



Greenhouse-Ysteel



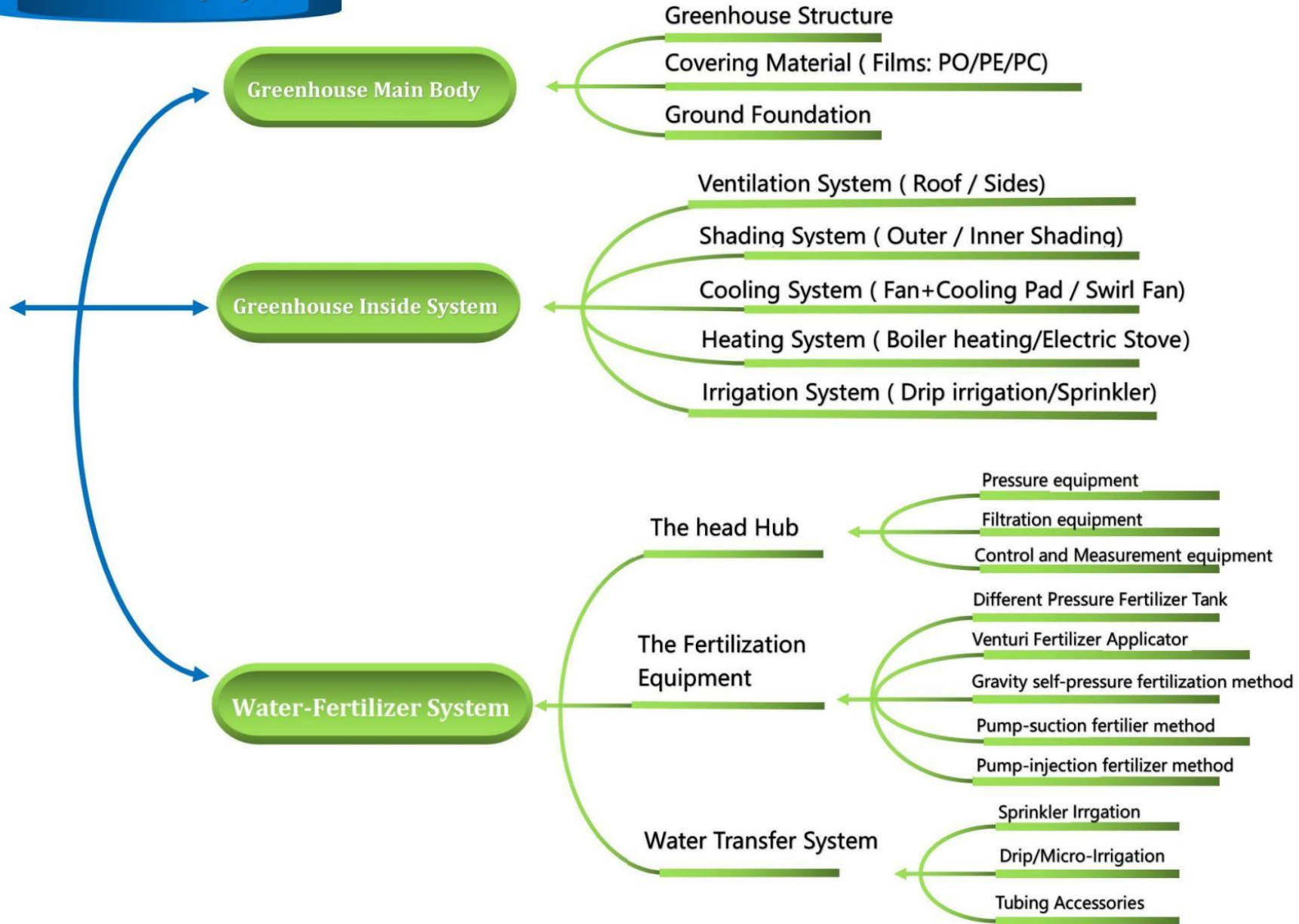


Content

- 1. Detailed Item List**
- 2. Greenhouse Style**
- 3. Greenhouse Structure**
- 4. Covering Material**
- 5. Shading System**
- 6. Ventilation System**
- 7. Cooling System**
- 8. Heating System**
- 9. Irrigation System**
- 10. Seeding Bed/Bench**
- 11. Control**
- 12. Hydroponics**
- 13. Greenhouse Accessories**
- 14. Greenhouse Project**



Greenhouse project



Greenhouse Style



Film GH



Polycarbonate GH



Glass GH



Tunnel GH



Shade GH



Recreation GH

Greenhouse Structure

- ✓ Frame use high quality steel profiles
- ✓ Hot dip galvanized treatment 270 g/m²
- ✓ One step forming, whole piece galvanized, no artificial anti-rust treatment
- ✓ 15 years warranty no rusting, design lifespan more than 20 years, especially good for high humidity area.

Anti-condensation structure design



Covering Materials

Poly film

- ✓ Anti-UV
- ✓ Dust proof
- ✓ Anti condensation
- ✓ Economical



Covering Materials

Polycarbonate

- ✓ High strength, impact resistance 200 times higher than glass
- ✓ Better fire-proof performance
- ✓ Better insulating performance
- ✓ High transmission of light
- ✓ Easy maintenance



Covering Materials

Glass

- ✓ Attractive appearance
- ✓ High transmission of light
- ✓ Enhance insulation capacity
- ✓ Heavier weight for stability
- ✓ Easy maintenance



Shading System

Exterior Shading

- ✓ High performance in cooling "Different shading rate meets different requirement of various crops
- ✓ High wear resistance assures long lifetime
- ✓ Rack and pinion system works stably, smoothly and tightly
- ✓ Controlled by light sensor or timer
- ✓ Multiple colors: black, green and transparent



Shading System

Interior Shading

- ✓ Provide shading and Energy saving
- ✓ Different shading rate and energy
- ✓ Saving rate meets different requirement of various crops High wear resistance assures long lifetime
- ✓ Rack and pinion system works stably, smoothly and tightly
- ✓ Controlled by light sensor or timer
- ✓ Multiple colors: black, white



Ventilation and Cooling

Natural Ventilation

- ✓ Ventilation & cooling GH;
- ✓ Increase air ventilation in&out
- ✓ Save running cost
- ✓ Manual operation and electrical control available
- ✓ High performance working together with fan&pad system



Roof ventilation



Side ventilation

Ventilation and Cooling

Ventilation (Fan & Curtain Pad)

- ✓ Increase humidity, and cool down temperature
- ✓ Humid air stimulate crop growing
- ✓ Save running cost
- ✓ Controlled by temperature & humidity sensor

Exhaust Fan



Evaporated Pad Wall

Ventilation and Cooling

Forced ventilation (HAF)

- ✓ Low noise, big air volume, long lifespan
- ✓ Maintain the consistency and stability of internal climate.
- ✓ Automatically control internal climate intermittently.



Heating System

Finned tube heat exchanger

- ✓ Reasonable layout on 4 sides and middle
- ✓ High heating efficiency, distribution evenly
- ✓ Working with hot water boiler, low running cost
- ✓ Recycle water, lower water bill.



Heating System

Heating Fan

- ✓ Low initial investment
- ✓ Heating fast
- ✓ Low noise



Movable



Wall mount

Heating System

Gas/Diesel Heater

- ✓ Low initial investment
- ✓ Heat evenly
- ✓ Directly heat crop roots



Irrigation System

Popular irrigation ways in greenhouse



Drip



Spray



Atomized



Movable Bar

Seeding Bed/Bench



Manual Rolling Bench

**Automatic
Rolling Bench**



**Tidal Irrigation
Bench**



Control System

Apply ARGUS greenhouse computer control system, with sensors and timers, control the fans, ventilation, shading system, cover, heating system and irrigation system to meet the growing requirement



Hydroponics Growing



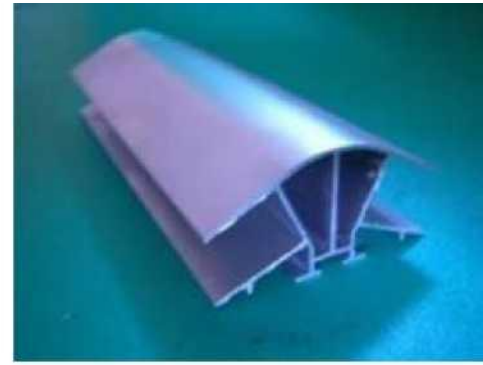


Hydroponics Growing



Greenhouse Accessories

Y-Steel provides various greenhouse accessories and equipment: structure, cooling & heating, ventilation and shading, irrigation and rowing etc.





Projects Show- Kunyu Xinjiang, China



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Longtime partnered with Kunyu. Projects include breeding/nursery house, production house, laboratory. The standard Phalaenopsis GH equipped with ARGUS computer control system, automatic rolling benches system.

Projects Show-Wuhan, China



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One of the projects applied inflatable double layer film as roof, covers an area of 6,000M². Span 8M, Gutter height 3M- Equipped with fans, pads, exterior shading, interior shading, HAF₂ manual rolling bench, irrigation baretc.



Projects Show-Urumqi, XinJiang, China



The project covered with glass, 9.6M ven Io type, total area 9,980M² .

Projects Show-02



The project locates in Hainan Island, South China Sea. Typhon visits this area multiple time ever year. It covers with twin-wall PC panels, 8 meters arch roof.



Projects Show-Vietnam



Project locates in Dalat, Vietnam. 4 buildings total 8000 M² . Span 12M, gutter 4M. Covered with film, comes with fan, pad, exterior shading, interior shading, thermal insulation, HAF_f manual rolling bench, diesel heater; automatic control system.

Projects Show-Kazakhstan



The project locates in Almaty, Kazakhstan, covers area around 4,000M² . Covered with film, comes with fan, pad, exterior shading, interior shading, thermal insulation, HAF_f manual rolling bench, finned tube heat exchanger.

Projects Show--Sudan



Project in Khartoum, Sudan. Area about 3000M2. Side wall covered with twin-wall PC, roof with film. With fans and pads system.



**Nature, Harmony,
Participation and Share**