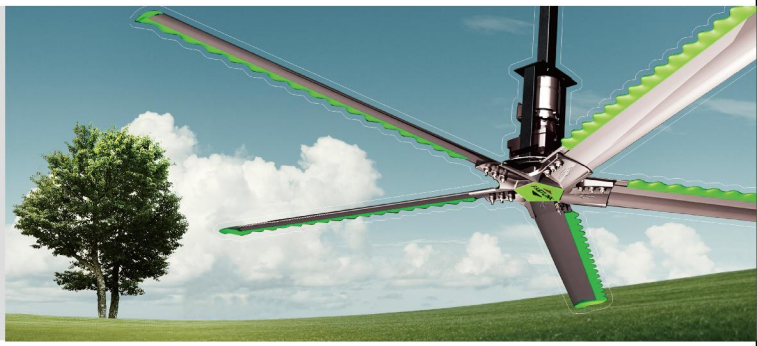
INDUSTRIAL FANS



工业大风扇

专业设计 • 绿色节能 • 超大风量

Patented Design • Energy Efficiency • Large Capacity

FASTLINK
快联门业

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FASTLINK
快联门业

CONTENT
目录

COMPANY PROFILE
公司简介

上海快联门业是一家集生产和服务工业门及装卸设备的供应商。自2004年成立以来，快联门业不断的在物流设备领域求突破和创新，至始至终都以最严谨的品质为广大客户提供服务。

快联门业主要提供滑升门、快速门、对撞门、大型门、装卸平台、门封门罩、锁车和工业风扇等，并不遗余力的开发满足客户需求的新产品。快联采用全方位的品质管理，企业通过ISO9001:2008，ISO14001:2001等质量体系，主要产品通过欧洲CE认证。专业的售后服务是快联产品核心竞争力的重要组成部分，覆盖广泛且完善的售后网络和充足的零配件库存确保客户得到快速的响应和支持。

今天，快联门业已经站在物流设备供应商的前端位置。 我们公司的整个团队都已具备了专业的知识和高效的执行能力为客户提供优质服务。 在快联， 我们深信满足客户的需求是我们最终的宗旨。

10 YEARS **原厂配件10年供应保证**
全部重要零件快联均保有一定库存，确保给客户提供长期服务。

Founded in 2004, FASTLINK has grown rapidly. We strive to operate at higher levels of productivity and are dedicate to bringing innovations and breakthroughs to generate continuing quality and productivity improvements. We are committed to delivering consistently high quality products and service to both domestic and international customers in the world's fast-growing market.

FASTLINK provides Sectional door, High speed door, Impact door, Megadoor, Dock levelers, Dock seals and shelters, Vehicle Restrains, HVLS fans and etc. We also work with our customers to develop new products and provide reliable solutions to the challenges induced by the growth of our customers. FASTLINK adopts high standards of quality management and is certified by ISO9001:2008, ISO 14001:2001 etc. The main products are certified by CE meeting the Europe standard. We value our customer's needs and differentiate ourselves by the professional and outstanding customer service. Our extensive after-sale service network and sufficient stock of spare parts ensure the most efficient and quality service to the customers.

Today, FASTLINK has become an industry leader in providing logistics equipments and supplies to businesses throughout China and South Asia. We have a highly-trained and motivated workforce with full accountability and responsibility. Our goal is to provide exceptional products and service that satisfies our customers' needs and expectations.

ISO9001:2000
符合英格尔认证

BENEFITS OF FASTLINK HVLS FANS
选择快联的原因

1. 安静，高效运行，没有恼人的高速循环或排气风扇噪音；
2. 免维护（建议每20000小时检查一次）；
3. 运行费用低廉，一台1.5千瓦的风扇每小时花费约1.5元，功耗甚至小于一个吹风机；
4. 大大降低了大门启闭后温度变化的恢复时间；
5. 提供一个从地板到天花板以及墙到墙的恒定的均匀温度；
6. 将最大限度的减少在新建筑中的采暖和空气调节系统所需要的昂贵的管道工程；
7. 一个舒适的工作环境可以提高生产力。

1. Quiet, efficient operation, no annoying high speed circulating or exhaust fans.
2. Virtually maintenance free (recommended inspection every 20000 hours).
3. Inexpensive to operate .Costs approximately 1.5 Yuan per hour for one fan at 1.5kw, less power consumes than the average hairdryer
4. Greatly reduces the "recovery" time when overhead doors are with a constant air flow throughout the space
5. Provides a constant ,even temperayure from floor to ceiling and wall to wall
6. Will minimize the need for expensive duct work in new construction for both heating and air conditioning systrms.
7. A comfortable workplace environment increase productivity and decreases absenteeism.

AERODYNAMIC DESIGN

符合空气动力学的设计

采用鲸力技术的工业大风扇是一项绿色电源突破，使我们的高容量低转速（HVLS）风扇突破到以往无法实现的性能水平。

FASTLINK fans with WhalePower Technology is a green power breakthrough which allows our High Volume Low Speed (HVLS) fans to deliver previously impossible levels of performance.

THE TUBERCLE ADVANTAGE

快联风扇的设计特点

1. 5片新型叶片，和传统叶片相比提高了25%空气动力学效率（它们能带动更多的空气，运转更平顺）；
2. 和传统风扇相比，风扇叶片的空气动力噪音（风扇噪音的主要来源）减少了1/5；
3. 最突出的优点是减少了20%的能源消耗。

1. 5 blades are 25% more aerodynamically efficient (they move more air and move it more smoothly).
2. Aerodynamic blade noise (the predominant source of fan noise) is less than 1/5 of the conventional fans.
3. Best of all, they consume 20% less power.

WORKING PRINCIPLE
工作原理

供热

这种情况称为温度分层，它的存在导致从地板到天花板的热梯度差5℃到10℃（在垂直方向上每900mm约1℃）。这意味在没有人员的高度浪费了大量的热量，这些热量通过屋顶传递到外界。通过风扇加强空气的对流，将大大改善这种情况。

快联工业大风扇的使用将提供一个更愉快的工作环境，以及通过下列方式大幅度减少资产投入和运营成本：

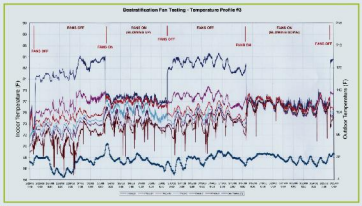
1. 消除加热器上方的热量集中，减少屋顶通风口和天窗的热量损失；
2. 减少为达到通风需要而进入室内的外部冷空气，使所需暖空气的量最小化；
3. 混合空气，消除在地面上冷热分布不均匀；
4. 快联工业大风扇的费用可以通过最大限度地减少昂贵的管道系统投入来抵消。

Heating

Since heat rises, a situation called stratification exists, which results in a heat gradient differential of 5℃ to 10℃ or higher from floor to ceiling,(approx.1℃ per vertical 900 mm). This means you are present and heat is going at out the roof. Mixing or destratifying will greatly improve this situation.

The use of FASTLINK fans will produce a more pleasure environment and substantially cuts operating costs by:

1. Virtually eliminating the pool of overheated air above the heaters, reducing heat loss through roof vents and skylights.
2. Minimizing the amount of warm air that has to be continuously replaced with cold outside air to achieve adequate ventilation.
3. Mixing air to eliminate hot and cold spots on the floor and overall stratification
4. The cost of FASTLINK fans may be completely offset by minimizing expensive ductwork.



VENTILATING 通风

通过连续混合进入室内的新鲜空气和原室内的浑浊空气，快联工业大风扇提供了有效的通风方式。
FASTLINK fans are the ideal means to efficient ventilation, by continuously mixing the incoming fresh air with stale air.

1. 减少为达到通风效果所需的空气量来减少排气风扇的数量，缩减高达90%的风扇功率。
2. 减少为达到通风效果所需的空气量来降低加热（或冷却）新鲜空气的能量消耗。

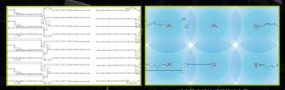
1. Reducing the volume of air needed for ventilation reduces the number of high speed exhaust fans needed ,cutting fan power consumption by up to 90%.
2. Decreasing the Volume of air needed for ventilation minimizes the loss of warm(or cool) air, reducing ongoing heating (or air conditioning) costs.

冷却 配合空调

空调运转依赖于昂贵的电费，同一个空间，相对于制热，制冷的费用约为2倍，由于空调的出风口位置，常常使一些地方太冷，其他地方太热。管道系统的长时间运行或者弯曲降低了空气流动，增加了运营成本。

快联工业大风扇将允许用于空调系统的设定值被设定为较高值而不降低对雇员的冷却效果。每提民度的设定点可以提高经营空调的成本可以节省3~5%的能源，增加空气流动的风扇有一个有效的5~9℃制冷量。保守计算，一台快联工业大风扇设备实现节约6%恒温空调成本，可以产生重大的运营成本节省。

1. 风扇消除了车间地面的热点和冷点；
2. 安装有空调的厂房，安装风扇可以大大降低安装昂贵的管道工程的投入。



COOLING With Air Conditioning

Air conditioning relies on expensive electricity to operate costing approximately twice as much to cool as to heat the same area .The outlet location often leaves some areas too cool and others to warm .Long runs of ductwork or bends reduce the airflow adding to the operating costs.

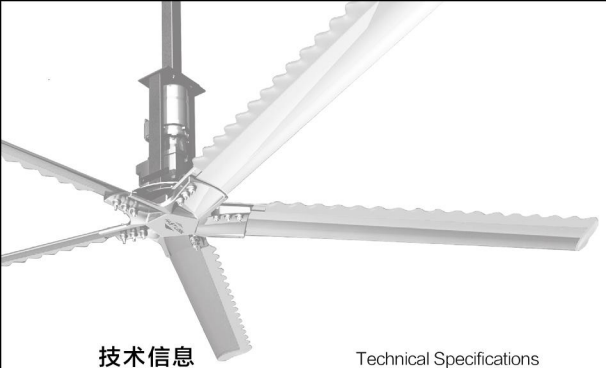
The addition of FASTLINK fans will allow the set point for the air conditioning system to be set considerably higher without reducing the cooling effect on the employees. every degree Celsius the set-point can be raised can result in energy savings of 3~5% in the cost of operating the air conditioning .the increased air movement from the fans has an effective cooling capacity of 5℃ to 9℃ . conservatively, a facility with an FASTLINK fan realizes a 6% savings on air conditioning costs for each degree the thermostat is raised, resulting in a significant savings in operating costs

1. The fan eliminates the hot and cold spots on the shop floor
2. In facilities where air conditioning is being added ,the installation of fans can eliminate the need for expensive duct work.

WITHOUT AIR CONDITIONING
不采用空调

1. 快联工业大风扇提供了一个有效的替代空调冷却环境，以提高生产力和舒适的工作环境。
2. 提高消暑的工作条件的最有效方法是增加空气流通，使用快联工业大风扇，你在25米远处仍能感觉到空气流动，通过人体的自然冷却机制使工人的皮肤温度有5℃到9℃的降温，以提高工作效率，风扇叶能降低湿度，增加舒适感。
3. 在低速运行时，我们采用WhalePower技术的7.3米直径的快联工业大风扇可以获得约90000l/s的空气流动。这种低速的空气流动使人感到比实际温度5℃到9℃的降温效果。

1. The fans provide an effective alternative to cooling environments where air conditioning is not present .This is especially true when non disruptive cooling is desirable to improve productivity and comfort in the work environment.
2. The most efficient way to improve summer working conditions is to increase air circulation. With FASTLINK fans you can be 9 m away and still feel air movement making a worker's skin feel 5℃ to 9℃ cooler, The air flow of a high volume, low speed fan allows the body's natural cooling mechanism to work effectively . The fan also reduces humidity, adding to the feeling of comfort
3. Our 7.3 m diameter FASTLINK ceiling fan with WhalePower Technology displaces air at a rate of about 90000 l/s when operating at a slow speed .The slow moving air can make the temperature feel 5℃ to 9℃ cooler than the thermostat actually registers.



技术信息

- 风扇直径从2.4m至7.3m，共5个规格；
- 风量最大接近188,000l/s，即11,280m3/min；
- 功率为0.75Kw至1.5Kw；
- 采用变频控制，提供缓起缓停的操作，可无级调速；

Technical Specifications

- fans range from 2.4 to 7.3 m in diameter
- Capable of moving nearly 188000l/s.
- Power from 0.75Kw to1.5Kw
- Variable frequency drive provides soft start and full variable speed operation

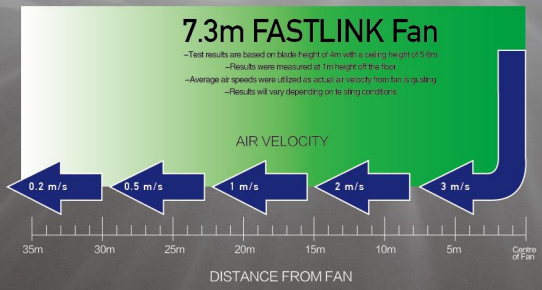
参数表 Performance Specifications

风扇直径 Fan Size	8 ft 2.4 m	12 ft 3.7 m	16 ft 4.9 m	20 ft 6.1 m	24 ft 7.3 m
电机功率 Motor Power	1 HP 0.75 Kw	1 HP 0.75 Kw	1.5 HP 1.1 kW	2 HP 1.5 kW	2 HP 1.5 kW
电压 Voltage	220V/380V 220V/380V	220V/380V 220V/380V	220V/380V 220V/380V	220V/380V 220V/380V	220V/380V 220V/380V
扭矩 Torque	68 ft-lbs 92 Nm	85 ft-lbs 115 Nm	180 ft-lbs 244 Nm	250 ft-lbs 339 Nm	290 ft-lbs 393 Nm
推力 Thrust	n/a n/a	n/a n/a	160 lbs 715 N	210 lbs 928 N	170 lbs 756 N
转速 Speed	154 rpm 154 rpm	123 rpm 123 rpm	73 rpm 73 rpm	63 rpm 63 rpm	57 rpm 57 rpm
风量 Airflow	42,136 cfm 19886 l/s	134,152 cfm 63313 l/s	182,173 cfm 85976 l/s	330,050 cfm 155766 l/s	397,701 cfm 187693 l/s
最大作用直径 Max EFF. Diameter	35 ft 10.7 m	80 ft 24.3 m	140 ft 42.7 m	200 ft 61.0 m	230 ft 70.1 m
自重 Weight(No Mount)	214 lbs 97 kgs	235 lbs 106.6 kgs	265 lbs 120.2 kgs	310 lbs 140.6 kgs	330 lbs 149.7 kgs
噪音（叶片以下2.4m处） Noise Level (2.4m Below at wing Tip)	60 dBA 60 dBA	62 dBA 62 dBA	62 dBA 62 dBA	63 dBA 63 dBA	64 dBA 64 dBA

备注： 数据可能会因现场环境而出现差异；
参数如有变动，恕不另行通知；
最大作用直径是指在空旷的房间内，距地1.2m处风速高于0.2m/s的范围。

Specifications may vary due to electrical and environmental conditions.
Specifications subject to change without notice.
Maximum effective diameter is where horizontal airspeed at 1.2m above floor drops below 0.2m/s in an empty room.

Flow diagram
气流示意



Installation space required
安装空间要求