



AIXIANG GREENHOUSE SOLUTION

PRODUCT CATALOGUE



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We are Sichuan Aixiang Agricultural Technology Co.,Ltd. A professional greenhouse company based in Chengdu Sichuan Province,China,where' s economic is major based on agriculture and tourism. We provide one-stop greenhouse solution including design,production,delivery,installation and Technical support service. Our factory was founded in 1995,with more than 25 years experience,we provide professional greenhouse solution service not only for customers but also for other suppliers. Till now we have exported our product and technology to many countries around the world. And in the future we will keep our Original intention to help more customers in greenhouse matters and keep improving our technology and products to build long-term relationship with our customer.

Research

Design

Quotation

What you will get from us !

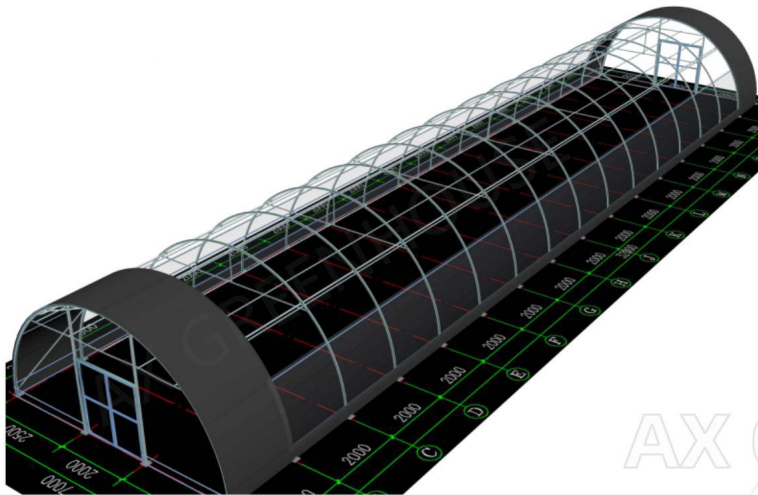
Manufacture

After-sale Service

Installation

Delivery

A. Single-span Greenhouse



Simple, commercial and easy to assembled are the main advantages of single-span greenhouse. Single-span greenhouse is widely used in the cultivation of vegetables, fruits and flowers.

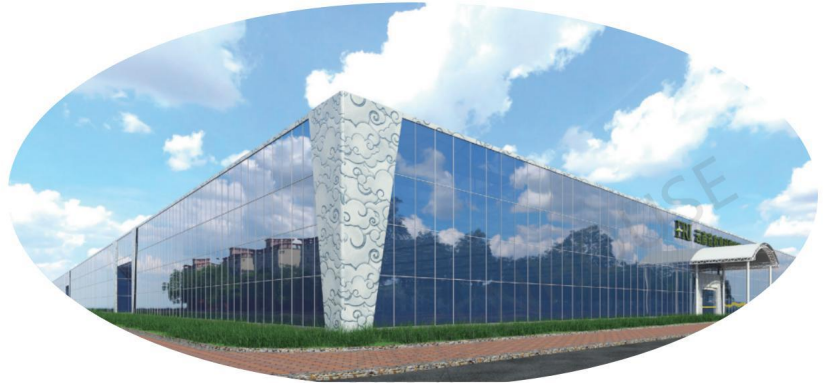
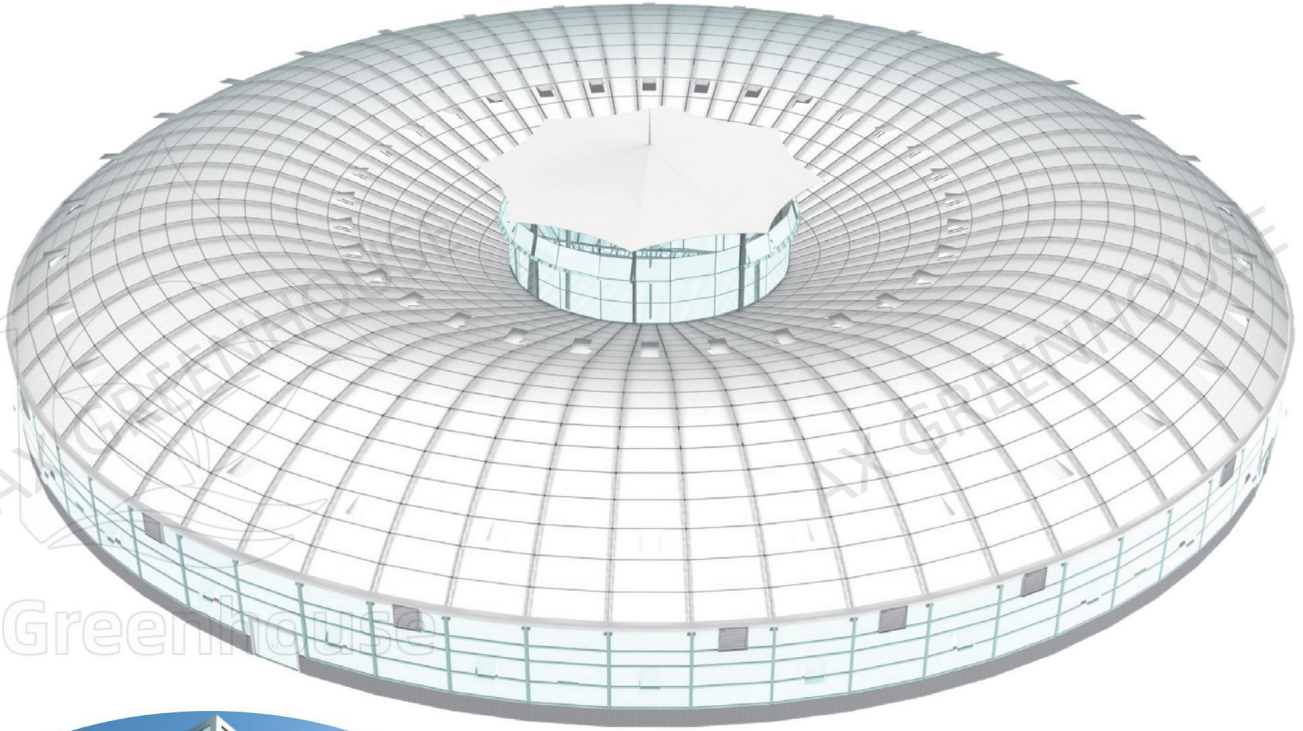
B. Multi-span Greenhouse

The advantage of this multi-span greenhouse is the high utilization of land and space,



so it is widely used for scale cultivation. Stronger resistance for heavy climate conditions comes from the structure feature. More complementary systems could be added in this greenhouse to achieve your different usage requirements.

C. Customized Greenhouse



Customized greenhouse is usually used for sightseeing, technology display and science education as one of the high-tech agriculture theme park. We not only provide shape design and routine production of this greenhouses, but also responsible for internal planning, design and construction.

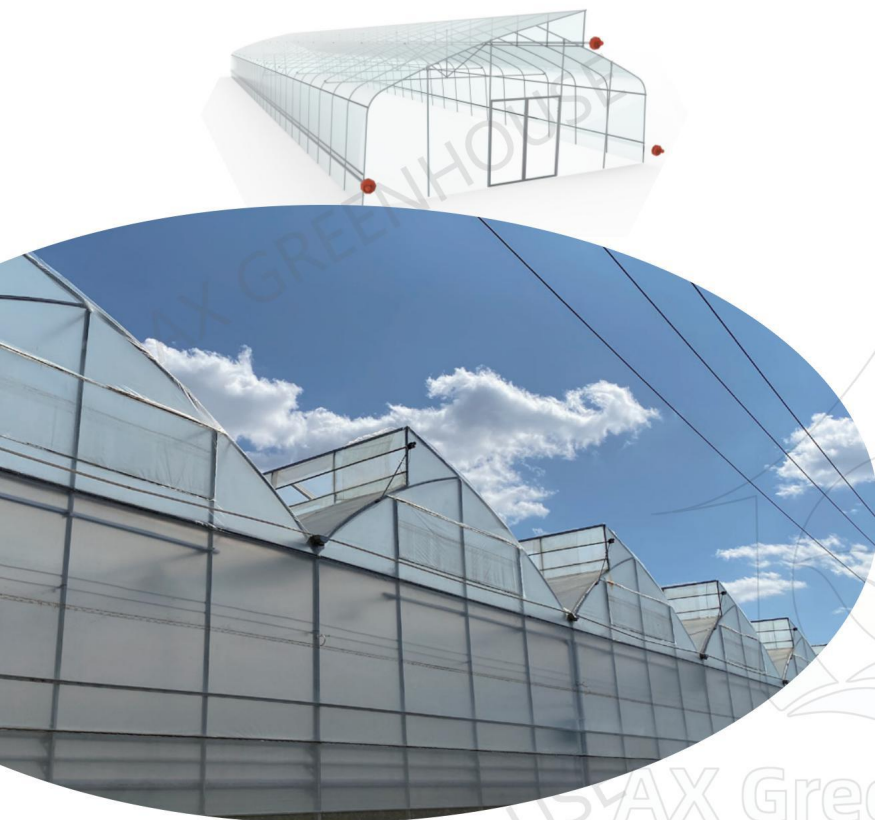
A. Dome Greenhouse

- * Advantage: practical and economical, strong resistance for heavy climate conditions, high space utilization, almost all complementary systems could be added in to this greenhouse
- * Usage: vegetables, fruits, flowers seeding and cultivation
- * Size: span width from 6m to 12m, length could be customized.



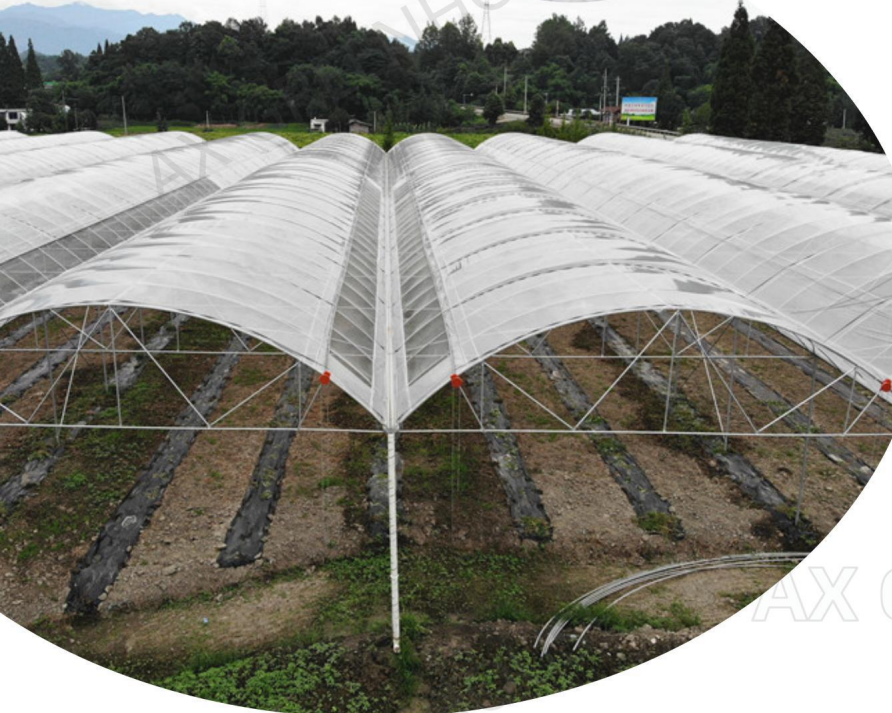
B. Serrated Greenhouse

- * Large size top natural ventilation
- * Reduce the indoor temperature and humidity quickly
- * With much better natural ventilation effect than dome greenhouse
- * Especially suit for the annual outdoor temperature relatively high areas, and the greenhouse which design is not supporting the mechanical forced ventilation system



C. Venlo Greenhouse

- * Venlo type multi-span greenhouse is an advanced greenhouse type introduced from Holland.
- * It has modern appearance, stable structure, excellent heat preservation performance
- * Multiple rain troughs, large span, grid structure, large drainage, strong wind resistance, and is suitable for areas with large wind and rainfall.



D. Shelter Greenhouse

- * This is the simplest greenhouse design, economical and easy to install
- * Clear Film or shade film cover on top, insect net or nothing cover the walls
- * Reduce the impact of rain on crops, reduce mold growth and pest damage
- * You can choose the right style and plan according to the height of the plant
- * Widely used in kiwi, grape, blueberry, orange, plum cultivation

E. Light Deprivation Greenhouse



* Till the end of 2019,our light deprivation greenhouse has been exported to United States,Canada,Italy,Macedonia.....

* Since 2015,we started the light deprivation system research,we keep learning from other customers and developing our products,till now our light deprivation greenhouse has bee the top 3 in China.

* we work with you to provide the perfect environment for consistent quality cannabis crops at maximum yield, from structures and marijuana grow tables to light deprivation and environmental controls.

A. Plastic Film

- * High light transmittance ($\geq 95\%$)
- * Some functions such as anti-fog, anti dripping, anti-dust could be added for customer's option
- * Diffusion film also supplied.
- * Recommend thickness for cultivation

80 Micron

100 Micron

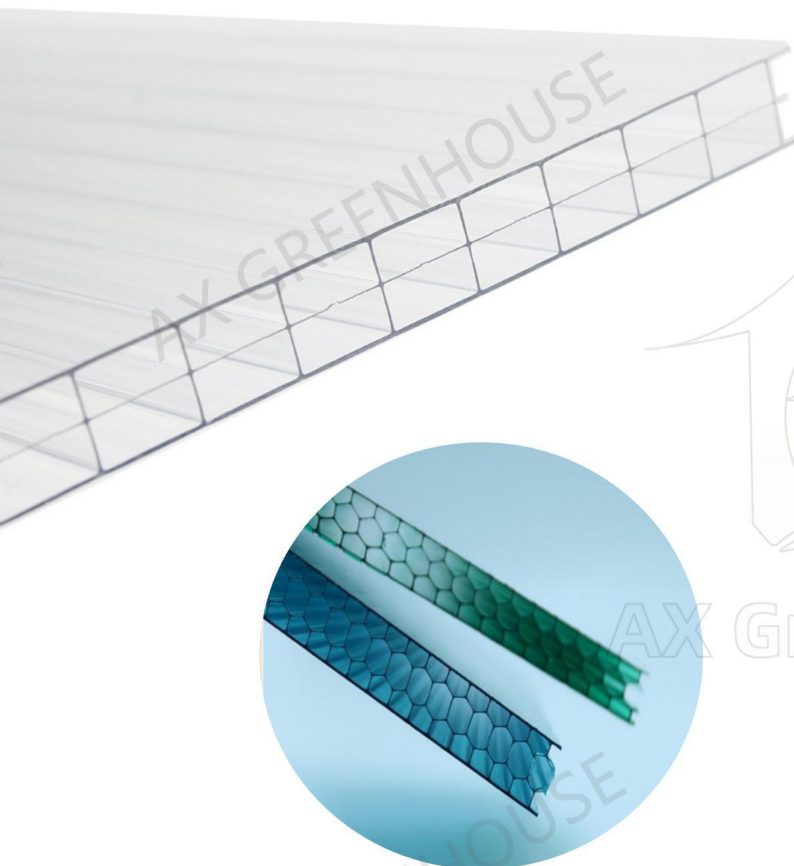
150 Micron

200 Micron



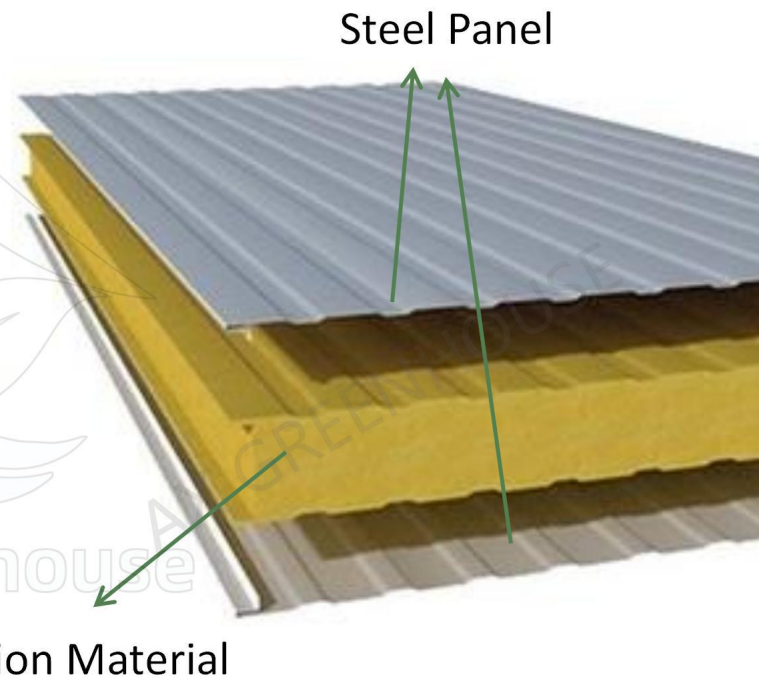
B. Polycarbonate Sheet

- * The polycarbonate resin provides excellent durability and is extremely solid.
- * Difficult to burn and is safe.
- * Can also withstand severe temperature conditions.
- * Good insulation effect and an excellent heat retention
- * Excellent weather resistance, and maintains the transparent feel for a long period of time.
- * It has a hollow structure with hollow layers that provide excellent heat insulation.



C. Sandwich Panel

- * Steel Panel+insulation material+steel panel
- * Excellent thermal insulation performance
- * Excellent fire performance, no flame spread.
- * Usually applied for the covering of warehouse, operation room, control room and end wall cover of blackout greenhouse



D. Glass Panel



- * Tempered glass, also called toughened glass, it is a type of safety glass processed by controlled thermal or chemical treatments to increase its strength compared with normal glass.
- * Offers the best light transmission and longest
- * Usually applied for high-end cultivation greenhouse, Exhibition room, sightseeing greenhouse etc.

* Fixed Top Ventilation



* Rack and Gear Ventilation



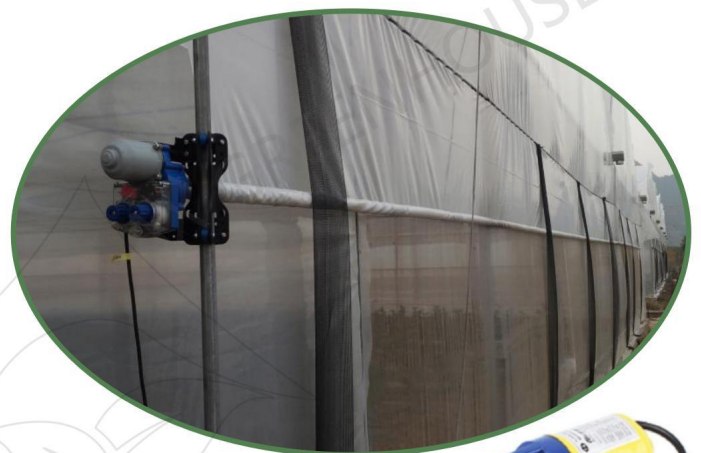
A. Ventilation System

* Natural ventilation systems are an important part of the entire greenhouse.

* Eliminate the residual heat and moisture in the greenhouse, keep the ambient temperature in the greenhouse within the range suitable for plant growth

* Our main options are sidewall and roof vents, those can either be operated manually or automatically.

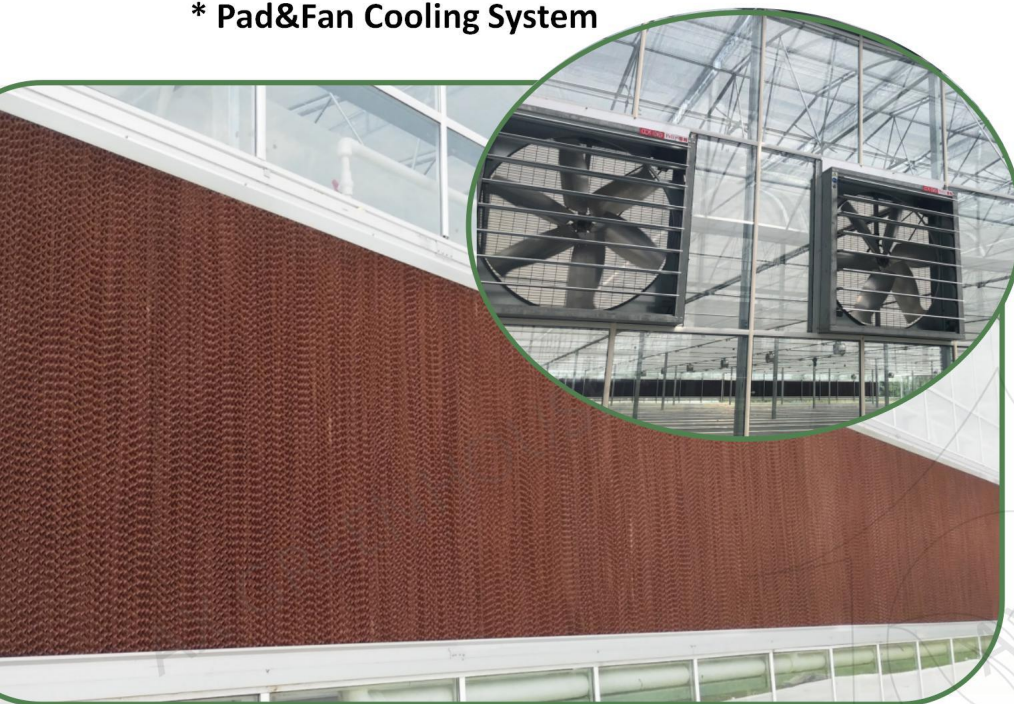
* Electric Roll Up Motor



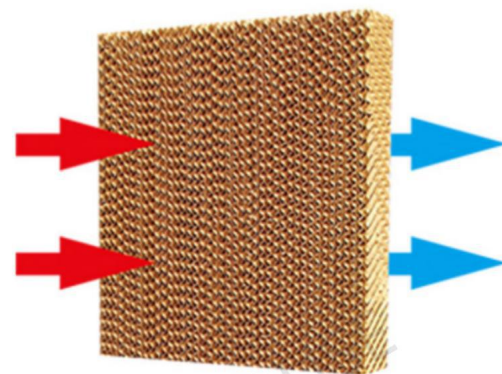
* Manual Roll Up Device



* Pad&Fan Cooling System



* Wet curtain



Thickness 10cm, 15cm and 20cm is the most recommended ones for cooling system

* Exhaust fan



Based on the air flow requirements, size 1380mm, 1220mm, 1060mm and 900mm fan be provided for your choice

B. Cooling System

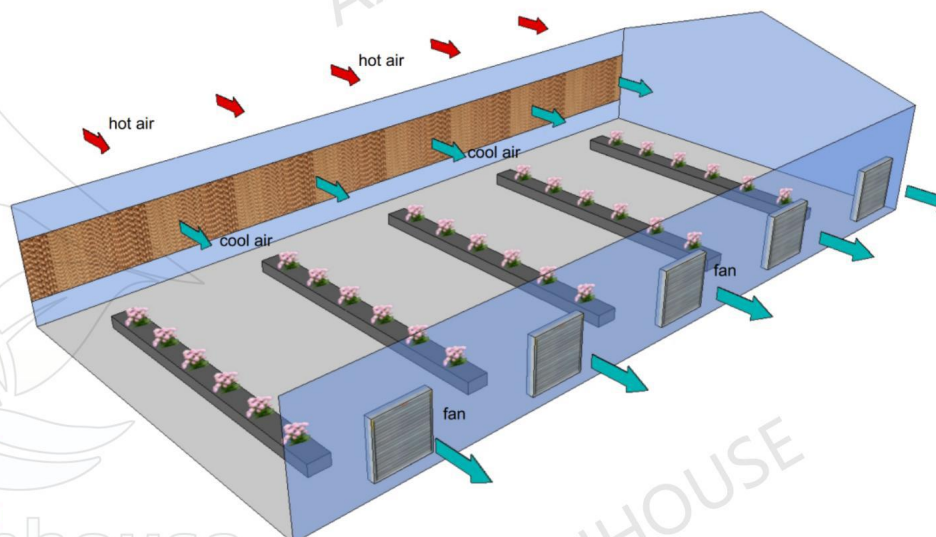
* Pad&fan cooling system is the most popular mechanical cooling method for greenhouse, with the system work, the greenhouse temperature could be cool down as 10 to 20 degrees.

* Misting Cooling System



Misting cooling is another choice if you don't need a high temperature cooling effect.

* Pad&Fan Cooling System



* This external shading system is driven by rack and pinions, powered by electric gear motor, it is useful to reduce solar load, cool down the inside temperature, and create a comfortable environment for the plants



C. Shading System

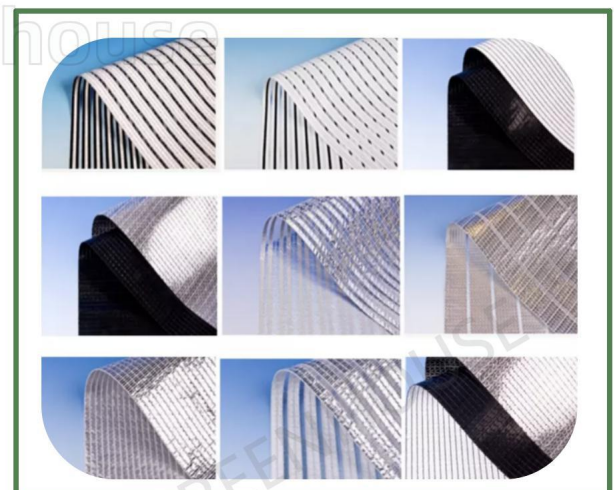


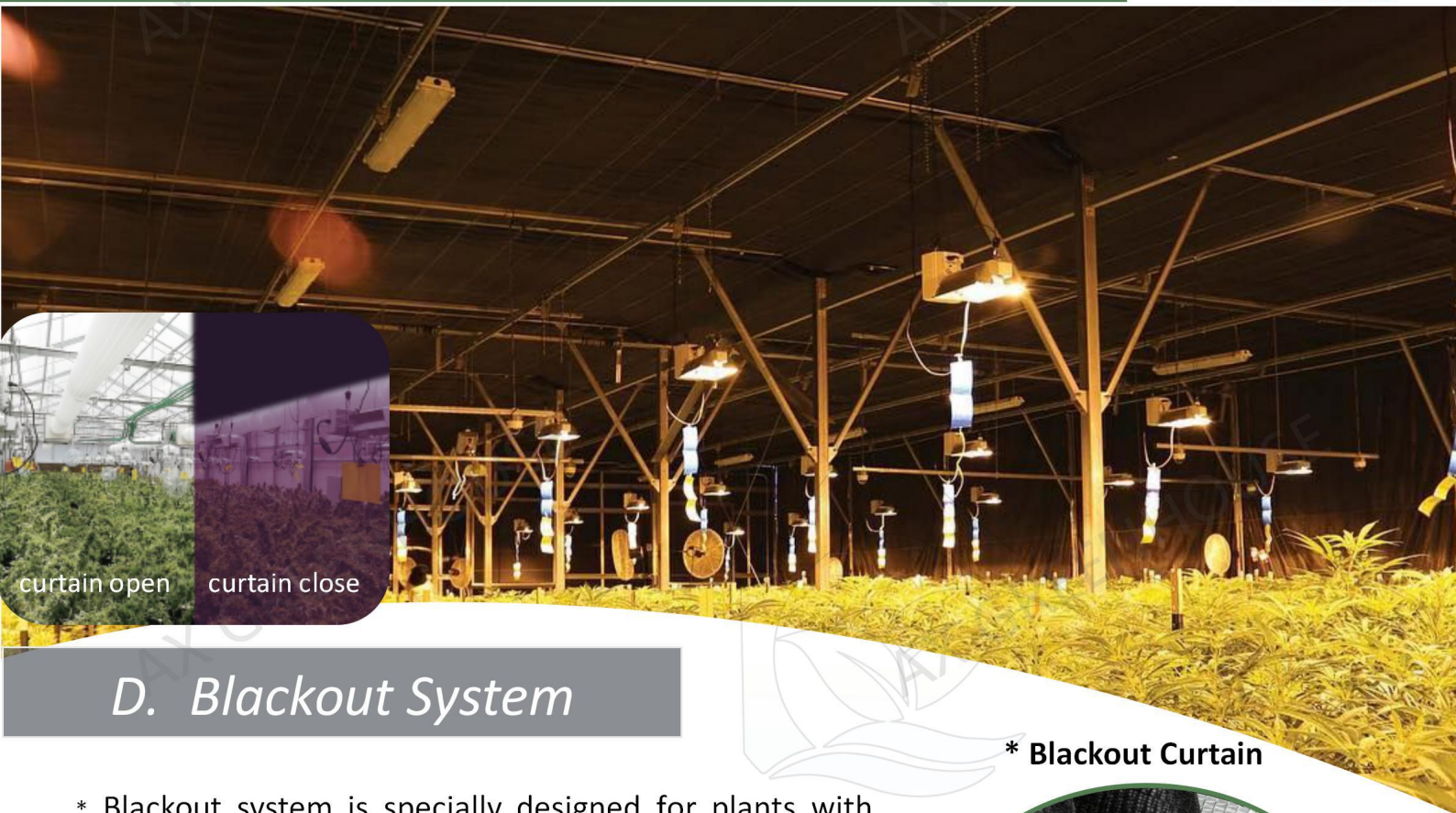
* This system is driven by rack and pinions, powered by electric gear motor. Compare with the external shading system, internal shading system is more economical, and it could protect the plants from sun burning. Besides, it has the function of insolation.

* Internal Shading System & Insolation System



* Shading Screens





D. Blackout System

* Blackout system is specially designed for plants with special lighting needs like medical marijuana. With supporting facilities, growers can fully control the factors that affect the growth of plants. By changing the light, temperature and humidity, the greenhouse can shorten the growth cycle of plants to the maximum To maximize its profitability

* Blackout Curtain



3-layer blackout curtain be equipped in the blackout system to ensure the greenhouse be 100% black when it opened.

Related:

* Light Trap



* LED Lights



Please contact us to get a professional blackout solution for your project





E. Lighting System

* HPS Grow Lights

* HPS (High Pressure Sodium) lighting is the most popularly used light source with a proven track record for cannabis growers, providing bright, intense light with a reasonably long lifespan



* LED Grow Lights

* LED grow lights provide full spectrum light for the plants growing, which is adjustable in different plants growing period. Drastically shorten the growing period and increase harvest.

F. Air Circulation System

* This system is set up to flow the greenhouse inside air, then to achieve the purpose of equalizing the whole greenhouse temperature and humidity.

Based on the greenhouse size and usage, we equipped different size and power circulation fans to meet different air flow requirements



G. Heating System

* In some cold area, heating system is necessary to keep the greenhouse temperature, we recommend two heating systems to our customer depend on the greenhouse size, water boiler & heating pipe system for large size greenhouse and air fan heater for small size greenhouse



* Water boiler & heating Pipes

Three types of heating pipes are available, and the boiler can be selected from gas, coal and diesel.



* Air Fan Heater

Local hot air system powered by natural gas, diesel, electricity or coal. Efficient and space saver.
(From 20kW to 110kW)

H. Humidity System

* Based on the plants growth needs and local humidity condition, we can provide humidity solutions to control the greenhouse humidity.



* Fog Irrigation Device

The mist spray system is very useful to increase the greenhouse humidity and cool down the greenhouse temperature

I. CO2 System

* Based on a science research, reasonable CO2 concentration is very helpful for plants growing and production increasing, so we provide CO2 generator for customer who wants to increase the CO2 concentration in their greenhouse



* Dehumidifier

This dehumidifier be equipped to creating homogeneous, constant and uniform temperatures and humidity conditions around your plants.



* CO2 Generator



J. Hydroponic System

- * The Hydroponic NFT channel grow systems for lettuce/strawberry is extremely suitable for larger, long-term crops such as vine tomatoes, peppers (capsicum), cucumbers and even roses.
- * We ensure the Hydroponic nft channel grow systems for lettuce/strawberry calibration standards, procedures and technicians in higher standards.



K. Irrigation/Fertilizing System

We can provide irrigation solution based on your irrigation requirements, automatic irrigation, drip irrigation, sprinkler irrigation are the ones usually recommend

* Drip Irrigation



L. Intelligent Control System

* We provide intelligent control system design and products to help you manage your greenhouse more efficient and easier. The advantages of all devices are no need for charging, wireless data transmission, and easy installation

* Control Center



The data management control center has functions such as information display, video display, information and video linkage, remote control, audio and video interaction, etc.

* Weather Station



Our weather station can automatically detect the climate environment inside and outside the greenhouse, providing data support for improving crop yield and quality and reducing greenhouse operating costs.

* Multi-element Sensor



This sensor can measure air humidity, light, atmospheric pressure, soil temperature and other parameters, and users can choose the parameters to be measured according to their needs.

* Wireless CO2 Sensor



This product has the unique advantages of NDIR products such as good selectivity, high sensitivity, no oxygen dependence, long-term stability, and long life.

* Greenhouse butler



Greenhouse butler is our special product. It can wirelessly receive data from all series of sensors to realize remote control. It can also be connected to a greenhouse controller to set various parameters of the system.

05 Complementary Systems

M. Workbench System

* This system is used to save plant area and it helps you to organize the greenhouse, also let you pass through plants to look out that the growing process it is going in the right way.



* EBB&Flow Rolling Bench



* Multi-layer Nursery Rack



* Rotating Bench



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