

OCEAN|BLUE

JZL系列制冷轴流通风机

JZL SERIES REFRIGERATION AXIAL FAN

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目录 CONTENTS

02	产品介绍	Product introduction
03	结构及传动形式	Structure and transmission form
04	性能参数	Performance parameter
05	性能曲线图	Performance graph
06	性能曲线图	Performance graph
07	安装尺寸表	Installation dimension table
	外形图	Outline drawing
08	订货须知	Ordering instructions



产品介绍 •

PRODUCT INTRODUCTION



JZL系列制冷轴流通风机

JZL SERIES AXIAL VENTIATOR

● 概述 | Overview

JZL系列制冷轴流通风机采用新工艺、新配置的轴流通风机，配备特制YT系列电机，前掠机翼型叶轮，特制的密封结构，提高风机的可靠运行时间。风机重量轻、外形美观、安全、运行平稳。此系列风机广泛应用于螺旋单冻机、隧道单冻机、平板速冻机、平板搁架、预冷机、冷库等。是高档制冷、食品加工的理想配套产品。

JZL series refrigeration axial-flow fan adopts new technology and new configuration axial-flow fan, equipped with special YT series motor, forward-swept wing impeller and special sealing structure, so as to improve the reliable running time of the fan. The fan is light in weight, beautiful in appearance, safe and stable in operation. This series fan is widely used in spiral single freezer, tunnel single freezer, flat freezer, flat shelf, precooler, cold storage, etc. It is an ideal supporting product for high-grade refrigeration and food processing.

● 风机结构及传动形式 | Structure and transmission form of fan

风 筒：由钢板卷制后自动翻法兰成型，材料可为不锈钢、碳钢。

叶 轮：压铸铝轮毂和叶片，铸铁轴套、导流罩组装而成。

支架导叶：由钢板压制成型，材料可为不锈钢、碳钢。

防 护 网：材料可为不锈钢、碳钢。

电 机：为特制电机(380V\50Hz)，防护等级IP55，F级绝缘，使用温度-40~+40℃。

传动形式：电机直联

Air duct: rolled by steel plate, then automatically turned over by flange. The material can be stainless steel or carbon steel.

Impeller: Die-cast aluminum wheel hub and blade, cast iron shaft sleeve and fairing are assembled.

Support guide vane: It is formed by pressing steel plate, and the material can be stainless steel or carbon steel.

Protective net: The protection grade is IP10, and the material can be stainless steel or carbon steel.

Motor: It is a special motor (380V/50Hz) with protection grade IP55, F machine insulation, and the service temperature is -40~+40℃.

Transmission form: motor direct connection

● 性能说明 | Performance description

1.性能表中性能均为低温-40℃，大气压力101325Pa，相对湿度50%的性能，海拔高度不超过1000米。噪声为出口斜45°一米处噪声。

2.风机风量、压力为曲线上使用段A1~A2对应的风量范围Q1~Q2，压力范围P1~P2。大风量对应低压点，小风量对应高压点。（如图A）

3.风机曲线为连续的风量压力对应点连接而成，实线段为使用范围，虚线部分为非使用范围（风机），选择风机时应避免使用工况在虚线上。

1. The performance in the performance table is low temperature -40℃, atmospheric pressure of 101325Pa, relative humidity of 50%, and altitude of less than 1,000 meters. The noise is the noise at the exit inclined by 45 one meter.

2. The air volume and pressure of the fan are the air volume range Q1 ~ Q2 and the pressure range P1~P2 corresponding to the use sections A1~A2 on the curve. Large air volume corresponds to low pressure point, and small air volume corresponds to high pressure point. (as shown in Figure A)

3. The fan curve is formed by connecting the corresponding points of continuous air volume and pressure. The solid line segment is the use range, and the dotted line segment is the non-use range (fan). When selecting the fan, you should avoid using the working condition on the dotted line.

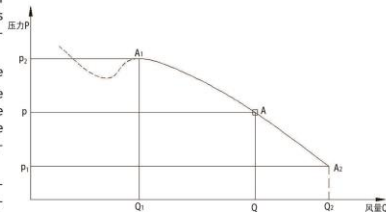


图 A

● JZL系列性能参数 | JZL series performance parameters

(101325Pa, -40℃, 50%)

机号 Size (№)	转速 Speed (rpm)	风量 Volume of blast (m³/h)	全压 Total pressure (Pa)	噪声LA Noise LA (dB(A))	配用电机 Motor	功率 Power (kW)	重量 Weight (kg)	性能曲线 Performance curve
4.0-1	1400	2460~4260	70~134	71	YT7124	0.37	25	(图 1)
4.0-2	2900	3180~5940	138~440	88	YT80M1	0.75	28	(图 2)
4.0-3	2900	4140~7200	202~525	90	YT80M2	1.1	29	
4.0-4	2900	4560~8280	268~562	93	YT90S-2	1.5	43	(图 1)
4.5-1	1400	3240~5580	79~150	72	YT7124	0.37	28	(图 3)
4.5-2	2900	4260~7980	164~524	91	YT80M2	1.1	30	
4.5-3	2900	5400~9360	226~588	94	YT90S-2	1.5	45	(图 4)
4.5-4	2900	6060~11040	314~657	95	YT90L-2	2.2	48	
4.5-5	2900	6720~11580	349~658	96	YT100L-2	3.0	55	(图 5)
5.0-1	1450	6060~9420	163~249	78	YT8024	0.75	33	
5.0-2	1450	8100~11100	224~268	78.5	YT90S-4	1.1	37	(图 6)
5.6-1	1450	8580~11220	162~226	78	YT8024	0.75	39	
5.6-2	1450	9480~12420	199~278	78.5	YT90S-4	1.1	43	(图 7)
6.3-1	1450	9540~11240	144~198	79	YT8024	0.75	50	
6.3-2	1450	11220~14400	198~275	81	YT90S-4	1.1	52	(图 8)
6.3-3	1450	11640~15420	232~322	82	YT90L-4	1.5	55	
6.3-4	1450	13080~17760	298~360	83.5	YT100L1-4	2.2	67	(图 9)
7.1-1	1450	11100~16440	198~336	84	YT90L-4	1.5	58	
7.1-2	1450	13200~19620	285~394	85	YT100L1-4	2.2	70	(图 10)
7.1-3	1450	15900~21480	343~415	86	YT100L2-4	3.0	74	
7.1-4	1450	17220~23280	403~487	89	YT112M-4	4.0	80	(图 11)
8.0-1	1450	11520~24180	170~403	87	YT100L1-4	2.2	85	
8.0-2	1450	15480~27300	217~421	88	YT100L2-4	3.0	89	(图 12)
8.0-3	1450	17460~31200	275~465	88.5	YT112M-4	4.0	94	
8.0-4	1450	19860~32280	301~513	94	YT132S-4	5.5	119	(图 13)
8.0-5	1450	25380~36600	385~559	95	YT132S-4	7.5	132	

● 性能曲线图 | Performance graph

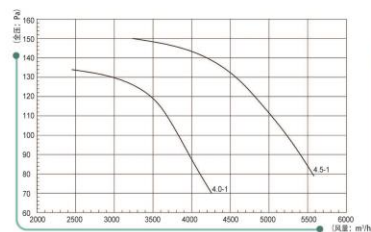


图1

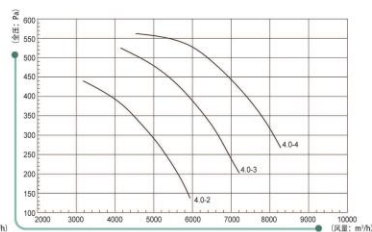


图2

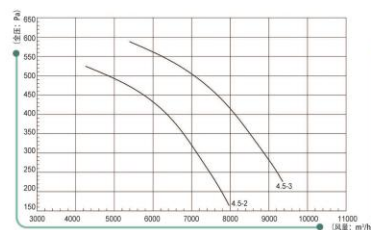


图3

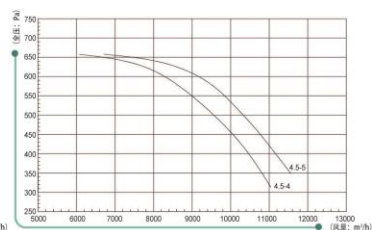


图4

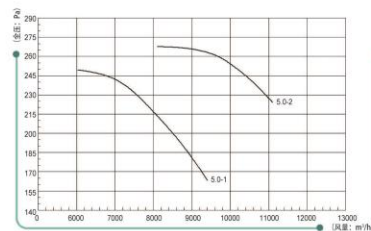


图5

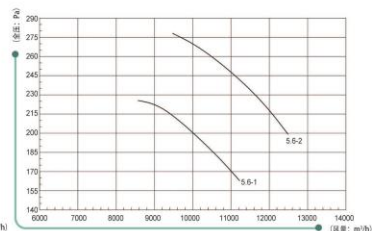


图6

● 性能曲线图 | Performance graph

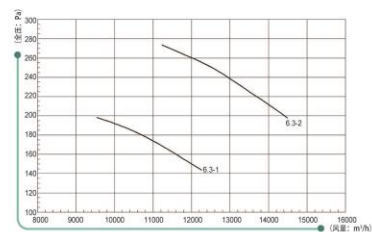


图7

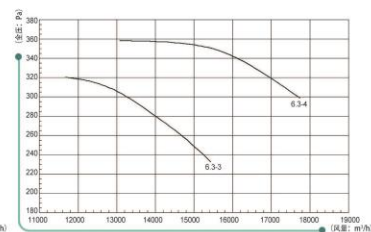


图8

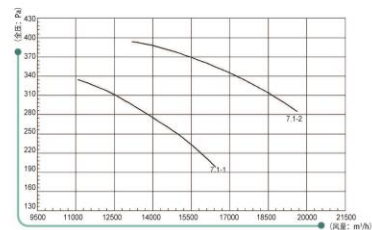


图9

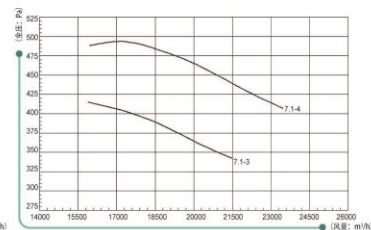


图10

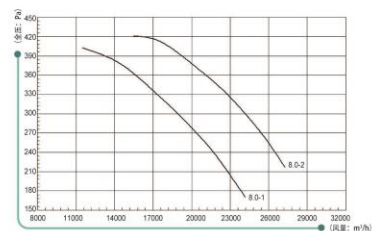


图11

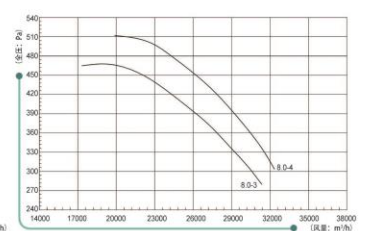


图12

● 性能曲线图 | Performance graph

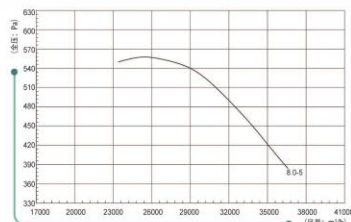


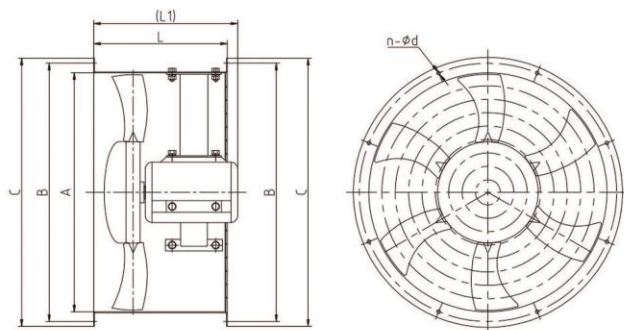
图 13

● JZL系列安装尺寸表及外形图

JZL series installation dimension table and outline drawing

机号 Device number	ΦA	ΦB	ΦC	L	L1	n-Φd
4.0	402	450	476	300	350	8-Φ10
4.5	452	488	527	350	400	6-Φ12
5.0	502	550	577	350	350	6-Φ12
5.6	562	596	637	350	365	8-Φ12
6.3	632	670	717	380	370	8-Φ12
7.1	713	770	805	400	440	8-Φ12
8.0	803	860	909	400	480	8-Φ12

● 表中L1尺寸为配用最大电机适用尺寸 The L1 size in Table is the applicable size for the maximum motor



● JZL系列尺寸图 JZL series dimension drawing

● 产品选型方法 | Product selection method

1. 可以通过提供机号功率直接选择。
 2. 通过需用风量、压力选择风机。需用风量=Q,此时曲线上对应的点为A点,对应的风机压力为P,对比风机压力P与需用压力,如风机压力 $P = \pm 5\%$ X需用压力范围内,对应的型号可满足使用要求。
1. It can be directly selected by providing the phone number power.
2. Select the fan according to the required air volume and pressure. The required air volume = Q, the corresponding point on the curve is point A, and the corresponding fan pressure is P. Compare the fan pressure P with the required pressure, for example, if the fan pressure $P = 5\% \times$ the required pressure range, the corresponding model can meet the use requirements.

● 产品订购说明 | Product ordering instructions

订购时请提供通过风机的介质温度-40~+40℃, 风筒、支架、护网材质, 护网安装位置 (叶轮端或电机端配网), 引线方式 (带接线盒或引线引出)、引出线长度要求, 叶轮吹风方向 (前吹: 风向电机吹向叶轮; 后吹: 风向叶轮吹向电机)

When ordering, please provide the temperature of the medium passing through the fan -40~+40℃, the materials of the air duct, bracket and protective net, the installation position of protective net (the distribution network at the impeller end or the motor end), the way of lead wires (with junction box or lead wires), the length requirement of lead wires, the blowing direction of the impeller (front blowing: the wind direction of the motor blows to the impeller; Back blowing: the wind direction impeller blows to the motor)

● 安装前的准备 | Preparation before installation

详细检查风机是否因包装、运输而有损坏、变形以及各连接部位有无松动, 若存在以上问题, 须修理妥善后方可进行安装。

风机的出线盒在风机的尾部, 用户应根据不同的电机选配电线, 但只允许使用橡胶套电缆。必要时, 电缆应加套管保护风机的内部部分。应妥善连接好接线盒内的内接地线和电机外套上的外接电线。

检查风机风筒与叶轮叶片的间隙是否均匀, 应保证间隙大于2.5mm。调节间隙可通过调整支撑螺栓或支撑板来实现。

风机检查完后应在非爆炸性环境中进行试运转, 检查是否有不正常的响动。若存在问题, 应找出原因进行修理。

Check in detail whether the fan is damaged or deformed due to packaging and transportation, and whether the connecting parts are loose. If the above problems exist, the fan can be installed only after it has been properly repaired.

The outlet box of the fan is at the tail of the fan. Users should choose cables according to different motors, but only rubber sheathed cables are allowed. When necessary, the cable should be jacketed to protect the internal part of the fan. The internal grounding wire in the junction box and the external grounding wire on the motor jacket should be properly connected.

Check whether the clearance between fan fan and impeller blades is uniform, and ensure that the clearance is greater than 2.5mm. The clearance can be adjusted by adjusting the support screw or the support plate.

After the inspection, the fan should be put into trial operation in a non-explosive environment to check for abnormal noise. If there is a problem, find out the reason and repair it.

● 安装要求与使用维护 | Installation requirements and maintenance

风机安装时其底座须与地表面自然结合, 必要时加垫, 不得敲打螺栓强制联接, 以防底座变形, 造成风筒变形。联接出口口的管道重量, 不应由风机承受, 安装时应加大支撑。

风机运转过程中要注意有无异常响声, 震动是否过大, 螺栓是否松动, 电缆是否有损伤, 必要时应及时调整、修理或更换。

风机运转过程中, 每季度应检查叶轮上灰尘是否聚积过多或叶轮有无严重损伤。若出现上述现象应清除灰尘或返厂进行修理。

若风机长期闲置后重新使用时, 必须先检查各连接部分是否可靠牢固, 并经试运转后, 方可正式使用。

When installing the fan, its base must be naturally combined with the foundation surface, and it should be padded when necessary. It is not allowed to knock bolts for forced connection, so as to prevent the deformation of the base and the deformation of the fan. The weight of the pipe connecting the air outlet should not be borne by the fan, and the support should be increased during installation.

Pay attention to whether there is abnormal noise, excessive vibration, loose bolts and cable damage during the operation of the fan. If necessary, adjust, repair or replace it in time.

During the operation of the fan, check whether the dust on the impeller accumulates too much or whether the impeller is seriously damaged every quarter. If the above phenomenon occurs, dust should be eliminated or returned to the factory for repair.

If the fan is reused after being idle for a long time, it must first check whether the connecting parts are reliable and firm, and it can only be officially used after trial operation.