



**FARM ENVIRONMENTAL CONTROL**  
EQUIPMENT MANUFACTURER

“

# PERFECT QUALITY WORLD SHARING

Continuously creating value for global users

”

INVESTMENT

5000万



AREA COVERED

30000m<sup>2</sup>

STAFF

100+



ANNUAL CAPACITY

40000套



# ABOUT US

TO ALIGN WITH TOP COMPANIES IN THE INDUSTRY,  
BE A GLOBAL MANUFACTURER OF HIGH-QUALITY LIVESTOCK EQUIPMENT!

Shandong Wusen Environmental Control Equipment Technology Co., Ltd. is located in the Economic Development Zone of Qingzhou City, Shandong Province, which is a scenic and economically vibrant area. It is a modern technology enterprise specializing in the field of high-end agricultural and animal husbandry environmental control. Integrating R&D, production, sales, installation and service, the company is committed to providing comprehensive and professional overall environmental control solutions for agricultural and animal husbandry customers.

## Strength Foundation: Scale and Production Capacity

The company covers an area of 30,000 square meters, including 20,000 square meters of modern standard workshops, laying a solid foundation for efficient production and service guarantee. Relying on an advanced production system, the company is equipped with 10 injection molding production lines, 3 extrusion production lines, 2 rotational molding production lines, 2 blister production lines, 5 laser CNC equipment and 6 sets of assembly production lines, ensuring that products are technologically leading, with stable quality, high efficiency and energy saving.

## Core Advantages: Products and Innovation

Wusen Environmental Control's core competitiveness stems from its diversified product lines and continuous technological innovation capabilities. Its main products include microbial waste gas purification and deodorization systems, high-efficiency spray deodorization equipment, PVC water collection tank cooling systems, ventilation windows and air inlets, ultra-clean core air filtration systems, negative pressure fans, etc. These products perform excellently in improving the air quality of breeding environments, accurately controlling temperature and humidity, and enhancing breeding efficiency, and can meet the personalized needs of different agricultural and animal husbandry scenarios.

The company has a strong R&D and design team, which closely follows the cutting-edge trends of international environmental protection and agricultural and animal husbandry development, and continuously launches innovative technologies and products that meet the new requirements of the industry, providing strong support for the technological upgrading of the industry.

## Market Recognition: Cooperation and Reputation

With high-quality products and services, Wusen Environmental Control has established long-term strategic cooperative relationships with large domestic agricultural and animal husbandry-related enterprises, and has provided stable product supply and professional technical support for many large global EPC companies. It has won wide praise and deep trust from customers at home and abroad, and has become a highly influential benchmark brand in the industry.

## Corporate Vision: Mission and Commitment

Adhering to the corporate mission of "living up to every trust", Wusen Environmental Control actively responds to industry challenges and is determined to become a leader in the global agricultural and animal husbandry environmental control field. Facing the trend of large-scale and modern transformation of the breeding industry, the company promises to continue to increase investment in technological innovation and provide more comprehensive, efficient and environmentally friendly equipment support for global animal husbandry partners. We firmly believe that through the joint efforts of all parties, we will promote the sustainable development of the industry and contribute solid strength to the prosperity and development of agriculture and animal husbandry!

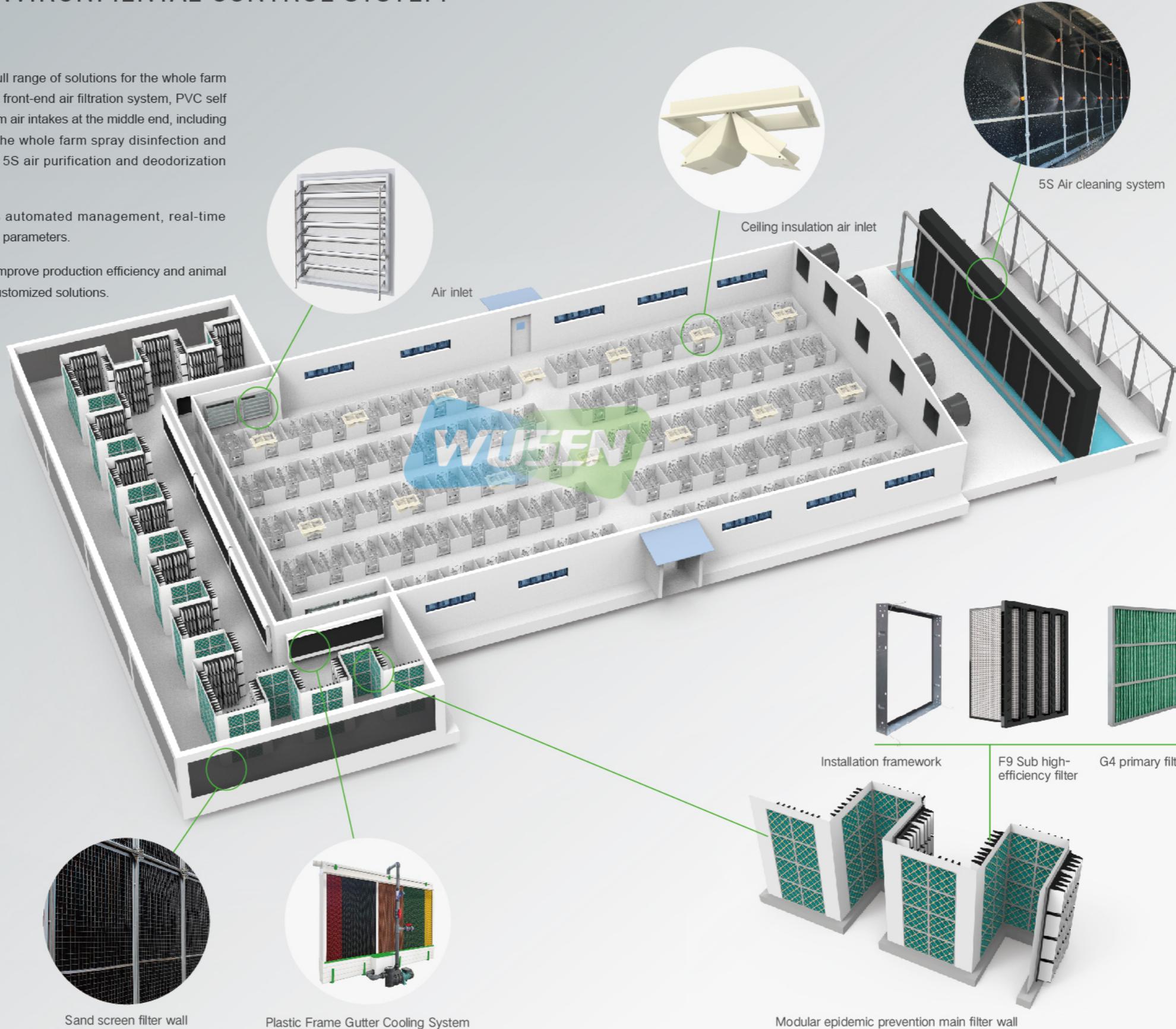


# FARM BREEDING ENVIRONMENTAL CONTROL SYSTEM

Wusen Environmental Control provides a full range of solutions for the whole farm environmental control system, including the front-end air filtration system, PVC self circulating cooling system, a full range of farm air intakes at the middle end, including side wall air intakes, ceiling air intakes, the whole farm spray disinfection and sterilization system, tail fan and WUSEN 5S air purification and deodorization system.

Wusen Environmental Control supports automated management, real-time monitoring, and adjustment of environmental parameters.

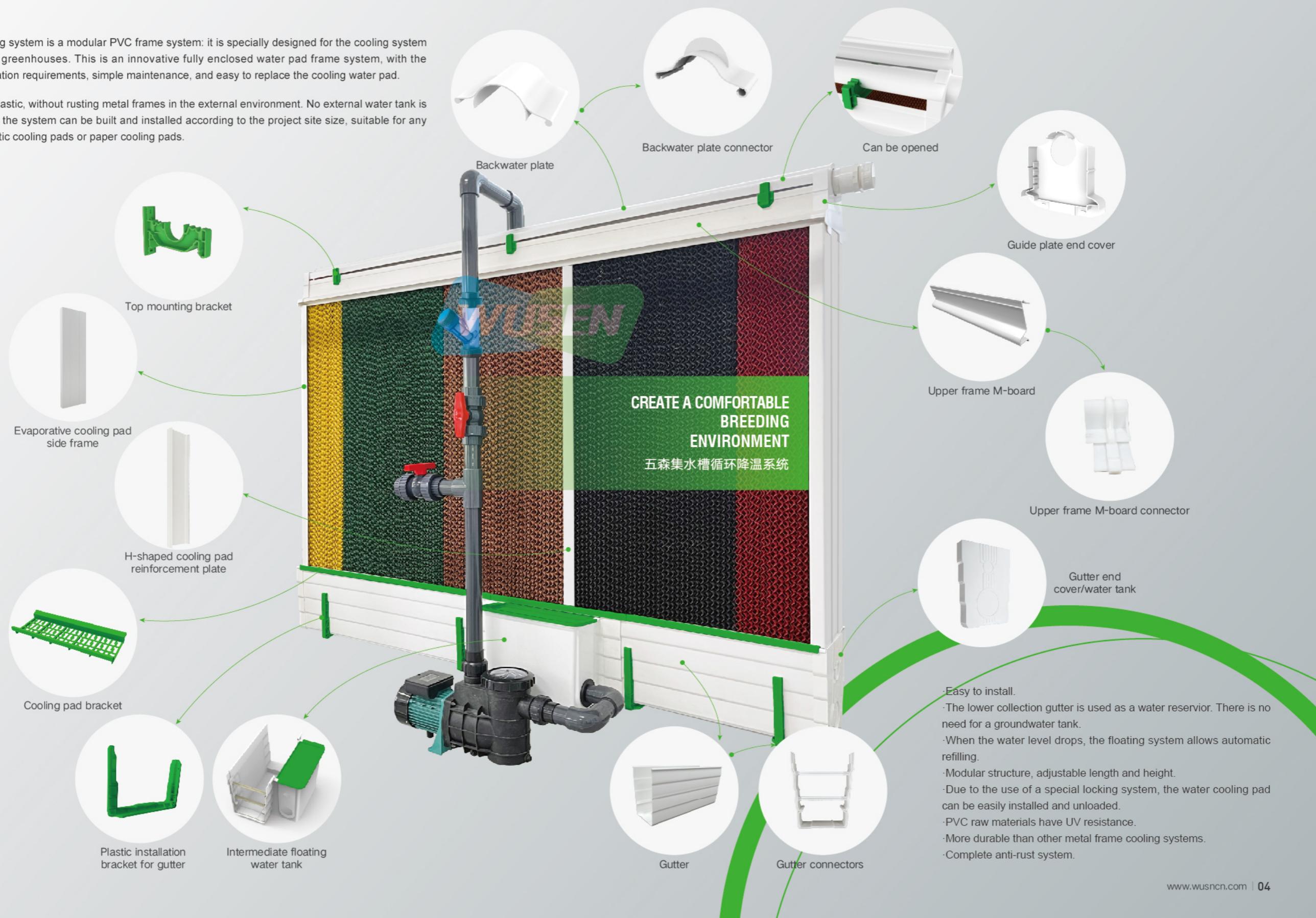
Wusen Environmental Control helps farms improve production efficiency and animal welfare through advanced technology and customized solutions.



# PLASTIC FRAME GUTTER COOLING SYSTEM

Wusen cooling system is a modular PVC frame system: it is specially designed for the cooling system of farms and greenhouses. This is an innovative fully enclosed water pad frame system, with the lowest installation requirements, simple maintenance, and easy to replace the cooling water pad.

All made of plastic, without rusting metal frames in the external environment. No external water tank is required, and the system can be built and installed according to the project site size, suitable for any length of plastic cooling pads or paper cooling pads.



# FEATURES OF PVC COOLING CIRCULATION SYSTEM



## Drip Pipe $\varnothing 63$

- Dedicated drip pipes for paper and plastic cooling pads
- Dripper holes on the pipes are distributed 3 cm apart
- Ensure uniform water distribution along the entire length of the cooling pad



## Ball Valve

- A 63 ball valve is installed in the water inlet pipeline to regulate the water flow.
- A 63 (T-type) ball valve is used to regulate the drainage.



## Top Anti-Splash Plate

- The newly developed top anti-splash plate is easy to disassemble, allowing for quick inspection and cleaning of the internal pipelines.



## Mounting Bracket

- All profiles are treated with snap fasteners, facilitating the fixing of pipe racks and M-plates.
- Provide high stability for M-plates.
- Facilitate the opening and replacement of cooling pads.



## Gutter

- Meets all water supply requirements of the system without the need for an external water tank.
- A mounting bracket is installed on the bottom gutter for fixing to the wall.
- The side end cover is equipped with a drainage port to facilitate cleaning.



## H-Type Cooling Pad Reinforcement Plate

- Suitable for reinforcing large-size cooling pads.
- Stabilizes the cooling pads, preventing deformation during long-term use and enhancing overall stability.



## Make-up Water Tank

- The integrated water make-up system is connected to the sump tank/water collection tank.
- An internal float valve is equipped to automatically replenish water according to water consumption.



## Cooling Pad Bracket

- The cooling pad bracket enables perfect water recirculation.
- Prevents gnawing by rodents.
- The cooling pad is embedded in the bracket, with high splash resistance on both sides.



## Circulating Water Pump

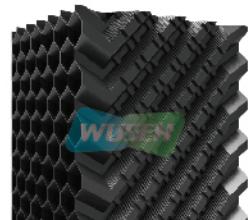
- Equipped with an integrated filter, available in 1.5-inch or 2-inch caliber.
- Different water pumps are configured according to different lengths of the cooling system.

# PVC PLASTIC COOLING PAD

The Wusen PVC Cooling Pad is a simple and cost-effective solution that cools farms with minimal energy consumption through an adiabatic process. It is made of self-extinguishing polyvinyl chloride (PVC) material and combined with a special geometric structure, creating components that are robust, durable, UV-resistant, and nearly opaque. This high-efficiency version of the cooling pad is specifically designed for application scenarios requiring brightness control, making it suitable for breeding facilities with high light-shielding requirements.

The Wusen PVC Cooling Pad features excellent cooling performance and a low wind resistance coefficient. The material used ensures it is extremely sturdy and durable, easy to clean, and does not require regular replacement—an important advantage compared to other products on the market.

The mold cavity designed for the "special honeycomb structure" ensures uniform water flow distribution, increases the contact area with air, and enhances adiabatic cooling efficiency.

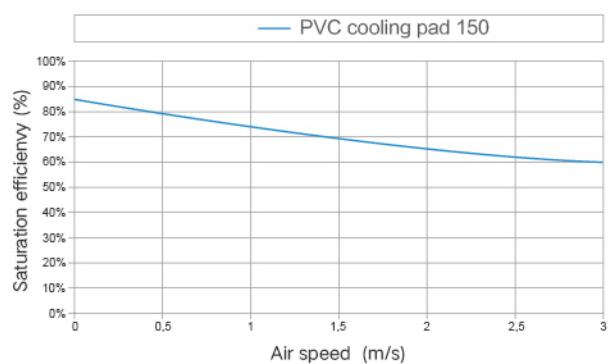
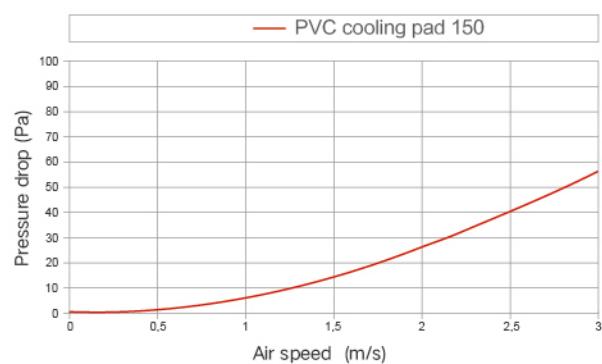


## Technical features, dimensions

Lenght L-(mm)	Height H-(mm)	Thickness T-(mm)	Specific weight (kg/m <sup>3</sup> )	Material	Specific surface area m <sup>2</sup> /m <sup>3</sup>	Light reduction factor	Operations temperature °C
600	1200/1500/1800/2000	150	35	PVC	≈345	≈ 1 000 000	-5/+60°C

Note: Different heights can be provided according to requirements.

## Performance test data

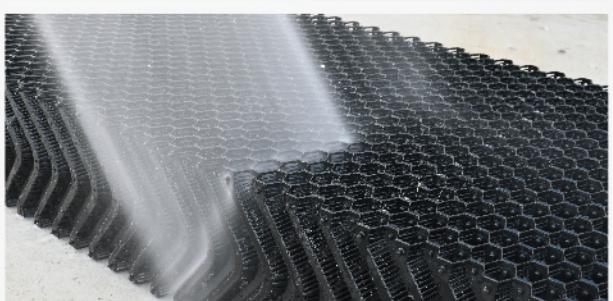


# PP PLASTIC COOLING PAD

Wusen plastic evaporative cooling pad is a new product made of polypropylene based on the application of paper cooling pad. The plastic cooling pad not only has the cooling effect of the paper cooling pad, but also has the characteristics of water corrosion resistance, zero and insect resistance. Its normal use the life expectancy can reach more than 15 years. Due to the long service life of plastic village mats, there is no need to replace the liner during use, which greatly reduces the material cost and high labor costs required for customers to replace the liner.

## Characteristic

- ◆ CoolPads consist of polypropylene and are therefore easy to clean and highly robust.
- ◆ Available in standard dimensions 600 / 900 / 1,200 / 1,500 / 1,800/ 2,100/ 2,400 x 150 mm and100mm; Custom heights up to max. 3,000 mm available on enquiry
- ◆ Can replace standard paper pads without any problem
- ◆ Lower pressure loss compared to paper pads
- ◆ Long service life
- ◆ Length is flexible (up to 24 m/1 pump). Height max. 2.5 m.
- ◆ Quick and easy assembly
- ◆ High cooling performance



## Specifications

Single wave plastic cooling pad thickness 100mm 150mm, double wave plastic cooling pad thickness 150mm  
The area size of the cooling pad can be customized according to actual installation needs and can be made into any size.  
The specifications of cooling pads without frames are as follows:

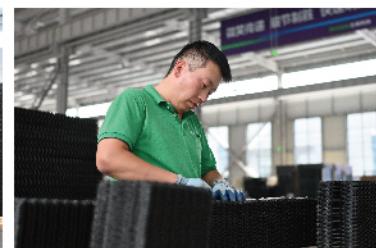
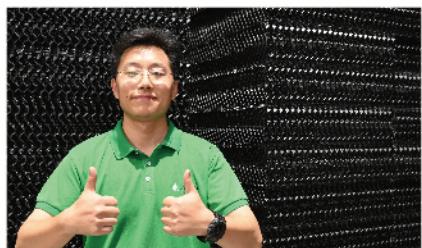
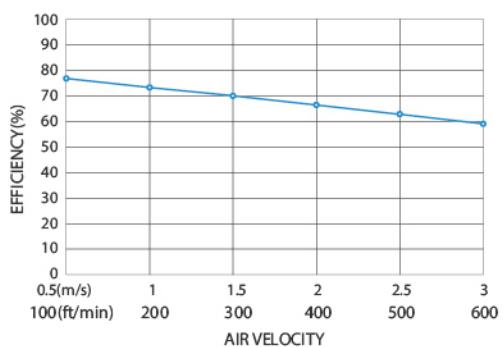
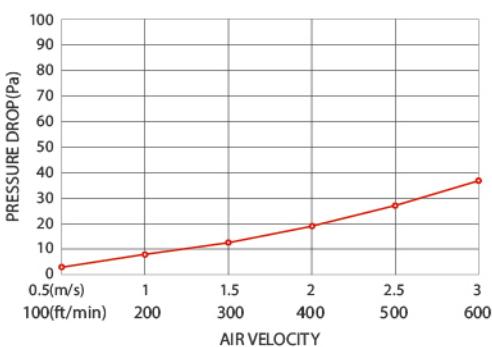
600mm*600mm	1200mm*600mm	1500mm*600mm
1800mm*600mm	2400mm*600mm	3000mm*600mm
		Size customization

# PERFORMANCE INDICATORS OF COOLING PADS

Plastic evaporative cooling pad								
Length	[mm]	6000	9000	12,000	15,000	18,000	21,000	24,000
Thickness	[mm]	150	150	150	150	150	150	150
Water pump	(W)	750	750	750	750	1,500	1,500	1,500
Water pump load: 1~230V/50Hz								

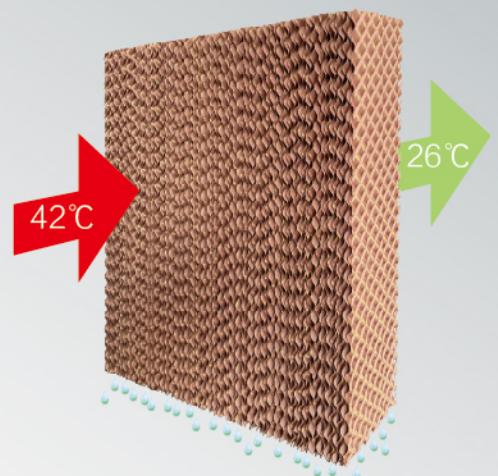
Air temperature after plastic evaporative cooling pad																
Air temperature before plastic evaporative cooling pad	T	rH														
	[°C]	[%]														
50°C	32.2	49														
48°C	30.9	49	33.9	59												
46°C	29.6	49	32.3	59	34.7	67										
44°C	28.2	50	30.9	59	33.1	67										
42°C	26.9	50	29.3	60	31.5	67	33.5	74								
40°C	25.5	51	27.9	60	29.9	68	31.8	74	33.4	80						
38°C	24.1	52	26.3	60	28.3	68	30.0	74	31.6	80	33.1	85				
36°C	22.8	52	24.8	61	26.7	68	28.4	74	29.9	80	31.3	85	32.6	89	33.8	93
34°C	21.4	53	23.3	61	25.1	68	26.6	75	28.1	80	29.4	85	30.7	89	31.9	93
32°C	20.1	53	21.8	61	23.5	68	25.0	75	26.4	80	27.6	85	28.9	89	29.9	93
30°C	18.7	53	20.4	61	21.9	68	23.3	75	24.6	80	25.8	85	26.9	89	28.1	93
28°C	17.3	54	18.8	62	20.2	69	21.6	75	22.8	80	24.0	85	25.1	89	26.1	93
26°C	15.9	54	17.4	62	18.6	69	19.9	75	21.0	80	22.2	85	23.2	89	24.2	93
24°C	14.5	55	15.8	63	17.0	69	18.2	75	19.3	80	20.3	85	21.3	89	22.3	93
22°C	13.1	55	14.3	63	15.4	69	16.5	75	17.6	80	18.5	85	19.5	89	20.3	93
20°C	11.7	56	12.8	63	13.8	70	14.8	75	15.8	80	16.7	85	17.6	89	18.4	93
	10%	20%	30%	40%	50%	60%	70%	80%								
Air condition behind plastic evaporative cooling pads																

Air velocity of 1.5 m/s, water volume surface of 120 ( min · m<sup>2</sup> ), 12Pa

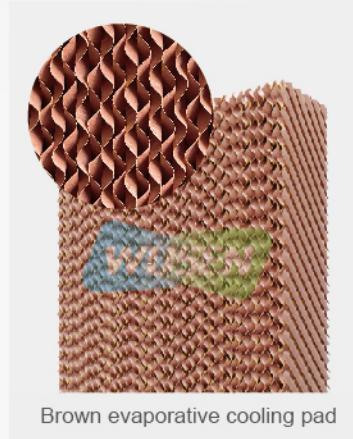


# EVAPORATIVE COOLING PAD

- ◆ Special treatment of corrugated paper, high structural strength, corrosion resistance, and long service life;
- ◆ Has excellent permeability and water absorption, which can ensure that water evenly penetrates the entire evaporative cooling pad wall;
- ◆ The specific three-dimensional spatial structure provides the maximum evaporative surface area for heat exchange between water and air;
- ◆ The outer frame is available in PVC, aluminum alloy, and galvanized sheet.
- ◆ The cooling process of the Wusen evaporative cooling pad cooling system is completed within the base core WUSEN evaporative cooling pad. There is a thin layer of water film on the surface of the corrugated fiber paper. When the outdoor dry and hot air is sucked through the cooling pad by the fan, the water on the water film will absorb the heat in the air and evaporate into the water vapor. After treatment, the cool and humid air enters the room. This natural process is like the wind blowing over the water.
- ◆ The vertical ventilation cooling combination of evaporative cooling pad and fan is the most economical and effective greenhouse summer cooling measure.



Green evaporative cooling pad



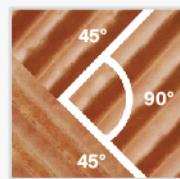
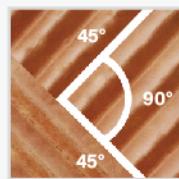
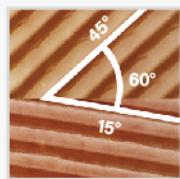
Brown evaporative cooling pad



Black evaporative cooling pad

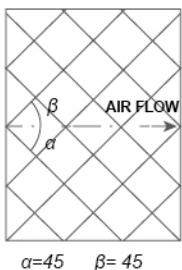
## Product specifications

Model	Height(mm)	Width(mm)	Thickness(mm)	Aperture	Angle
7090	1500/1800/2000/Customization	300/600/Customization	100/150/200/Customization	7mm	45°/45°
7060	1500/1800/2000/Customization	300/600/Customization	100/150/200/Customization	7mm	15°/45°
5090	Customization	Customization	Customization	5mm	45°/45°

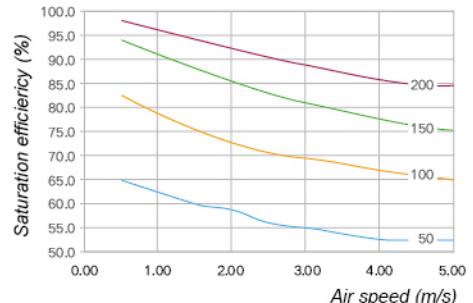
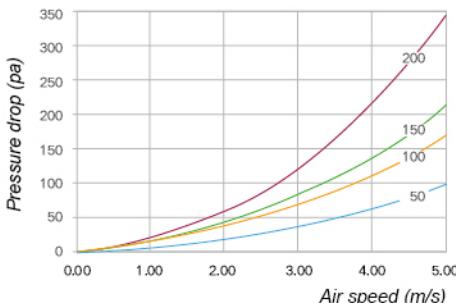


## 1 TYPE 7090/4545/~7

Suitable for application conditions where a good balance between humidification efficiency and pressure drop is required.

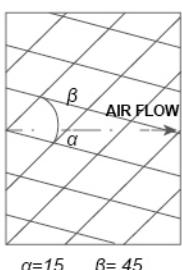


$\alpha=45$   $\beta=45$

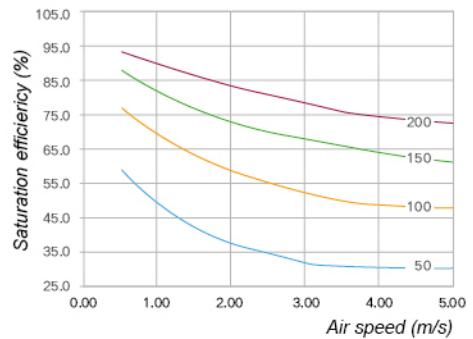
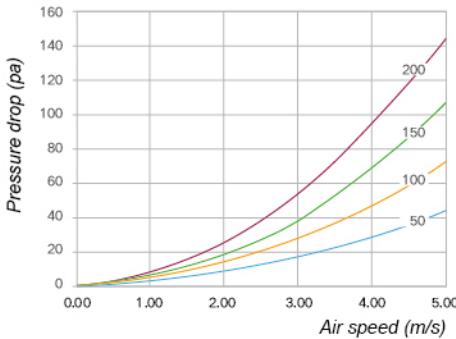


## 2 TYPE 7060/1545/~7

Particularly suitable where low pressure drop as well as reasonable humidification efficiency are required.

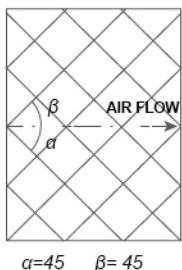


$\alpha=15$   $\beta=45$

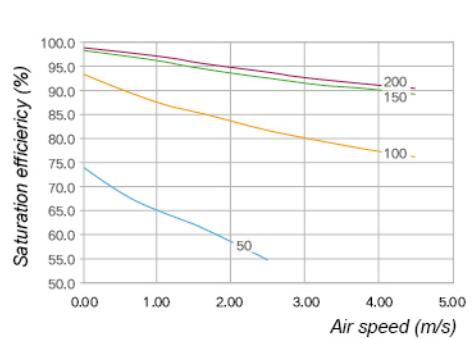
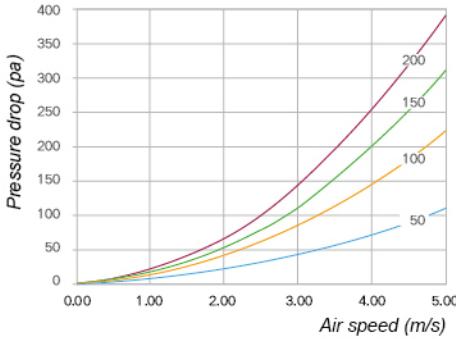


## 3 5090型/角度4545/波峰5

Suitable for application conditions where a good balance between humidification efficiency and pressure drop is required.

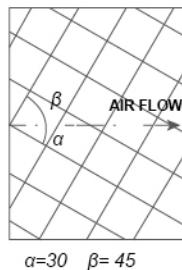


$\alpha=45$   $\beta=45$

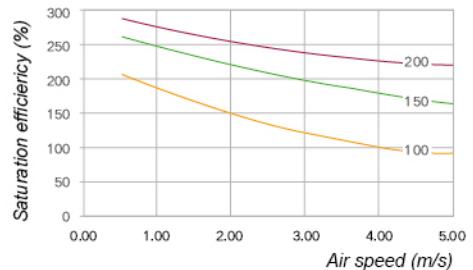
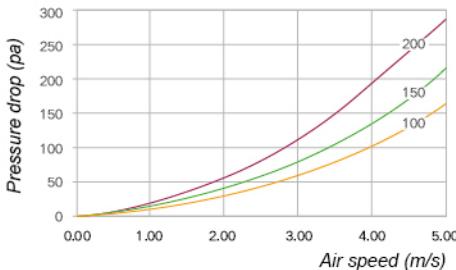


## 4 TYPE 7090/3060/~7 (version available on request - MOQ required)

Suitable for application conditions where a good balance between humidification efficiency and pressure drop is required.



$\alpha=30$   $\beta=45$



Note: risk of drops ejection in case of air speed through the pads > 3 m/s.

# FARM AIRCLEAN - WUSEN-5S

## BIOLOGICAL AIR CLEANING



Deodorization gutter

### Quick installation & easy construction

On site installation is fast, construction is very convenient, and at the same time, it saves shipping costs, time, and effort. Compared with infrastructure construction, it can move quickly, is not easy to waste, and saves construction costs.

### New raw materials

Acid and alkali resistant, resistant to the erosion of various chemicals, no need to worry about corrosion during use.

### Fine workmanship resistant to impact and impact

Plastic deodorizing water tank has bending resistance and strong impact toughness, which is not easy to break or damage.

### Save construction costs

Compared to brick masonry and concrete pouring water collection tanks, it greatly reduces labor costs and can save about 2-3 times labor costs.



# GRID DEODORIZATION FILTER MATERIAL



Three levels  
are available:



## WUSEN Deodorizing filter material

Whether the deodorization system can work stably and efficiently is closely related to the filter material. Its core lies in whether the structure design is reasonable, the characteristics of raw materials, and the maturity of processing technology.

### Core functions

The multilateral structure is both hydrophobic and breathable

After thousands of tests, the filter material structure finally adopts the superimposed multilateral structure, which has good hydrophobicity, moisture retention, air permeability and other characteristics.

### Stable performance of polymer materials

The raw material is high-strength copolymer PP polymer material, which has the characteristics of aging resistance, acid and alkali resistance, corrosion resistance and flame retardance.

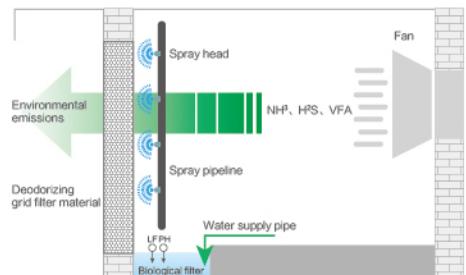
### Made by one-time stamping

It is made by using advanced stamping machine and one-time high temperature stamping, with solid structure, strong pressure resistance, smooth surface and easy cleaning.

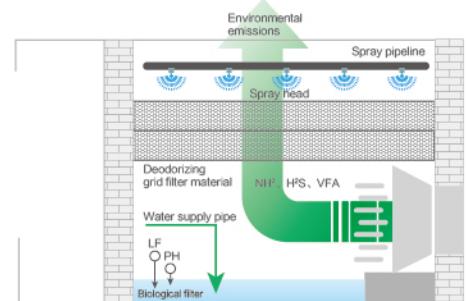


Entry Name	Parameter
material quality	PP
Overall height	600mm and 908mm
Assembly requirements	Snap fit in place
Specs	Thickness: 450mm and 250mm
Density	21.3kg/m <sup>3</sup>
Working temperature	-40°C-90°C
Working humidity	Humidity has no effect
Yield stress	35.73
Heating change rate	< 0.2%
Vicat softening temperature	148°C
Heat resistance	No embrittlement within 24 hours at 112 °C
Flame retardancy	V0 level V2 level non flammable
Falling hammer impact	6.86/7.61
By means of	Sloping channel with splashing droplets
Channel width	20mm
Specific surface area	125m <sup>2</sup> /m <sup>3</sup>
Porosity	> 97%
Gas-liquid ratio	0.1-0.3L/m <sup>3</sup> , 1.5m/s win
service life	>20 years

### Deodorization mode



Schematic diagram of horizontal ventilation deodorization mode



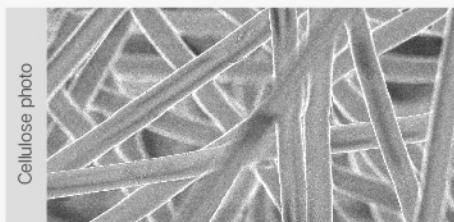
Schematic diagram of vertical ventilation deodorization mode

# AIR FILTRATION SOLUTION FOR FARMS



## G4 folding pre filter

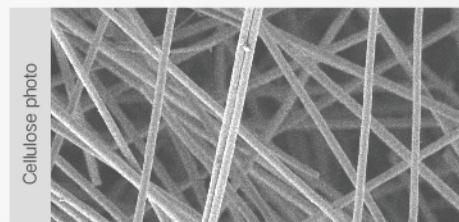
Type: Pleated Pre-Filter with Paper Frame  
 Filter Material: Cotton Fiber Blended Material  
 Outer frame material: galvanized outer frame/aluminum alloy/high moisture resistant cardboard outer frame  
 Suggested final resistance: 250pa  
 Continuous and stable operating temperature: not higher than 80 °C  
 Moisture resistance: 90% RH



2μm EHT=2.00kV Signal A=SE2 WD=4.6mm

## Sub efficient filter 4V

Type: Sub efficient filter 4V  
 Filter material: Glass fiber filter paper  
 Outer frame material: ABS plastic assembled outer frame  
 Partition: Hot melt adhesive  
 Sealing glue: polyurethane  
 Suggested final resistance: 500pa  
 Continuous and stable operating temperature: not higher than 90 °C  
 Moisture resistance: 90% RH



10μm EHT=2.00kV Signal A=SE2 WD=4.6mm

## G4 folding pre filter technical parameter

Series	Width*Height (mm)	Depth (mm)	Filter classification			Operating air flow (CMH)	Initial pressure drop (Pa@1.0m/s)	Net weight (Kg)
			ASHRAE (52.2-1995)	EN779: 2012	ISO16890: 2016			
Wusen-G4	592*592	45	MERV8	G4	92%	1000	16	0.6
Series	Width*Height (mm)			Depth (mm)		Net weight (Kg)		
Filter installation frame-70	610*610			70		2		
Filter installation frame-95	610*610			95		2.8		

## Sub efficient filter 4V technical parameter

Series	Width*Height (mm)	Depth (mm)	Filter classification			Operating air flow (CMH)	Initial pressure drop (Pa@1.0m/s)	Net weight (Kg)
			ASHRAE (52.2-1995)	EN779: 2012	ISO16890: 2016			
Wusen-4V	592*592	292	MERV15	F9	ePM1=85%	1000	23	7.2
Wusen-4V	592*592	292	MERV16	H10	95% 0.3μm	1000	30	7.3

# POSITIVE PRESSURE VENTILATION FILTER

## Product features

High integration, built-in mosquito net, primary filtration, sub high efficiency filtration, fan;

4 functions in one, small footprint, can be placed indoors or outdoors independently;

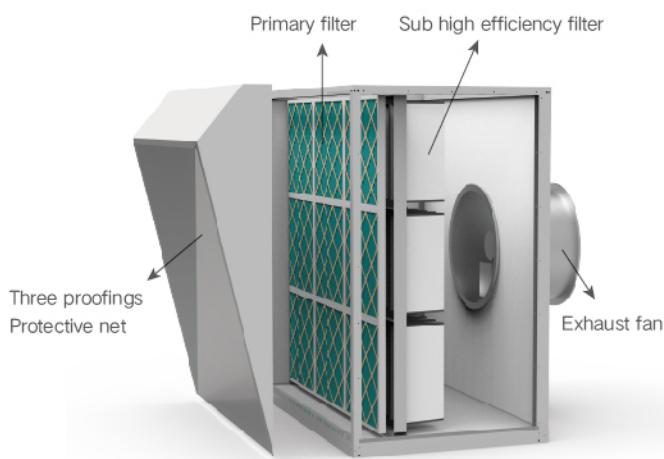
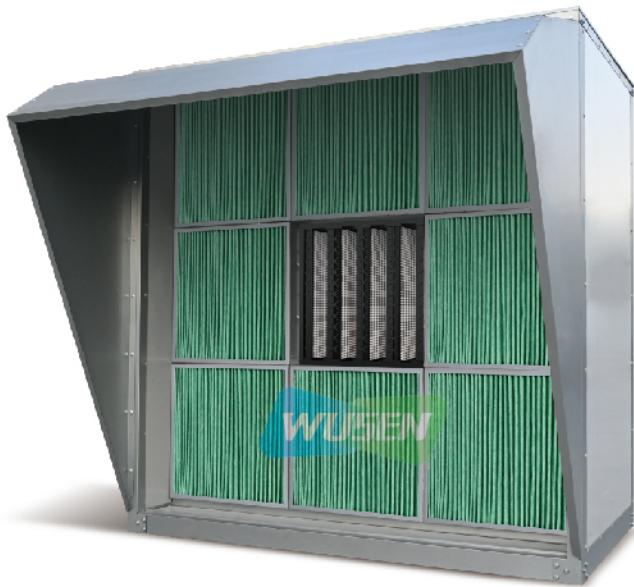
Low maintenance and operation costs, providing higher-level protection for pig pens;

Positive pressure ventilation creates a micro positive pressure of 15-20Pa in the pigsty, which is precise and controllable, without any rogue winds;

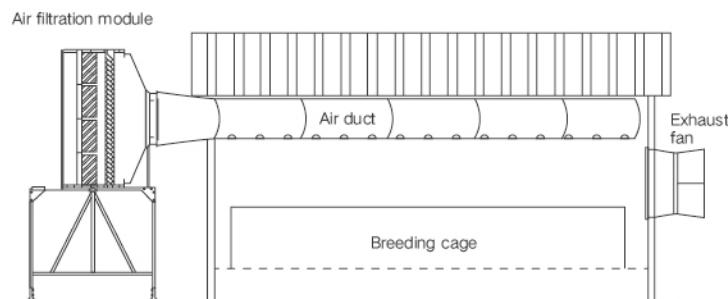
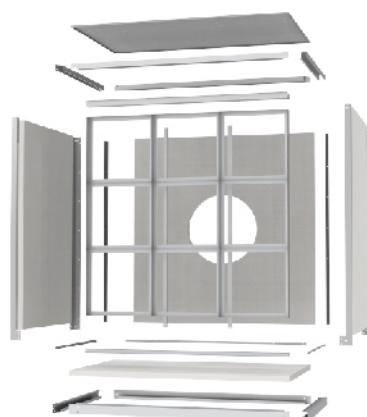
Air can only flow in one direction through filtration, with low sealing requirements for pig pens, reducing the risk of infection for pigs;

The ventilation rate is 20% higher than the average of peer products, and the air supply is uniform;

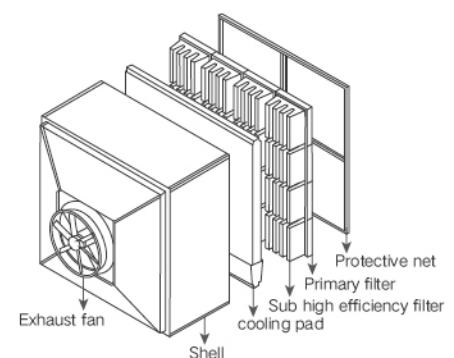
The air filter element has excellent hydrophobic performance, the box is resistant to low temperatures, has insulation effect, is rainproof and waterproof, and is suitable for breeding on various farms.



Composition of box structure



Schematic diagram of typical structural types of seasonal filtering modes



Schematic diagram of typical structural types of air filtration modules

# PLASTIC FAN

## Product Overview

The integrated PE shell is more resistant to aging and corrosion, with a service life of up to 20 years.

The efficiency ratio exceeds 85%, and combined with energy efficiency management software, it can reduce energy consumption by approximately 70% and lower operating costs.

It features high reliability, good stability, low noise, and easy maintenance.

Protection class: IP55. It can operate normally even in harsh environments.

Working environment: -40-60°C, relative humidity: 0-95%.

Easy installation: realizes precise control of the environment in livestock and poultry houses.

The internationally advanced fan blade design is resistant to high and low pressure, providing greater air volume with lower noise.

### 50 inch Plastic fan (AC motor)

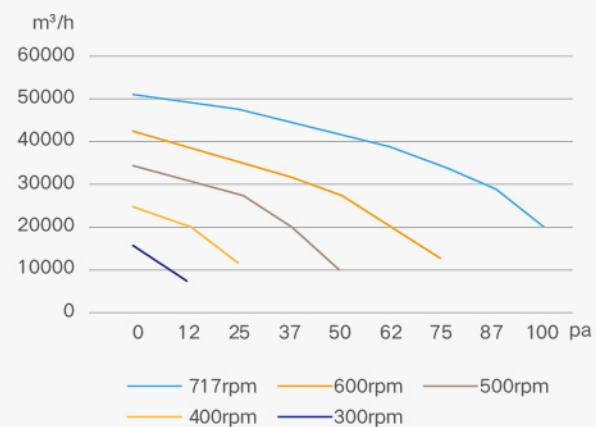
Voltage	380 V
Number of phases	3~
Frequency	50 Hz
Rotational speed	690 RPM
Power	1500 W
Rated current	6.0 A
Protection grade	IP55
Fan blade	3
Fan size	1515*1515*1310 mm
Hole size	1455*1455 mm

### 50 inch Plastic fan (EC motor)

Voltage	380 V
Number of phases	3~
Frequency	50 Hz
Rotational speed	720 RPM
Power	1500 W
Rated current	4.3 A
Protection grade	IP66
Fan blade	3
Fan size	1515*1515*1310 mm
Hole size	1455*1455 mm



Static pressure(Pa)	Air volume (m³/h)	Electric current (A)	Voltage (V)	Power (W)	Efficiency (m³/hr)/W
0	48764	4.78	390	1703	28.63
12	46496	4.83	390	1752	26.53
25	43992	4.89	392	1802	24.41
37	41478	4.94	393	1839	22.55
50	38335	4.96	392	1870	20.5
62	35240	4.99	393	1898	18.57
75	30932	4.97	392	1898	16.3
87	25087	4.93	392	1858	13.5
100	18049	4.92	393	1846	9.78



# AXIAL HIGH-PRESSURE FAN

## 710 high-pressure axial flow fan

The high-pressure axial flow fan adopts a high-quality plastic shell, thickened body, impact resistance, cold and high temperature resistance.

Equipped with a pure copper motor, it has low load, low energy consumption, high efficiency and energy saving, and strong power.



WUSEN-710

## 910 high-pressure axial flow fan

The fan has a novel structure, beautiful appearance and superior performance. It has the characteristics of high temperature and high humidity resistance, large air volume, high wind pressure, low noise, high efficiency and energy saving, and convenient maintenance.

This series of products adopts a direct connection structure, in which the impeller is directly installed on the motor shaft at 1450r/min

Due to different numbers, different diameters of impellers, adjustable blade installation angles, speed of spindle speed, etc., the air volume, air pressure and power consumption are also different.



WUSEN-910

# HCIO GENERATING SYSTEM



## Product features

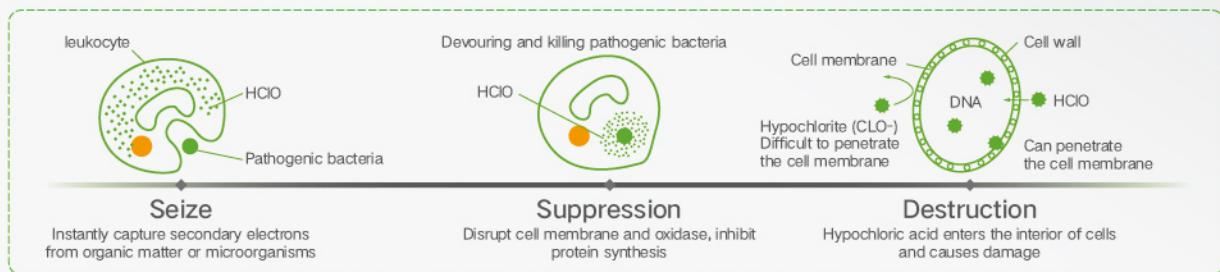
Add an appropriate amount of low concentration dilute hydrochloric acid and sodium chloride aqueous solution into a diaphragm or non diaphragm electrolytic cell, and generate chlorine gas and H<sup>+</sup>at the anode through electrolysis, H<sup>+</sup>dissolves in water to make it acidic, with a pH of 5.0-6.5. Chlorine reacts with water to produce hydrochloric acid and hypochlorous acid (HClO).

## Sterilization principle

Hypochlorous acid water (HClO) has strong oxidation ability. After coming into contact with microorganisms, it quickly destroys the cell membrane of harmful microorganisms, preventing the normal biochemical activity of proteins and DNA inside the cells, leading to microbial death and achieving bactericidal effect.

## HClO Deodorization principle

The effective component of hypochlorous acid water is hypochlorous acid, which is a strong oxidizing weak acid. Through oxidation, hypochlorous acid can quickly decompose ammonia and hydrogen sulfide produced in pig farms. Spraying 100ppm hypochlorous acid water on the back of manure ditches and fan outlets can effectively deodorize and sterilize.



## Breakthrough technical difficulties

The nanoscale ceramic membrane in the electrolytic cell has a smaller pore size, which better separates Na<sup>+</sup>and Cl<sup>-</sup> and ensures the generation of high-purity hypochlorous acid. The electrodes of the new generation electrolytic cell are made of composite rare metals, which not only extends the service life of the electrolytic cell, but also increases the maximum concentration of the Wusen hypochlorous acid solution from 200mg/L and 500mg/L to the current 750mg/L, with broader prospects for use and providing customers with longer-term services.

## Usage scenario of hypochlorite generator

Green Agriculture: Livestock breeding, poultry breeding, greenhouse deodorization, Horticultural planting; Food processing: Fruit and vegetable processing, meat processing, sterilization and preservation, Beer and dairy industry; Water treatment: Domestic and production water, cooling circulating water, Pool water, wastewater treatment; Disinfection and sterilization: Disinfection of schools, hotels, shopping malls, stations, airports etc.



# INTELLIGENT LIVESTOCK SPRAY DISINFECTION AND COOLING SYSTEM



The water treated by softening water equipment and filters enters the spray system and is diluted with Wusen deodorizer in a certain proportion. It is then pressurized by a high-pressure plunger pump and transported to the pipeline. Through a high-pressure atomizing nozzle, small droplets ( $\leq 40\mu\text{m}$ ) are formed and sprayed out, which are fully mixed and contacted with the odor discharged from the fan outlet to achieve the deodorizing effect.

## Intelligent spray system

Through the intelligent linkage system control, the operation status of each fan is collected and transmitted to the intelligent control system. In the linkage state, the automatic judgment and adjustment of the start stop and atomization volume of each fan port are carried out, which saves water, electricity, and liquid, and operates economically, greatly reducing the cost of odor control for enterprises.

- ◆ Raising of humidity to any desired level(greatest comfort between 60 and 70% relative humidity).
- ◆ Effective dust binding: Positive influence on the respiratory organs of the animals, less use of medication.
- ◆ More active animals due to species-appropriate climate, even at high outside temperatures.
- ◆ WUSEN medicator for spraying of active solutions [prevention/curing of respiratory diseases].
- ◆ Connection via WUSEN controls also to other climate computers and thus fully automatic operation of several houses possible.



Product name	Model specifications
High pressure spray host	Siemens 5.5KW/4-stage direct connection Italian Intel 50L high-pressure pump Schneider switch/West door contactor Voltage: 380V speed: 1450 revolutions per minute Pressure regulating range of high-pressure pump: 0-160 kg Chassis: Stainless steel chassis (size: 950*620*1120) Dual filtration/time control/water shortage protection/power-off protection/undervoltage protection/automatic water inlet/dual outlet, including frequency converter, dosing device, 4T ultrafiltration filter
Spray pipeline	PE spray tube/9.52mm, 304 stainless steel spray tube/9.52mm, brass nickel plated body three-stage filter cotton stainless steel sheet nozzle
Fixings	Pipeline fasteners
Linkage controller	Including 8 signal collectors, 8 receivers, and corresponding 8 solenoid valves
Intelligent control box	IoT water meter IoT electric meter Stainless steel intelligent control box, PLC with touch screen, local reading, remote data reading

# LOUVER AIR INLET

## Product features

The panel of the all-plastic insulated louvered air inlet is composed of a four-layer hollow PC (polycarbonate) insulated sun panel. It is equipped with adjustable louvers that can be adjusted between 0° and 105° for both daylighting and light shading purposes, allowing flexible control of the indoor ventilation volume. This product can be used for guiding and introducing air through the side walls of livestock farms, and also for heat preservation at the air inlets and outlets of fans.

The louvers have a width of 163mm and a thickness of 20mm, featuring a stable structure. Each layer of louver is equipped with a sealing strip, which further enhances the heat preservation effect, improves the overall airtightness, reduces heat loss, and prevents the intrusion of external impurities.

The entire product is made of all-plastic material, which has excellent anti-oxidation and corrosion resistance properties. It can resist erosion from harsh environments such as humidity, acids, and alkalis, making it suitable for the high-humidity and high-corrosion application scenarios of livestock farms.



## Technical Parameter

Layers	External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	
5	967mm	867mm	880mm	
6	1130mm	1030mm	1040mm	
7	1293mm	1193mm	1210mm	Width of blinds Customizable
8	1456mm	1356mm	1370mm	
9	1620mm	1520mm	1530mm	

Note: 1. The width can be adjusted according to the actual situation, and the optimal width is 110–130cm.  
2. The size of the opening should be 10mm larger than the size of the inner frame.

# AUTOMATIC OPENING OF SIDEWALL AIR INLET

## Product features

It enables sensitive and convenient opening and closing, automatically maintains the air pressure difference between indoor and outdoor environments (the auto-opening pressure is freely adjustable), and can soften strong external light.

The panel is made of materials from well-known domestic brands, which have excellent light transmittance and are not prone to deformation. The rotating shaft is made of solid stainless steel round rods, ensuring stable and reliable opening and closing.

This product is suitable for guiding and introducing air through the side walls of livestock farms.

## Material

It is made of PVC plastic steel and ABS engineering plastic, featuring UV resistance and anti-aging properties, which ensures a long service life and durability. The buckles are made of high-strength alloy plastic, boasting strong impact resistance. The rotating shafts are made of stainless steel, enabling stable and reliable opening and closing.

Its dimensions can be customized to meet different ventilation requirements.



## Technical Parameter

Layers	External dimensions (mm)	Installation dimensions (mm)
3 layer	940mm	840mm
4 layer	1220mm	1120mm
5 layer	1500mm	1400mm
6 layer	1780mm	1680mm



# MULTI LAYER LARGE BOARD AIR INLET

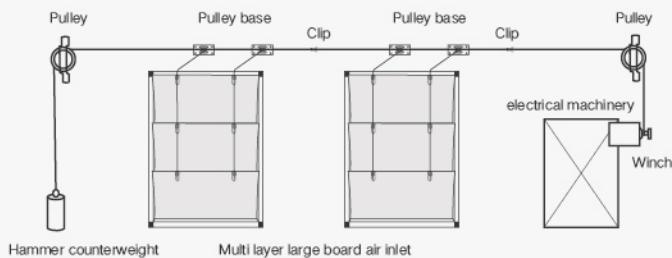
## Product features

The multi-layer air inlet is made of PVC plastic steel material, with high strength, strong toughness, anti-aging, no deformation at high and low temperatures, and long service life; It is sensitive and convenient to open and close, with a large ventilation volume, quiet and reliable opening and closing, and will not disturb livestock and poultry. It can be used for side wall ventilation in pig houses, chicken houses and other breeding farms.

From the perspective of full-scenario adaptation and risk prevention and control, it is strongly recommended to equip both a manual winch and an electric push rod at the same time. Through "dual-power complementation", full functional coverage can be achieved.



## Installation Diagram



## Technical Parameter

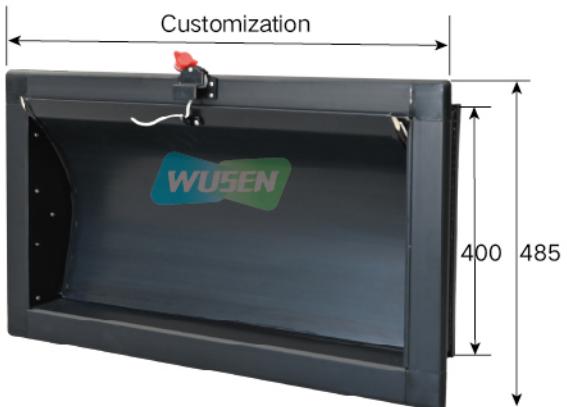
Layers	External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)
1 layer	489mm	389mm	404mm
2 layer	868mm	768mm	783mm
3 layer	1247mm	1147mm	1162mm
4 layer	1626mm	1526mm	1541mm
5 layer	2005mm	1950mm	1920mm
6 layer	2384mm	2284mm	2299mm

Note: 1. This size is a fixed height size, and the width can be customized according to demand.  
2. The size of the opening is 10mm larger than the installation size.

# SIDE WALL AIR INLET

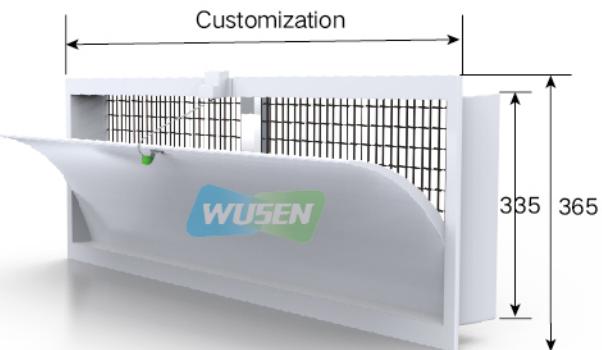
## 400 air inlet

The air inlet of the side wall is made of PVC plastic steel, with high strength, strong toughness, anti-aging, no deformation at high and low temperatures, and long service life; It is sensitive and convenient to open and close, with a large ventilation volume, quiet and reliable opening and closing, and will not disturb livestock and poultry. It can be used for side wall ventilation in pig houses, chicken houses and other breeding farms.



## 340 air inlet

The air inlet of the side wall is made of PVC plastic material, with high strength, strong toughness, anti-aging, no deformation at high and low temperatures, and long service life; Sensitive and convenient opening and closing, large ventilation volume, quiet and reliable opening and closing, will not disturb livestock and poultry, and can be used for ventilation on the side walls of livestock and poultry houses.



## Product features

- ◆ The fan blades are made of PVC, and the outer frame is made of PVC;
- ◆ Two side baffles, pulley ABS;
- ◆ Bird proof net PP, fixed bracket stainless steel; ABS plug, screws made of stainless steel or nylon;
- ◆ Side opening installation, flexible and easy to use, with customizable air volume and length.

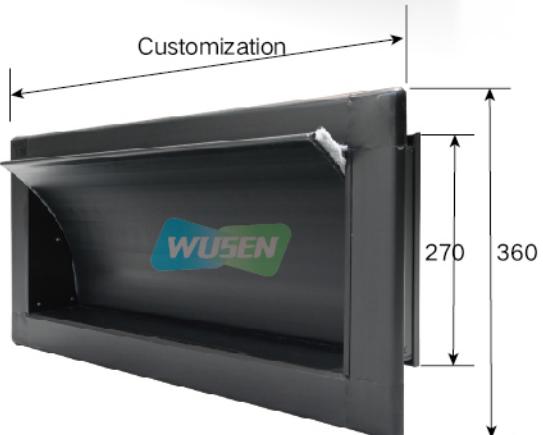
## 270 air inlet

The frame and fan blades are made of PVC, which is UV resistant, anti-aging, cold proof, heat insulated and durable.

The curved large plate fan blades can be adjusted to any open state, allowing for free adjustment of air volume for better performance.

Specially added high-quality insulation layer, both opening and closing can achieve the best state. Equipped with sealing strips on both sides, it can effectively prevent heat dissipation and achieve a tighter sealing effect.

Side wall installation, can be automatically or manually controlled.



## Technical Parameter

Product Name	External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Cube meter hour (m³/h)
400 air inlet	850mm*500mm*125mm	750mm*400mm	760mm*410mm	3780m³/h
340 air inlet	800mm*365mm*110mm	750mm*335mm	760mm*345mm	2200m³/h
270 air inlet	720mm*360mm*130mm	630mm*270mm	640mm*280mm	1200m³/h

Note: 1. Any length can be customized.

# POULTRY AIR INLET

## Product Overview

ABS material, thickened board, high cost-effectiveness; Breathable and fast cooling;

Install protective nets to effectively prevent the invasion of insects and birds, ensure sufficient dryness and freshness, smooth air circulation, and ensure comfort and safety inside;

Strong wind, rejecting stuffiness;

Sealed tightly, with a reasonable structure and flexible opening.

The special design of the top and edges of the ventilation window provides better sealing when closed. Can be equipped with a deflector.



## Product Features

Ideal supply of fresh air with negative pressure ventilation;

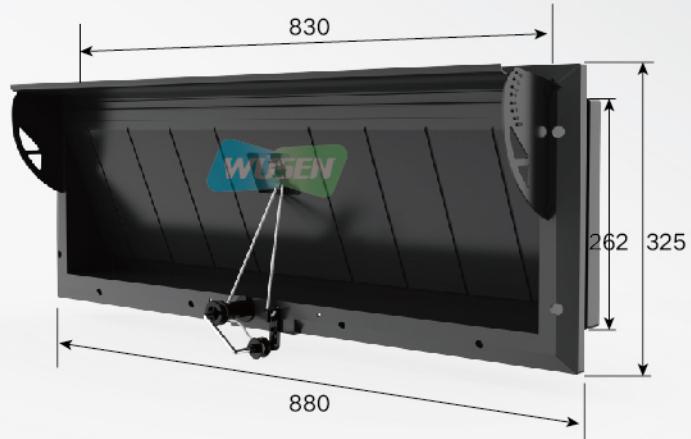
Advanced inlet control creates stable air jets, especially with minimum ventilation;

Strong tension springs close the insulated and non-deformable inlet flap so the building is airtight;

The inlet opening is controlled precisely by strong tension springs: stable air circulation throughout the house, uniform temperatures in the entire house while heating requirements remain low;

The use of high-quality materials ensures a long service life of the inlets;

A high-pressure washer can be used without any concern.



## Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Cube meter hour (m³/h)
600*330*150	550*265	560*275	1800m³/h
880*325*150	830*262	840*272	3000m³/h

# POULTRY AIR INLET

## 908 air inlet

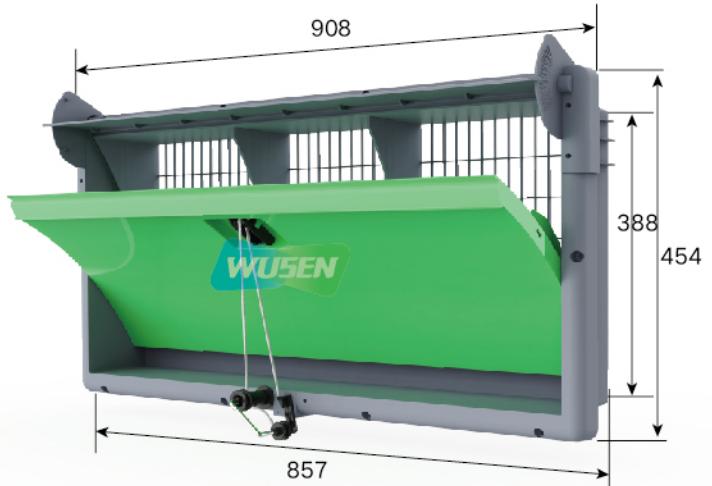
Due to its capacity it is used in low quantities in the house which keeps in minimum the isolation losses in the houses. The special design of the door guides the air flow. Ventilation of the poultry houses can be made more economically with the increased airflow capacity of wusen Air Inlet. Ilgaz air inlet's flap also has an insulation material and aluminum profile for maximum strength.

### Advantages

Less mounting holes through big dimensions, less isolation problem

Opening and closing options from inside and outside of house

Providing minimum ventilation all the time with the option of adjusting



### Common specifications

- ◆ Manufactured from high quality plastic.
- ◆ Isolation foam inside the air inlet door offers high isolation.
- ◆ The handle on the air inlet door lets the user to open the air inlet door in two steps.
- ◆ Stainless steel springs offer perfect air tightness.
- ◆ Aluminum profiles inside the air inlet door.



### Technical Parameter

Product Name	Outer Dimensions (mm)	Flange Dimensions (mm)	Opening size (mm)
908 air inlet	908*454*150	857*388	870*400

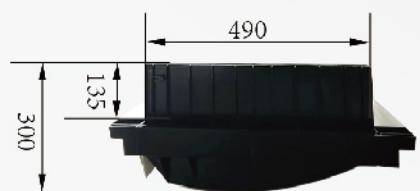
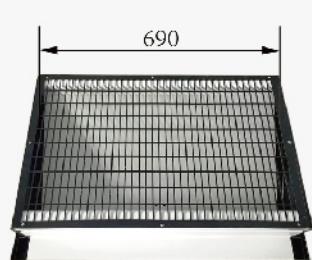
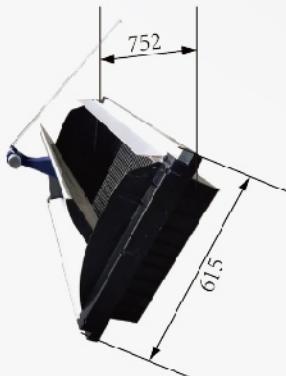
# SIDE WALL AIR INLET

## Product features

The size of the air intake is easier to control and adjust the air volume, and the height and length are more reasonable compared to traditional ventilation windows.

The opening method is self hanging, using the principle of gravity to close, which has a lower failure rate and better closing effect than traditional spring opening.

Good sealing, no ventilation, no light transmission, minimizing the impact of unnecessary wind and light on the production performance of homes and poultry. Better sealing is also more conducive to creating negative pressure and better ventilation.



## Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)
752*615*300	690*490	700*500

Air volume			
10Pa	20Pa	30Pa	40Pa
2400m <sup>3</sup> /h	3350m <sup>3</sup> /h	4150m <sup>3</sup> /h	4800m <sup>3</sup> /h

# BUTTERFLY AIR INLET

## Product features

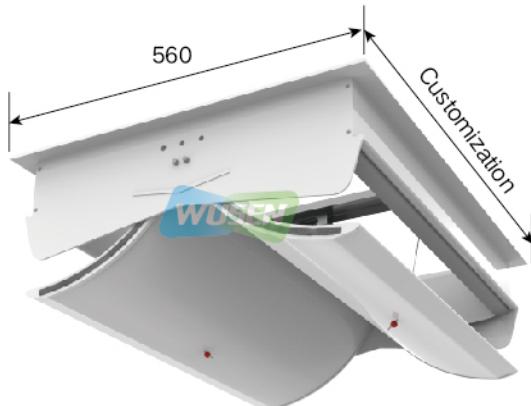
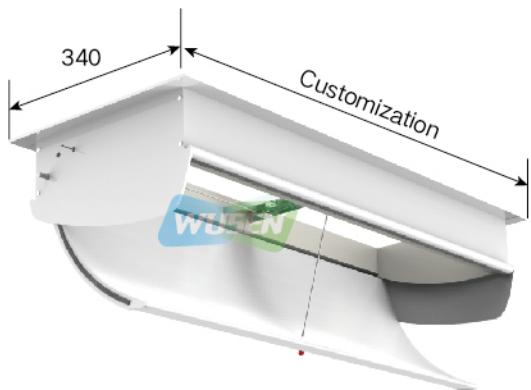
The frame is made of high-quality ABS engineering plastic injection molding, and the side and flap are made of PVC plastic steel, which is UV resistant, anti-aging and durable.

The brand new double door design allows for simultaneous opening of two doors, allowing for adjustable opening status and free adjustment of air volume for better performance.

Specially added high-quality insulation layer, both opening and closing can achieve the best state. If insulation is needed, it can effectively prevent heat dissipation and achieve a tighter sealing effect.

It can be controlled automatically or manually.

Suitable for factories, greenhouses, and large-scale livestock breeding facilities.



## Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Cube meter hour (m³/h)
730*560*160	680*500	4100
800*560*160	750*500	4528
1200*560*160	1140*500	7300

Note: 1. Any length can be customized.

# CEILING FOUR-SIDE AIR INLET

## Product Overview

Four sided air intakes for animal husbandry are used for negative pressure ventilation, which automatically opens according to the magnitude of the negative pressure.

## Material

It is composed of frame, blade and foam plate at the bottom made of ABS plastic.

## Advantages

The prolonged maintenance of indoor temperature can significantly alter indoor air circulation;

High temperature resistance, cold resistance, high strength, easy installation;

The ventilation effect is obvious, the service life is long, and it is installed on the top;

Four sides are used for air induction, and the thickness of foam plate is 20mm.



## Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Cube meter hour (m³/h)
790*790*213	660*660	5553

# CEILING INSULATION AIR INLET

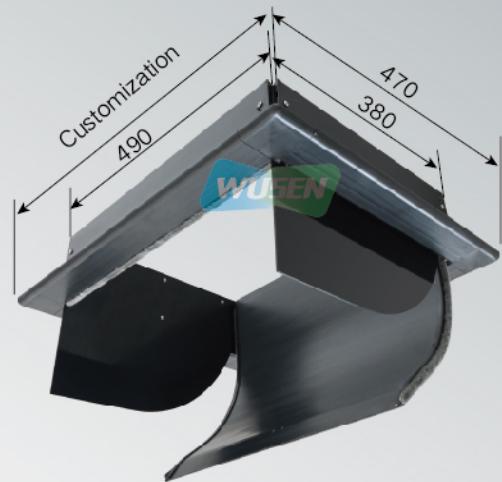
## Product Overview

The frame and fan blade are made of PVC plastic steel, and the deflector is made of high-quality ABS engineering plastic, which is UV resistant, anti-aging, cold resistant, thermal insulation and durable.

The arc-shaped large plate fan blades can be adjusted to any open state, allowing for free adjustment of air volume, resulting in better performance.

Specially added high-quality insulation layer, both opening and closing can achieve the best state. If insulation is needed, it can effectively prevent heat dissipation and achieve a tighter sealing effect.

Top mounted, can be automatically controlled or manually controlled.



## Technical Parameter

Note: 1. Any length can be customized

External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Cube meter hour (m³/h)
580*470*270	490*380	500*390	1200

# DA 1540 CEILING INLET

The DA 1540 is an efficient, compact fresh air inlet for ceiling constructions. The inlet opens by pulling the cord. The ceiling inlet is made of dirt-repellent, easy-to-clean, injection-moulded PS, PA and POM. The inlet is delivered fully assembled. The ceiling inlet consists of an inlet casing, a draw hook with a cord, and an inlet flap.

The ceiling inlet is available in the following variants: DA 1540 ceiling inlet; DA 1540 HP ceiling inlet; DA 1540 chill inlet.

DA 1540 ceiling inlet is used when the ceiling is flat, while DA 1540 HP ceiling inlet has more powerful springs, so it can be used for ceiling pitches up to 15°. DA 1540 ceiling inlet and DA 1540 HP ceiling inlet can be used with advanced inlet control.

DA 1540 chill inlet has the special feature that it can open up to 105° degrees and thus direct the air vertically down the pen. When the inlet is placed near the wall, it can thus create a "chill" effect in the area occupied by the animals when maximum cooling is required.

## Technical Parameter

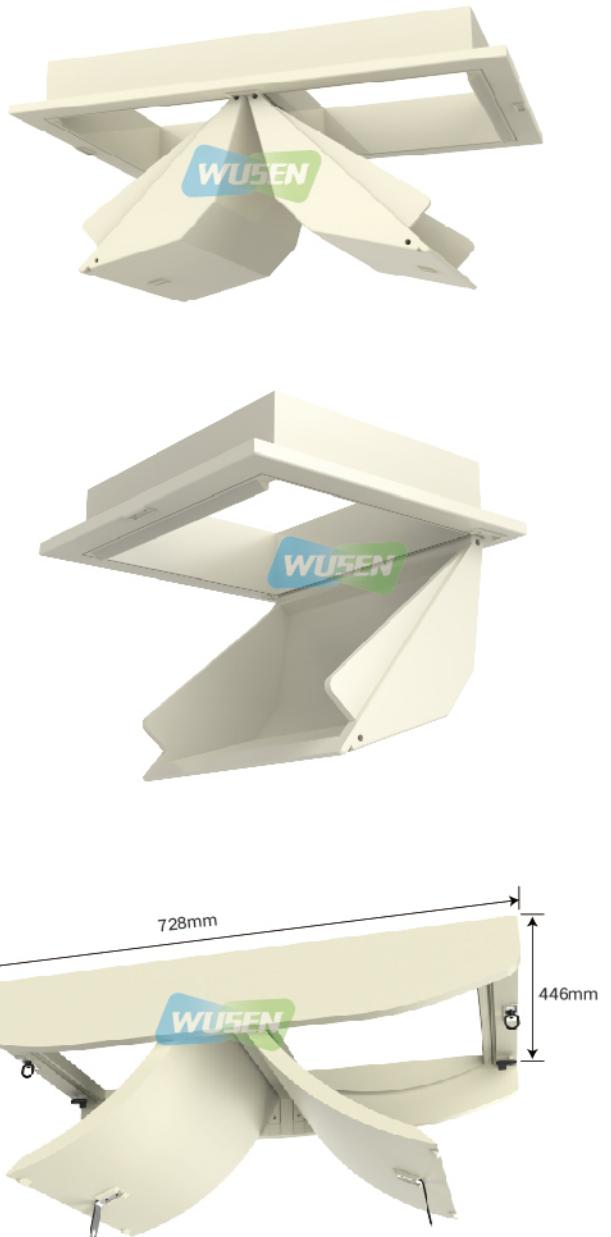
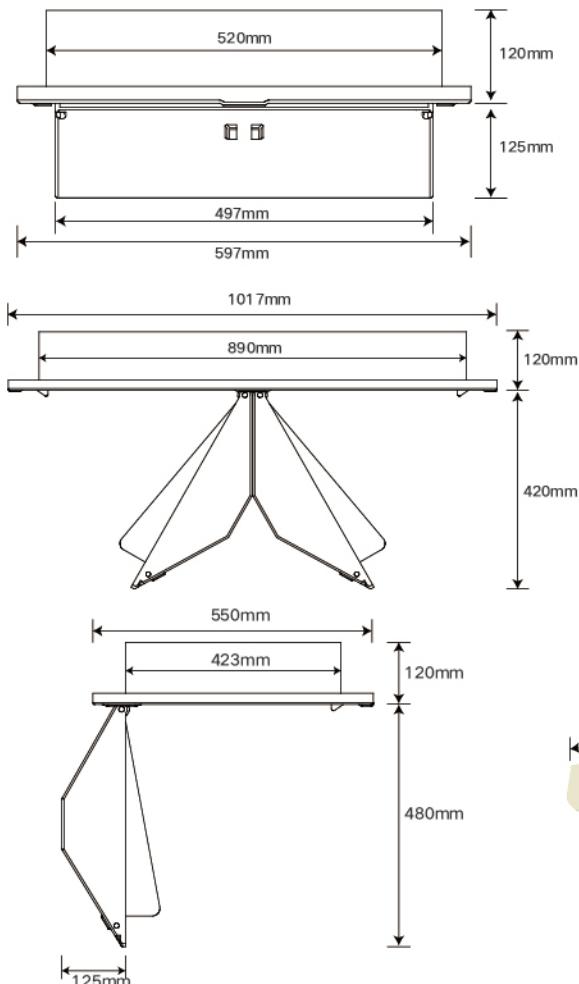
External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Cube meter hour (m³/h)
590*584*729	510*360	520*370	1350



# POLYURETHANE CEILING AIR INLET

## Product Overview

This large ceiling inlet is specially designed for installation in ceilings. The inlet is used to bring air from the attic into the house. Working with ceiling inlets, in turn, helps preheat the incoming air temperature. The entrance is controlled by a central stainless steel accessory. The inlet features the WUSEN designed ridge that guides the airflow along the ceiling for a higher distance.



## Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Cube meter hour (m <sup>3</sup> /h)
550*597*245	423*520	430*530	1250
1017*597*245	890*520	900*530	2516
728*446*100	628*406	628*406	2125

# 800 POLYURETHANE SIDE WALL AIR INLET

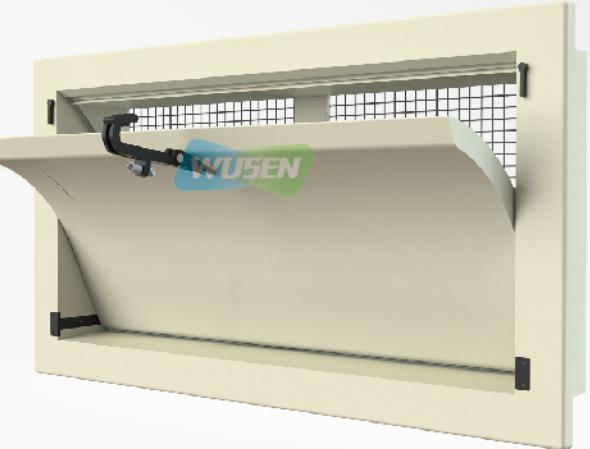
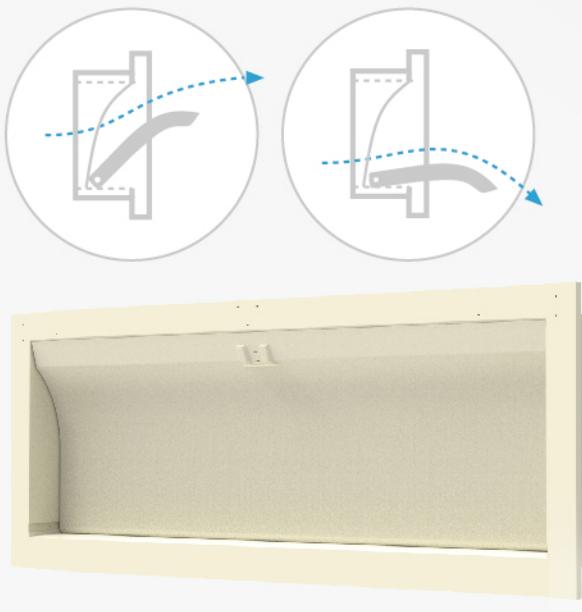
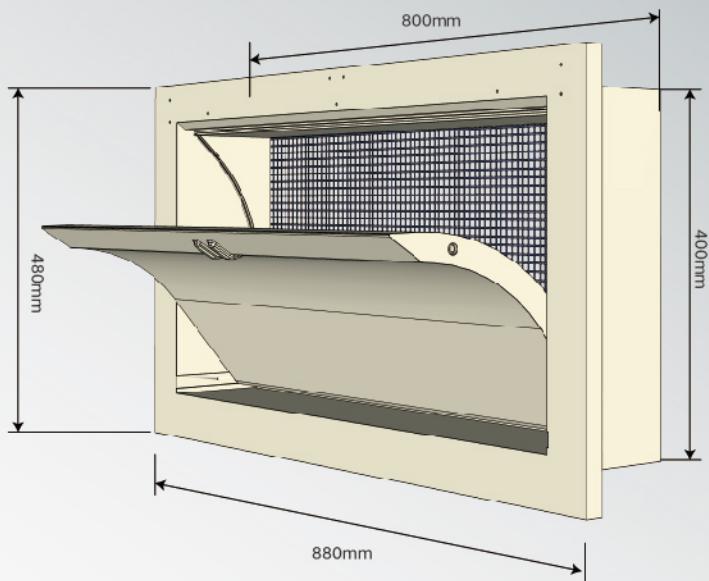
## Product Overview

Polyurethane material, breathable and has good insulation effect. It is not easy to deform after long-term use and has excellent air tightness.

Install bird proof nets to effectively prevent the invasion of insects and birds, ensuring sufficient dryness and freshness, smooth air circulation, and ensuring comfort and safety inside;

Sealed tightly, with a reasonable structure and flexible opening.

The curved guide plate is beneficial for introducing air into the middle part of the building.



## Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Air volume (10 pa)	Air volume (20 pa)	Air volume (25 pa)
880*480*145	800*400	810*410	2050m <sup>3</sup> /h	3536m <sup>3</sup> /h	4265m <sup>3</sup> /h
1280*480*145	1200*400	1210*410	3850m <sup>3</sup> /h	5381m <sup>3</sup> /h	6532m <sup>3</sup> /h
1580*480*145	1500*400	1510*410	5800m <sup>3</sup> /h	7860m <sup>3</sup> /h	8750m <sup>3</sup> /h

# 650 POLYURETHANE SIDE WALL AIR INLET

## Product Overview

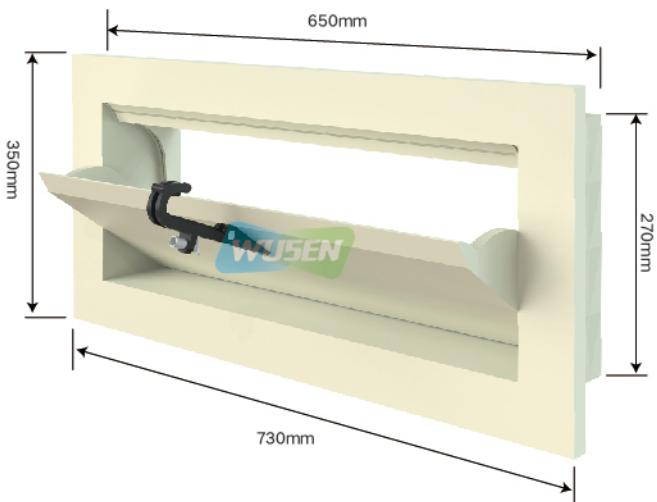
Polyurethane material features good air permeability and excellent thermal insulation. It is not easy to deform after long-term use and has extremely good air tightness.

Installing an anti-bird net can effectively prevent the invasion of insects and birds, ensure sufficient dryness and freshness, allow smooth air circulation, and guarantee indoor comfort and safety.

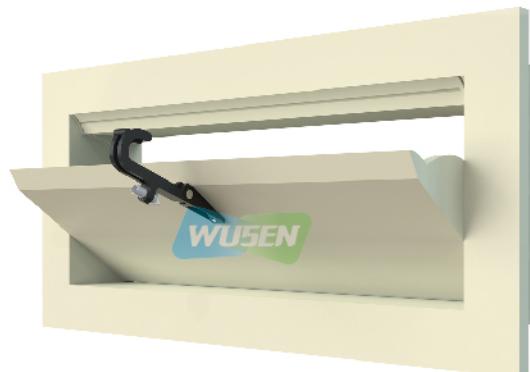
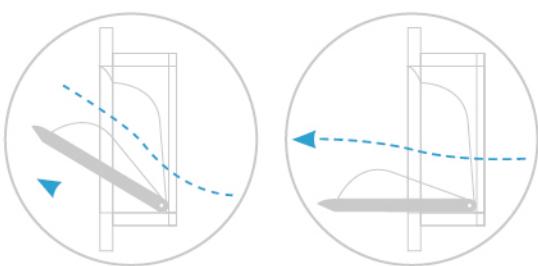
It has a tight seal, a reasonable structure, and can be opened flexibly.

This type of air inlet is suitable for livestock farms. It opens in the middle and is equipped with air deflectors on both sides to guide the wind direction into the house, allowing free adjustment of the wind direction.

**Power Configuration:** It can be equipped with a manual winch or an electric push rod. Usually, we recommend equipping both to enhance the complementarity between manual and electric operation.



## Air flow direction



## 技术参数 Technical Parameter

External dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Air volume 10pa (m³/h)	Air volume 20pa (m³/h)	Air volume 40pa (m³/h)
730*350*120	650*270	660*280	1450	2050	2900

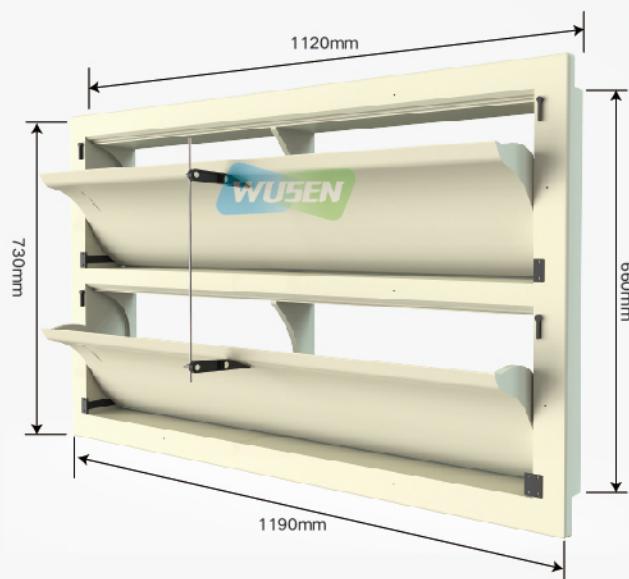
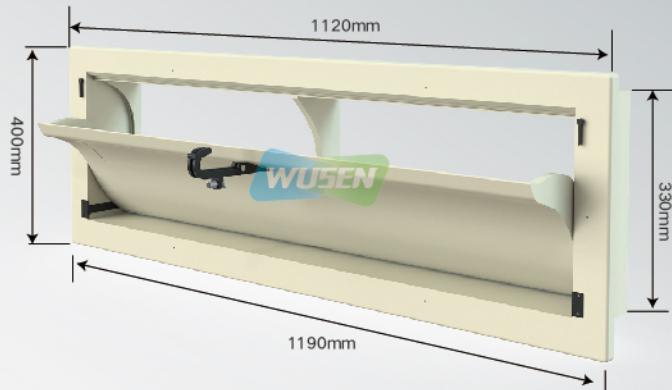
# 1120 POLYURETHANE SIDE WALL AIR INLET

## Product overview

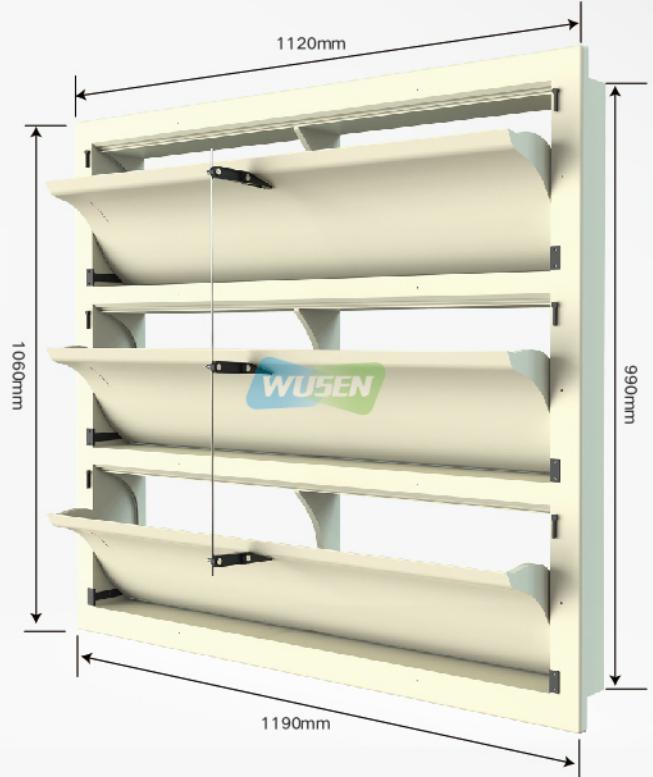
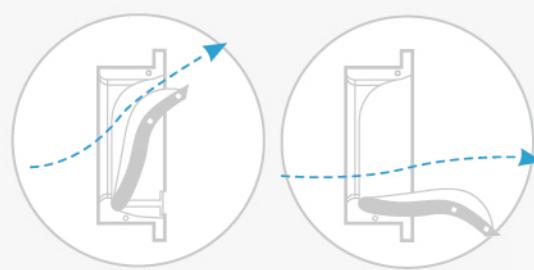
The 1120 polyurethane air inlet is suitable for poultry farms. Its curved fan blades help guide the air, and guide plates are designed on both sides of the fan blades to prevent air leakage. The unique polyurethane formula boasts excellent thermal insulation performance, along with good air permeability.

It is not prone to deformation after long-term use and has excellent air tightness. An anti-bird net is installed to effectively prevent the intrusion of insects and birds, ensuring sufficient dryness and freshness, smooth air circulation, as well as indoor comfort and safety. It features tight sealing, a reasonable structure, and flexible opening.

This type of air inlet is an ideal choice for areas with low-temperature climates.



Air flow direction



## Hard link opening

The air inlet is connected in series by hard connecting rods on the fan blades, which can precisely control the opening direction of each layer of fan blades. A sealing device is added at the bottom of the fan blades, which means that in the early opening stage, air will not flow to the animals under the fan blades. Instead, the air is guided upward into the breeding house.

## Arc-shaped S-plate fan blade

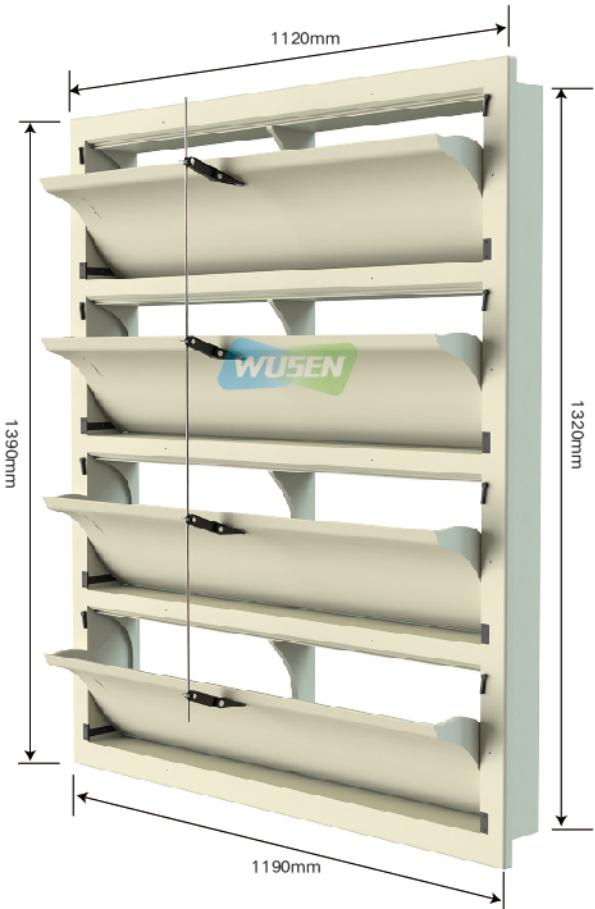
The air inlet is equipped with a curved S-plate fan blade. The curved fan blade guides air upward during minimum ventilation, but also directs air downward when it reaches the maximum opening state. This makes it an ideal ventilation device for breeding houses during the maximum ventilation period.

## Power unit

It can be equipped with a manual winch or an electric push rod. Usually, we recommend equipping both to enhance the complementarity between manual and electric operation.

## The window sash is equipped with a buckle device.

The closing buckles on the fan blades can be used to permanently close the blades. According to different solar terms, the opening state of the fan blades on each layer can be adjusted, and the unused blades can be closed. This helps maintain the temperature inside the house. For example, during hot summer days, all blades can be opened.



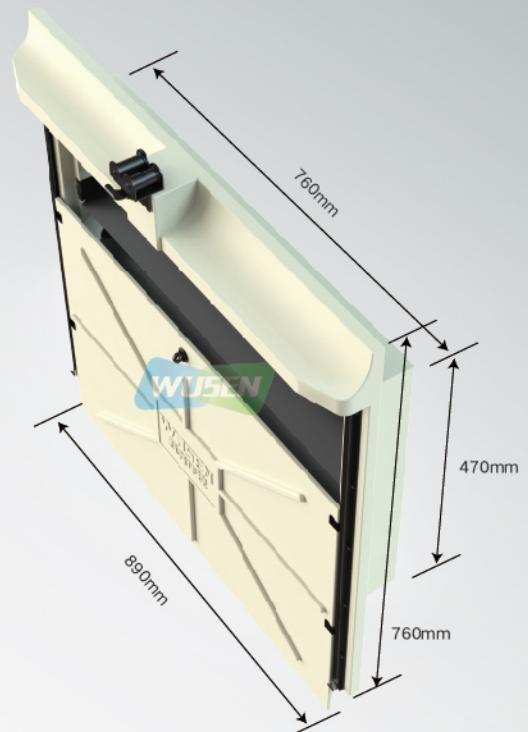
## Technical Parameter

Model	Overall dimensions (mm)	Installation dimensions (mm)	Opening size (mm)	Air volume 10pa (m³/h)	Air volume 20pa (m³/h)	Air volume 40pa (m³/h)
First floor	1190*400*140	1120*330	1130*340	3480	4900	6950
Second floor	1190*730*140	1120*660	1130*670	6960	9800	13900
Third floor	1190*1060*140	1120*990	1130*1000	10440	14700	20850
Fourth floor	1190*1390*140	1120*1320	1130*1330	13920	19600	27800

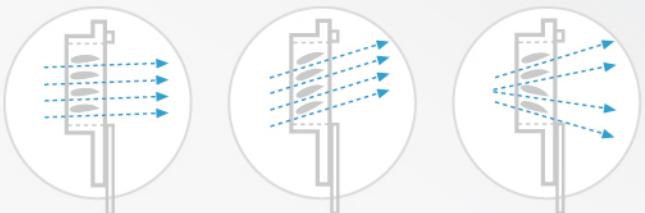
# EXHAUST AIR CHIMNEYS

## Product overview

The polyurethane sliding plate window is designed for very spacious breeding houses or those with obstacles. Thanks to the adjustable shutters, the air flow can be directed to any desired direction, regardless of the required capacity. With the unique slider and guide rail, we ensure that the special-shaped sliding plate at the entrance will never get stuck. The two quick-release devices at the bottom of the guide rail allow for quick removal of the baffle for cleaning. The polyurethane sliding plate window is equipped with a special internal rope lock device, which can lock the position of the entrance sliding plate when needed.



### Air flow direction



## Technical Parameter

Ventilation mode	Air volume (10 pa)	Air volume (20 pa)	Air volume (40 pa)
Mode 1 Horizontal ventilation	3200m <sup>3</sup> /h	4450m <sup>3</sup> /h	6400m <sup>3</sup> /h
Mode 2 All 30 °	2250m <sup>3</sup> /h	3200m <sup>3</sup> /h	4450m <sup>3</sup> /h
Mode 3 30 ° up and down	2150m <sup>3</sup> /h	3000m <sup>3</sup> /h	4350m <sup>3</sup> /h
Ventilation mode	cfm@0.05 inH <sub>2</sub> O	cfm@0.1 inH <sub>2</sub> O	cfm@0.15 inH <sub>2</sub> O
Mode 1 Horizontal ventilation	2106	2922	3638
Mode 2 All 30 °	1481	2102	2529
Mode 3 30 ° up and down	1415	1970	2472

# POLYURETHANE CHIMNEY FAN

## Product overview

The chimney fan series products are specifically designed and developed to meet the stringent ventilation requirements of enclosed livestock and poultry houses. In high-altitude areas or regions with temperate climates, where the air flow rate inside livestock and poultry houses is relatively low, special attention should be paid to changes in wind speed to avoid unnecessary air currents above the livestock and poultry. They can meet the demand for air volume in different seasons and be applied to various types of livestock and poultry houses, with advantages in the following scenarios: being used in extremely cold regions; when there is no ceiling-mounted air inlet in the livestock and poultry house; and in constant-pressure or low-pressure ventilation modes.

**Chimney exhaust fan:** Utilizing the principle that hot air rises, polluted hot air can be discharged from the upper part of the livestock and poultry house through the exhaust outlet, while fresh cold air from outside is drawn in, forming a vertical ventilation mode. The air flows do not cross each other, thereby reducing the risk of diseases in livestock and poultry.

**Chimney inlet fan:** Installed on the roof, it uses a high-pressure, high-flow fan to provide stable fresh air for the building. It mixes with the hot air above the roof at the inlet, and the mixed air flow is dispersed around the animals in the building through guide plates, which is both energy-efficient and avoids the risk of direct cold air blowing out.

## Technical Parameter

chimney 820

chimney 920

Inner diameter	820mm	Inner diameter	920mm
Outer diameter	870mm	Outer diameter	970mm
Total height	1570mm	Total height	2160mm
Maximum width	1386mm	Maximum width	1190mm



## Product features



### High efficiency and energy and energy saving

The chimney fan uses high efficiency motor, low energy consumption and low operating cost.



### Low noise

The blades are designed with a unique airfoil profile that effectively improves aerodynamic performance and reduces noise and vibration.



### Corrosion resistance

The fan shell is made of corrosion-resistant material, which is suitable for various harsh environments and has long service life.



### High level of protection

The protection level of the fan is IP66, which can prevent the intrusion of dust and water and ensure the normal operation of the fan.

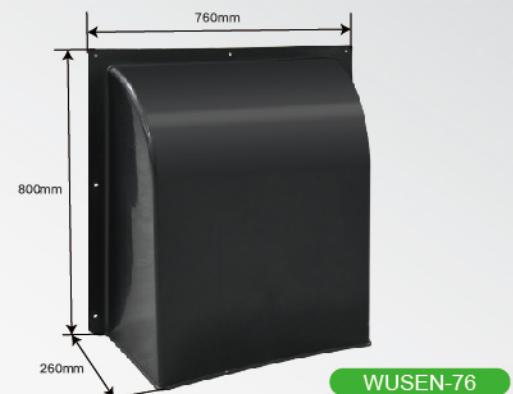
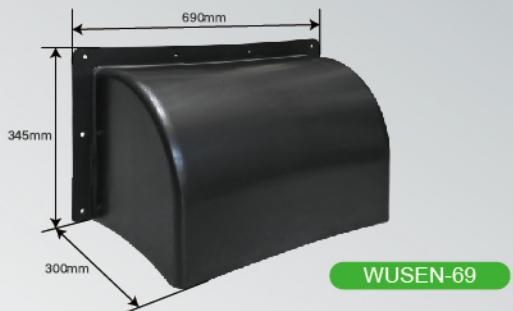
# RAINPROOF COVER FOR AIR INTAKE

## Product Overview

Made of environmentally friendly engineering plastics, it can be spliced according to the size of the ventilation window. It has good sealing performance, can more firmly withstand strong winds, and has excellent waterproof performance. Relying on the semicircular design, it does not accumulate rainwater and provides all-round protection.

The bottom of the rain cover is equipped with a 115mm light-shielding sheet, which is suitable for breeding places with high light-shielding requirements. It is integrally formed for easy installation.

This product is UV-resistant, not afraid of long-term exposure to sunlight, anti-aging, and has a long service life. It effectively protects the air intake and prevents heat dissipation in winter.



Rain cover + light trap

## Technical Parameter

Model	Specifications (mm)
WUSEN-69	690*300*345
WUSEN-76	760*260*800
WUSEN-130	1300*400*400

# ENVIRONMENTAL CONTROLLER

## WUSEN Climate Controller

The WUSEN livestock farm climate controller is a revolutionary device that elevates farm breeding to a new level. It manages all aspects of farm environmental control, providing better air quality and animal welfare for your livestock.

The WUSEN climate controller ensures an optimal climate environment and rapid response to weather changes through dynamic ventilation, while reducing energy consumption and carbon emissions. Its intuitive user interface facilitates installation, guiding users through setup and configuration, and simplifies troubleshooting needs.

The WUSEN climate controller supports multi-house control, making it easy to manage the needs of different herds. Remote management includes cloud services, the Trio Air application, and personal ID accounts. Both the touch screen of the WUSEN climate controller and the remote services offer independent user experiences, enabling you to conveniently manage settings, users, and preferences with higher security.



### Analog Inputs

- Room Temperature Sensors
- Outdoor Temperature Sensors
- Humidity Sensors
- CO<sub>2</sub> Sensor
- Ammonia Sensor
- Static Pressure Sensor
- Wind Direction
- Potentiometers

### Digital Inputs

- Water Meters
- Energy Consumption
- External Alarms

### EIN BUS

- Distributed Control
- Inputoutput Extension
- Data Acquisition/management



### Analog Outputs

- Variable Fans
- Lighting
- Variable Heaters
- Air inlets

### Digital Outputs

- Fans On/Off
- Tunnel Curtain
- Air inlets
- Heaters
- Pad Cooling
- Spraying/Misting
- Lighting
- Clocks
- Water Valve
- Local Alarms

### Alarm

- Auxiliary alarm
- Priority alarm

- Intuitive and stylish user interface
- Dynamic ventilation management
- Capable of controlling multiple rooms/sheds

- Cloud services and Trio Air live app/apk
- Support for multiple languages
- Connect to standard LAN devices

# LIGHT TRAP

## Product Overview

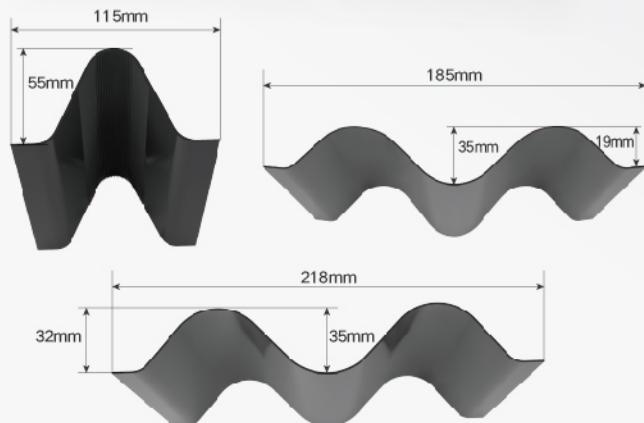
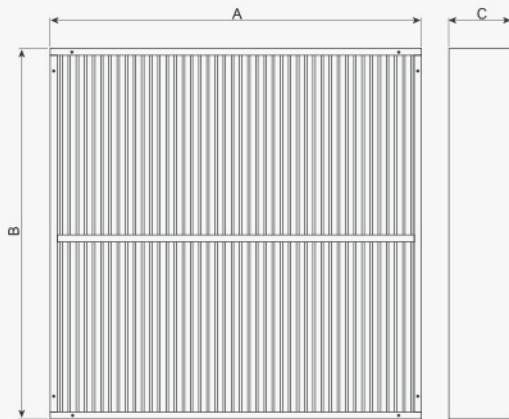
Within an enclosed henhouse, chicken growth and sexual maturity needs to be strictly controlled, most often through the use of different lighting situations. Because natural lighting can't meet these requirements, we have designed the light trap and filter to manually control the lighting periods. Our light trap block sunlight from the exhaust fan or window of the henhouse, thus achieving artificial control of the illumination period.

## Material

It is made by injection molding of the no glare PVC material. It can resist the long-term sunlight, chemical corrosion, and cleaning at high pressure;

It is reasonably designed to be conveniently installed with different sizes to efficiently reduce the brightness;

The outer frame materials are stainless steel frame and galvanized steel frame;



## 218mm specification technical parameters

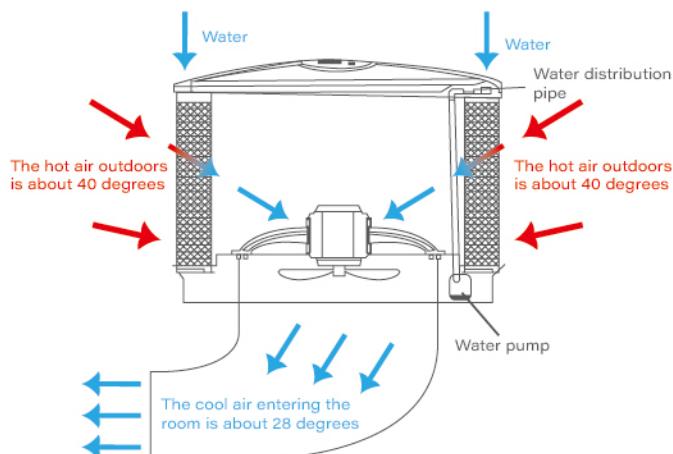
Model	1530	1380	1220	1110	1000	900	830	780	620	270	255
A(mm)	1530	1380	1220	1110	1000	900	830	780	620	270	255
B(mm)	1530	1380	1220	1110	1000	900	830	780	620	270	255
C(mm)	260	260	260	260	260	260	260	260	260	260	260

According to customer requirements, stainless steel casing and galvanized steel casing can be customized.

# INDUSTRIAL AIR COOLER

## Product Overview

The suction pump draws cold water from the base to the top of the machine, and then evenly flows it down through the top water separator to wet the water curtain, fully utilizing the rapid evaporation of water by the water curtain. It uses the logistics principle of water evaporation and heat absorption to cool the air. The hot air drawn in by the machine from the outside is filtered and evaporated by the water curtain, absorbing the heat of the air and becoming cold air to be blown out, achieving a good cooling effect.



## Technical Parameter

Air cooler model	WSAC-a	WSAC-b	WSAC-c	WSAC-d
Maximum air volume	7000m <sup>3</sup> /h	9000m <sup>3</sup> /h	12000m <sup>3</sup> /h	15000m <sup>3</sup> /h
Product size	80*80*150cm	80*80*150cm	80*80*170cm	80*80*170cm
Package size	85*85*90cm	85*85*90cm	85*85*110cm	85*85*110cm
Power	250W	350W	550W	750W
Electric frequency	220V	220V	220V	220V
Voltage	50Hz	50Hz	50Hz	50Hz
Net weight	35kg	35kg	40kg	40kg
Gross weight	40kg	40kg	45kg	45kg
Water tank capacity	50L	50L	50L	50L

# POLYETHYLENE CALF HOUSE



## Unique design

Multiple ventilation design in calf island  
Adjustable rear ventilation design  
Create a good and comfortable ventilation environment for calves  
Keep the living space of calves dry and clean  
Promote the healthy growth of calves.

## High-quality special materials

The production process of using high-quality imported special polyethylene raw material for hot roll molding to make the product seamless  
UV resistance > 8level, rugged and durable  
Long service life, safe, non-toxic and environmental protection  
Light transmittance < 1% effective thermal insulation 5 °C

## Stand-alone single-column feeding

Isolation greatly reduces the incidence of disease  
Ensure the safety and health of calves  
Ensure high survival rate



## Technical Parameter

Product Name	Model	Size (mm)	Texture of material
Polyethylene calf house	Calf house	2190*1508*1450	Imported high-quality polyethylene

# PE PLASTIC COWSHED FAN

## Product Overview

The shell is made of heavy-duty impact resistant polyethylene, and the outer frame is formed by one-time molding ROTO, which has high strength and long service life. Corrosion resistance, insulation safety, never deform, never rust.

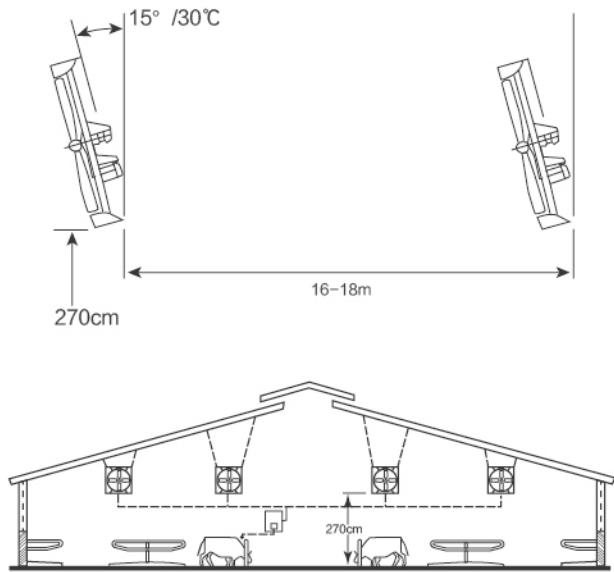
The blades are made of stainless steel, with a diameter of 1 meter, low air resistance, rust resistance, and corrosion resistance.

The fan blades are calibrated by advanced computer dynamic balance testers to ensure smooth operation, reduce noise, enhance stability, and extend service life of the fan.

The shell copper core motor has good heat dissipation, stable performance, and long service life. Protection level IP55, insulation level F.



## Installation Diagram



## Technical Parameter

Model	Air flow (m <sup>3</sup> /hr)	Power (w)	Size (mm)
38 inch /1m cowshed fan	25460	410/250w	1140*1140*300
45 inch/1.2m cowshed fan	34590	520w	1400*1400*300



#### **SHANDONG WUSEN ENVIRONMENTAL CONTROL EQUIPMENT TECHNOLOGY CO., LTD**

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