



Become a Leading Intelligent Entrance Solutions Provider of the World



Shanghai Fastlink Door Co.,Ltd.

Tel: +86 021 64601300

After-sales Hotline: +86 400 880 6460

Email: sales@fastlinkchina.com

Official Website: www.fastlinkus.net



## HVLS FANS

[WWW.FASTLINKUS.NET](http://WWW.FASTLINKUS.NET)





# ABOUT FASTLINK

Shanghai Fastlink Door Co., Limited, a national high-tech enterprise titled "Shanghai Famous Brand" , is an access intelligence solution provider and manufacturer of industrial doors and handling equipment. We independently develop and manufacture products including HVLS fans, insulated sectional doors, single panel sectional doors, PVC high speed doors, cold storage high speed doors, dock levelers, dock shelters and have a number of technology patents and Europe-an CE certification.

Since its establishment in 2004, Fastlink has already become a strong brand in the industry and won trust and recognition of customers in many industries and fields with excellent product quality and perfect service support. It maintains good partnership with well-known enterprises such as GLP, Vanke, ESR, Goodman, Mapletree, Yuepei, Ping An Properties, Sinotrans, Shenzhen International, JD.com, Cainiao, Hema, Meituan, GFS , Mercedes-Benz, BMW, Geely, Bayer, BASF, Intco Medical, CATL, Huayou Cobalt.

In 2010, Fastlink built a modern factory of 30,000 square meters in Jiading, Shanghai, and introduced German technology and production lines, which laid a solid foundation for the company to become a leading industrial equipment manufacturer in China.

At present, Fastlink has established a sales network and after-sales service system in more than 20 cities nationwide. Meanwhile, we have fully introduced ERP and CRM systems, and realized the "information system + cloud platform" by the technology of the Internet of Things, so as to comprehensively improve order fulfillment and service quality.

With the international management mechanism, the design and development teams with "innovation as the first competitiveness" , and the service network integrating marketing, installation and after-sales service, Fastlink is steadily growing into a leading intelligent entrance solutions provider of the world.

# CONTENTS

01	FASTLINK HVLS FANS	P1
02	OUR MOTTO	P2
03	INTRODUCTION	P5
04	BENEFITS	P7
05	DESTRATIFICATION	P10
06	HVLS FANS ALSO REDUCE HUMIDITY	P12
07	CONTROLLER	P19
08	FASTLINK'S ADVANTAGES	P25
09	INFORMATION MANAGEMENT	P27





FASTLINK  
HVLS FANS

EXCELLENT PERFORMANCE  
SAFETY & RELIABILITY · DURABILITY



10 YEARS

10-year Supply Guarantee for Original Accessories

All important parts, such as motor unit, motor canble,electric control system, are designed and manufactured by Fastlink without outsourcing to ensure long-term service to customers.

OUR MOTTO

Only with the management concept of international standards can we obtain wider development space. Fastlink products and services can even satisfy the most demanding customers.



Product Development

The new product development, product update and detail improvement in Shanghai Fastlink have been consistently maintained. We have a better understanding of customer needs. Through continuous iteration of our R&D team, Fastlink products remain state of the art in the market.



Intelligent Production

Automated production guarantees timely delivery of orders and product quality. By constructing an information system, Fastlink realizes the connection between the ERP system and the production line to ensure product quality and production efficiency.



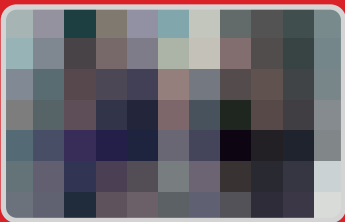
Quality Management

In order to create best of class products, Fastlink has achieved perfect control over every link, and strictly followed the ISO9001:2008 standard of quality management system throughout research, development, production, delivery and installation.



Reliable Service

The professional after-sales service team provides customers with reliable patrol, maintenance and repair services. With the Internet of Things technology and the construction of the information system, passive service is turned into active service, greatly improving the efficiency of after-sales service.



Professional Consultation

Provide customers with a full range of pre-, during and after- sales services, including comprehensive consultations from the preliminary project design and technical clarification to the installation and acceptance.





FASTLINK FANS

PROVIDES AN ENERGY **SAVING** SOLUTION  
THAT WILL DRAMATICALLY **REDUCE**  
YOUR **ENERGY COST** BY

UP TO **30%** ON AC COOLING  
DURING SUMMER

UP TO **45%** ON HEATING  
DURING WINTER





## What is an HVLS Fan?

### ✓ INTRODUCTION

Most people who need to solve a problem tend to only look at a fraction of their options before making a purchasing decision. This can lead them to miss out on one of the best fans on the market. One example of this is the general lack of understanding that consumers have about high-volume, low-speed (HVLS) fans and how effective they are to cool, heat, reduce moisture and odor inside a building, both indoors and outdoors.

HVLS fans are carefully designed to provide users with more functionality than traditional fans do. In this catalogue, you'll find the information that you need to know about this type of fan. You'll also learn why purchasing an HVLS could be a much smarter investment, which pays back itself, the next time that you need a climatization solution.

### ✓ What is an HVLS Fan?

It's useful to start this analysis with an overview of what HVLS fans are supposed to be. Technically speaking, a high-volume, low-speed fan is any ceiling fan that is greater than 2.1 m in diameter. This increased size is the hallmark of HVLS fans because it impacts how they operate. HVLS fans use their size to move air throughout large spaces and keep your entire structure comfortable. Their long blades create a powerful flow of air that spreads throughout the space like an ocean breeze. Traditional fans rely on speed to do this, which isn't usually as effective of an option nor is it as comfortable.

### High Volume

- Longer blades create a wider column of air
- Wider columns of air travel further
- Deep horizontal floor jets impact all adjacent areas

### Low Speed

- Gentle air movement rather than disruptive wind
- Nearly silent operation
- Low velocity reduces the power required to drive the fan

Therefore, High Volume Low Speed fans are currently the most inexpensive and energy-efficient way to cool down people and livestock and to recover heat from the ceilings in large buildings.



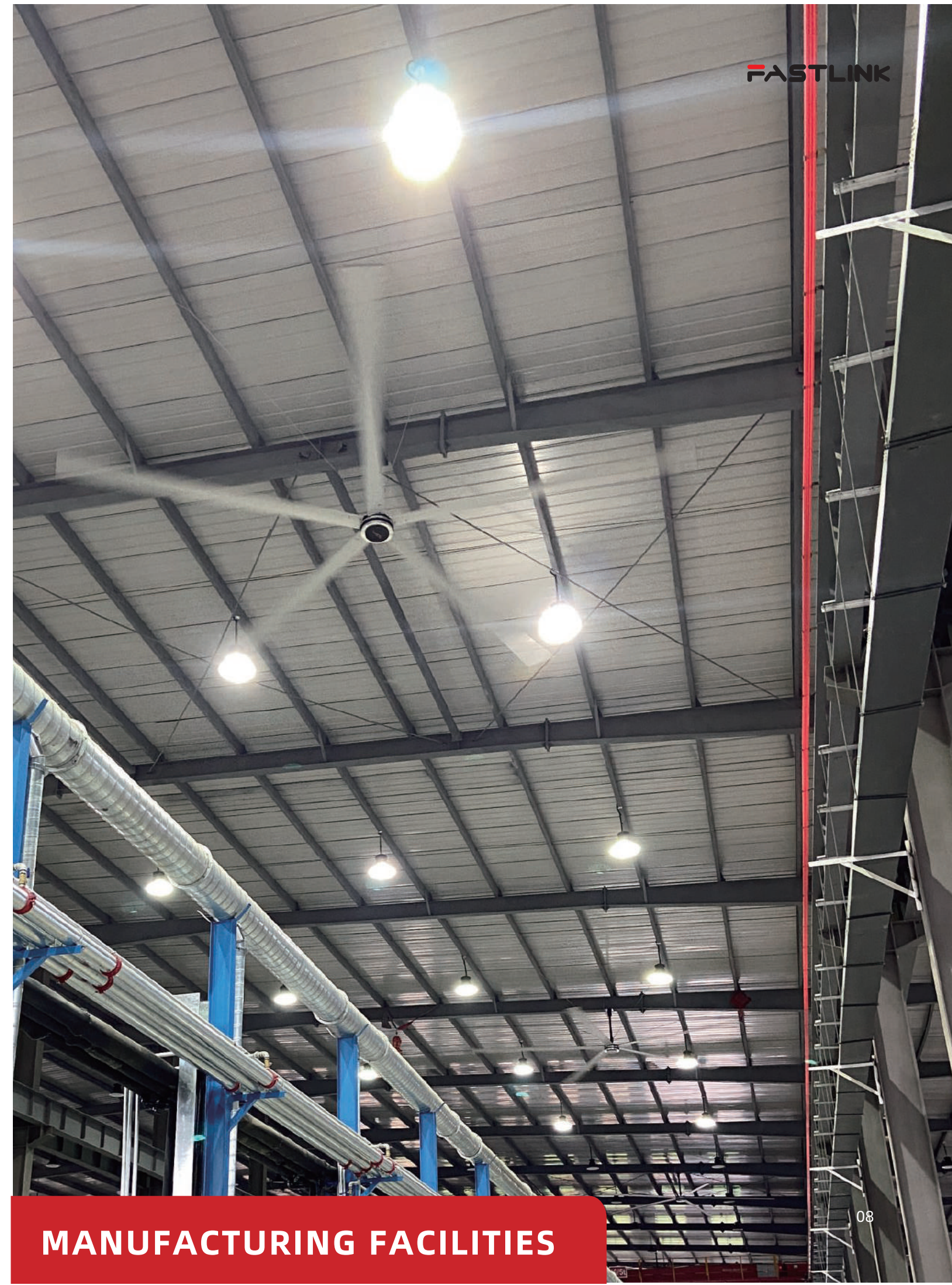
**BENEFITS****THERMAL COMFORT**

Air movement has a significant influence on human thermal comfort. Wind chill in cold conditions is considered detrimental, while it is considered beneficial in neutral to warm environments. This is because normally under conditions with air temperatures above 23°C, the body needs to lose heat in order to maintain a constant internal temperature. Heat stress reduces workers productivity and increases work related errors. Therefore, HVLS fans can improve employee productivity in the summer "Unlike air conditioners, which cool rooms, HVLS cool people."



LIVESTOCK

Fastlink fans increase air speed at the occupant level, which facilitates more efficient heat rejection, cooling the occupant, rather than the space. Elevated air speed increases the rate of convective and evaporative heat loss from the body, thus making the occupant feel cooler without changing the drybulb temperature of the air. Just like a breeze on a hot summer day, the HVLS fans' cooling effect reduces the perceived temperature by 5-7°C, thereby generating AC energy savings of up to 30%. The same applies in outdoor spaces where HVLS ceiling fans provide the same high-powered air circulation that they would in an indoor setting. This is also true for animals, livestock like dairy cows who produce more when they're comfortable.



MANUFACTURING FACILITIES



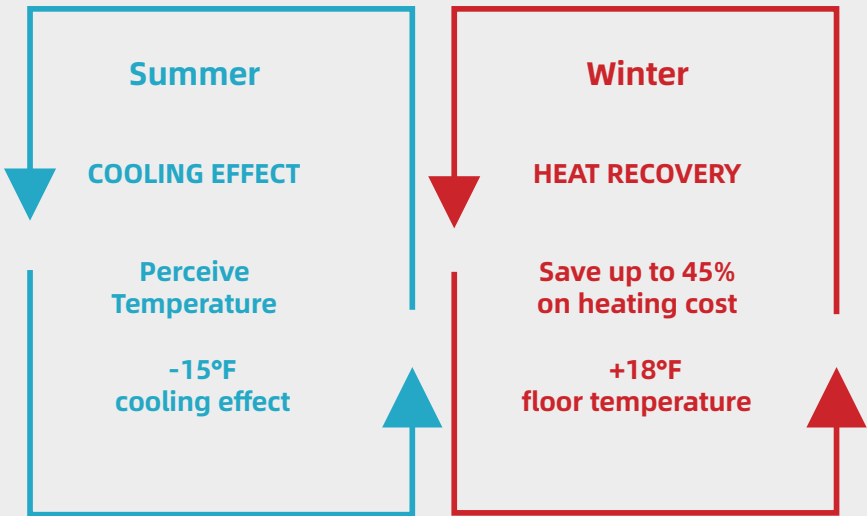
## SPORTS CENTERS



## DESTRATIFICATION

In Winter,hot air is less dense than cold air,which causes hot air to naturally rise to the ceiling level through a process called convection.This is a given circumstance in large commercial and industrial spaces with high ceilings.Where there is still air,layers of constant temperature is formed -the coldest at the bottom and the warmest at the top.This is called stratification.HVLS fans are the most efficient and effective way of mixing air in a stratified space by pushing the hot air trapped in the ceiling down to the occupant level.

This allows for complete mixing of the air in the space while decreasing both heat loss through the buildings'walls and roof,reducing building energy consumption. In the winter,HVLS fans are used for heat recovery and for reducing heating costs with **energy savings of up to 45%.**



## HVLS FANS OPERATE MORE EFFICIENTLY — THERMAL COMFORT

Even setting aside all of the benefits provided by HVLS fans'improved air circulation,these fans are worth investing in because they cost less to run.A single HVLS fan can be powered using a low scale 1/2 to 2-hp motor. They consume power at a fraction of the power consumed by the dozens of small fans you would need to replace a single HVLS fan.This is,in large part,due to the size and design of modern HVLS fans.These large industrial ceiling fans are carefully designed to use less energy,operating as effectively as possible while costing you a fraction of what it costs to install and run a commercial air condition system.On top of their remarkable energy savings,these fans are actually quieter than many other cooling solutions,such as traditional ceiling fans and HVAC systems,which makes them ideal for both industrial and commercial spaces.





## HVLS FANS ALSO REDUCE HUMIDITY



Moisture is another major concern for commercial, sporting and farming fan customers. Excessive moisture acts like humidity in that it can make occupants of a building feel hotter and more uncomfortable than they would if there was less moisture in the air. Even worse, it can lead to mold growth and wood rot, which could damage the items you're holding in your warehouse; or to odor and moisture issues in fitness facilities, which would discourage your patrons. Large ceiling fans are perfect for warehouse climate control. They are highly efficient in keeping your workers breathing fresh air, allowing the occupants to remain comfortable and productive without eating into your profits. Fastlink Fans are also capable of reducing excessive moisture in the air in livestock environments and keep the barn floors dryer. This can provide your cattle with even more comfort, leading to even more impressive production outcomes. HVLS fans fight back against excess moisture by continuously redistributing air. Traditional fans simply can't achieve the same effect since they rely on speed to move air and not their size. Given this, if humidity or moisture is a problem in your building, then HVLS fans are the only logical way to deal with it. Other options for treating these issues would be much more expensive and not worth the investment.

## HVLS FANS IMPROVE AIR QUALITY



The air circulation power that HVLS fans provide can even improve the air quality in your building. Studies have shown that stagnant air pockets have one of the highest risks for air-borne bacterial growth. This is an issue that can be exacerbated when your building has excess humidity or moisture in it. HVLS fans stop this problem before it ever happens. With their superior air circulation, HVLS fans prevent stagnant air pockets from forming, thereby reducing your need to worry about issues like airborne bacterial growth and providing a healthier environment for your production activity.

- Fastlink Fans reduce or eliminate slab sweating syndrome (SSS).
- Fastlink Fans reduce or eliminate sick building syndrome (SBS), improving air movement within the building.
- Fastlink Fans can keep bugs, birds, dust, & hygienic floors under control in livestock environments.

## IMPROVED AIR CIRCULATION REDUCES HUMIDITY

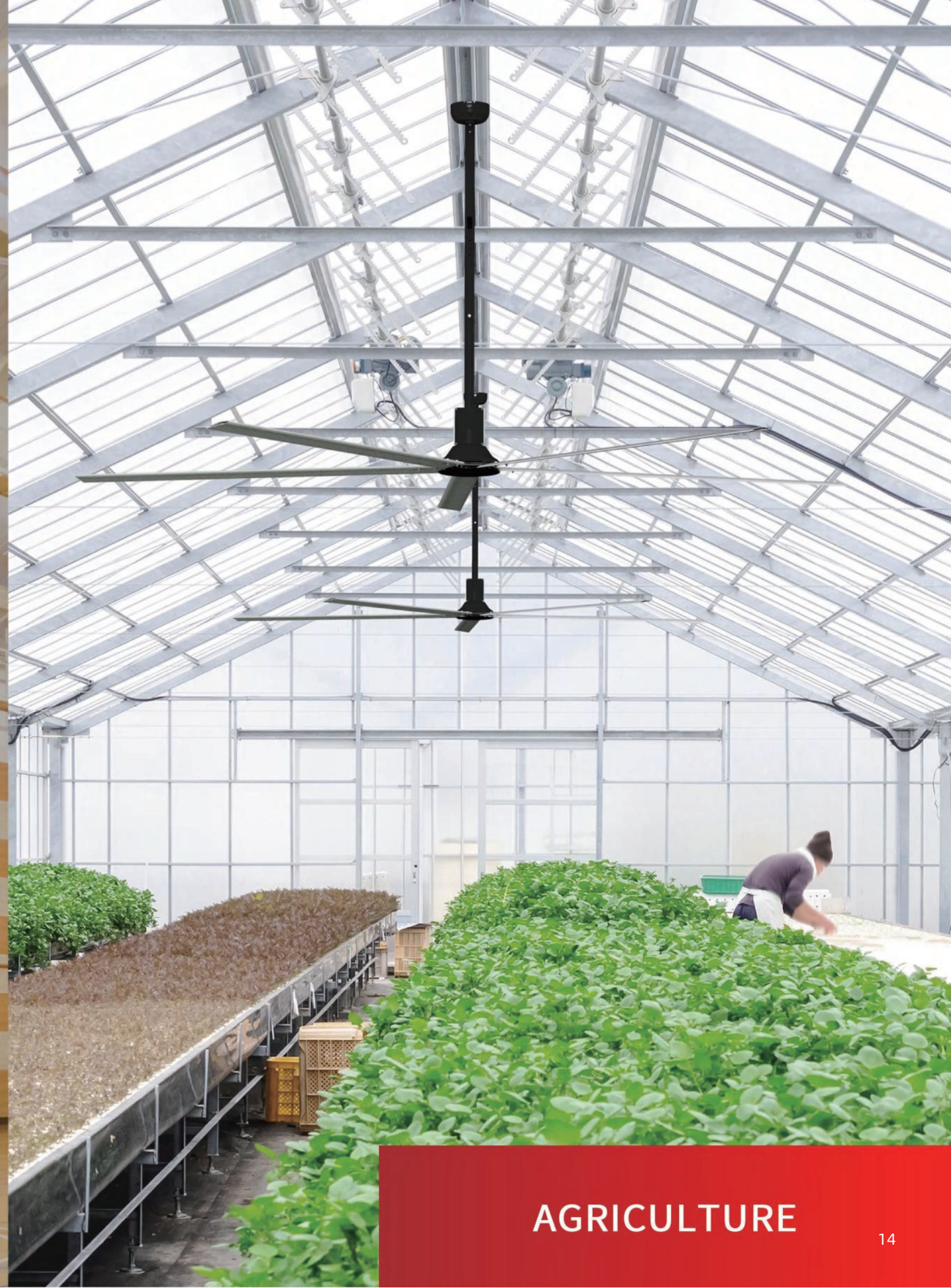


HVLS fans move large quantities of air towards the floor in a column. Once the air reaches the floor it will continue to flow horizontally in all directions until reaching a wall (or airflow from another fan). At this point, that air turns upward to the ceiling and back to the fan. This is important because HVLS fans involve the whole volume of air inside the space by mixing hot, cool, moist and dry air together for optimum air quality. The process by which HVLS fans operate creates convection-like air currents. This increases the air circulation in a room, removing hot and humid air and replacing it with drier air.

This is very beneficial to the plants that you're growing in agricultural facilities where air exchange is necessary for growth and too much humidity can encourage the growth of mildews, pathogens, and pests.



## EDUCATION



## AGRICULTURE



# M650

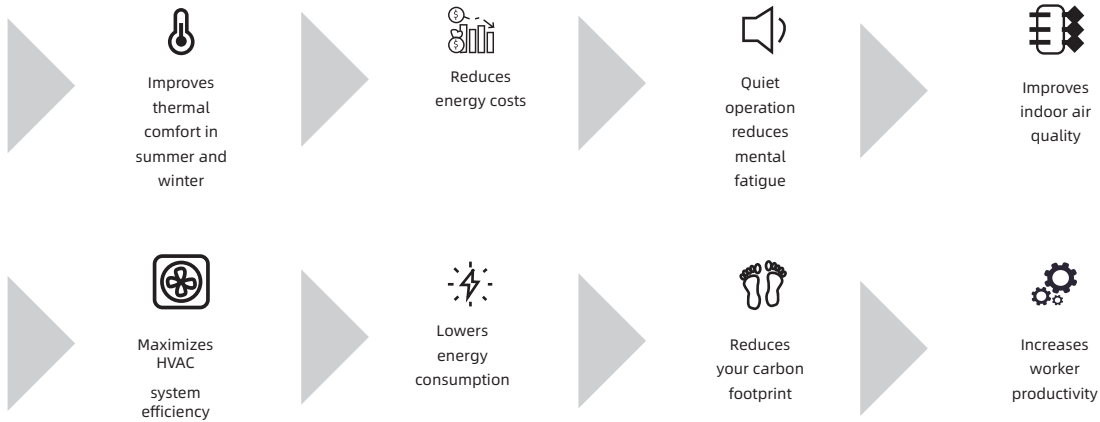


## FEATURES

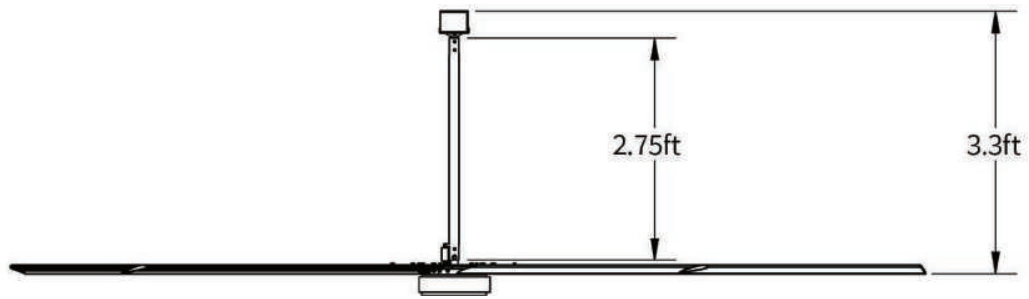
- 5 anodized aluminium blades
- Quick and easy installation
- Energy-efficient operation
- Network available for up to 20 fans
- 7 speed settings
- Available in custom-painted colors
- Forward 0-100% speed
- Conforms to CE,EN,and IEC standards
- Multiple redundancies in all critical components, including blades,motors,electronics,and mount

Motor Technology	Benefits	Permanent Magnet Synchronous Motor (PMSM)	Benefits
Direct drive technology	No oil. No seals to leak Only 2 moving parts Low noise Low energy consumption Low weight.		Cost effective Scalable torque Low energy losses

## USES



The M650 provides extreme value with its PMSM permanent magnet synchronous motor. This gives it scalable torque and enables it to operate at top speed while consuming less than 350 watts of power. The fan's easy installation process makes it an ideal fit for commercial spaces that are looking for a cost-effective way to cool the air. The M650 Series has been built to provide maximum value. This starts with its effortless installation process, which requires only a single cable. The M650's drive features a built-in HMI, which is located at floor level for a sleek look. This makes bringing the M650 into your facility an extremely low-cost endeavor. The M650 Series delivers comfortable airflow throughout the year. It cools efficiently in summer and equalizes a building's temperature in the winter to warm it. This model works best in medium-sized spaces with ceiling heights ranging from 9ft to 23ft. It's available in diameters spanning from 10ft to 14ft to suit your building's needs.



General Specifications							
Voltage		208VAC-240VAC Single Phase, 50Hz / 60Hz					
Sound @Max Speed		<45dBA					
IP Rating		IPX5 indoor/Outdoor					
Temperature Rating		14°F/+122°F					
Certifications		CE,CB for local IEC Certification					
Controller		Forward Direction 0-100%					
Mounting		Fully Adjustable					
Mount to Blades Height		3.3ft					
Warranty		3 Years on all Parts -Extended Warranty Optional					
Model/Performance	Diameter	Nuberof Blades	Weight	Max Rotation Speed	Covered Area	Recommended Blade Height	Power Usage (Top speed)
M650-10	3m/10ft	5	31kg/69lbs	120rpm	230 m² / 2500ft²	5-7m/ 15-23ft	190W
M650-12	3.6m/12ft	5	34kg/76lbs	100rpm	350 m² / 3800ft²	5-7m/ 15-23ft	275W
M650-14	4.2m/14ft	5	37kg/83lbs	82rpm	490 m² / 5200ft²	5-7m/ 15-23ft	335W



# M730



## FEATURES

- 5 anodized aluminium blades
- Quick and easy installation
- Energy-efficient operation
- Network multiple fans
- 8 speed settings
- Safety cable, 5 blade retainer links for extreme safety
- Conforms to CE, EMC standards
- Multiple redundancies in all critical components, including blades, motors, electronics, and mount

Motor Technology

Direct drive technology

Benefits

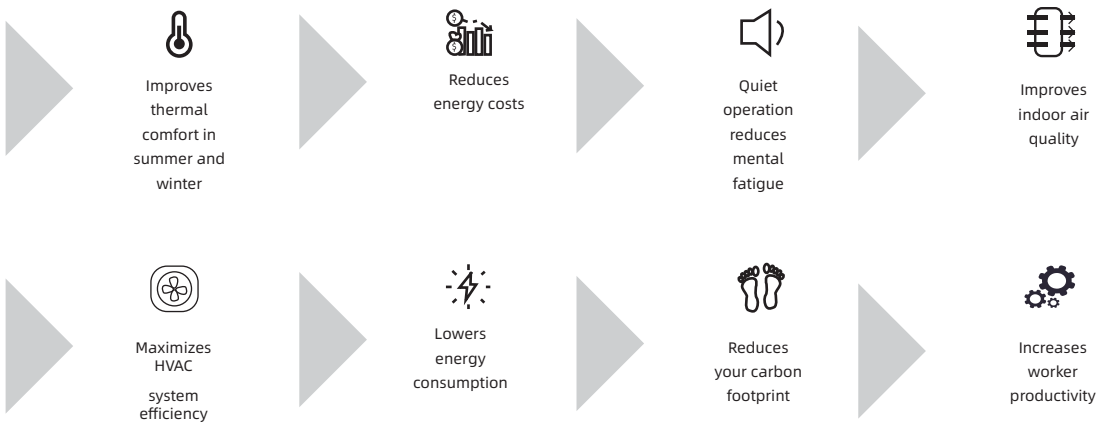
No oil.  
No seals to leak  
Only 2 moving parts  
Low noise  
Low energy consumption  
Low weight

Permanent Magnet Synchronous Motor (PMSM)

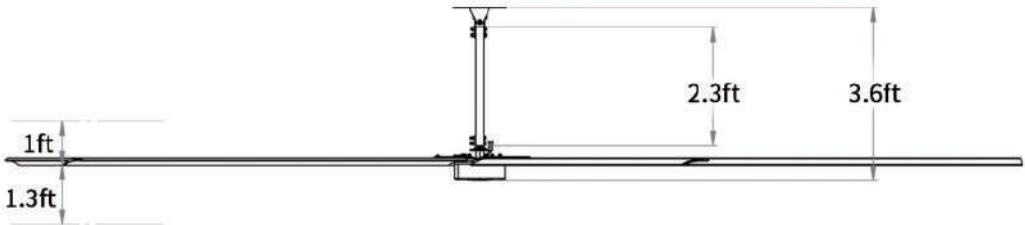
Benefits

Cost effective  
Scalable torque  
Low energy losses

## USES



The new generation Vindus E730 Series HVLS fans feature a high-volume, low-speed design powered by an advanced Permanent Magnet Synchronous Motor (PMSM). With diameters ranging from 4.9m (16ft) to 7.3m (24ft), these fans incorporate a new-generation integrated variable frequency controller developed specifically for large fan applications, allowing for one-touch access to current, voltage, and speed information. Equipped with an intelligent touch screen, the system can support wireless centralized control of up to 48 units (optional), eliminating the need for extensive wiring. Through optimized design, the E730 series fans are lighter, more cost-effective, and offer a higher return on investment. In summer, the forward rotation provides a comfortable, quiet airflow, effectively reducing perceived temperatures by 3-7 °C. During winter, reverse rotation eliminates thermal stratification, balancing temperatures between upper and lower levels. The E730 series is ideal for large spaces with ceiling heights ranging from 5 to 13 meters.



General Specifications	
Voltage	208VAC-240VAC Single Phase, 50Hz / 60Hz
rated power	1300W/750W
Sound @Max Speed	<50dBA
IP Rating	IPX5 indoor/Outdoor
Temperature Rating	14°F/+122°F
Certifications	CE, EMC Certification
Controller	integrated variable frequency controller
Warranty	3 Years on all Parts -Extended Warranty Optional

Model/Performance	Diameter	Nubero of Blades	Weight	Max Rotation Speed	Covered Area	Recommended Blade Height	Power Usage (Top speed)
M730-16	16ft	5	177lbs	78rpm	600 m² / 6500ft²	13-36t	640W
M730-18	18ft	5	185lbs	69rpm	750 m² / 8100ft²	16-30ft	720W
M730-20	20ft	5	216lbs	60rpm	920 m² / 10000ft²	19-33ft	680W
M730-24	24ft	5	227lbs	57rpm	1300 m² / 14000ft²	22-433ft	1040W



CONTROLLERS

HMI 1-10

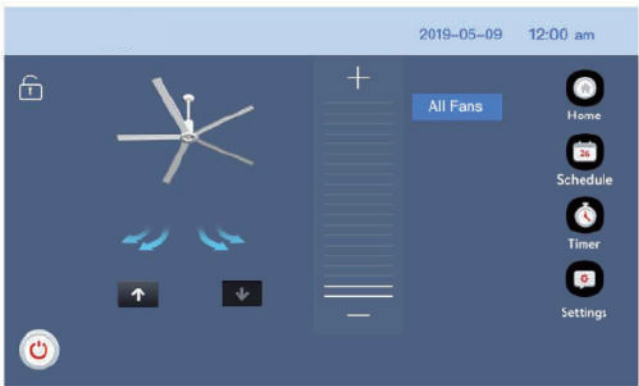


Technical Data

Display	7" TFT
CPU	ARM Cortex 48
Software	Android 4.1.2
Resolution	800x480 pixels
Voltage Supply	+9~28 VDC
Consumption	<12W
Comms protocol	RS485
Dimensions	118x178x45mm
Operating temperature	-10°C to +50°C
Storage temperature	-30°C to +70°C
Humidity	0-90% RH no dew
Weight	650g
Degree of protection	Protected from water and dust

FEATURES

Home Screen



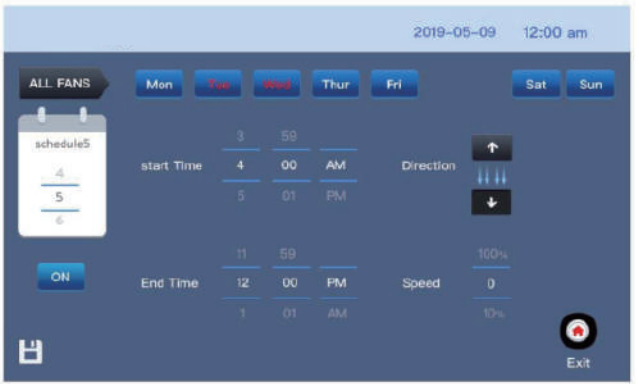
- 1.Lock Screen
- 2.ON/OFF
- 3.Direction -Up/Heat
- 4.Direction -Down/Cool
- 5.Speed -Faster
- 6.Speed .Slower
- 7.Select Fan to be controlled
- 8.Home
- 9.Schedule
- 10,Timer Function
- 11.Settings

Fan selection



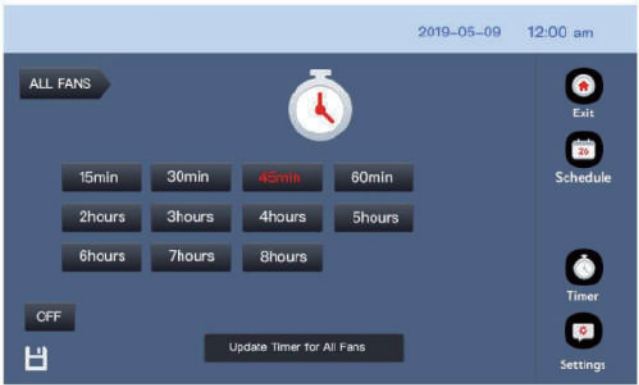
- 1.Fan indicator (select in HOME screen)
- 2.Fan ID/Modbus Address
- 3.Blade Diameter selection
- 4.Exit Back
- 5.Re-start Fan
- 6.Re-scan network
- 7.Software versions
- 8.Status/Fault codes

Scheduling



- 1.Fan indicator (selected in HOME screen)
- 2.Select/Make schedule
- 3.Day selection
- 4.Set start time
- 5.Set end time
- 6.Set direction
- 7.Set speed
- 8.Activate/Deactivate schedule ON/OFF
- 9.Save schedule

Timer



- 1.Fan indicator(selected in HOME screen)
- 2.Timer length selection
- 3.Activate/Deactivate timer function ON/OFF
- 4.Save timer settings



CONTROLLER

V 20



Technical Data	
Display	LCD
Input voltage	208-240 VAC
Output current	5 Amp max.
Speed	7 Levels
Dimensions	9.2"x5.9"x3.6'
Weight	5 lbs
Operating temperature	14°F-122°F
Degree of protection	IP20

FEATURES













# CONTROLLERS

## VDH 10

Power | Input specifications | Output specifications







1.5KW	1PH AC 220V±15%	3PH AC 0-INPUT
1.5KW	3PH AC 220V±15%	3PH AC 0-INPUT
1.5KW	3PH AC 220V±15%	3PH AC 0-INPUT

 Compatible with synchronous and asynchronous motor	 Equipped with functional terminals
 Customer-friendly wiring design	 Standardly equipped with hidden circuit breaker
 Advanced low-noise technology	 One-button speed control
 Powerful intelligent centralized control solution	 Removable cooling fan

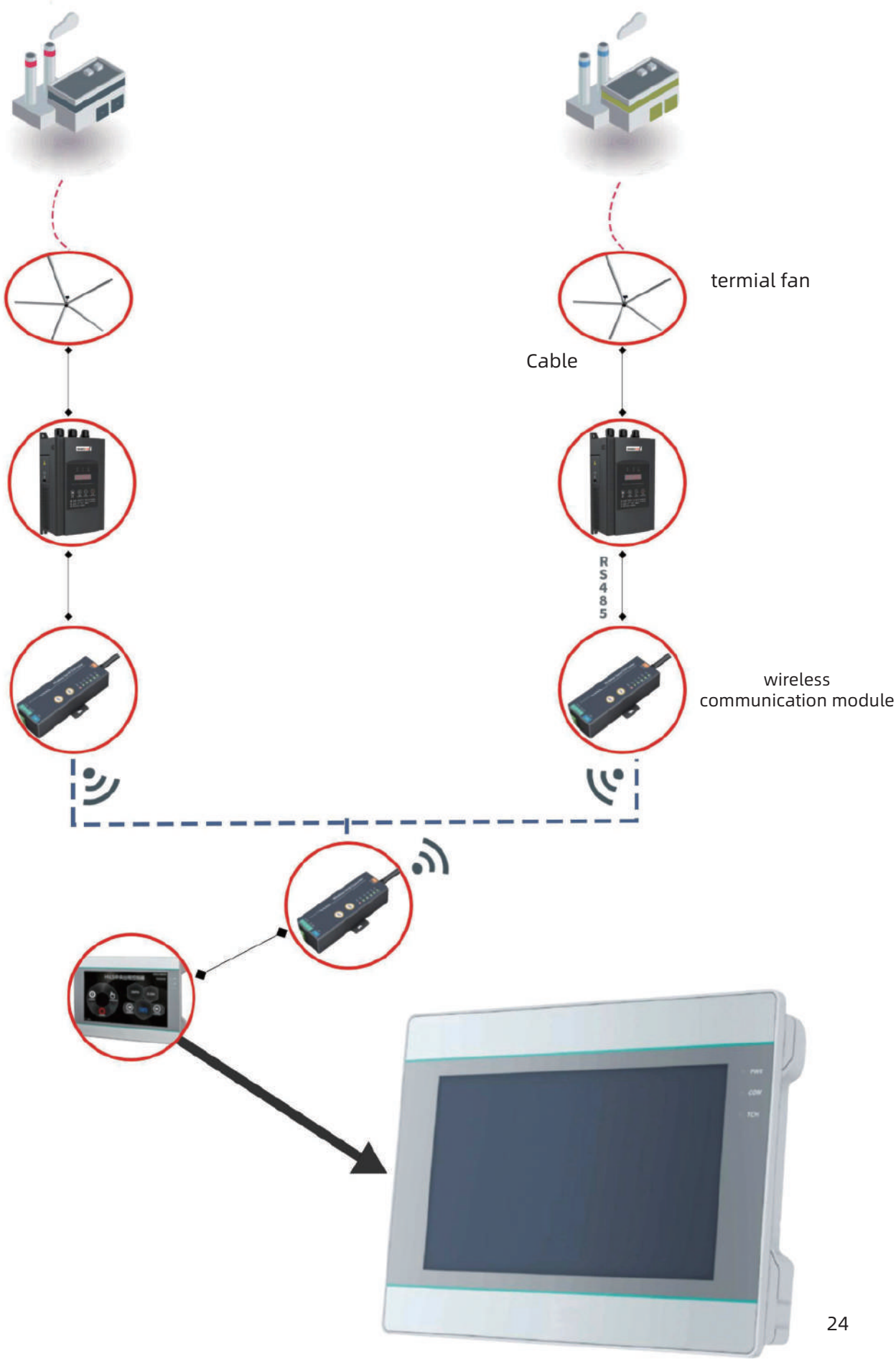


Power | Input specifications | Output specifications

1.5KW	1PH AC 220V±15%	3PH AC 0-INPUT
-------	-----------------	----------------

 Compatible with synchronous and asynchronous motor	 Optional controlling solutions	 Optimized appearance
 Customer-friendly wiring design	 Standardly equipped with circuit breaker	 One-button speed control

# FEATURES





TECHNOLOGY DIRECT DRIVE

Gearbox Driven Technology



FAILURE POINTS AND DRAWBACKS

- Gearbox with oil
- Seal failure after few years
- Loud operation
- Heavy
- High energy losses

Direct Drive Technology



BENEFITS

- No oil
- No Seals to leak
- Only 2 moving parts
- Low Noise
- Low energy consumption
- Low weight



PLEASANTLY QUIET

ENERGY-EFFICIENT





## FASTLINK'S ADVANTAGES



**WE PROMISE TO  
PROVIDE MORE DURABLE SECURITY**

### ✓ **Fastlink After-sales Advantage**

Security Provision Professional team, original accessories, liability tracing system

Quick Response Far above the industry level

Scientific Data Management System Any maintenance data is traceable, and we strives to continuously optimize our service capabilities

More Economical Maintenance Package Cover all consumable replacement and maintenance items

### ✓ **Providing Third-party Additional Protection**

Fastlink has purchased third-party insurance for each product and for each on-site after-sales staff, providing you with double protection and removing worries for you.

**Product Accident Insurance**

At the customer's site, any property loss or personal injury caused by Fastlink products shall be settled by the third party insurance.

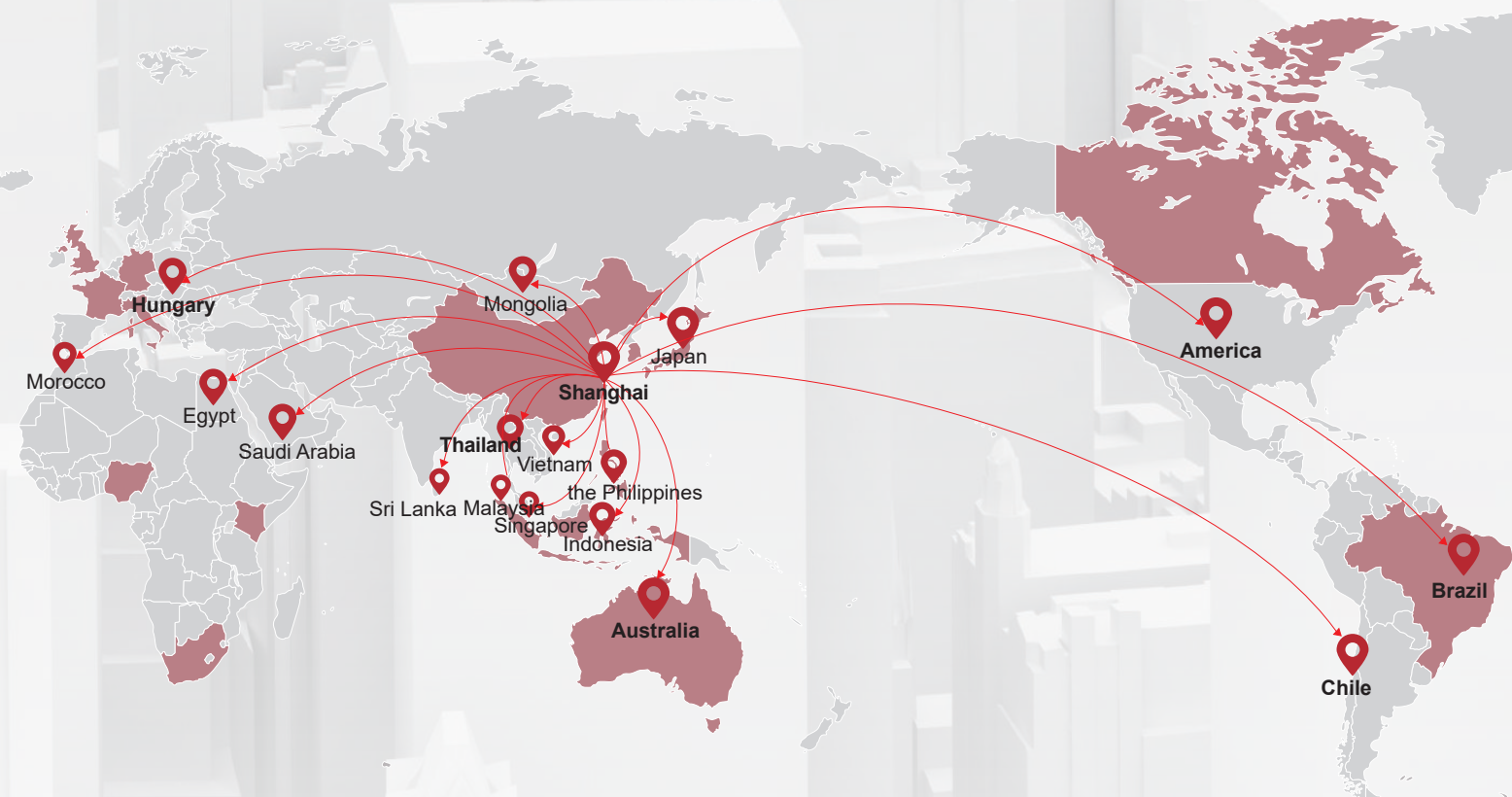
**Personal Accident Insurance**

Any personal injury accident caused by the employees of Fastlink shall be settled by the third party insurance during the on-site work of the customers.

### ✓ **Providing Maintenance Packages Of Different Specifications After The Warranty Period**

## GLOBAL NETWORK

Since its establishment, Fastlink has always adhered to the concept of "service first". By setting up a global sales network and an integrated service network covering "projects, installation and after-sales", it ensures a rapid response to customer needs.



**30+**  
Export Countries  
and Regions

**50,000+**  
Annual Shipment  
Volume

**5,000+**  
Global  
Customers

**30+**  
Global Sales Outlets  
and Service Layout

**2 Hours**  
Intelligent Service  
Response

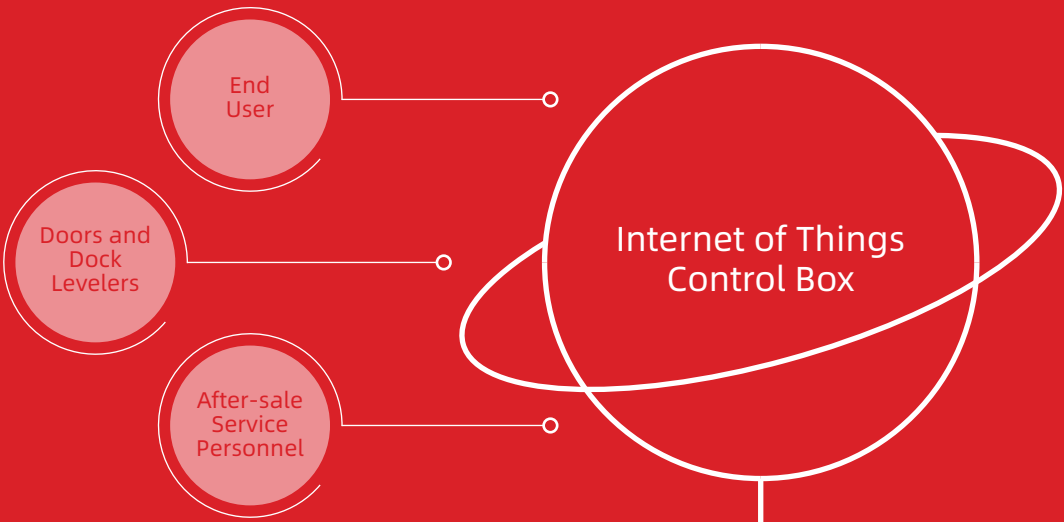


## INFORMATION MANAGEMENT

Fastlink takes the lead in investing resources to establish an intelligent service management platform, and continuously launches service functions such as efficient inquiry of orders for customers and one-click report for repair and customer evaluation on the mobile phone, so as to realize end-to-end service that starts with customer demand and ends with customer satisfaction.

## TECHNICAL SERVICE

Fastlink initiates the world's first Internet of Things Control Box (national invention patent), realizing system interconnection and turning passive service into active service.



### 1 Customer Service Terminal QR Code Repair Report

Customers can scan the QR code with the mobile phone to quickly report for repair, inquire the contact information of the assigned after-sales engineer, and check the whole service process in real time.

Fastlink distributes task orders on APP to the nearest after-sales service engineers, realizing data management from the assigning to the completion of the repair. Customers can evaluate the service on the mobile phone, which always reflects the business philosophy of customer first.

### 2 Cloud Platform

The cloud platform can display the usage status of warehouse products in real time (running times, fault information, real-time uploading).

Authorized customers can check the usage of all projects in the country from the system, and accurate data analysis for equipment repair and maintenance are provided to customers.

The system can connect with the customer park management system and realize the management goal of an intelligent park.



Cloud Platform



Information System



QR Code Repair Report