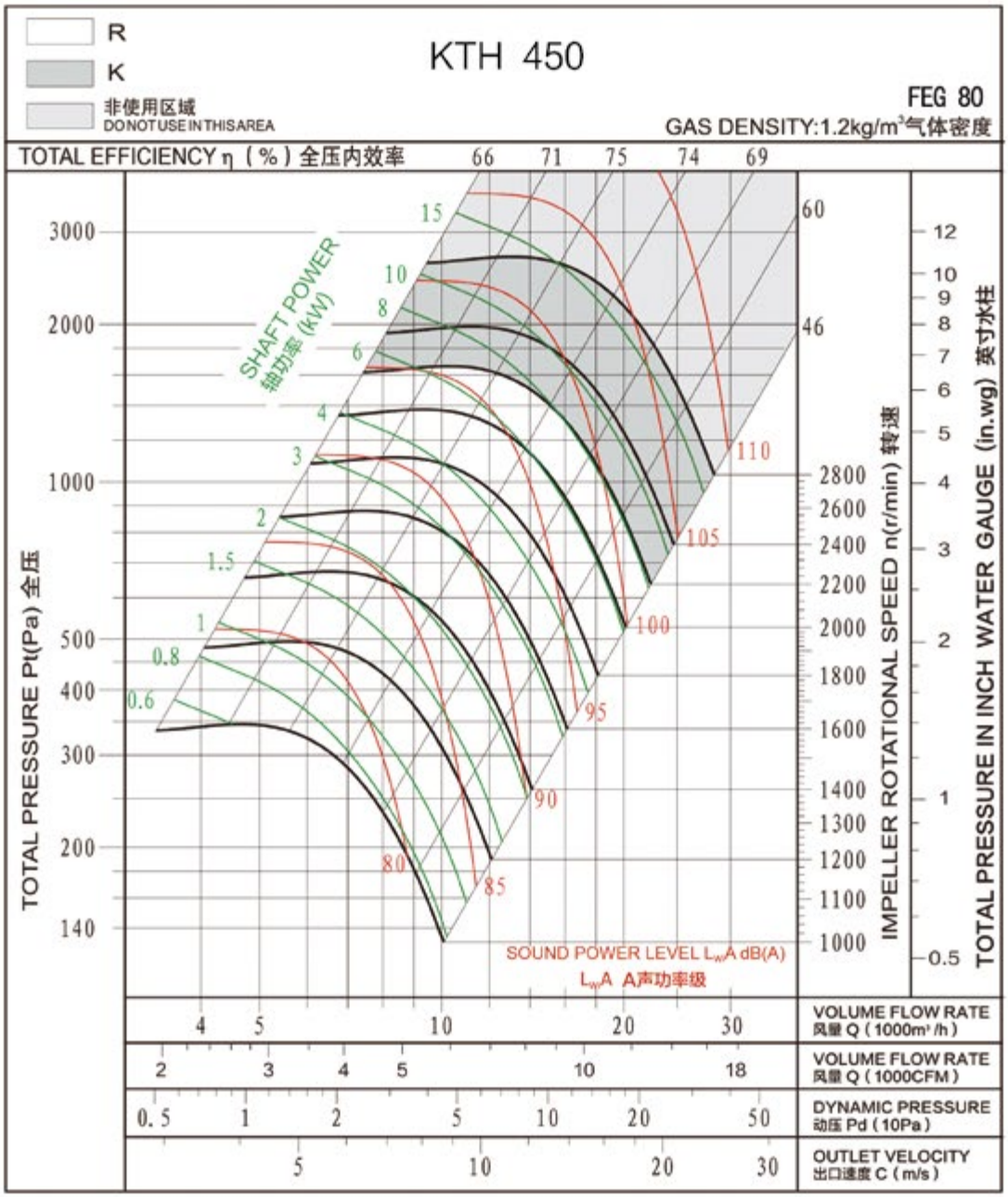
KTH 355 性能曲线图 Performance Curve



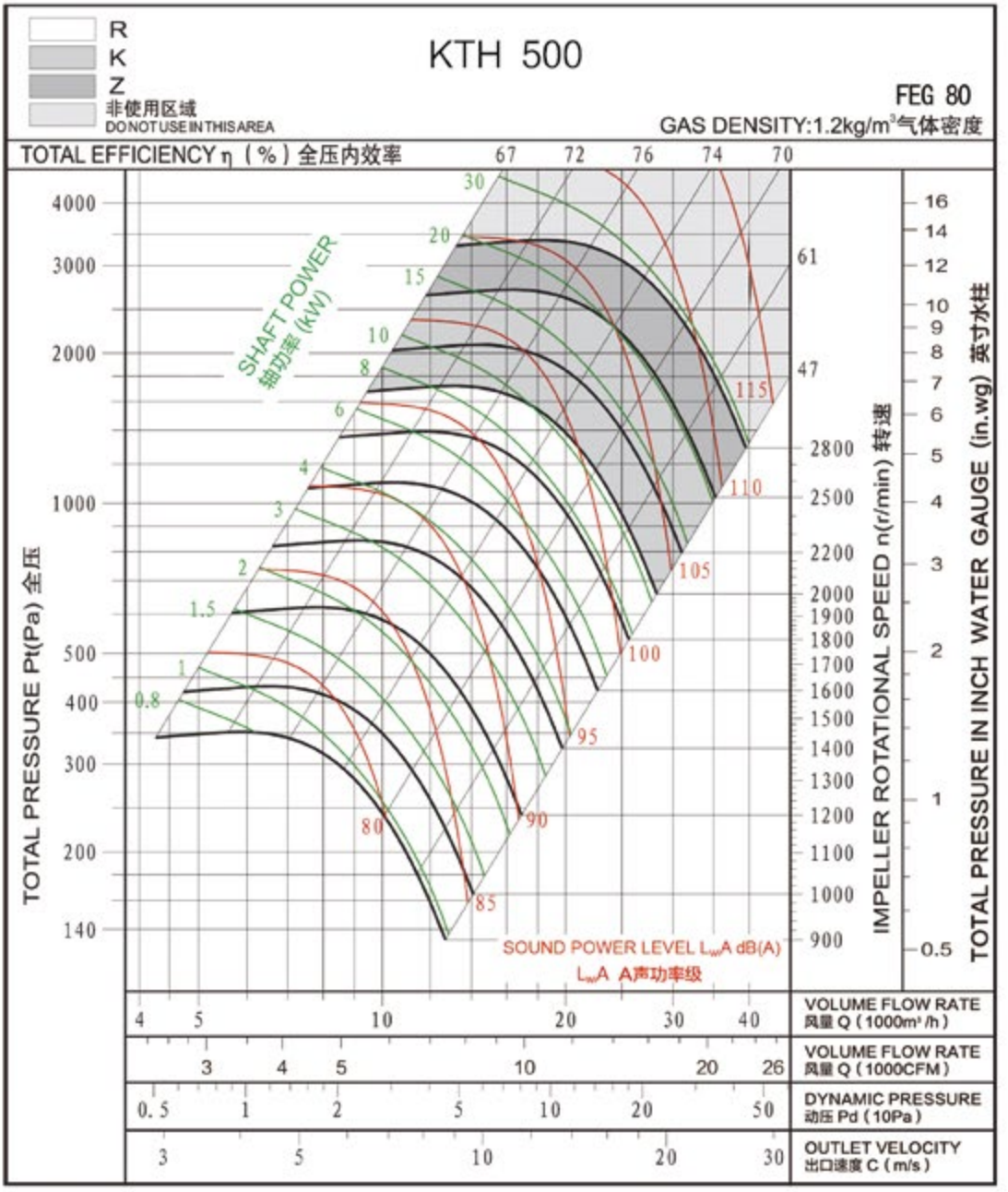
KTH 400 性能曲线图 Performance Curve



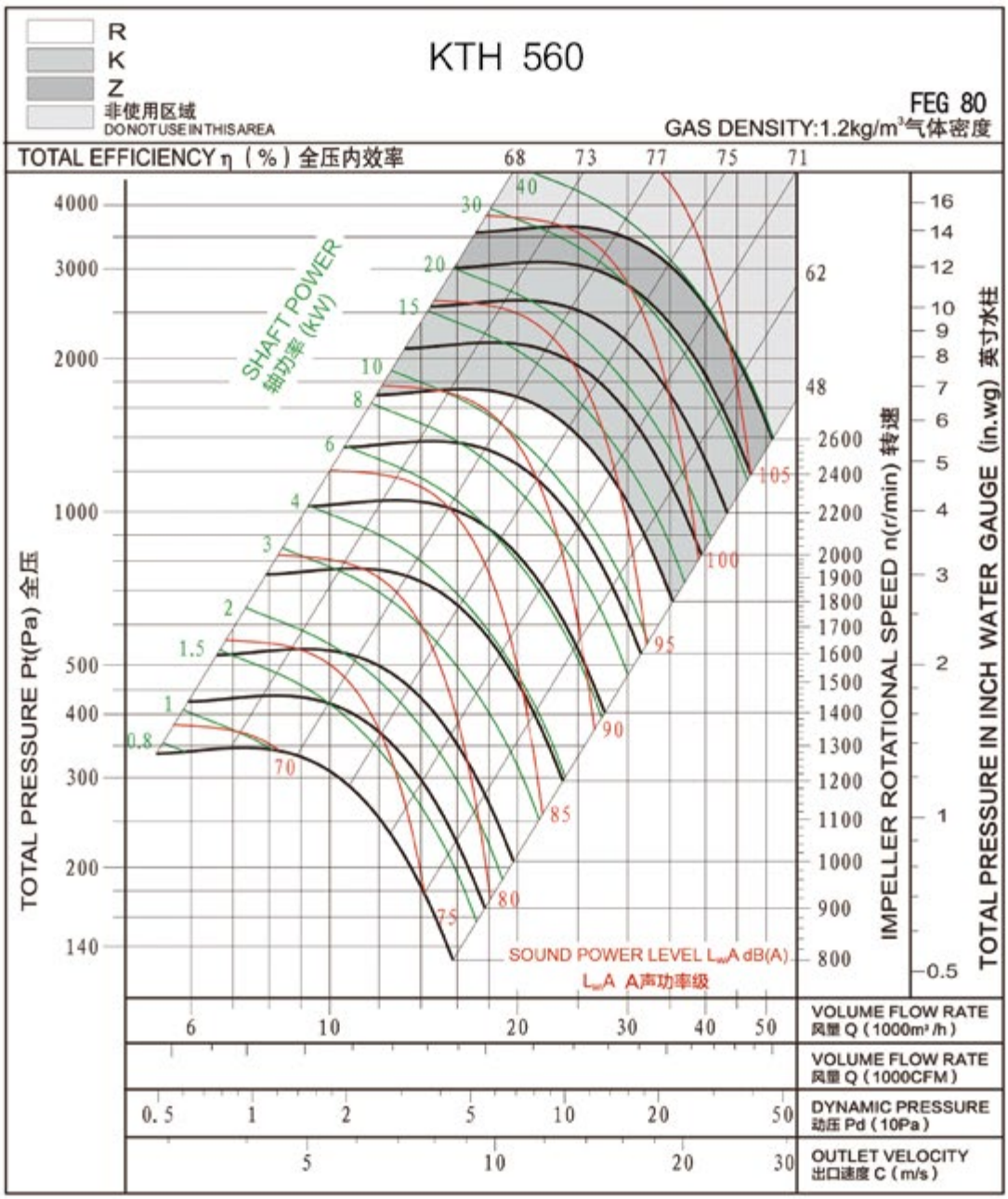
KTH 450 性能曲线图 Performance Curve



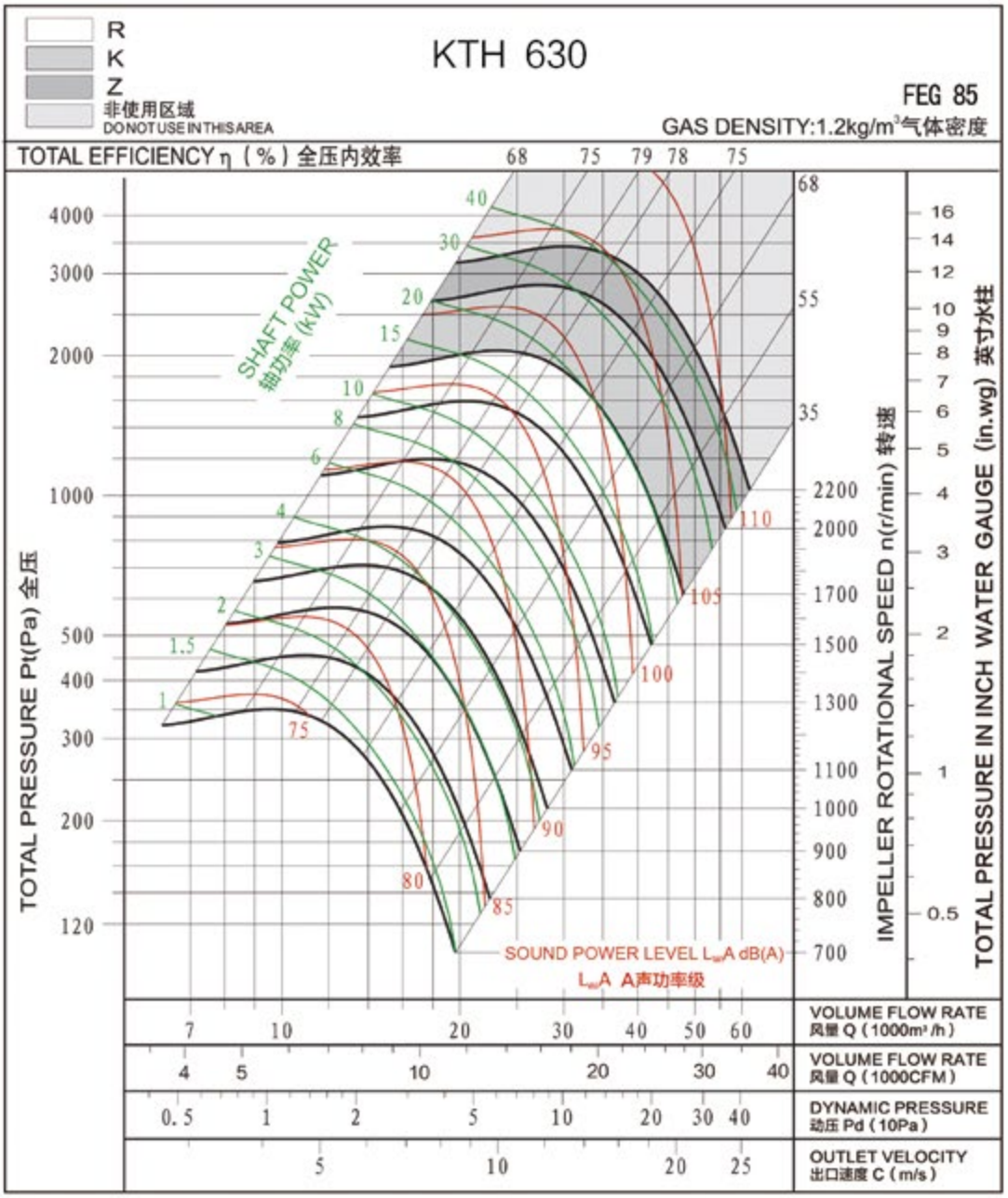
KTH 500 性能曲线图 Performance Curve



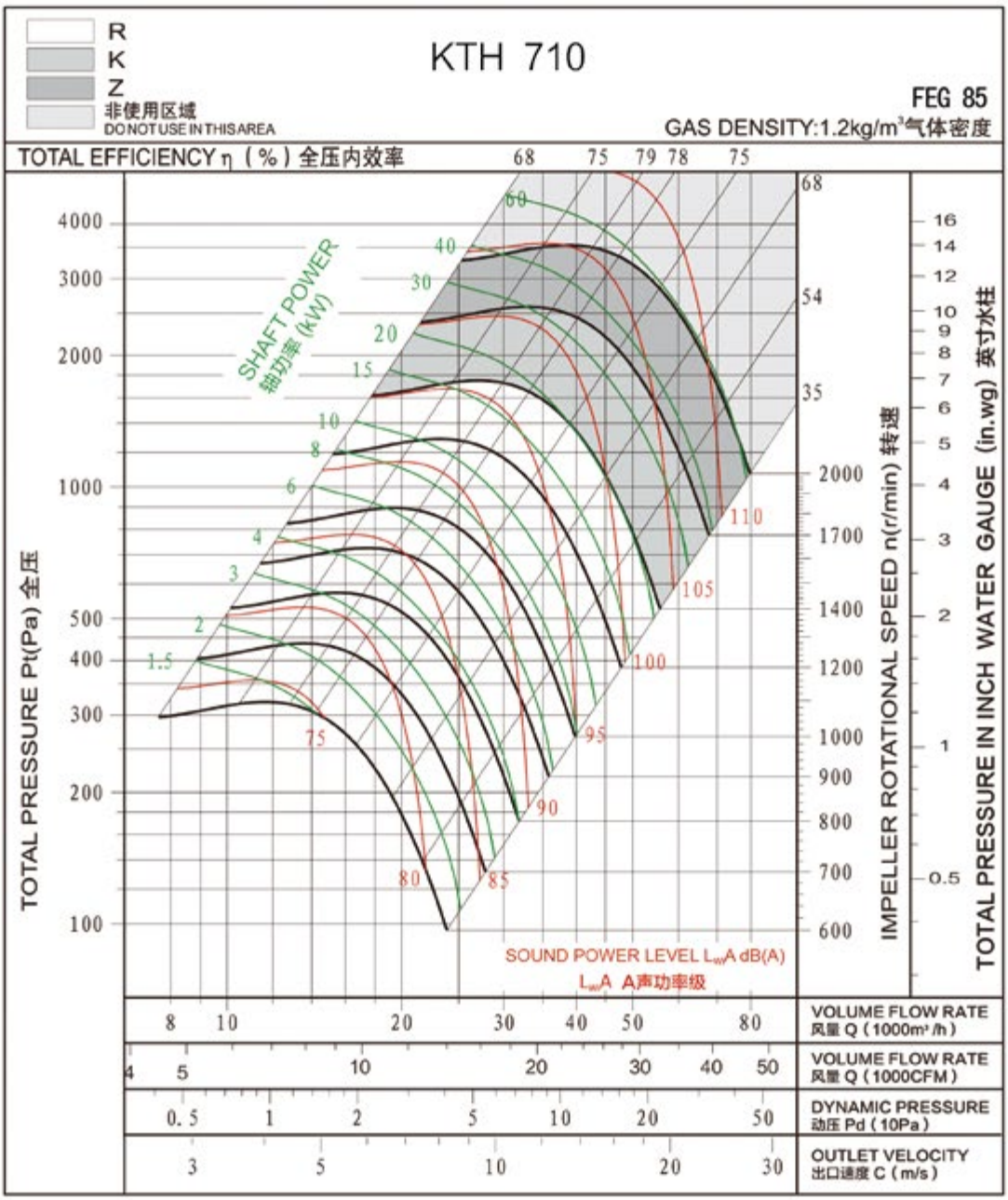
KTH 560 性能曲线图 Performance Curve



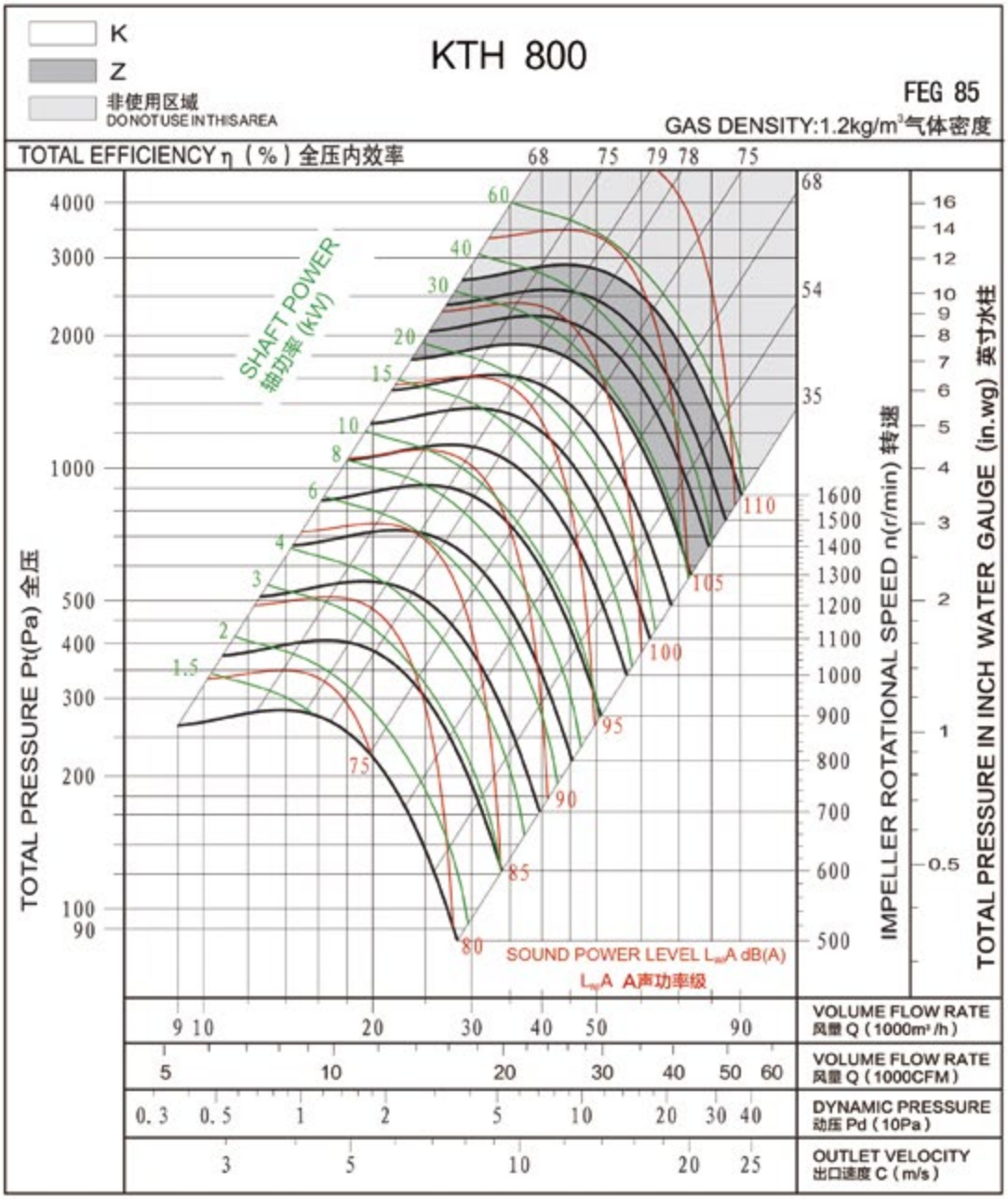
KTH 630 性能曲线图 Performance Curve



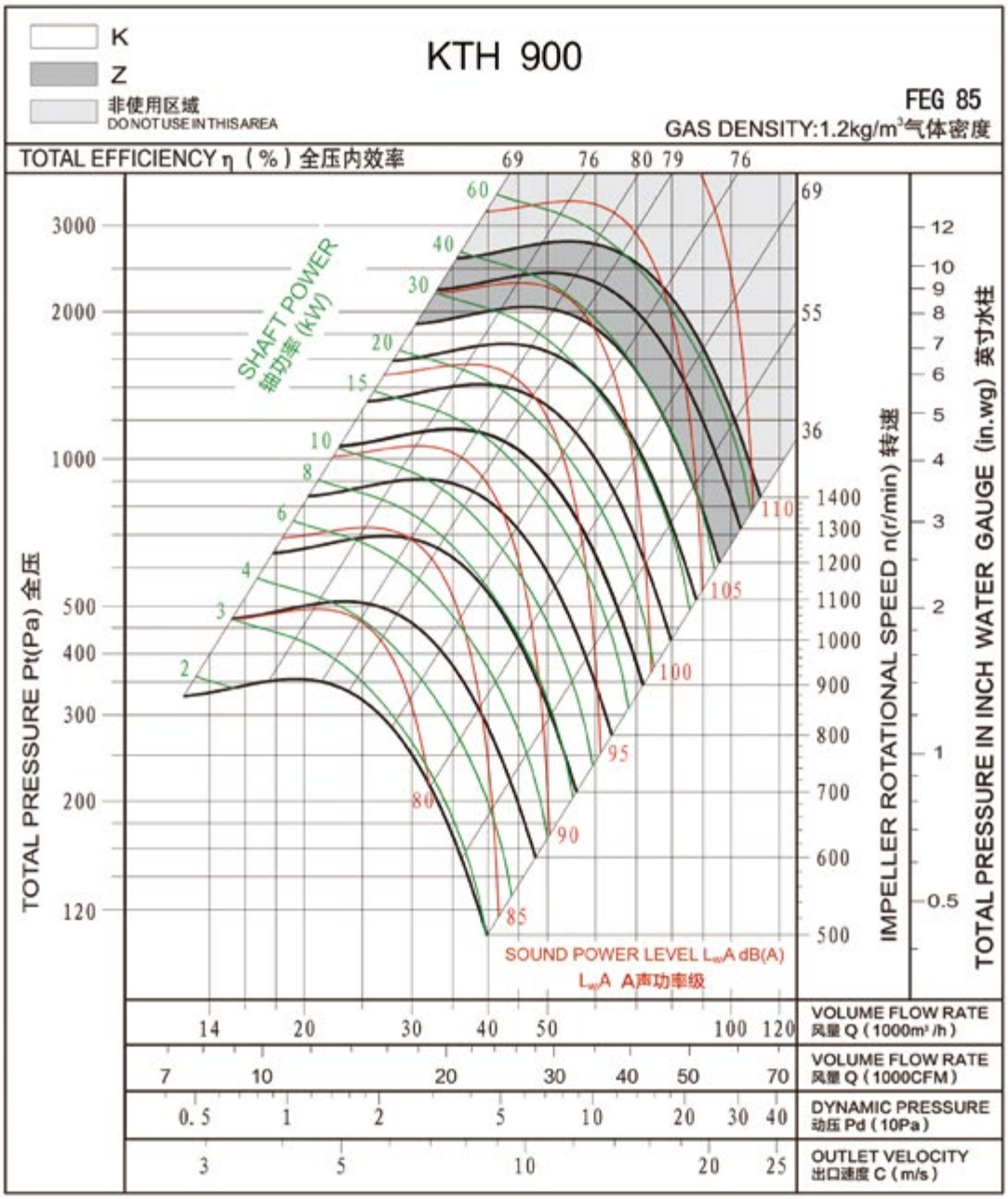
KTH 710 性能曲线图 Performance Curve



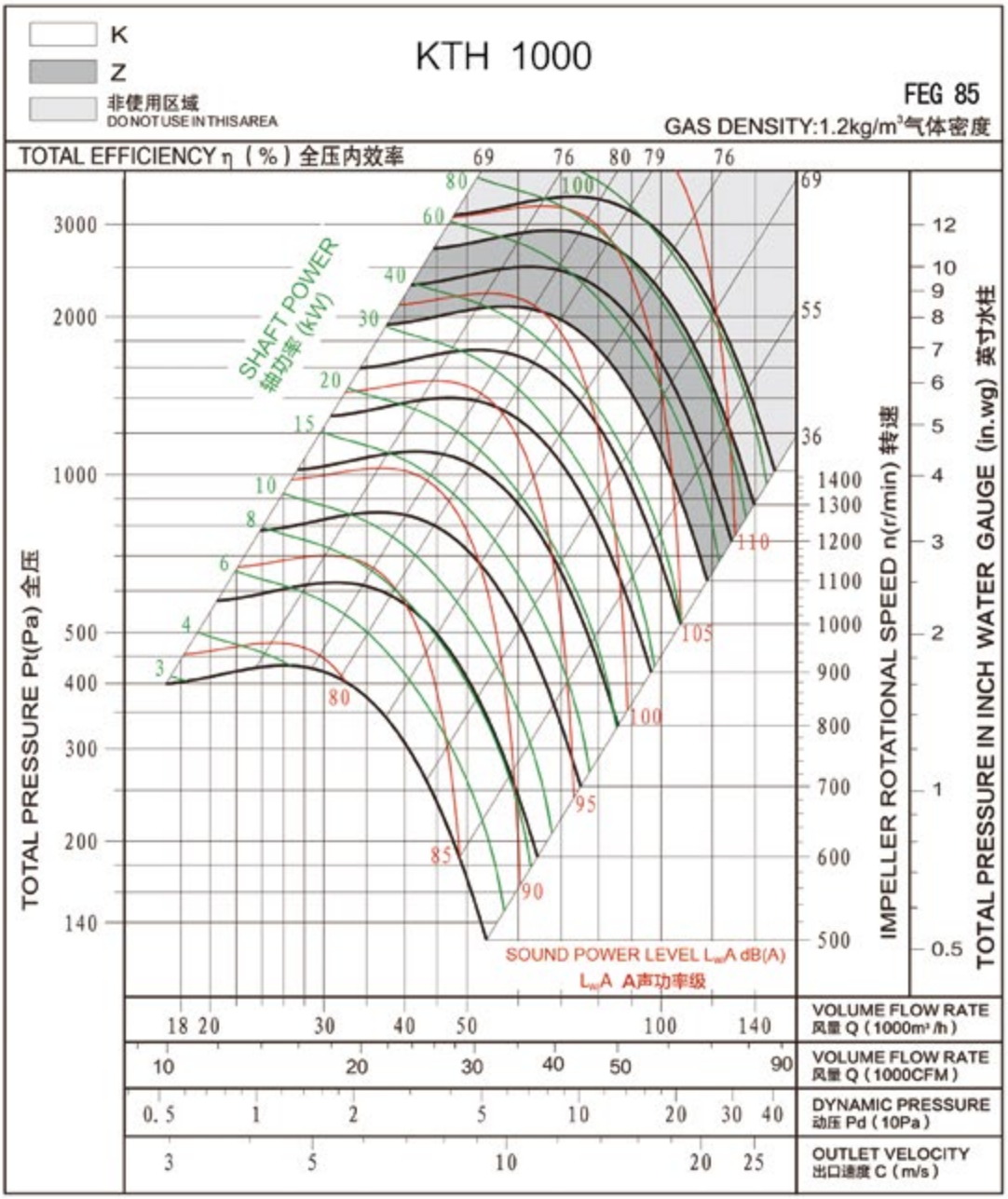
KTH 800 性能曲线图 Performance Curve



KTH 900 性能曲线图 Performance Curve



KTH 1000 性能曲线图 Performance Curve



出口法兰 Outlet Flange

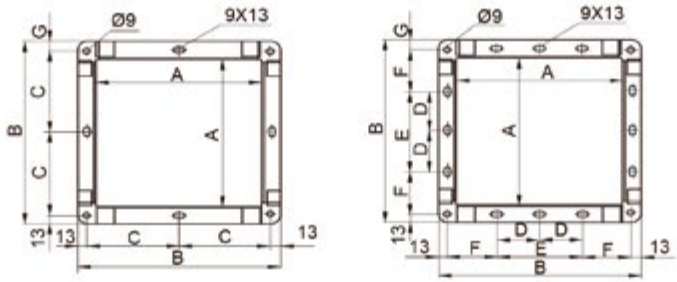
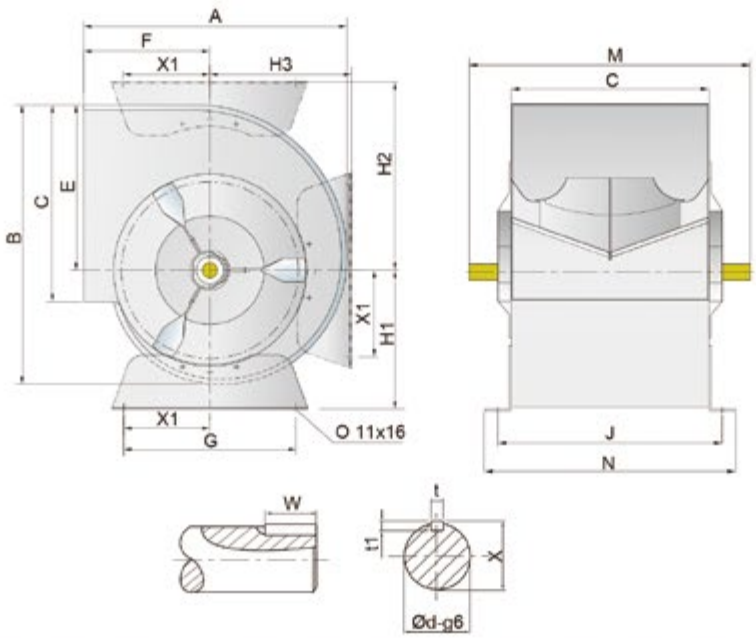


图3(Fig 3)

单位：mm

Dim \ Modle	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000
A	256	288	322	361	404	453	507	569	638	715	801	898	1007	1130	1267
B	296	328	362	417	460	509	563	625	694	771	857	954	1063	1186	1323
C	138	154	171	195.5	217	241.5	-	-	-	-	-	-	-	-	-
D				-	-	-	-	-	-	-	-	200	250	300	350
E		-	-	-	-	-	200	200	250	250	300	400	500	600	700
F				-	-	-	169	200	209	248	266	264	269	280	299
G	10	10	10	13	13	13	13	13	13	13	13	13	13	13	13

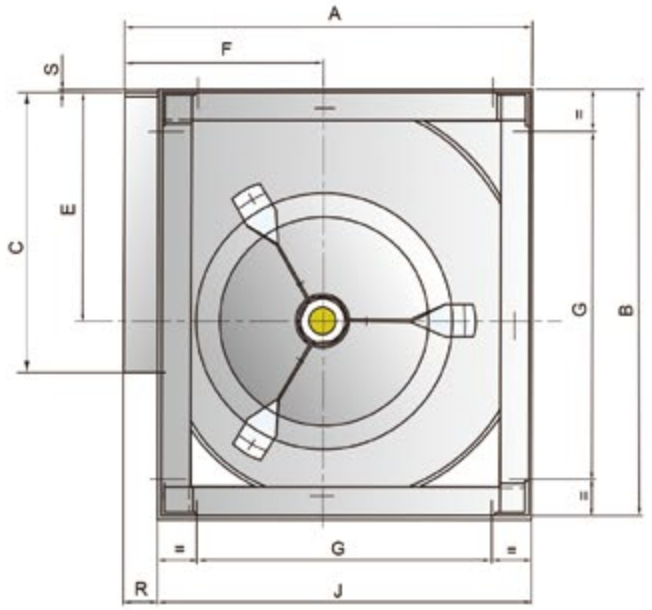
KTH-L

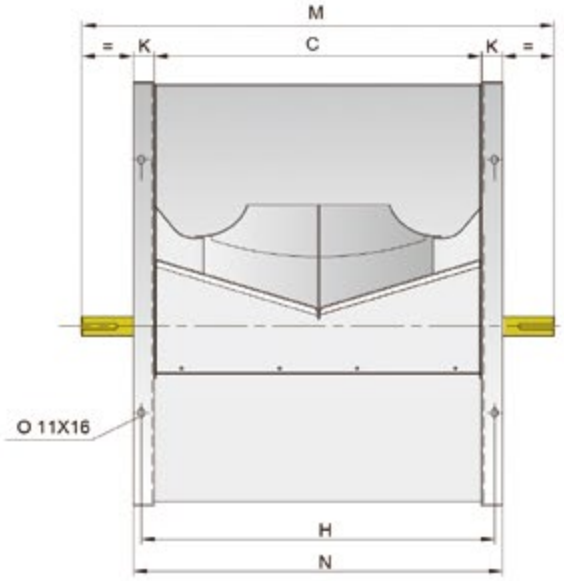


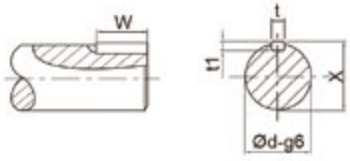
单位：mm

Dim \ Modle	A	B	C	E	F	G	J	M	N	X1	H1	H2	H3	t	t1	X	W	Ød
200	342	364	256	215	164	224	281	420	306	112	181	245	184	6	6	22.5	40	20
225	380	408	288	243	180	224	313	460	338	112	197	274	204	6	6	22.5	50	20
250	417	454	322	270	195	224	347	490	372	112	212	299	227	6	6	22.5	50	20

KTH-R



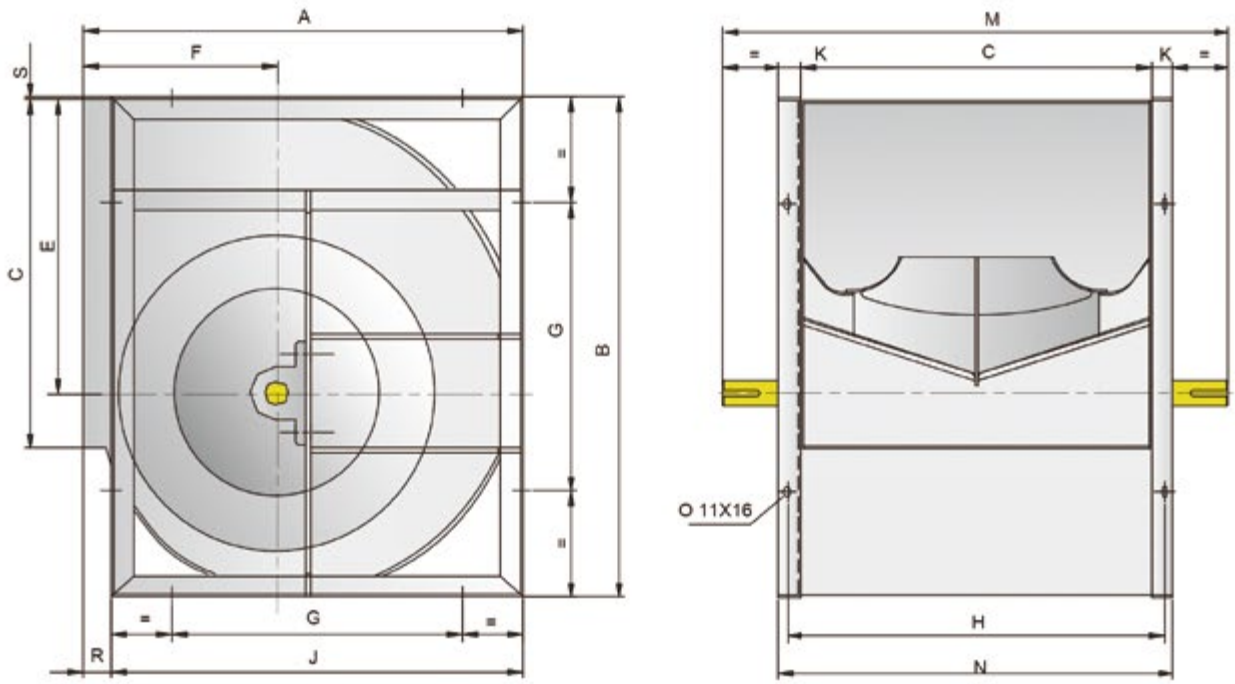


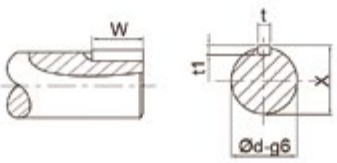


单位：mm

Modle / Dim	A	B	C	E	F	G	H	J	K	M	N	R	S	t	t1	X	W	Ød
200	343	370	256	215	164	224	281	306	25	420	306	37	4	6	6	23	40	20
225	383	415	288	243	180	224	313	348	25	460	338	35	3	6	6	23	50	20
250	419	461	322	270	195	224	347	384	25	490	372	35	4	6	6	23	50	20

KTH-R

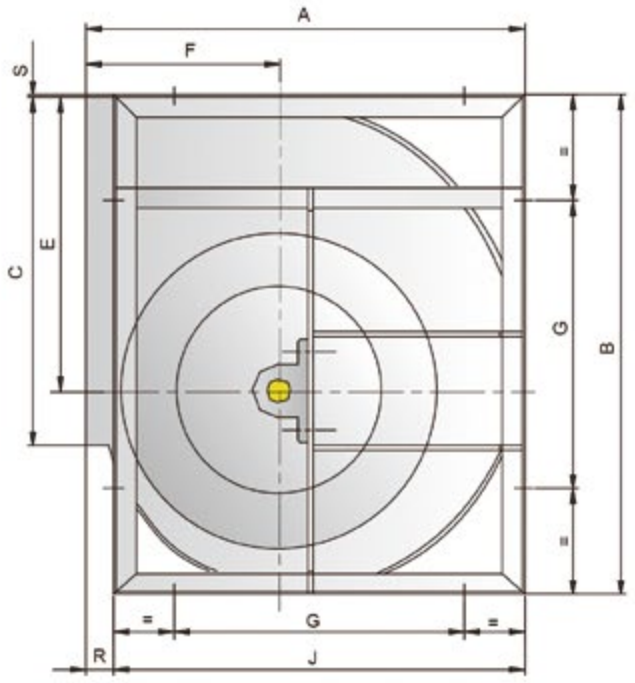


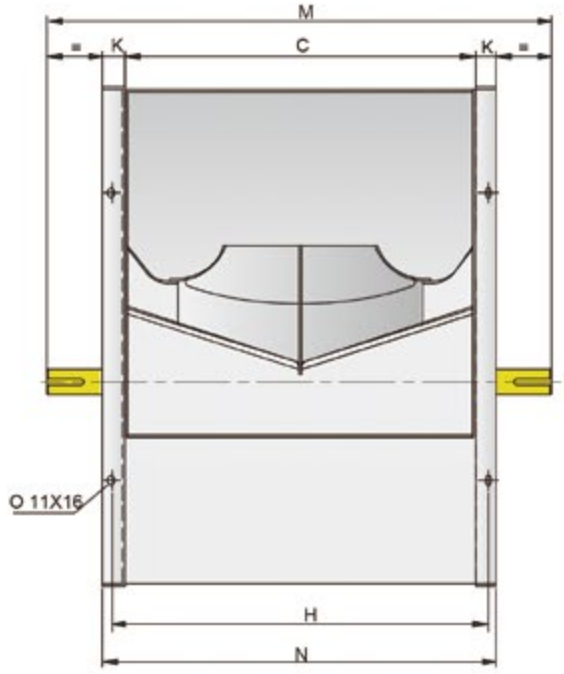


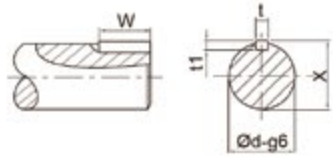
单位：mm

Modle / Dim	A	B	C	E	F	G	H	J	K	M	N	R	S	t	t1	W	X	Ød	LxV
280	466	518	361	302	215	280	391	432	30	575	421	34	5	8	7	50	28	25	13x18
315	518	578	404	340	236	280	434	480	30	640	464	38	3	8	7	60	28	25	13x18
355	578	655	453	383	261	355	493	548	40	700	533	30	6	8	7	60	33	30	13x18
400	651	736	507	432	290	355	547	613	40	760	587	38	5	8	7	60	33	30	13x18
450	726	827	569	486	322	530	609	681	40	845	649	45	5	10	8	70	38	35	13x18
500	800	918	638	538	352	530	678	750	40	915	718	50	5	10	8	70	38	35	13x18
560	893	1030	715	603	390	530	765	845	50	1000	815	48	8	12	8	70	43	40	13x18
630	999	1157	801	679	434	530	851	946	50	1090	901	53	7	14	9	70	49	45	13x18
710	1121	1303	898	765	485	630	948	1058	50	1255	998	63	7	14	9	90	54	50	17x22

KTH-K(Z)



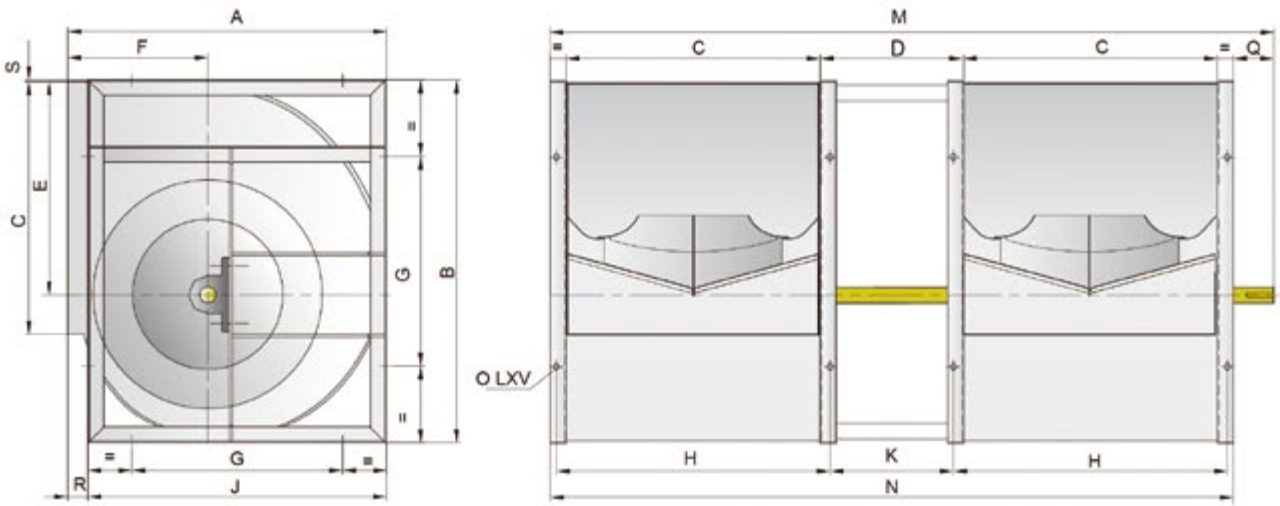


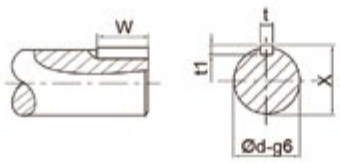


单位：mm

Dim \ Modle	A	B	C	E	F	G	H	J	K	M	N	R	S	t	t1	W	X	Ød	LxV
280	466	518	361	302	215	280	391	432	30	600	421	34	5	8	7	60	33	30	13x18
315	518	578	404	340	236	280	434	480	30	665	464	38	3	8	7	70	33	30	13x18
355	578	655	453	383	261	355	493	548	40	725	533	30	6	10	8	70	38	35	13x18
400	651	736	507	432	290	355	547	613	40	790	587	38	5	10	8	70	38	35	13x18
450	726	827	569	486	322	530	609	681	40	890	649	45	5	12	8	90(70)	43	40	13x18
500	800	918	638	538	352	530	678	750	40	960	718	50	5	12	8	90(70)	43	40	13x18
560	893	1030	715	603	390	530	765	845	50	1070	815	48	8	14	9	90(70)	53	50	13x18
630	999	1157	801	679	434	530	851	946	50	1155	901	53	7	14	9	90(70)	53	50	13x18
710	1121	1303	898	765	485	630	948	1058	50	1290	998	63	7	18	11	90	64	60	17x22
800	1250	1468	1007	862	535	710	1057	1181	50	1450	1107	69	7	18	11	90	64	60	17x22
900	1408	1648	1130	971	604	800	1180	1319	60	1570	1250	89	7	18	11	100	69	65	17x22
1000	1541	1810	1267	1066	657	900	1317	1462	60	1700	1387	79	9	18	11	100	69	65	17x22

KTH-(K)2





KTH-R2

单位：mm

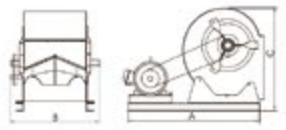
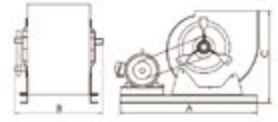
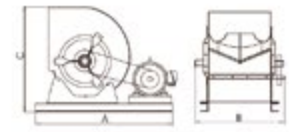
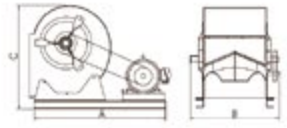
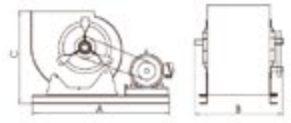
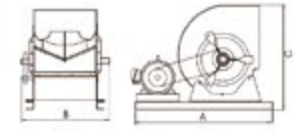
Modle / Dim	A	B	C	D	E	F	G	H	J	K	M	N	Q	R	S	t	t1	W	X	Ød	LxV
280	466	518	361	280	302	215	280	391	432	250	1165	1062	103	34	5	8	7	60	28	25	13x18
315	518	578	404	315	340	236	280	434	480	285	1286	1183	103	38	3	8	7	60	33	30	13x18
355	578	655	453	355	383	261	355	493	548	315	1442	1341	101	30	6	12	8	70	43	40	13x18
400	651	736	507	400	432	290	355	547	613	360	1610	1494	116	38	5	14	9	60	49	45	13x18
450	726	827	569	450	486	322	530	609	681	410	1782	1668	114	45	5	12	8	70	43	45	13x18
500	800	918	638	500	538	352	530	678	750	460	1977	1856	121	50	5	14	9	70	49	45	13x18

KTH-K2

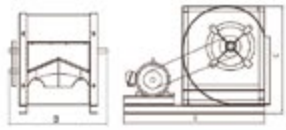
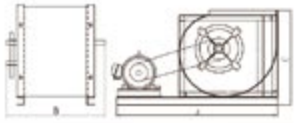
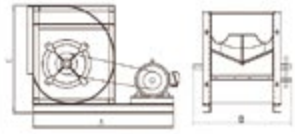
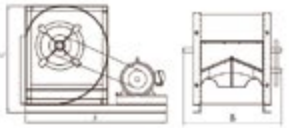
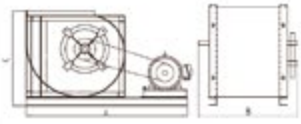
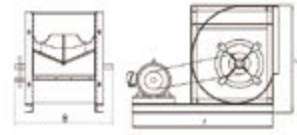
单位：mm

Modle / Dim	A	B	C	D	E	F	G	H	J	K	M	N	Q	R	S	t	t1	W	X	Ød	LxV
355	578	655	453	355	383	261	355	493	548	315	1442	1341	101	30	6	12	8	70	43	40	13x18
400	651	736	507	400	432	290	355	547	613	360	1610	1494	116	38	5	14	9	70	48.5	45	13x18
450	726	827	569	450	486	322	530	609	681	410	1795	1668	127	45	5	18	11	70	48.5	45	13x18
500	800	918	638	500	538	352	530	678	750	460	1977	1856	121	50	5	12	8	70	53.5	50	13x18

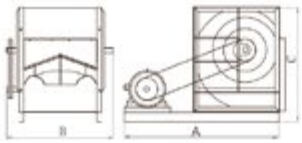
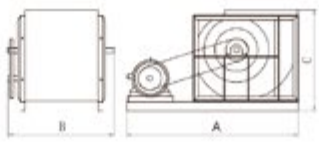
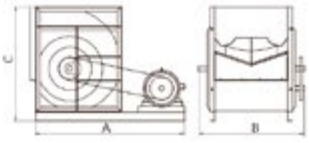
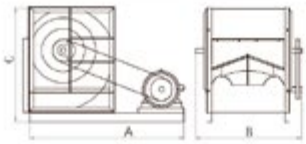
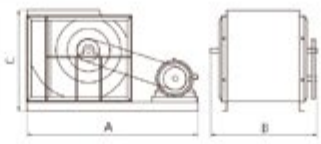
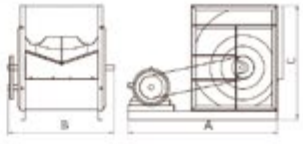
KTH-L

		0°		90°		180°	
左旋 LG Left Hand							
右旋 RD Right Hand							
型号 Model	电机机座型号 Motor Frame Size	A	B	A	B	A	B
200	56	730	420	730	348	730	396
	63	730	420	730	348	730	396
	71	730	420	730	348	730	396
	80	730	420	730	348	730	396
225	63	760	460	760	384	760	440
	71	760	460	760	384	760	440
	80	760	460	760	384	760	440
	90	760	460	760	384	760	440
250	63	820	490	820	422	820	482
	71	820	490	820	422	820	482
	80	820	490	820	422	820	482
	90	820	490	820	422	820	482

KTH-R

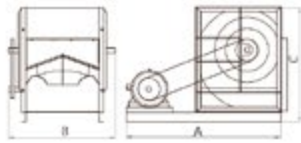
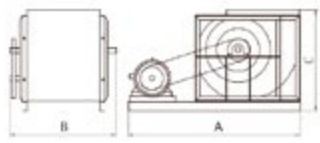
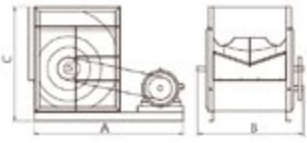
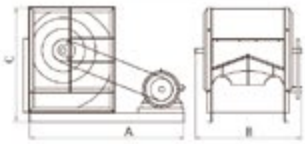
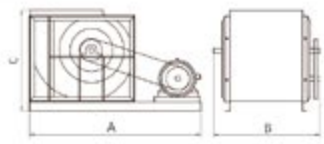
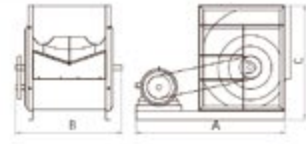
		0°		90°		180°	
左旋 LG Left Hand							
右旋 RD Right Hand							
型号 Model	电机机座型号 Motor Frame Size	A	B	A	B	A	B
200	56	730	420	730	348	730	396
	63	730	420	730	348	730	396
	71	730	420	730	348	730	396
	80	730	420	730	348	730	396
225	63	760	460	760	384	760	440
	71	760	460	760	384	760	440
	80	760	460	760	384	760	440
	90	760	460	760	384	760	440
250	63	820	490	820	422	820	482
	71	820	490	820	422	820	482
	80	820	490	820	422	820	482
	90	820	490	820	422	820	482

KTH-R(K)

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

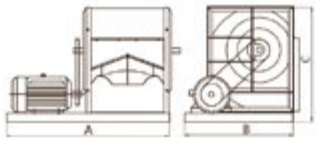
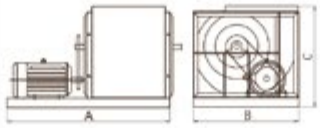
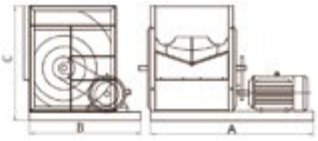
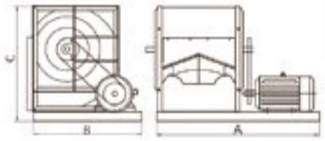
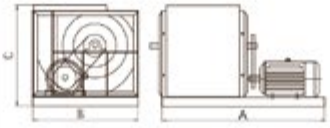
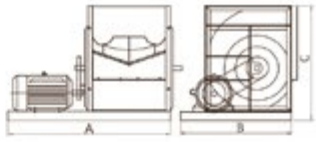
型号 Model	电机机座型号 Motor Frame Size	A	B		C	A	B		C	A	B		C
			R型	K型			R型	K型			R型	K型	
280	71	940	575	600	568	940	575	600	516	940	575	600	568
	80	940	575	600	568	940	575	600	516	940	575	600	568
	90	940	575	600	568	940	575	600	516	940	575	600	568
	100	940	575	600	568	940	575	600	516	940	575	600	568
	112	940	575	600	568	940	575	600	516	940	575	600	568
	132	940	575	600	568	940	575	600	516	940	575	600	568
	160	940	575	600	568	940	575	600	516	940	575	600	568
315	71	1040	640	665	628	1040	640	665	568	1040	640	665	628
	80	1040	640	665	628	1040	640	665	568	1040	640	665	628
	90	1040	640	665	628	1040	640	665	568	1040	640	665	628
	100	1040	640	665	628	1040	640	665	568	1040	640	665	628
	112	1040	640	665	628	1040	640	665	568	1040	640	665	628
	132	1040	640	665	628	1040	640	665	568	1040	640	665	628
	160	1040	640	665	628	1040	640	665	568	1040	640	665	628
355	80	1110	700	725	705	1110	700	725	628	1110	700	725	705
	90	1110	700	725	705	1110	700	725	628	1110	700	725	705
	100	1110	700	725	705	1110	700	725	628	1110	700	725	705
	112	1110	700	725	705	1110	700	725	628	1110	700	725	705
	132	1110	700	725	705	1110	700	725	628	1110	700	725	705
	160	1110	700	725	705	1110	700	725	628	1110	700	725	705
400	80	1250	760	790	786	1250	760	790	701	1250	760	790	786
	90	1250	760	790	786	1250	760	790	701	1250	760	790	786
	100	1250	760	790	786	1250	760	790	701	1250	760	790	786
	112	1250	760	790	786	1250	760	790	701	1250	760	790	786
	132	1250	760	790	786	1250	760	790	701	1250	760	790	786
	160	1250	760	790	786	1250	760	790	701	1250	760	790	786
	180	1250	760	790	786	1250	760	790	701	1250	760	790	786
450	90	1340	845	890	890	1340	845	890	789	1340	845	890	890
	100	1340	845	890	890	1340	845	890	789	1340	845	890	890
	112	1340	845	890	890	1340	845	890	789	1340	845	890	890
	132	1340	845	890	890	1340	845	890	789	1340	845	890	890
	160	1340	845	890	890	1340	845	890	789	1340	845	890	890
	180	1340	845	890	890	1340	845	890	789	1340	845	890	890
	200	1340	845	890	890	1340	845	890	789	1340	845	890	890
500	90	1420	915	960	981	1420	915	960	863	1420	915	960	981
	100	1420	915	960	981	1420	915	960	863	1420	915	960	981
	112	1420	915	960	981	1420	915	960	863	1420	915	960	981
	132	1420	915	960	981	1420	915	960	863	1420	915	960	981
	160	1420	915	960	981	1420	915	960	863	1420	915	960	981
	180	1420	915	960	981	1420	915	960	863	1420	915	960	981
	200	1420	915	960	981	1420	915	960	863	1420	915	960	981

KTH-R(K)

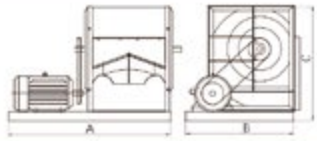
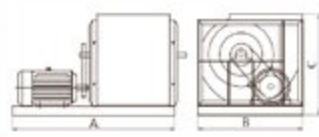
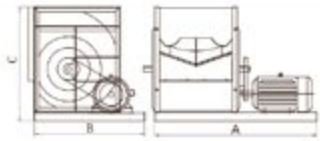
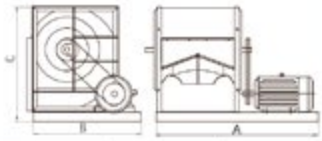
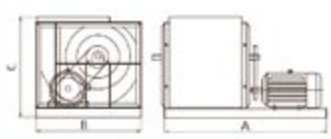
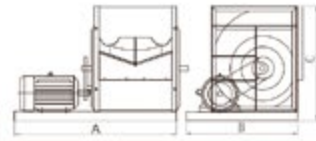
	0°	90°	180°
左旋 LG Left Hand			
右旋 RD Right Hand			

型号 Model	电机机座型号 Motor Frame Size	A	B		C	A	B		C	A	B		C
			R型	K型			R型	K型			R型	K型	
560	90	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
	100	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
	112	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
	132	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
	160	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
	180	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
	200	1580	1000	1070	1093	1580	1000	1070	956	1580	1000	1070	1093
630	100	1770	1090	1155	1220	1770	1090	1155	1062	1770	1090	1155	1220
	112	1770	1090	1155	1220	1770	1090	1155	1062	1770	1090	1155	1220
	132	1770	1090	1155	1220	1770	1090	1155	1062	1770	1090	1155	1220
	160	1770	1090	1155	1220	1770	1090	1155	1062	1770	1090	1155	1220
	180	1770	1090	1155	1220	1770	1090	1155	1062	1770	1090	1155	1220
	200	1770	1090	1155	1220	1770	1090	1155	1062	1770	1090	1155	1220
710	112	1950	1255	1290	1366	1950	1255	1290	1184	1950	1255	1290	1366
	132	1950	1255	1290	1366	1950	1255	1290	1184	1950	1255	1290	1366
	160	1950	1255	1290	1366	1950	1255	1290	1184	1950	1255	1290	1366
	180	1950	1255	1290	1366	1950	1255	1290	1184	1950	1255	1290	1366
	200	1950	1255	1290	1366	1950	1255	1290	1184	1950	1255	1290	1366
	225	1950	1255	1290	1366	1950	1255	1290	1184	1950	1255	1290	1366
800	132	2130	\	1450	1548	2130	\	1450	1330	2130	\	1450	1548
	160	2130	\	1450	1548	2130	\	1450	1330	2130	\	1450	1548
	180	2130	\	1450	1548	2130	\	1450	1330	2130	\	1450	1548
	200	2130	\	1450	1548	2130	\	1450	1330	2130	\	1450	1548
	225	2130	\	1450	1548	2130	\	1450	1330	2130	\	1450	1548
	250	2130	\	1450	1548	2130	\	1450	1330	2130	\	1450	1548
900	132	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
	160	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
	180	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
	200	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
	225	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
	250	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
	280	2450	\	1570	1748	2450	\	1570	1508	2450	\	1570	1748
1000	132	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910
	160	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910
	180	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910
	200	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910
	225	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910
	250	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910
	280	2650	\	1700	1910	2650	\	1700	1641	2650	\	1700	1910

KTH-R(K)

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
280	71	840	612	568	840	612	516	840	612	568
	80	840	612	568	840	612	516	840	612	568
	90	840	612	568	840	612	516	840	612	568
	100	840	612	568	840	612	516	840	612	568
	112	840	612	568	840	612	516	840	612	568
	132	840	612	568	840	612	516	840	612	568
	160	840	612	568	840	612	516	840	612	568
315	71	880	617	628	880	617	568	880	617	628
	80	880	617	628	880	617	568	880	617	628
	90	880	617	628	880	617	568	880	617	628
	100	880	617	628	880	617	568	880	617	628
	112	880	617	628	880	617	568	880	617	628
	132	880	617	628	880	617	568	880	617	628
	160	880	617	628	880	617	568	880	617	628
355	71	940	655	705	940	655	628	940	655	705
	80	940	655	705	940	655	628	940	655	705
	90	940	655	705	940	655	628	940	655	705
	100	940	655	705	940	655	628	940	655	705
	112	940	655	705	940	655	628	940	655	705
	132	940	655	705	940	655	628	940	655	705
	160	940	655	705	940	655	628	940	655	705
400	80	1130	736	786	1130	736	613	1130	736	786
	90	1130	736	786	1130	736	613	1130	736	786
	100	1130	736	786	1130	736	613	1130	736	786
	112	1130	736	786	1130	736	613	1130	736	786
	132	1130	736	786	1130	736	613	1130	736	786
	160	1130	736	786	1130	736	613	1130	736	786
	180	1130	736	786	1130	736	613	1130	736	786
450	90	1210	827	890	1210	827	789	1210	827	890
	100	1210	827	890	1210	827	789	1210	827	890
	112	1210	827	890	1210	827	789	1210	827	890
	132	1210	827	890	1210	827	789	1210	827	890
	160	1210	827	890	1210	827	789	1210	827	890

KTH-R(K)

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
560	90	1410	1030	1093	1410	1030	956	1410	1030	1093
	100	1410	1030	1093	1410	1030	956	1410	1030	1093
	112	1410	1030	1093	1410	1030	956	1410	1030	1093
	132	1410	1030	1093	1410	1030	956	1410	1030	1093
	160	1410	1030	1093	1410	1030	956	1410	1030	1093
	180	1410	1030	1093	1410	1030	956	1410	1030	1093
	200	1410	1030	1093	1410	1030	956	1410	1030	1093
630	90	1510	1157	1220	1510	1157	1062	1510	1157	1220
	100	1510	1157	1220	1510	1157	1062	1510	1157	1220
	112	1510	1157	1220	1510	1157	1062	1510	1157	1220
	132	1510	1157	1220	1510	1157	1062	1510	1157	1220
	160	1510	1157	1220	1510	1157	1062	1510	1157	1220
	180	1510	1157	1220	1510	1157	1062	1510	1157	1220
	200	1510	1157	1220	1510	1157	1062	1510	1157	1220
710	100	1730	1303	1366	1730	1303	1491	1730	1303	1366
	112	1730	1303	1366	1730	1303	1491	1730	1303	1366
	132	1730	1303	1366	1730	1303	1491	1730	1303	1366
	160	1730	1303	1366	1730	1303	1491	1730	1303	1366
	180	1730	1303	1366	1730	1303	1491	1730	1303	1366
	200	1730	1303	1366	1730	1303	1491	1730	1303	1366
	225	1730	1303	1366	1730	1303	1491	1730	1303	1366
800	100	1870	1468	1548	1870	1468	1330	1870	1468	1548
	112	1870	1468	1548	1870	1468	1330	1870	1468	1548
	132	1870	1468	1548	1870	1468	1330	1870	1468	1548
	160	1870	1468	1548	1870	1468	1330	1870	1468	1548
	180	1870	1468	1548	1870	1468	1330	1870	1468	1548
	200	1870	1468	1548	1870	1468	1330	1870	1468	1548
	225	1870	1468	1548	1870	1468	1330	1870	1468	1548
900	132	2170	1648	1748	2170	1648	1748	2170	1648	1748
	160	2170	1648	1748	2170	1648	1748	2170	1648	1748
	180	2170	1648	1748	2170	1648	1748	2170	1648	1748
	200	2170	1648	1748	2170	1648	1748	2170	1648	1748
	225	2170	1648	1748	2170	1648	1748	2170	1648	1748
	250	2170	1648	1748	2170	1648	1748	2170	1648	1748
	280	2170	1648	1748	2170	1648	1748	2170	1648	1748
1000	132	2300	1810	1910	2300	1810	1641	2300	1810	1910
	160	2300	1810	1910	2300	1810	1641	2300	1810	1910
	180	2300	1810	1910	2300	1810	1641	2300	1810	1910
	200	2300	1810	1910	2300	1810	1641	2300	1810	1910
	225	2300	1810	1910	2300	1810	1641	2300	1810	1910
	250	2300	1810	1910	2300	1810	1641	2300	1810	1910
	280	2300	1810	1910	2300	1810	1641	2300	1810	1910

KTY 系列离心式空调风机 Centrifugal Ventilators

概述 Summary

KTY系列离心式空调风机采用国际同类产品先进技术自行开发生产。该样本中列出的12种规格风机，流量范围从1000m³/h-40000 m³/h。KTY 系列风机采用前向多翼叶轮,具有通用性强、效率高、噪声低、耗能少等特点。是各类中央空调机组及其他暖通空调、净化、通风等设备理想的配套产品。

The KTY Series of centrifugal air conditioning fans was developed with advanced technologies.
The KTY Series includes 12 models as described in this catalogue.The volume flow of the KTY Series ranges from 1,000 m³/h to40,000 m³/h.Some of the features and characteristics of thesefans are: forward Wheel blades, a wide range of applications,high efficiency, low noise, and low power consumption.Thesefans are ideal for use in central air-conditioning systems, inpurifiers.They are also suitable for use in a variety of otherventilation applications.

命名方式 Nomenclature

KTY 7 - 7 L

- L — 结构型式 Construction Type
  - L,R型(基本型) Type L, R (Basic Model)
  - K型(加强型) Type K (Heavy Duty Model)
- 7 — 叶轮名义宽度(inch) Width diameter of Wheel (inch)
- 7 — 叶轮名义直径(inch) Nominal diameter of Wheel (inch)
- KTY — 前向多翼离心风机系列代号 Fan series with multi-vane forward curved blades

产品型式 Product Features

1. 旋向

KTY系列风机可分为左旋(LG)和右旋(RD)两种旋转方式,从风机皮带轮一段正视,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。

1. Rotation

KTY series fans have two direction of rotations, left-hand rotation (LG) and right-hand rotation (RD); Viewing from drive side, if the Wheel rotates clockwise, it is left hand (LG) rotation. If the Wheel rotates counter clockwise, it is right-hand (RD).

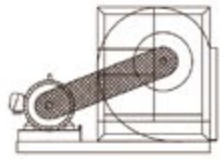
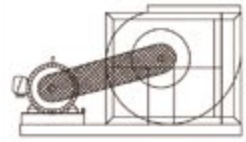
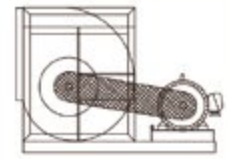
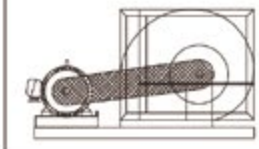
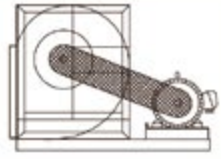
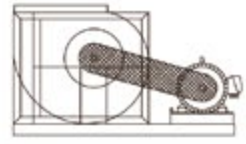
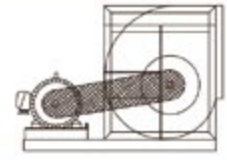
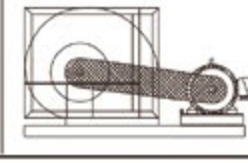
2. 出风口方向

KTY系列出风口可按图1所示制成0° 、90° 、180° 、270° 四种出风方向。

2. Discharge Direction

As shown in Fig1, KTY Series fans can be constructed in four discharge directions: 0° , 90° , 180° , and 270° .

图1(Fig 1)

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

产品结构 Construction of Product

KTY系列风机主要由机壳、叶轮、框架、轴承、及轴构成。出口法兰（为可选件）。

KTY series fans are mainly constructed of housing, Wheel, frame, bearing and shaft. Outlet flange (is optional).

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,蜗板采用点焊或"Pittsburg seam locking"的连接方式与侧板连成一体。

1. Housing

The housing is made of hot galvanized steel sheet. The side plates include inlets cones that are designed with the best aerodynamics for inlet condition. The scroll is fixed to the side plates by spot welding or "Pittsburg seam locking."

2. 叶轮

前向多翼叶轮采用优质热镀锌板钢板制成,叶片设计成符合空气动力学的特定形状，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。所有叶轮进行静平衡和动平衡测试,内控精度达到G2.5级(ANSI/AMCA 204-05)

2. Wheel

Forward curved Wheel is constructed of high-grade hot galvanized steel sheet with the advanced aerodynamics profile to achieve the highest efficiency and the lowest noise level. The Wheel is fixed on the center plate and on the end ring with riveting grip pres. The Wheel is constructed with maximum. strength that endures the continuous operation with maximum power. All Wheels are balanced to ANSI/AMCA Standard 204-05 . Zengjin's internal standard is G2.5 or higher for wheel balancing.

3. 框架

L、R型风机框架采用热镀锌钢板剪切、折弯制成,TOX连接保证了所需的尺寸精度和应有的刚度;K型风机框架由角钢和扁钢冷弯焊接制成,轴承安装位进行对称铣平面加工,表面喷塑处理,以保证足够的刚度和强度，同时保证安装轴和轴承的同心度。

3. Frame

The frames for type R and tyoe L constructions are made of galvanized steel angle iron bars. The cutting and bending of the frame parts, as well as the TOX connections, are formed with the use of toolings to ensure the high accuracy and the rigidity of the frames; The farmes for K constructions are welded by angle steel and flat steel, and finished with polyester coating in order to ensure sufficient rigidity and strength. The bearing supports are machined to ensure proper installation and alignments of the bearings.

4. 轴承

KTY系列风机均采用优质滚珠轴承,并根据噪声最低来选择,该轴承设有加润滑油的孔,已预先加润滑油并自动对中； L/R型风机的轴承安装在轴承支架上,并设有防振垫圈； K型风机则采用带座向心球轴承。轴承寿命为Lio>100000小时。

4. Bearings

Ball bearings are used in all of the KTY Series fans. They are high quality bearings and they are selected to minmize the noise levels. The bearings are pre-lubricated, sealed, and self-centering. For type R and L fans, the bearings are-mounted using vibration resistant washers. For type K fans bearing are supplied with lubrication fittings..Bearing service life for L10 2 100000rs

5. 轴

风机轴采用40Cr低合金钢,经车、调质热处理、磨削制成,强度高,挠度小，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。轴尺寸设计应满足第一临界转速至少为风机最大运行转速的1.4倍。

5.Shaft

The shafts are made of 40 Cr carbon steel bars. The shafts are rough machined and then stress relieved with heat treatment before final machining. The shaft diameters are machined to very accurate tolerance levels, and they are fully checked to ensure precision fit. Each shaft is made turned, ground and polished. They are coated after assembly to provide corrosion resistance. Shaft size should be designed to meet the first critical speed of at least fan maximum running speed 1.4 times.

6. 出风口法兰

法兰采用热镀锌钢板制成，法兰与蜗壳的连接采用 TOX免焊工艺，外观精美,并具有足够的刚度与强度。

6.Outlet Flange

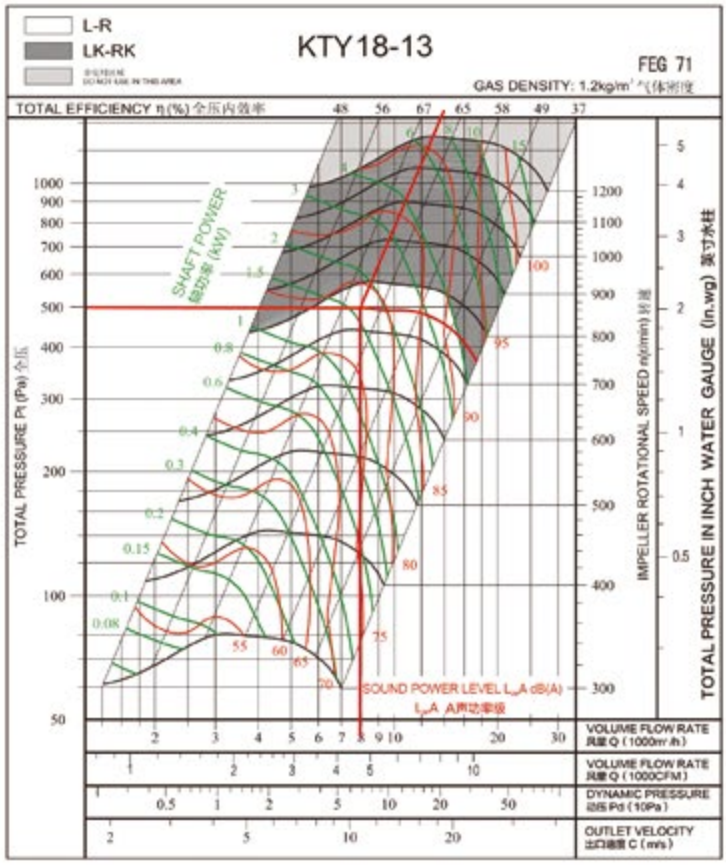
The outlet flange is made of galvanized steel. The connections of the flange components to the scroll are made using a TOX non-welding process. This maintains a good flange appearance while also providing sufficient strength and rigidity.

风机性能 Performance Chart

1、风机选型示意图例

型号 Type	KTY 18-13R
风量 Volume	q_v=8000m³/h
全压 Total Pressure	P_{tF}=500Pa
动压 Dynamic Pressure	P_{dF}=70Pa
出口速度 Outlet Velocity	C=10.81m/s
风机转速 Fan Speed	n=761r/min
轴功率 Shaft Power	P_{sh}=1.63KW
A声功率级 A Sound Power Level	L_{WA}=79dB(A)
全压效率 Total Efficiency	η_{tF}=68.3%

1. Fan Performance Curve

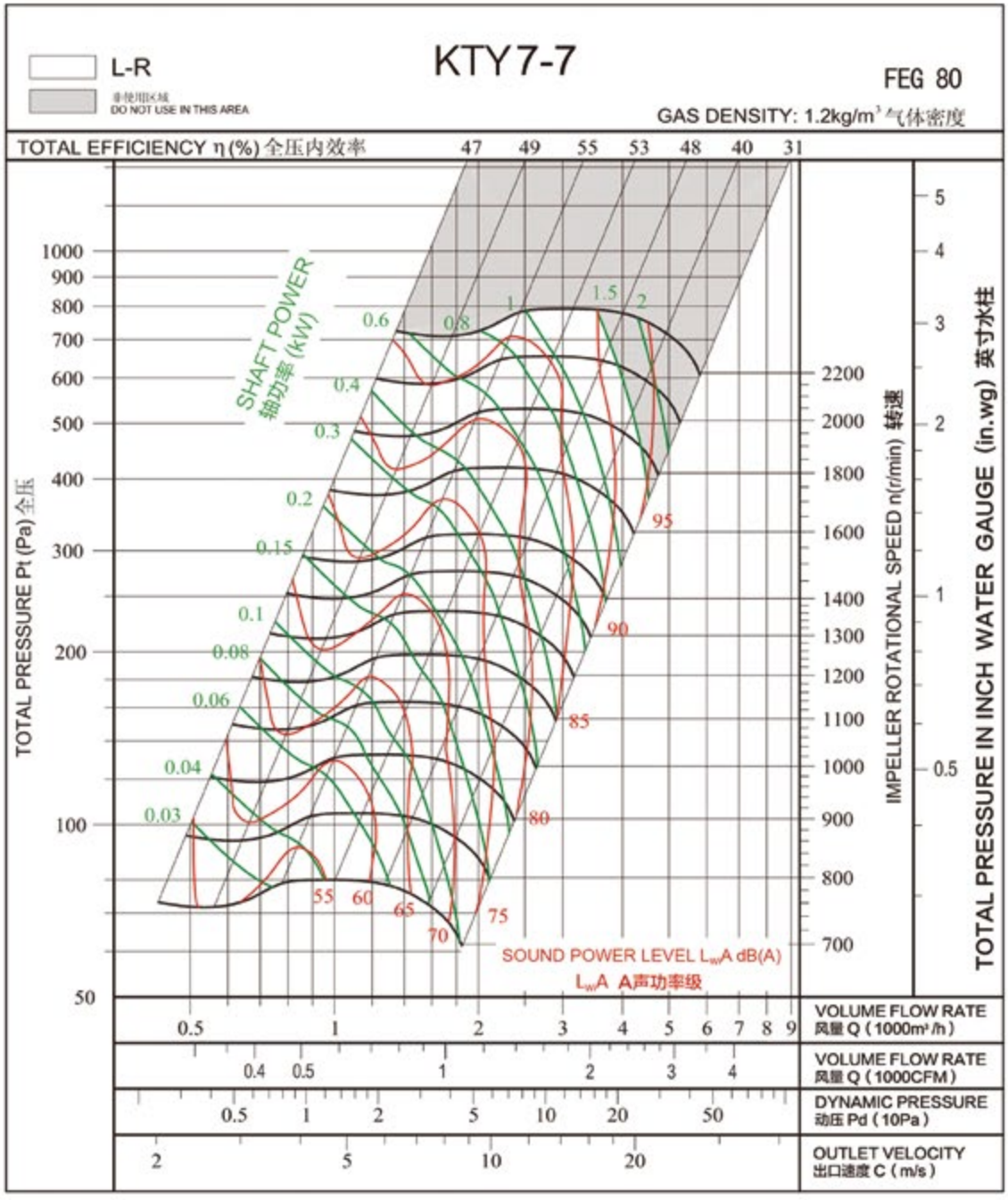


说明 Instructions

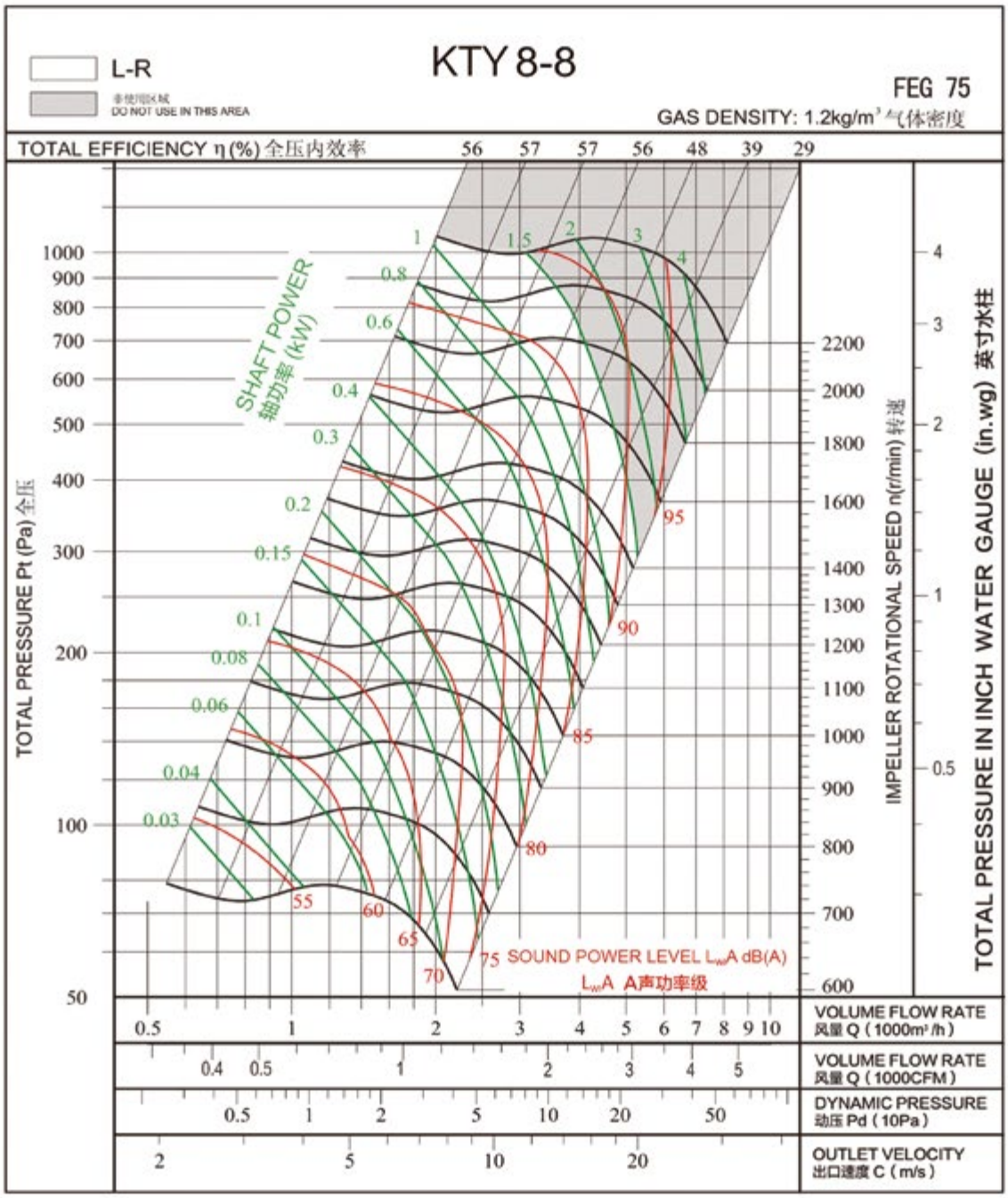
1).订货时须注明风机型号、转速、风量、风压、出风口方向和旋转方向。若需配套皮带、皮带轮、电机、安装底座等配件及其它特殊要求可在订货时提出。
2).在安装前应对风机各部件进行检查，对叶轮、主轴和轴承等主要机件应重点细致检查,如有损伤应修复后再安装使用。
3).检查机壳和其它壳体内部，不应有掉入、遗留的工具和杂物。
4).风机正式运转前，需检查电机的转向是否符合风机转向的要求。
5).风管与出风口之间应采用软连接,接头不得拉紧。
6).风机安装后用手或杠杆拨动叶轮,检查是否过紧或碰撞现象,确认无这些现象时方向可进行试转。
7).风机配用电机功率是指在特定工况下,风机内功率加上机械损失与电机容量安全系数而言,并非出风口全敞开时所需的功率。为防止电机超功率运行而烧毁,严禁风机出风口或进风口不接管路或未加外界任何阻力进行空运转。
8).风机在无较大腐蚀性气体、不含酸(碱)性和尘粒物质<150mg/m³的气体、-20℃<温度<85℃的气体环境下使用,风机在运输装卸过程中应小心轻放,防止碰撞挤压。

1) .When placing the order, it is necessary to state the type of fan, speed, air volume, air pressure, discharge direction, rotation direction, type of electric motor and its specifications.
2). Prior to installation, the fan should be carefully inspected. Special care should be taken in checking the shalf, Wheel and bearings. If there is an indication of any damage, the damaged parts should be repaired or repaired before the fan is installed or commissioned.
3). The inside of the scroll and casing need to be checked to make sure that there are no foreign objects inside the housing, such as tools or loose parts.
4) .The rotational directions of the motor and Wheel should be checked to ensure that they are in compliance with the specification and purchase orders.
5). A flexible connector should be used between the fan out let flange and its mating ductwork. The flex connector should not be over-stretched.
6). Following the installation, the Wheel should be turned by hand or with the use of a wrench to make sure that it turns freely without colliding with other parts of the fan. Once all this is done, the fan can be commissioned normally.
7). The rated motor power as calculated herein might not be sufficient to drive the fan with an unrestricted discharge flow. Operating the fan with an unrestricted discharge outlet will result in flow rate that exceeds the specified fan capabilities. Such operation will quickly burn the motor and damage the fan. Great care must be taken in operating the fan to make sure that the maximum rated flows, as provided on the performance charts in this catalog, are not exceeded.
8). The fan is limited for use in areas where air substances are non-corrosive, non-toxics and non-erosive and where dust particles are less than 150mg/m³with a temperature between -20℃and 85℃. Special care should be taken during transportation, load and unload.

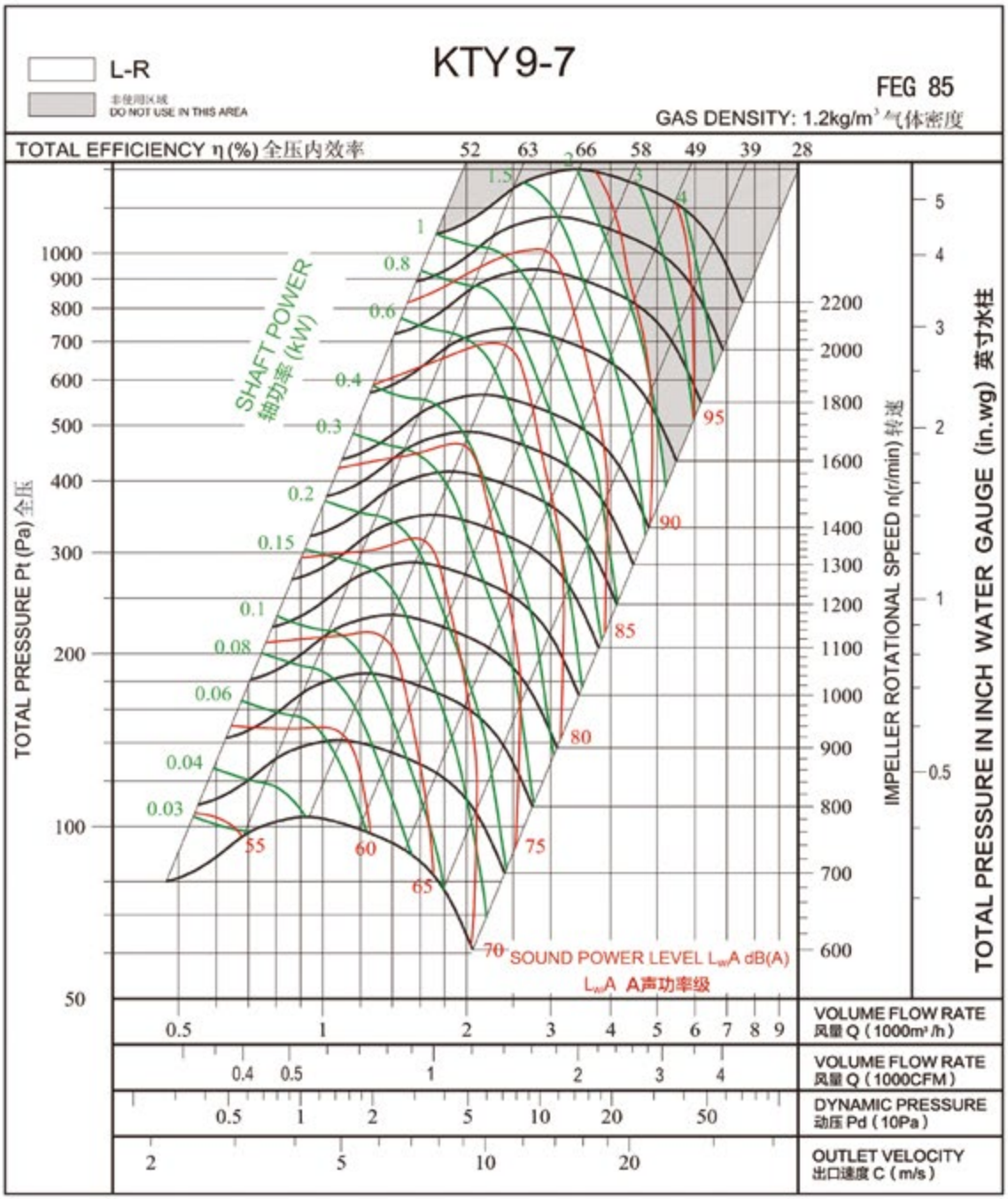
KTY 7-7 性能曲线图 Performance Curve



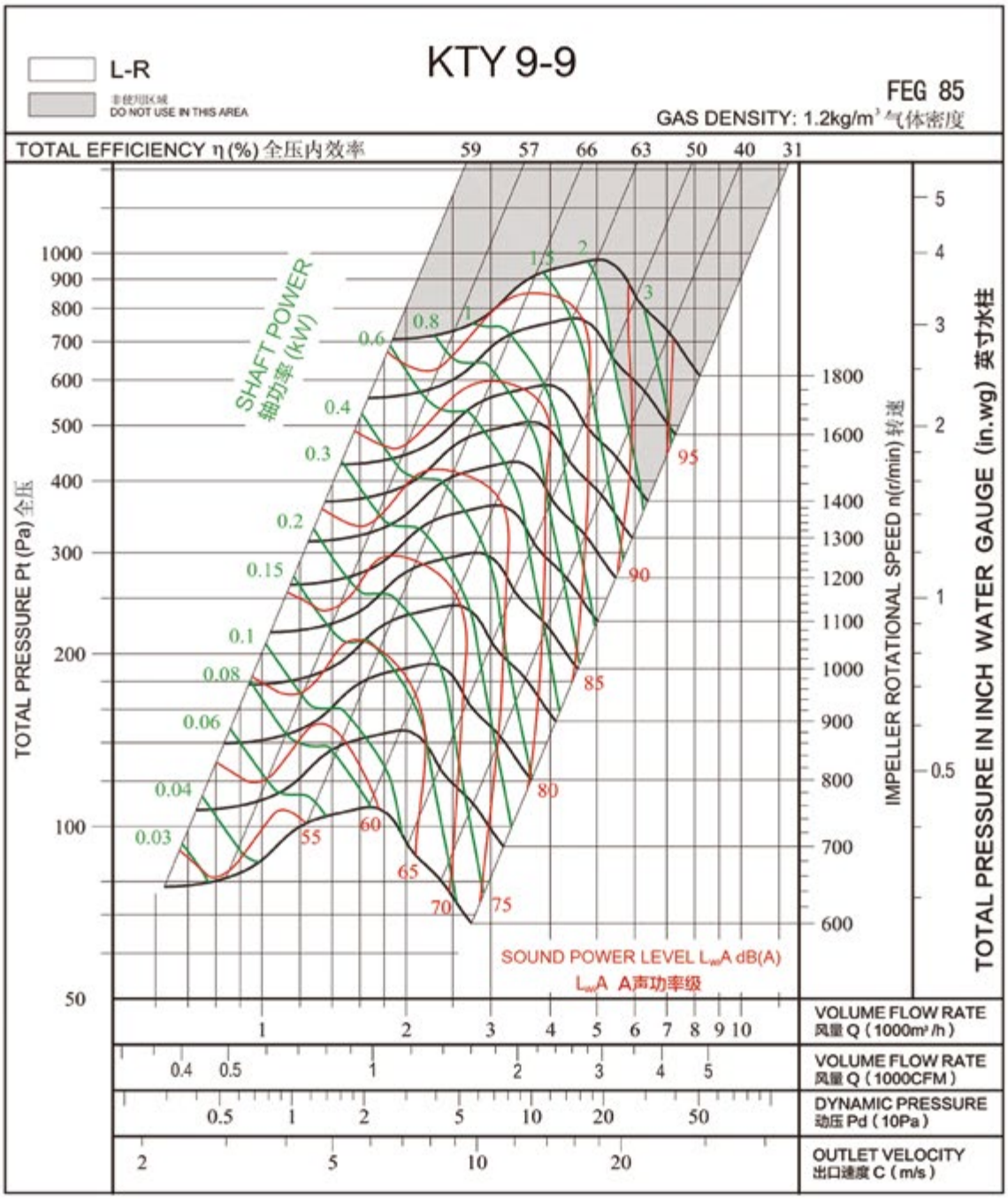
KTY 8-8 性能曲线图 Performance Curve



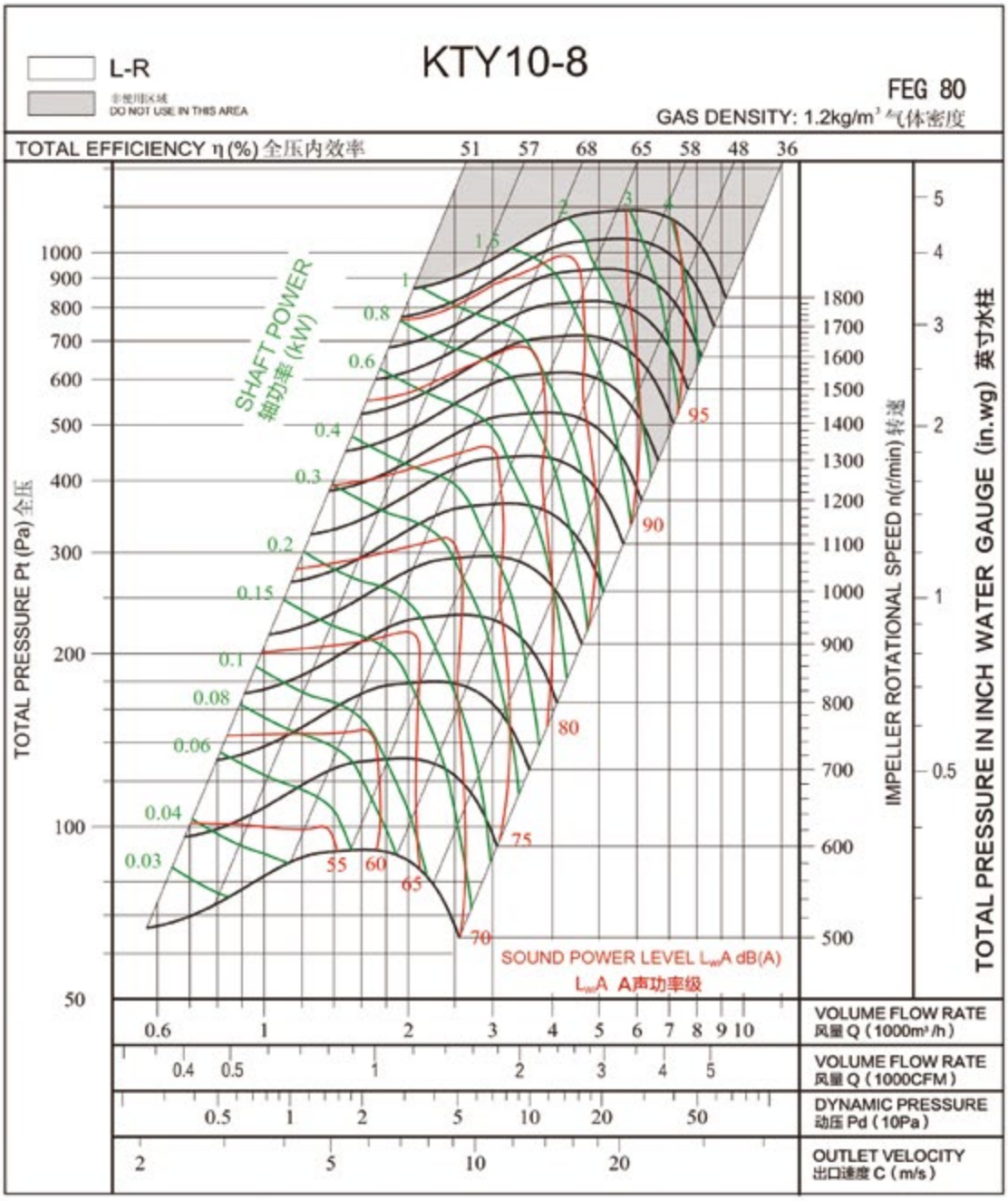
KTY 9-7 性能曲线图 Performance Curve



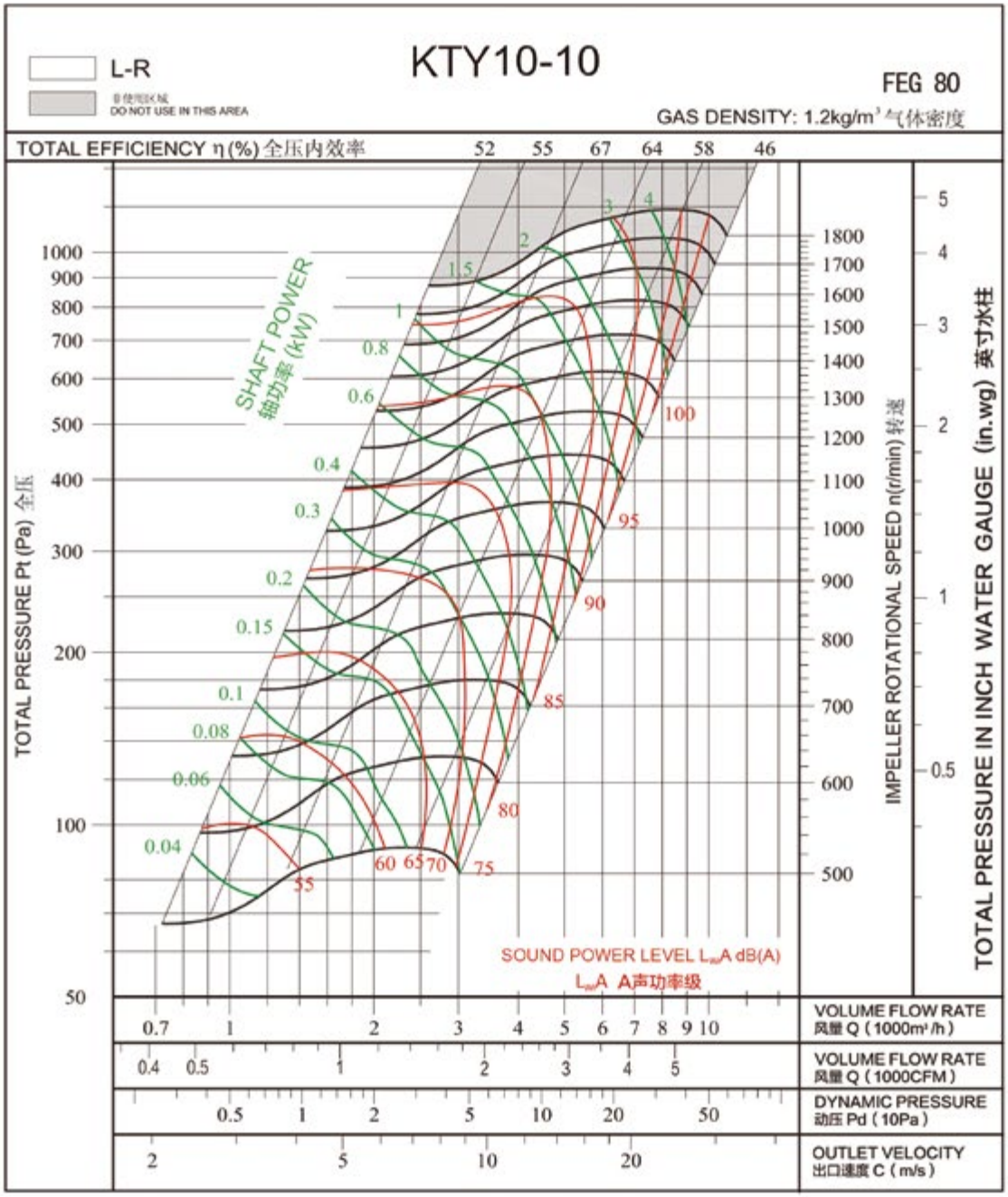
KTY 9-9 性能曲线图 Performance Curve



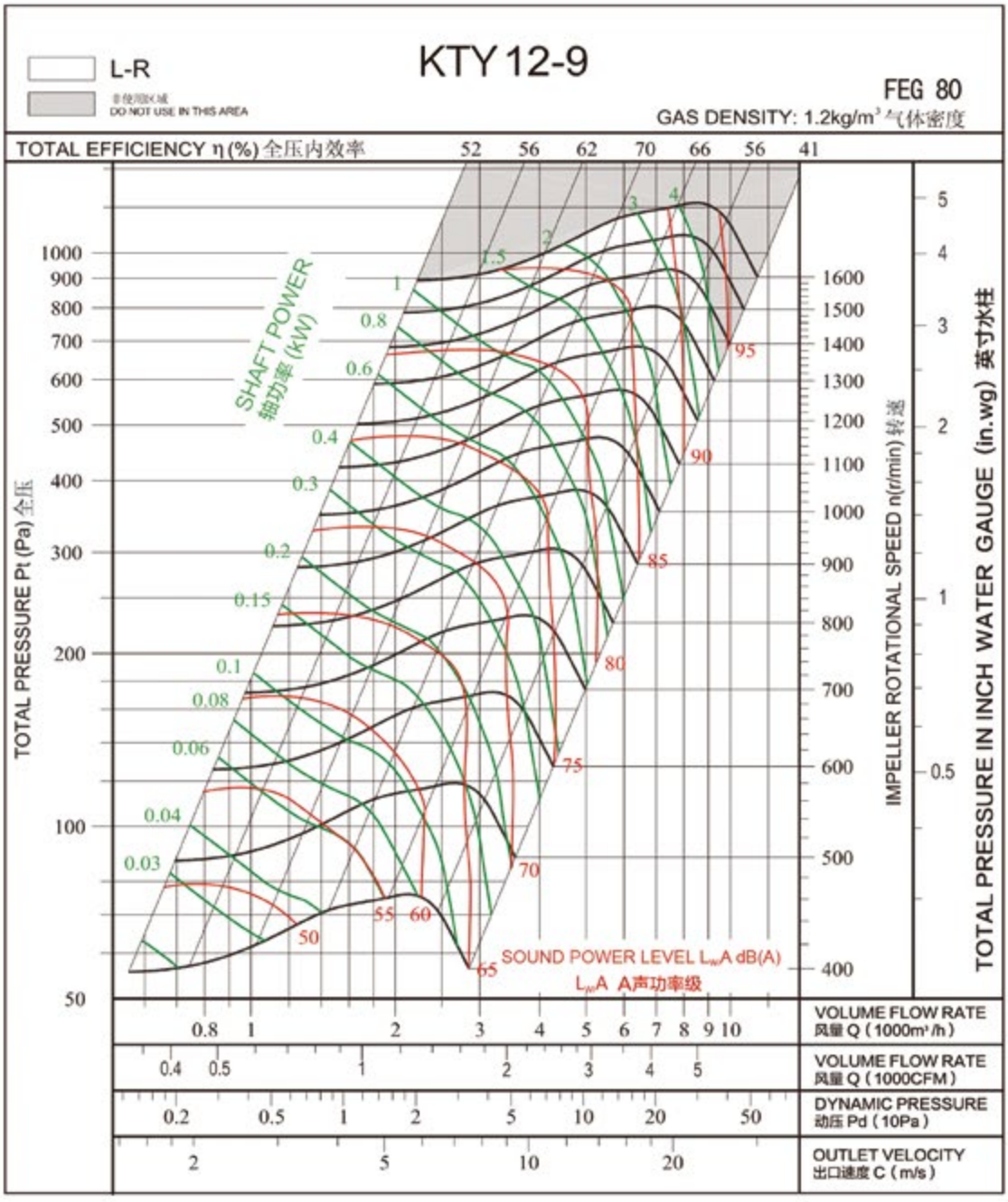
KTY 10-8 性能曲线图 Performance Curve



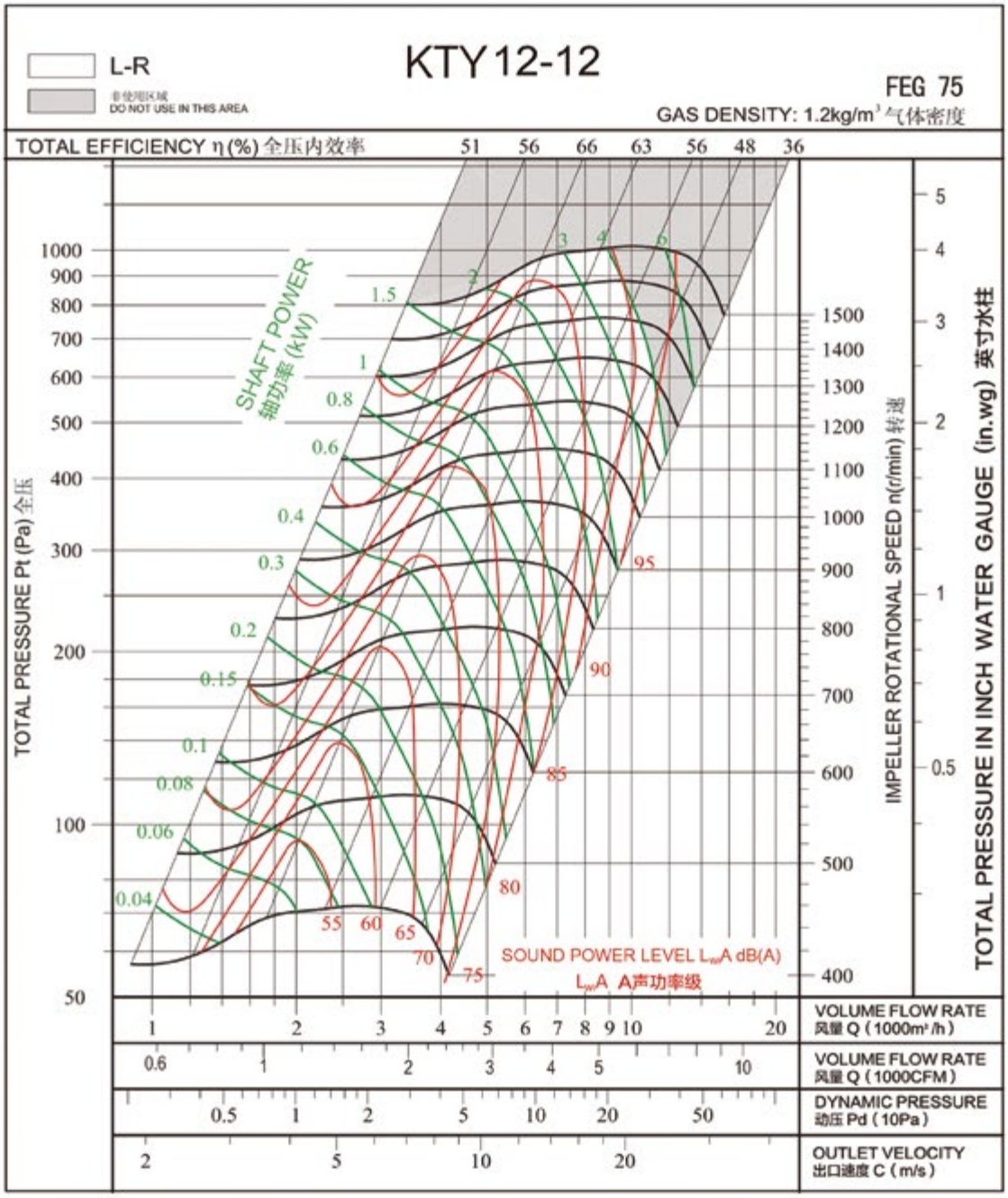
KTY 10-10 性能曲线图 Performance Curve



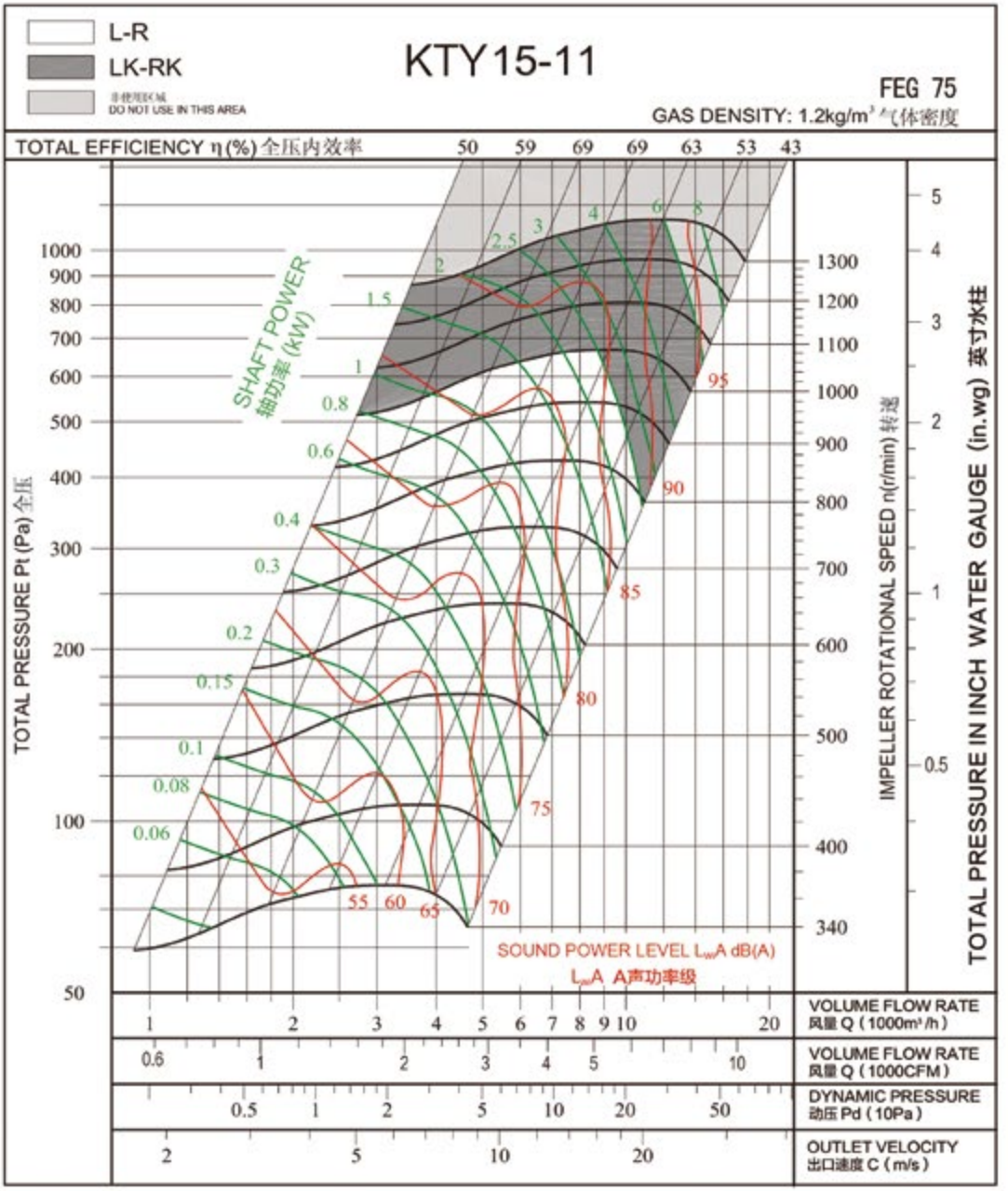
KTY 12-9 性能曲线图 Performance Curve



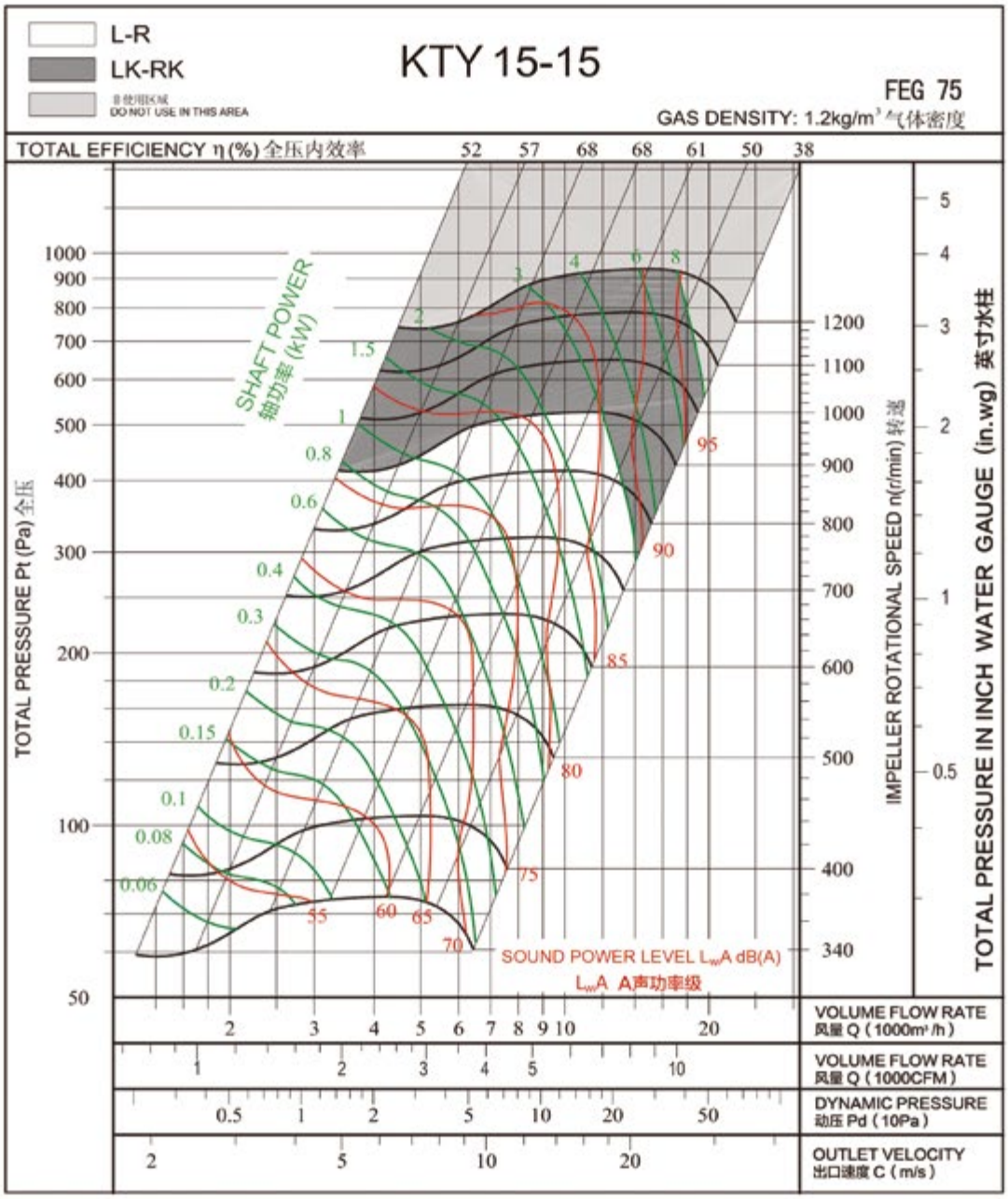
KTY 12-12 性能曲线图 Performance Curve



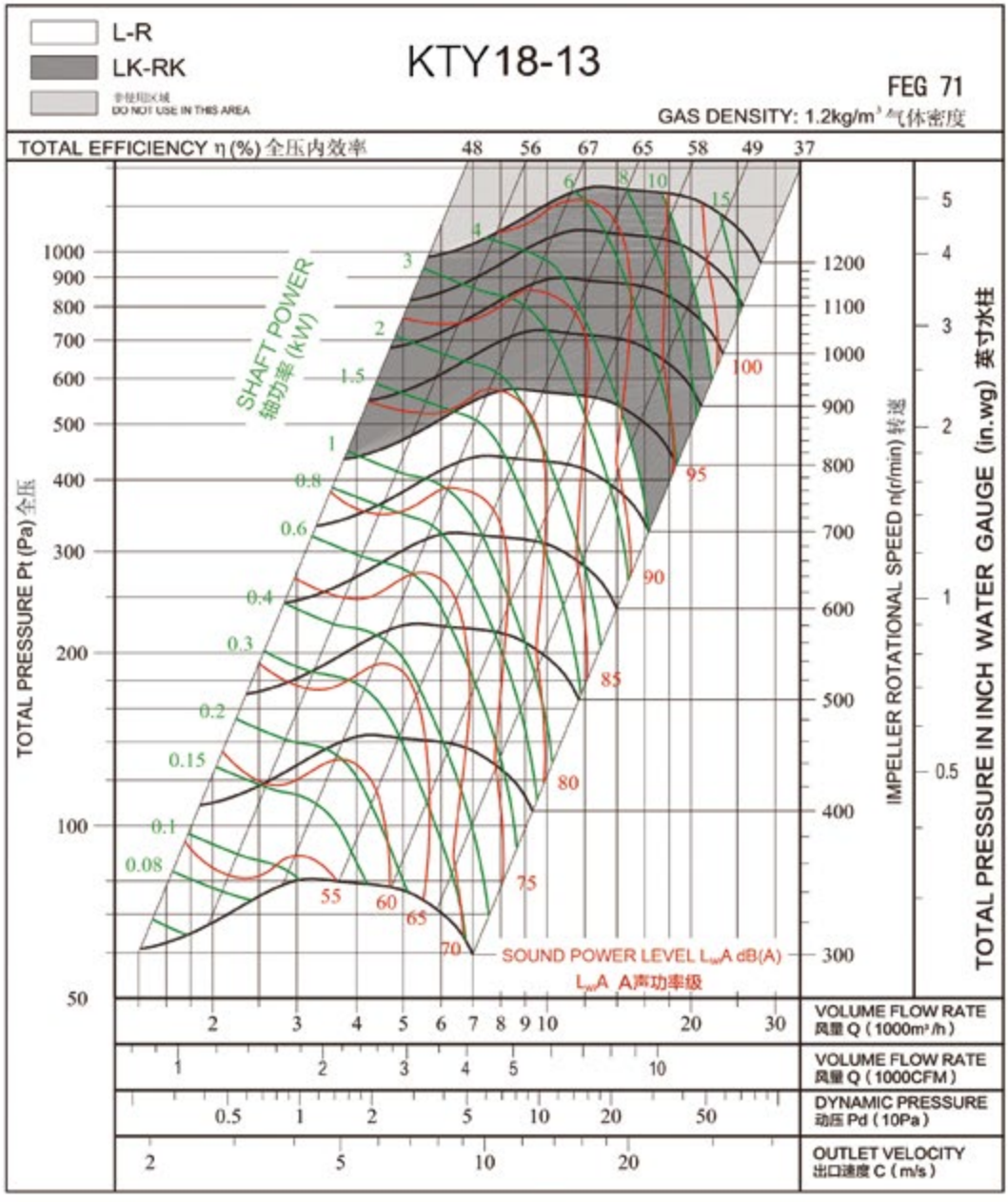
KTY 15-11 性能曲线图 Performance Curve



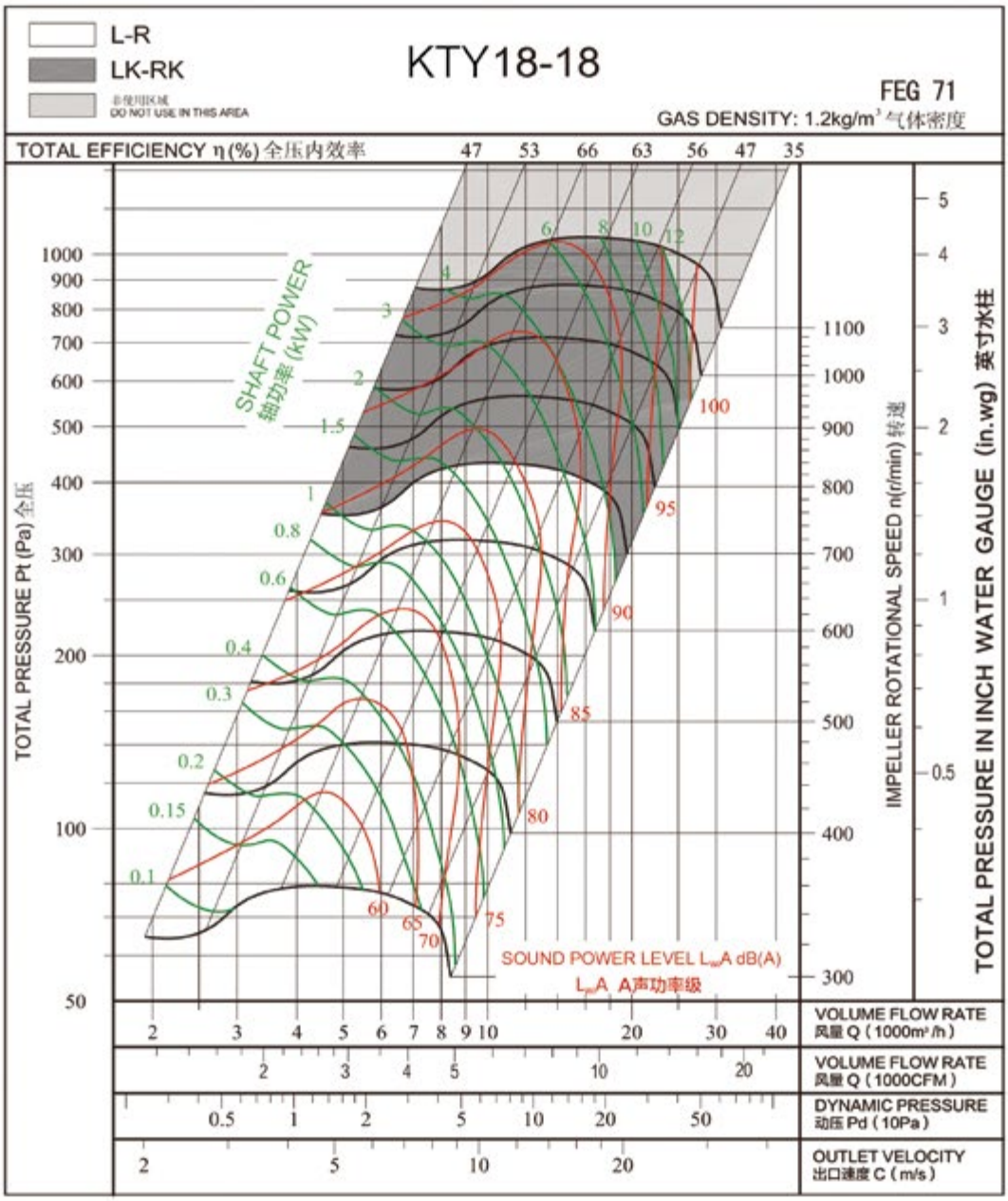
KTY 15-15 性能曲线图 Performance Curve



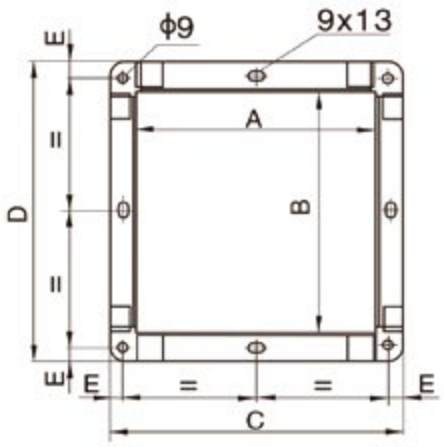
KTY 18-13 性能曲线图 Performance Curve

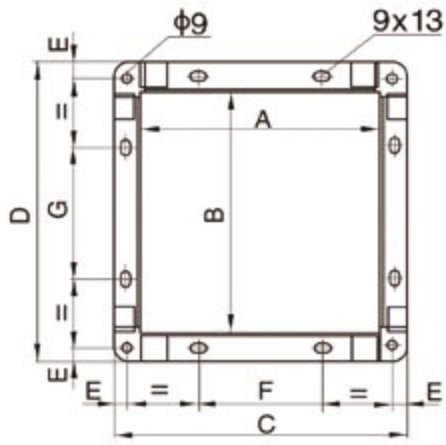


KTY 18-18 性能曲线图 Performance Curve



出口法兰 Outlet Flange

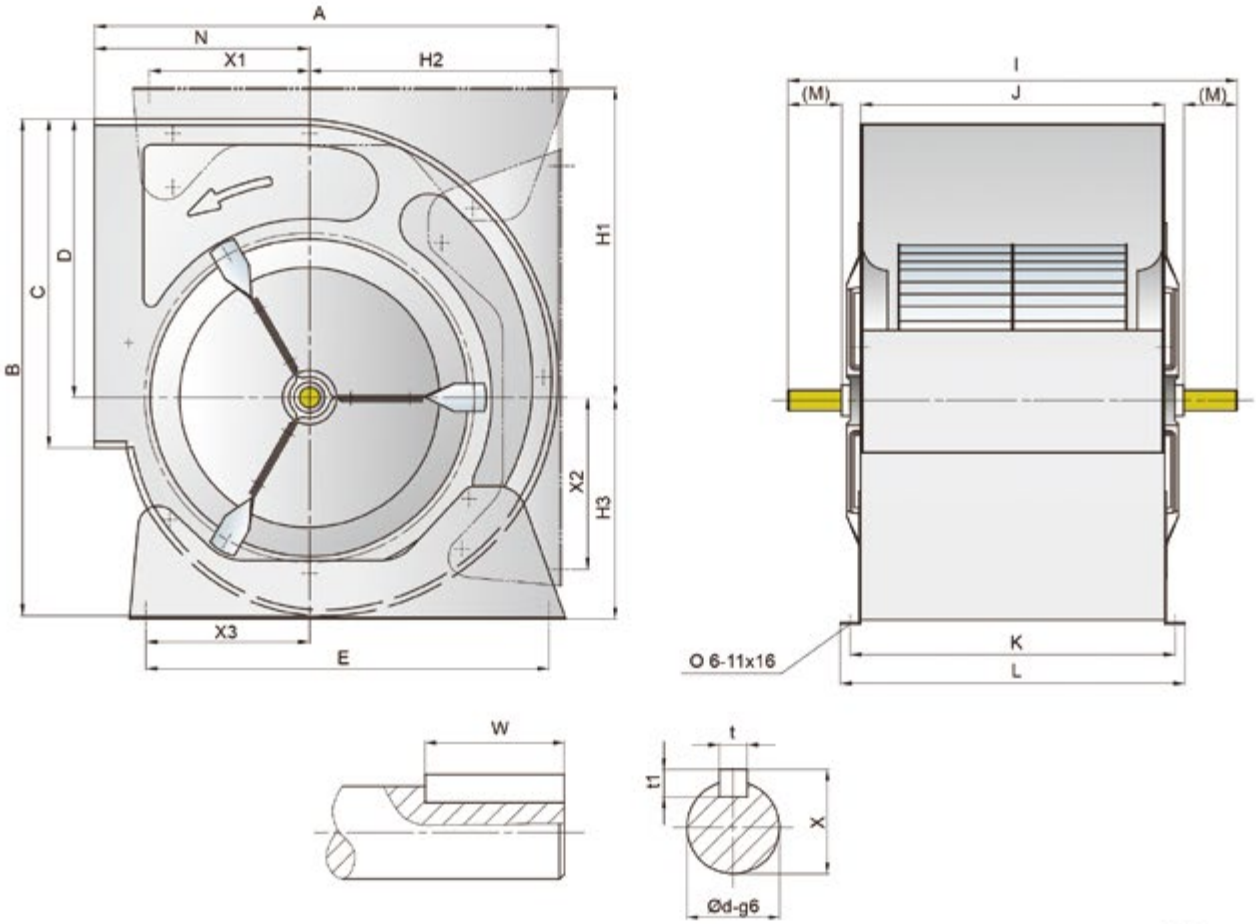




单位：mm

Dim \ Modle	7-7	8-8	9-7	9-9	10-8	10-10	12-9	12-12	15-11	15-15	18-13	18-18
A	259	287	232	298	265	331	309	395	373	471	430	557
B	228	256	262	262	289	289	341	341	404	404	478	478
C	299	327	272	338	321	387	365	451	429	527	486	613
D	268	296	302	302	345	345	397	397	460	460	534	534
E	10	10	10	10	13	13	13	13	13	13	13	13
F	\	\	\	\	\	\	125	150	145	180	160	200
G	\	\	\	\	\	\	140	140	160	160	180	180

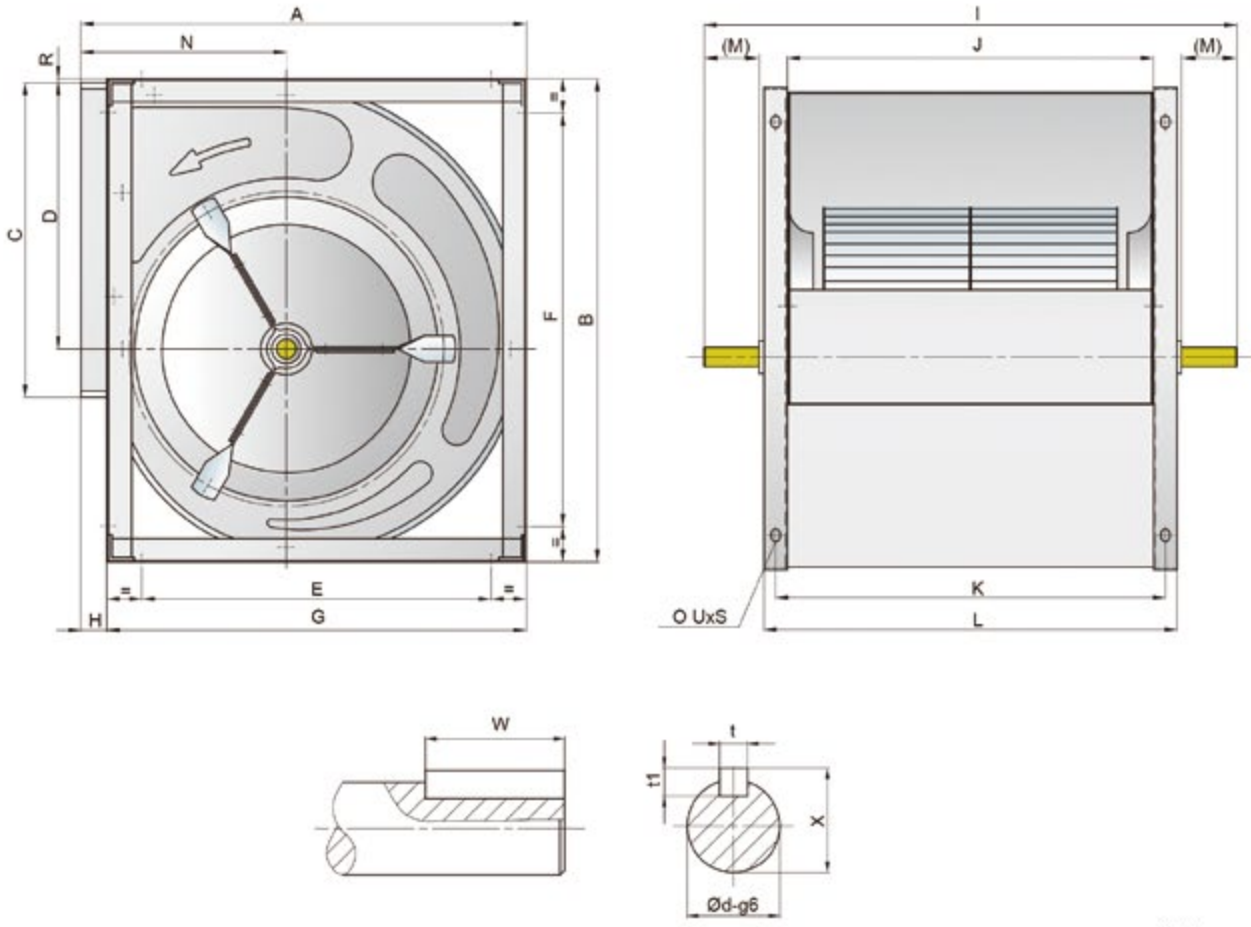
KTY-L(LK)



单位：mm

Dim / Modle	A	B	C	D	E	I	J	K	L	M	N	X	t	t1	W	ød	H1	H2	H3	X1	X2	X3
7-7L	312	328	228	192	180	370	259	279	299	32	152	22.5	6	6	30	20	224	164	164	90	90	90
8-8L	346	365	256	216	224	420	287	312	337	43	164	22.5	6	6	40	20	245	184	181	112	112	112
9-7L	380	387	262	215	300	370	232	258	282	43.5	185	22.5	6	6	30	20	253	199	177	119	124	123
9-9L	380	387	262	215	300	450	298	324	348	51	185	22.5	6	6	30	20	253	199	177	119	124	123
10-8L	425	444	289	249	340	410	265	291	315	48.5	203	28	8	7	40	25	287	227	198	136	132	135
10-10L	425	444	289	249	340	490	331	357	381	56	203	28	8	7	50	25	287	227	198	136	132	135
12-9L	491.5	521	341	294	408	465	309	335	359	54	230	28	8	7	40	25	332	266	232	161	153	161
12-12L	491.5	521	341	294	408	565	395	421	445	61	230	28	8	7	60	25	332	266	232	161	153	161
15-11L	569	609	404	342	495	550	373	399	423	66	264	28	8	7	50	25	380	309	272	197	211	201
15-11LK	569	609	404	342	495	570	373	399	423	72	264	33	8	7	40	30	380	309	272	197	211	201
15-15L	569	609	404	342	495	650	471	497	521	66	264	28	8	7	60	25	380	309	272	197	211	201
15-15LK	569	609	404	342	495	675	471	497	521	75	264	33	8	7	65	30	380	309	272	197	211	201
18-13L	684	739	478	415	608	610	430	456	480	66.5	314	28	8	7	65	25	457	376	340	262	283	278
18-13LK	684	739	478	415	608	610	430	456	480	61	314	38	10	8	55	35	457	376	340	262	283	278
18-18L	684	739	478	415	608	740	557	581	607	68	314	28	8	7	65	25	457	376	340	262	283	278
18-18LK	684	739	477	415	608	790	557	581	607	87	314	38	10	8	70	35	457	376	340	262	283	278

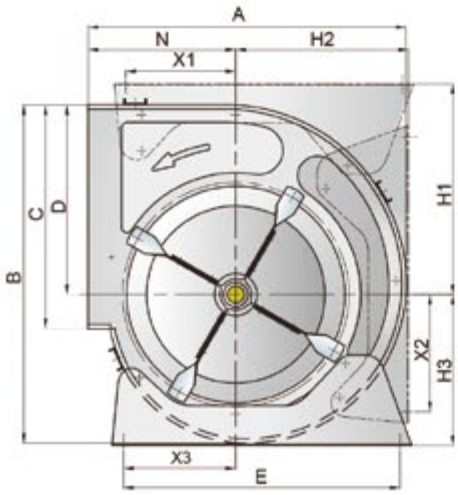
KTY-R(RK)

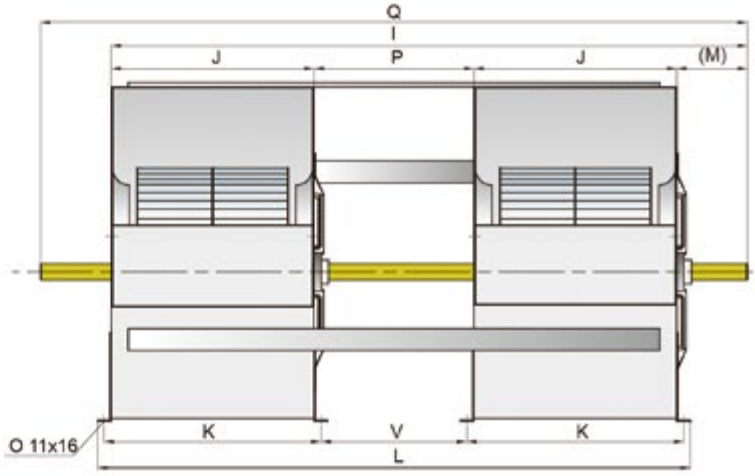


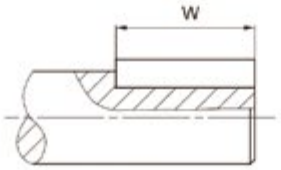
单位：mm

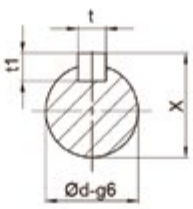
Modle \ Dim	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	t	t1	W	X	Ød	UxS
7-7R	323	336	228	192	180	180	294	29	420	259	281	299	57	152	6	6	6	40	23	20	9x12
8-8R	348	370	256	216	224	224	314	34	460	287	312	337	63	164	3	6	6	50	23	20	9x12
9-7R	385	399	262	215	274	324	349	36	390	232	254	272	55	185	6	6	6	40	23	20	9x12
9-9R	385	399	262	215	274	324	349	36	460	298	320	338	58	185	6	6	6	50	23	20	9x12
10-8R	431	455	289	249	330	390	395	36	425	265	287	305	57	203	6	8	7	40	28	25	11x16
10-10R	431	455	289	249	330	390	395	36	490	331	353	371	56	203	6	8	7	50	28	25	11x16
12-9R	494	527	341	294	371	443	458	36	490	309	339	369	67	230	3	8	7	50	28	25	11x16
12-12R	494	527	341	294	371	443	458	36	600	395	425	455	79	230	3	8	7	40	28	25	11x16
15-11R	575	619	402	343	449	531	539	36	585	373	403	433	83	267	4	8	7	50	28	25	11x16
15-11RK	575	619	402	343	449	531	539	36	625	373	403	433	99	267	4	8	7	40	33	30	11x16
15-15R	575	619	402	343	449	531	539	36	685	471	501	531	84	267	4	8	7	65	28	25	11x16
15-15RK	575	619	402	343	449	531	539	36	725	471	501	531	100	267	4	8	7	65	33	30	11x16
18-13R	690	751	478	415	544	641	654	36	665	430	470	510	94.5	314	6	8	7	65	28	25	11x16
18-13RK	690	751	478	415	544	641	654	36	665	430	470	510	89	314	6	10	8	55	38	35	11x16
18-18R	690	751	478	415	544	641	654	36	790	557	597	637	93	314	6	8	7	65	28	25	11x16
18-18RK	690	751	478	415	544	641	654	36	790	557	597	637	90	314	6	10	8	70	38	35	11x16

KTY-L2







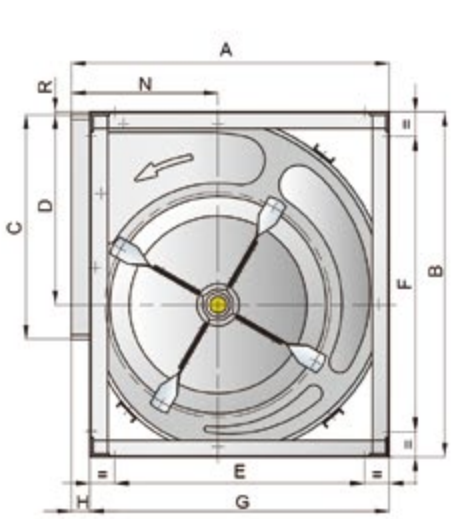


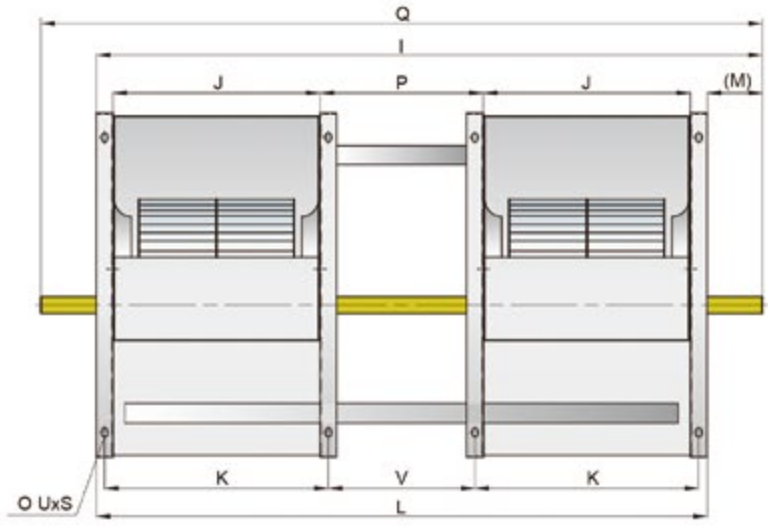
单位：mm

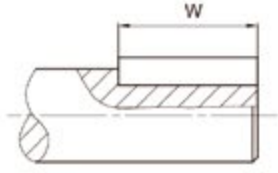
Dim / Model	A	B	C	D	E	I	J	K	L	M	N	P	Q	V	X	t	t1	W	Ød	H1	H2	H3	X1	X2	X3
7-7L2	312	328	228	192	180	\	259	279	742	80	152	184	860	164	23	6	6	50	20	224	164	164	90	90	90
8-8L2	346	365	256	216	224	\	287	312	838	95	164	214	980	189	23	6	6	50	20	245	184	181	112	112	112
9-7L2	380	387	262	215	300	\	232	258	698	90	185	184	830	158	23	6	6	60	20	253	199	177	119	124	123
9-9L2	380	387	262	215	300	\	298	324	890	90	185	244	1020	218	28	8	7	60	25	253	199	177	119	124	123
10-8L2	425	443	289	249	340	\	265	291	794	90	203	214	925	188	28	8	7	60	25	287	227	198	136	132	135
10-10L2	425	443	289	249	340	\	331	357	976	90	203	264	1105	238	28	8	7	60	25	287	227	198	136	132	135
12-9L2	491.5	521	341	294	408	\	309	335	912	110	230	244	1080	218	28	8	7	60	25	332	266	232	161	153	161
12-12L2	491.5	521	341	294	408	1224	395	421	1164	110	230	324	\	298	33	8	7	80	30	332	266	232	161	153	161
15-11L2	569	610	404	342	495	1170	373	399	1090	130	264	294	\	268	33	8	7	90	30	380	309	272	197	211	201
15-15L2	569	610	404	342	495	1456	471	497	1376	130	264	384	\	358	33	8	7	90	30	380	309	272	197	211	201
18-13L2	684	739	478	415	608	1343	430	454	1253	140	314	343	\	319	38	10	8	90	35	457	376	340	262	283	278
18-18L2	684	739	478	415	608	1702	557	581	1622	130	314	458	\	434	38	10	8	90	35	457	376	340	262	283	278

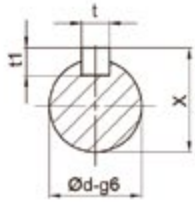
注：KTY7-7至KTY12-9系列风机为双出轴 / KTY12-12至KTY18-18系列风机为单出轴

KTY-R2





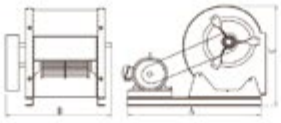
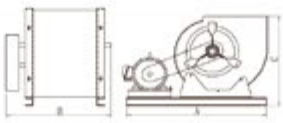
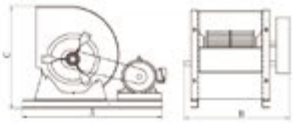
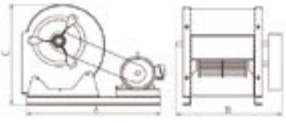
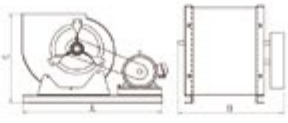
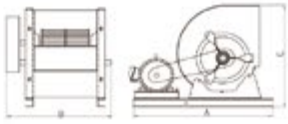




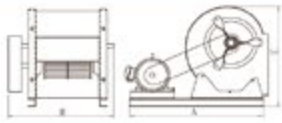
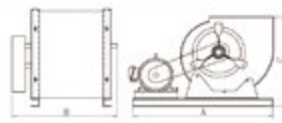
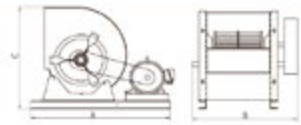
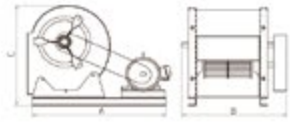
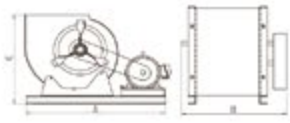
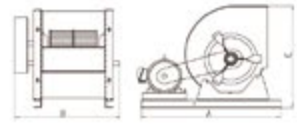
单位：mm

Dim / Mode	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	V	R	t	t1	W	X	Ød	UxS
7-7R2	323	336	228	192	180	180	294	29	\	259	281	742	70	152	184	880	162	6	6	6	60	23	20	9x12
8-8R2	348	370	256	216	224	224	314	34	\	287	312	838	70	164	214	980	189	3	6	6	50	23	20	9x12
9-7R2	385	399	262	215	274	324	349	36	\	232	254	688	70	185	184	830	162	6	6	6	60	23	20	9x12
9-9R2	385	397	262	215	274	324	349	36	\	298	320	880	70	185	244	1020	222	6	8	7	60	28	25	9x12
10-8R2	431	455	289	249	330	390	395	36	\	265	287	784	70	203	214	925	192	7	8	7	60	28	25	11x16
10-10R2	431	455	289	249	330	390	395	36	\	331	353	966	70	203	264	1105	242	7	8	7	60	28	25	11x16
12-9R2	494	527	341	294	371	443	458	36	\	309	339	918	82	230	244	1080	214	3	8	7	80	28	25	11x16
12-12R2	494	527	341	294	371	443	458	36	1274	395	425	1174	100	230	324	\	294	3	8	7	90	33	30	11x16
15-11R2	575	619	402	343	449	531	539	36	1200	373	403	1100	100	267	294	\	264	4	8	7	90	33	30	11x16
15-15R2	575	619	402	343	449	531	539	36	1486	471	501	1386	100	267	384	\	354	4	8	7	90	33	30	11x16
18-13R2	690	751	478	415	544	641	654	36	1383	430	470	1283	100	314	343	\	303	6	10	8	90	38	35	11x16
18-18R2	690	751	478	415	544	641	654	36	1752	557	597	1652	100	314	458	\	418	6	10	8	90	38	35	11x16

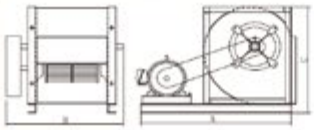
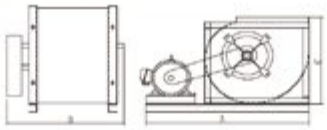
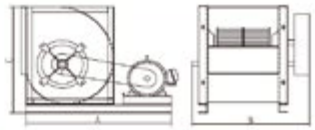
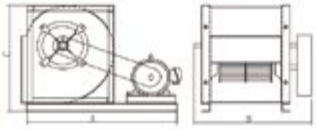
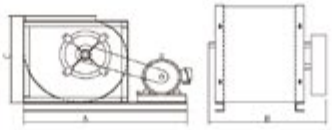
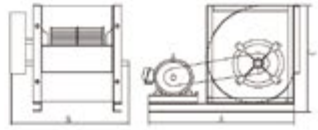
KTY-L(LK)

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
7-7	63	690	400	410	690	400	366	690	400	406
	71	690	400	410	690	400	366	690	400	406
	80	690	400	410	690	400	366	690	400	406
	90	690	400	410	690	400	366	690	400	406
8-8	63	710	450	443	710	450	378	710	450	447
	71	710	450	443	710	450	378	710	450	447
	80	710	450	443	710	450	378	710	450	447
	90	710	450	443	710	450	378	710	450	447
9-7	71	810	400	474	810	400	434	810	400	444
	80	810	400	474	810	400	434	810	400	444
	90	810	400	474	810	400	434	810	400	444
	100	810	400	474	810	400	434	810	400	444
	/	/	/	/	/	/	/	/	/	/
9-9	71	810	439	474	810	439	434	810	439	444
	80	810	439	474	810	439	434	810	439	444
	90	810	439	474	810	439	434	810	439	444
	100	810	439	474	810	439	434	810	439	444
	/	/	/	/	/	/	/	/	/	/
10-8	71	850	465	531	850	465	480	850	465	497
	80	850	465	531	850	465	480	850	465	497
	90	850	465	531	850	465	480	850	465	497
	100	850	465	531	850	465	480	850	465	497
	/	/	/	/	/	/	/	/	/	/
10-10	80	860	490	531	860	490	480	7	490	497
	90	860	490	531	860	490	480	8	490	497
	100	860	490	531	860	490	480	8	490	497
	112	860	490	531	860	490	480	9	490	497

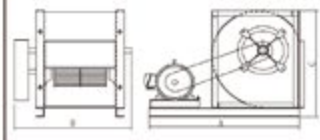
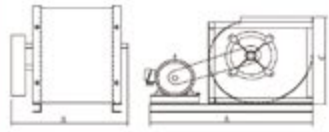
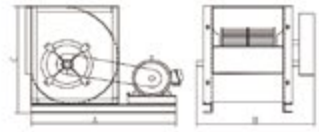
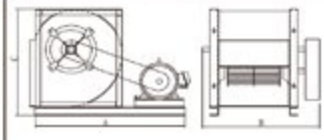
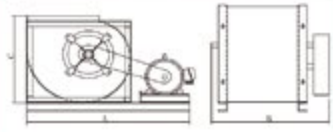
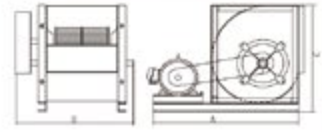
KTY-L(LK)

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
12-9	80	960	494	610	960	494	546	960	494	576
	90	960	494	610	960	494	546	960	494	576
	100	960	494	610	960	494	546	960	494	576
	112	960	494	610	960	494	546	960	494	576
	132	960	494	610	960	494	546	960	494	576
12-12	80	960	580	610	960	580	546	960	580	576
	90	960	580	610	960	580	546	960	580	576
	100	960	580	610	960	580	546	960	580	576
	112	960	580	610	960	580	546	960	580	576
	132	960	580	610	960	580	546	960	580	576
15-11	80	1070	582	687	1070	582	613	1070	582	664
	90	1070	582	687	1070	582	613	1070	582	664
	100	1070	582	687	1070	582	613	1070	582	664
	112	1070	582	687	1070	582	613	1070	582	664
	132	1070	582	687	1070	582	613	1070	582	664
15-15	80	1080	680	687	1080	680	613	1080	680	664
	90	1080	680	687	1080	680	613	1080	680	664
	100	1080	680	687	1080	680	613	1080	680	664
	112	1080	680	687	1080	680	613	1080	680	664
	132	1080	680	687	1080	680	613	1080	680	664
18-13	90	1240	640	821	1240	640	730	1240	640	805
	100	1240	640	821	1240	640	730	1240	640	805
	112	1240	640	821	1240	640	730	1240	640	805
	132	1240	640	821	1240	640	730	1240	640	805
	160	1240	640	821	1240	640	730	1240	640	805
18-18	90	1250	770	821	1250	770	730	1250	770	805
	100	1250	770	821	1250	770	730	1250	770	805
	112	1250	770	821	1250	770	730	1250	770	805
	132	1250	770	821	1250	770	730	1250	770	805
	160	1250	770	821	1250	770	730	1250	770	805

KTY-R(RK)

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
7-7	63	690	398	386	690	398	373	690	398	386
	71	690	398	386	690	398	373	690	398	386
	80	690	398	386	690	398	373	690	398	386
	90	690	398	386	690	398	373	690	398	386
8-8	63	710	484	420	710	484	393	710	484	420
	71	710	484	420	710	484	393	710	484	420
	80	710	484	420	710	484	393	710	484	420
	90	710	484	420	710	484	393	710	484	420
9-7	71	810	418	449	810	418	435	810	418	449
	80	810	418	449	810	418	435	810	418	449
	90	810	418	449	810	418	435	810	418	449
	100	810	418	449	810	418	435	810	418	449
	/	/	/	/	/	/	/	/	/	/
9-9	71	810	490	449	810	490	435	810	490	449
	80	810	490	449	810	490	435	810	490	449
	90	810	490	449	810	490	435	810	490	449
	100	810	490	449	810	490	435	810	490	449
	/	/	/	/	/	/	/	/	/	/
10-8	71	850	455	505	850	455	481	850	455	505
	80	850	455	505	850	455	481	850	455	505
	90	850	455	505	850	455	481	850	455	505
	100	850	455	505	850	455	481	850	455	505
	/	/	/	/	/	/	/	/	/	/
10-10	80	860	520	505	860	520	481	860	520	505
	90	860	520	505	860	520	481	860	520	505
	100	860	520	505	860	520	481	860	520	505
	112	860	520	505	860	520	481	860	520	505

KTY-R(RK)

		0°			90°			180°		
左旋 LG Left Hand										
右旋 RD Right Hand										
型号 Model	电机机座型号 Motor Frame Size	A	B	C	A	B	C	A	B	C
12-9	80	960	525	583	960	525	547	960	525	583
	90	960	525	583	960	525	547	960	525	583
	100	960	525	583	960	525	547	960	525	583
	112	960	525	583	960	525	547	960	525	583
	132	960	525	583	960	525	547	960	525	583
12-12	80	960	615	583	960	615	547	960	615	583
	90	960	615	583	960	615	547	960	615	583
	100	960	615	583	960	615	547	960	615	583
	112	960	615	583	960	615	547	960	615	583
	132	960	615	583	960	615	547	960	615	583
15-11	80	1070	615	661	1070	615	615	1070	615	661
	90	1070	615	661	1070	615	615	1070	615	661
	100	1070	615	661	1070	615	615	1070	615	661
	112	1070	615	661	1070	615	615	1070	615	661
	132	1070	615	661	1070	615	615	1070	615	661
15-15	80	1080	715	661	1080	715	615	1080	715	661
	90	1080	715	661	1080	715	615	1080	715	661
	100	1080	715	661	1080	715	615	1080	715	661
	112	1080	715	661	1080	715	615	1080	715	661
	132	1080	715	661	1080	715	615	1080	715	661
18-13	90	1240	696	791	1240	696	730	1240	696	791
	100	1240	696	791	1240	696	730	1240	696	791
	112	1240	696	791	1240	696	730	1240	696	791
	132	1240	696	791	1240	696	730	1240	696	791
	160	1240	696	791	1240	696	730	1240	696	791
18-18	90	1250	820	791	1250	820	730	1250	820	791
	100	1250	820	791	1250	820	730	1250	820	791
	112	1250	820	791	1250	820	730	1250	820	791
	132	1250	820	791	1250	820	730	1250	820	791
	160	1250	820	791	1250	820	730	1250	820	791

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