



# 坤宇温室资材手册

KUNYU Greenhouse Product Manual

# 坤宇温室

专注农业 服务三农

## 温室主体骨架

### Greenhouse project skeleton

采用国产热镀锌钢管及钢板；  
所有连接件一般为热镀锌处理；  
温室顶部及四周为专用铝型材。

热镀锌工艺流程:成品酸洗-水洗-加助  
镀液-烘干-挂 镀-冷却-药化-清洗-打磨-  
热镀锌完工。

Using domestic hot dip galvanized  
pipe and plate, all of the connect  
accessories are generally hot dip  
galvanized processed. Top and 4  
side of the greenhouse are dedicated  
aluminum profiles.

Hot-dip galvanizing process: Pickling  
- Washing – Help bath- Drying -  
Hanging plating - Cooling - Chemical  
- Cleaning - Grinding - Hot dip  
galvanized finish.



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## 遮阳系统 Shading system

遮阳系统分外遮阳系统、内遮阳系统和内保温系统。系统主要功能有：夏季遮阳、降温；冬季保暖。通过选用不同遮阳率的幕布，以满足不同作物对阳光的需求。针织网、百吉网，多门贯穿织法,抗脆化,强拉力,耐磨,耐撕,经久耐用,排齿机械转动性能稳定、平整、严密，可依光度时间设定控制。颜色有：黑色、绿色、透明。

The shading system includes the external shading system, internal shading system and internal insulation system. The main functions of the system : shading and cooling in summer; insulation in winter. Through the use of curtains with different shade ratios to meet the sun needs of different crops. Knitted net, Baiji net, weave diversity, anti-embroidery, strong tensile, wear & tear-resistant, durable, gear rotation mechanical stability, smooth, tight, can be set according to the luminosity and time control. Color choice: black, green, transparent.



马力/Horsepower : 1/2HP,1HP,1.5HP  
额定功率/Rated power : 0.37kw,0.55kw,0.75kw  
使用频率/Frequency : 50HZ  
使用电压/Voltage : 220V/380V×3相 (3 phase)  
使用电流/Current : 1.95A/1.13A  
转速/Rotate speed : 1380RPM  
电机驱动拉网,可依光度或时间控制。  
Motor driven the net, can be controlled by  
luminosity or time.

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## 降温系统 Cooling system

采用进口或国产优质排风扇及高分子技术制成的水墙纸板搭配使用。

Use imported or domestic high-quality exhaust fan and Polymer Technology water cooling pad.



### 风扇效率:

马力/Horsepower : 1HP

使用频率/ Frequency : 50HZ

使用电压/Voltage : 220V/380V×3相 (3 phase)

使用电流/ Current : 1.95A/1.13A

转速/ Rotate speed : 1380RPM

### 水墙组(Water curtain)

抽水马达/Pump Motor : 1/2HP, 1HP, 2HP

侧窗/Side window : 保护水墙纸板,兼具保温效果/ Protect the paper wall, and insulation.

水墙纸板/Paper wall specification : 180CM(150CM)×60CM×10CM(15CM)

水墙高度/Composition : 纸板paper wall 180cm(150cm) + 铝合金边框aluminum alloy pad frame 10cm(15cm)



# 坤宇温室

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## 内循环系统

### Air recirculation system

温室装有调节室内小气候的内循环系统,采用国产优质园艺专用内循环风机,具有噪音小,风量大,寿命长等特点.悬挂式安装,合理布局,能最大可能的打破温室内空气的热惰性,更好的维持温室内小气候的一致性和稳定性,全部实现分时段间歇式自动控制。

Greenhouse is equipped with air recirculation system that regulates the indoor air circulation, using domestically produced high quality DAF fan, low noise, large blowing rate and long life span. Suspended installation and reasonable layout can maximize the possibility of breaking the thermal inertia of the air in the greenhouse. To better maintain the consistency and stability of the microclimate in the greenhouse, all realize intermittent automatic control in different periods.



电压 /Voltage	功率 /power	扇叶转速 /Rotate speed	全压 /pressure	流量/Airflow rate
220V	0.25KW	1420RPM	84Pa	4500
380V	0.25KW	1420RPM	84Pa	4500

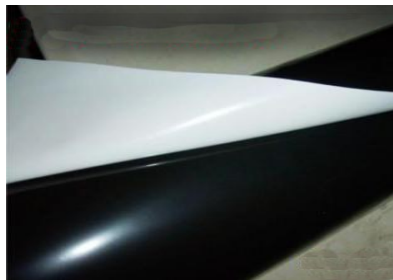
# 坤宇温室

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## 覆盖材料 Cover material



薄膜  
Film



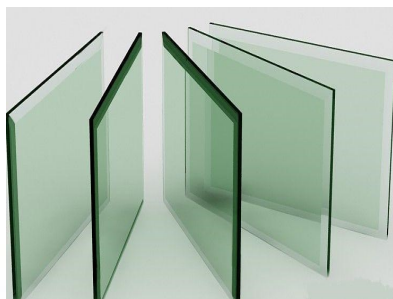
黑白膜  
Black-  
White  
film



绿白膜  
Green-  
White  
film



浮法玻璃  
Float glass



钢化玻璃  
Tempered  
Glass



阳光板  
Polycarbonate  
panel



彩钢板  
Color steel



泡沫板  
Foam  
board



夹芯板  
Sandwic  
h panel

# 坤宇温室

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## 覆盖材料 Cover material



### 吉尼嘉膜 Ginegar Film

常用厚度 /Thickness	常规宽度 /Regular width
65 micron	7、8.6、9m
80 micron	7-14m
100 micron	7-14m
130 micron	7-14m
150 micron	7-14m
200 micron	7-14m

# 坤宇温室

专注农业 服务三农

## 覆盖材料 Cover material



## PEP膜 PEP Film

常用厚度 /Thickness	常规宽度 /Regular width
60 micron	6-13m
80 micron	2.5-18m
100 micron	2.5-18m
120 micron	2.5-18m
130 micron	2.5-17m
150 micron	2.5-18m (透光 Transmittance) /6-12m (保温 Insulation)
180 micron	6-16m
200 micron	6-16m



# 坤宇温室

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## 覆盖材料 Cover material



### 黑白膜 Black-White Film

- 1) 蘑菇等食用菌种植。 1) mushrooms and other edible fungi growth.
- 2) 鸡、鸭、鱼、蚕等动物养殖。 2) Breeding of animals such as chickens, ducks, fish, and silkworms.
- 3) 鱼塘、藕池、游泳池铺。 3) Fish pond, lotus root pond and swimming pool.

常用厚度/Thickness	常规宽度/Regular width
130 micron	6-13m
150 micron	2.5-18m



### 绿白膜 Green-White Film

遮光率大约在90%，透光率在10%左右，满足食用菌生产的需要。同样具有遮阳和降温的作用。散射光绿白膜具有更长的使用寿命，使用方法得当可以连续使用五年以上，抗风抗拉强度高，提高了产品的性价比。一次投资，长期受益。散射光绿白膜没有雨雪透过，并且有易融雪，不存雨水的优势，减少因为棚顶大风大雪压塌食用菌棚的风险。

The shading rate is about 90%, and the light transmittance is about 10%, which meets the needs of mushroom production. Also plays the role of shading and cooling. Scattered light green and white film has a longer service life, can be used for more than five years in a proper way, and has high wind-resistant tensile strength, which improves the product's cost performance. One investment will benefit in the long run. The scattered light green and white film is free from rain and snow, and has the advantage of easy melting of snow and no rain, reducing the risk of collapse of edible mushroom sheds due to strong winds and heavy snow on the roof.

常用厚度/Thickness	常规宽度/Regular width
130 micron	6、9、12m

# 坤宇温室

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## 覆盖材料 Cover material



### 浮法玻璃 (温室常用5mm、8mm、10mm)

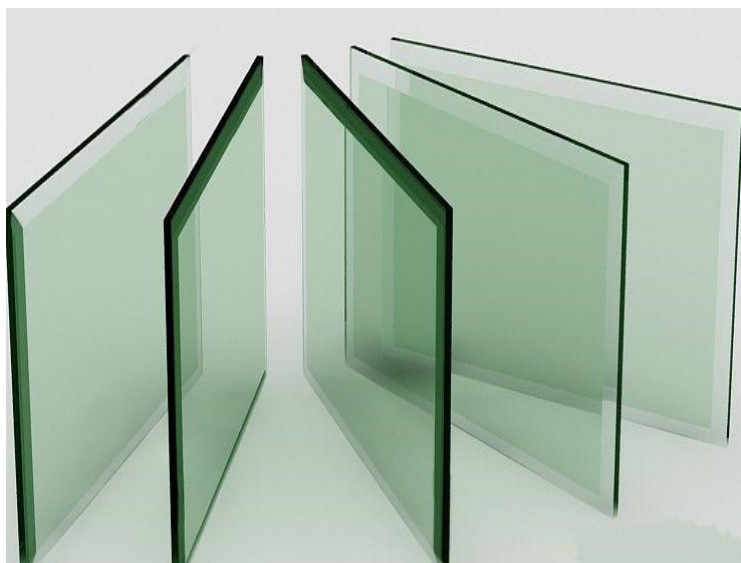
Float glass (Common use 5mm, 8mm, 10mm)

厚度/Thickness (mm)	重量/Weight (kg/m <sup>2</sup> )	最大规格/Maximum Size (inch/mm)	
1.1	2.09	52 X 44	1320X1120
1.2	3.18	52 X 44	1320X1120
1.3	2.67	52 X 54	1320X1120
2	4.89	72 X 60	1829 X 1524
3	7.34	120 X 84	3048 X 2134
4	9.79	120 X 96	3048 X 2438
5	12.23	180 X 132	4572 X 3353
6	14.69	180 X 132	4572 X 3353
8	19.57	240 X 132	6096 X 3353
10	24.47	240 X 132	6096 X 3353
12	29.36	240 X 132	6096 X 3353
15	36.70	394 X 132	10000 X 3353
19	46.40	394 X 132	10000 X 3353

# 坤宇温室

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## 覆盖材料 Cover material



### 强化玻璃 Tempered Glass (温室常用/Common use 8mm、10mm)

规格/Specification :

·厚度/Thickness : 3~19mm

·最大强化尺寸/Maximum Size : 118" × 315" (3000mm × 8000mm)



當玻璃被外力破壞時，成為豆粒大的顆粒，減少對人體的傷害。

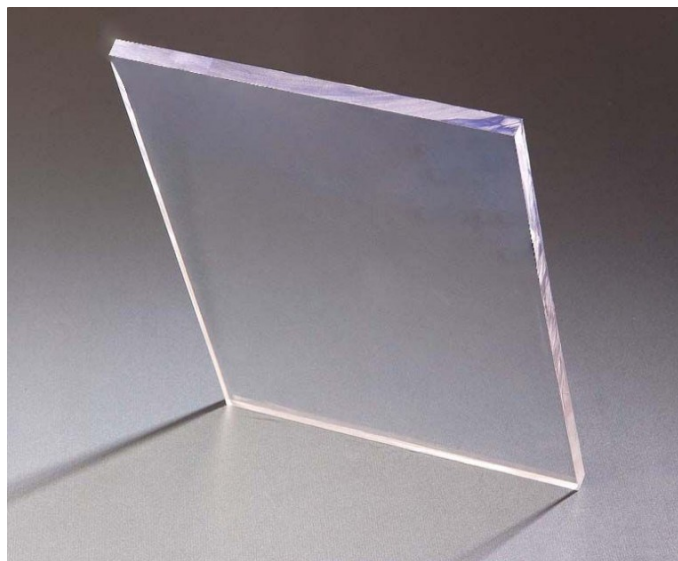
### 特性/Characteristic :

- 采用水平强化，故没有吊孔/With horizontal reinforcement, there is no hanging hole.
- 强化玻璃之强度约为普通玻璃的5倍/Strength of tempered glass is about 5 times that of ordinary glass.
- 当玻璃被外力破坏时，成为豆粒大的颗粒，减少对人体的伤害/ When glass is damaged by external forces, it becomes beans size granule, reducing the harm to human.
- 可耐温度之急速变化，(例5mm强化玻璃，约可耐摄氏200度之温度变化) / Can withstand rapid changes in temperature, (Example 5mm tempered glass, temperature can change of about 200 degrees Celsius) .

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## 覆盖材料 Cover material



### 耐力板 Polycarbonate solid sheet

板材种类 /Type	厚度 /Thickness	建议宽度 /Width	建议长度 /Length
通用型耐力板 Universal type	1.5mm-7mm	2100mm	≤8000mm
强力型耐力板 Intensify type	8mm-16mm	2100mm	≤8000mm
硬化耐力板 Hardening	2mm-16mm	2100mm	≤4000mm

温室覆盖主要使用通用型耐力板，  
强力型及硬化耐力板主要用于市政工程。  
Greenhouse covers mainly use the universal type.  
Intensify and hardening type are mainly used for municipal engineering.

# 坤宇温室

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## 覆盖材料 Cover material



### 双层阳光板

Double layer polycarbonate panel

厚度/Thickness (mm)	建议宽度/Width (mm)	建议长度/length (mm)
4mm	≤2100mm	≤10000mm
6mm	≤2100mm	≤10000mm
8mm	≤2100mm	≤10000mm
10mm	≤2100mm	≤10000mm
12mm	≤2100mm	≤10000mm

# 坤宇温室

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## 覆盖材料 Cover material



### 三层PC板

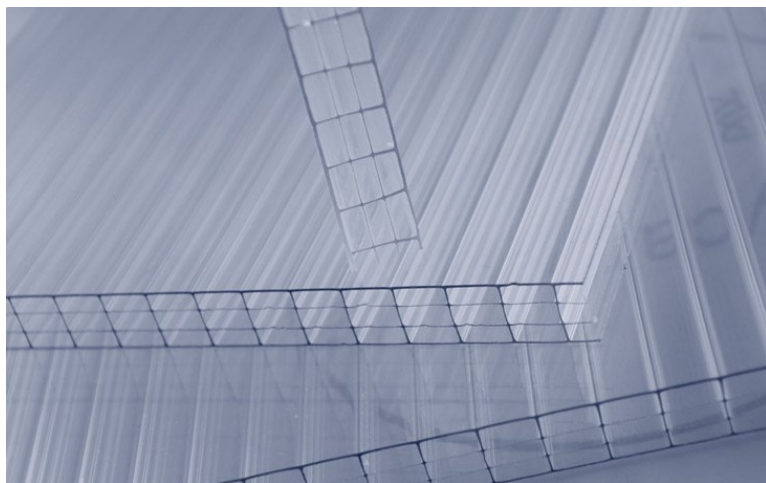
Three layer polycarbonate panel

厚度/Thickness (mm)	建议宽度/Width (mm)	建议长度/Length (mm)
8mm	≤2100mm	≤10000mm
10mm	≤2100mm	≤10000mm
12mm	≤2100mm	≤10000mm
14mm	≤2100mm	≤10000mm
16mm	≤2100mm	≤10000mm
18mm	≤2100mm	≤10000mm

# 坤宇温室

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## 覆盖材料 Cover material



### 四层PC板

Four layer polycarbonate panel

厚度/Thickness (mm)	建议宽度 /Width (mm)	建议长度/Length (mm)
8mm	≤2100mm	≤8000mm
10mm	≤2100mm	≤8000mm
12mm	≤2100mm	≤8000mm
14mm	≤2100mm	≤8000mm
16mm	≤2100mm	≤8000mm
18mm	≤2100mm	≤8000mm
20mm	≤2100mm	≤8000mm

# 坤宇温室

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## 覆盖材料 Cover material

### PC浪板 PC wave plate



厚度/Thickness (mm)	建议宽度 /Width (mm)	建议长度/Length (mm)
0.8mm	≤870mm	≤1180mm
1.0mm	≤870mm	≤1180mm
1.2mm	≤870mm	≤1180mm
1.5mm	≤870mm	≤1180mm
1.8mm	≤870mm	≤1180mm
2.0mm	≤870mm	≤1180mm
2.2mm	≤870mm	≤1180mm
2.5mm	≤870mm	≤1180mm
3.0mm	≤870mm	≤1180mm



# 坤宇温室

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## 覆盖材料 Cover material



### 彩钢板 Color steel

( 镀铝锌钢板/ Galvalume )

厚度/Thickness : 0.2mm-0.5mm

彩钢板，是指彩涂钢板，彩涂钢板是一种带有有机涂层的钢板。彩钢板分为单板、彩钢复合板、楼承板等。广泛使用于大型公共建筑、公共厂房、活动板房、及集成房屋的墙面和屋面。

Color steel with organic coating is divided into single board, double layer board, floor board and so on.

Widely used in large public buildings, public factories, prefab house, and walls and roofs of the integrated house.

#### 缺点

- 1、维护成本高
- 2、保温隔热隔音性能差
- 3、抗风雪抗压能力弱
- 4、时间长了易生锈

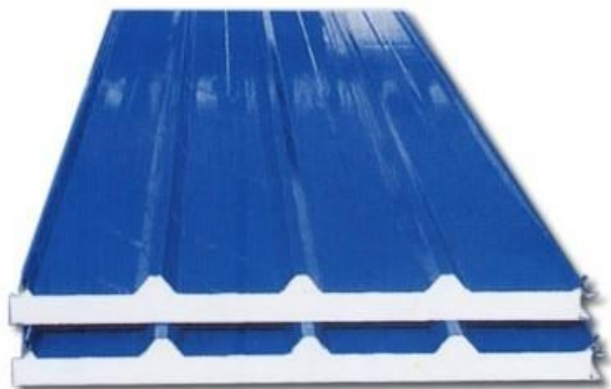
#### Shortcomings

- 1, High maintenance costs
- 2, Poor insulation
- 3, Resistance to wind and snow is weak
- 4, Easy to rust

# 坤宇温室

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## 覆盖材料 Cover material



### 泡沫板 Foam board

(上下为彩钢板, 中间为泡沫 Color steel & Foam)

【面材/plane materiel】上/下0.3~0.6mm彩钢板/0.3-0.6mm thickness color steel

【宽度/Width】: 1050mm

【厚度/Thickness】: 50~150mm

泡沫夹芯板外形美观, 色泽艳丽, 整体效果好, 它集承重, 保温, 防水于一体, 且无需二次装修, 是一种用途广泛, 特别是在对于建筑工地的临时设施如办公室, 仓库, 围墙等, 更体现了现代施工工地的文明施工, 尤其在快速安装投入使用方面, 在可装可拆、材料的周转复用指数方面, 都有明显优势, 较大幅度降低建筑工地临时设施费用, 将是不可缺少的新型轻质建筑材料。

### 缺点

- 1、色彩单调。泡沫夹芯板颜色单一, 表层并不精致, 如果处理不当, 极易生锈腐蚀。
- 2、整体性能有缺陷。泡沫夹芯板中部的聚苯泡沫板是易燃物品, 导致泡沫夹芯板本身所适应的工作环境受限制。
- 3、平整度有限。
- 4、污染问题。

The foam sandwich panel is beautiful in appearance, bright in color, and has good effect. It integrates load-bearing, heat-insulating and water-proof, and does not require secondary renovation. It is widely used for temporary facilities such as warehouses, surrounding walls, etc.

### Shortcomings

- 1, Color Monotonous. The foam sandwich panel was single color and it will rust easily.
- 2, Performance flawed. Inside of the foam sandwich panel is flammable article, and the plane materiel protection capability is not high.
- 3, Flatness limited.
- 4, Pollution problems.

# 坤宇温室

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## 覆盖材料 Cover material



**夹芯板 Sandwich panel** (上下两层金属面板, 中层高分子隔热内芯 Material: Plane Color steel, Inside polymer insulated core )

厚度/Plane thickness: 0.2mm~1.0mm

芯材厚度/Core thickness: 50mm ~250mm

有效长度/Length: 1000mm、1200mm、960mm、950mm

岩棉夹芯板是一种以岩棉为原料制成的夹心板。岩棉夹芯板充分发挥了岩棉芯材的独特性能, 在防火, 保温隔热, 吸音隔声等方面有着显著的功效。

缺点:

- 1.岩棉板不能替代找坡, 需要做找坡层。
- 2.吸水率大, 水分容易积累在岩棉板内, 长时间会增加保温层重量, 导致保温层脱落, 返修率高。
- 3.工序复杂, 工期长。

Rock wool sandwich panel is a kind of sandwich panel made of rock wool. It panels give full play to the unique properties of rock wool materials, and have significant effects in fire prevention, thermal insulation, sound absorption and sound insulation.

**Shortcomings:**

- 1.The rock wool board cannot make slope, and it needs to find the slope.
- 2.The water absorption rate is high, the water easily accumulates in the rock wool board, which increase the weight of the rock wool with time, resulting in the insulation will layer falling off and the repair rate being high.
- 3.The process is complicated and the construction period is long.

# 坤宇温室

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## 配套产品 Matching products



### 托膜线 Polyester wire

( 聚酯塑钢材质 , 黑色/透明可选 Material: Polyester, Color: black / transparent )

常用直径/Diameter	常规长度/Length	重量/Weight
2.2mm	1700m	10kg/卷 10kg/Roll
3.0mm	800m	



### 补膜胶 Film patch ( PVC材质 Material: PVC )

常用宽度/Width	常规长度/Length
7cm	20cm
7.5cm	20cm

# 坤宇温室

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## 配套产品 Matching products

### 压膜卡 Snap clamp

(合金塑料材质 Material: ABS)



常用规格 (直径)  
/Diameter

19mm

22mm

25mm

32mm

### 带勾压膜卡 Snap clamp with hook

(合金塑料材质 Material: ABS)



### 刮网条 Net scratch

(不锈钢304材质 Material: stainless steel 304)



### 网扣 Split rings

(不锈钢304材质 Material: stainless steel 304)



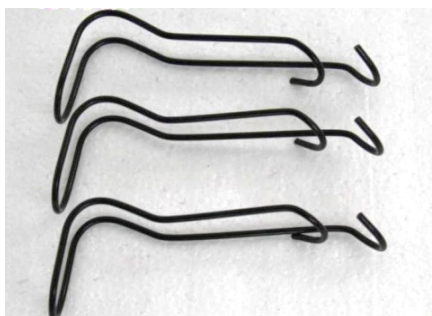
# 坤宇温室

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## 配套产品 Matching products

### 钢丝夹 Spring clamp

( 弹簧钢丝电泳 Spring Steel Wire Electrophoresis )



#### 常用规格 /Specification

25mm

32mm

32mm-25mm

32mm-20mm

### 压膜带 Film band ( 尼龙材质 Material: Nylon )



#### 常用宽度 /Width

1.3cm

2.0cm

#### 常用长度 /Length

300m

300m

### 鸭嘴夹 Duckbill clip

( 热镀锌钢板冲制成形 Material :Hot dip galvanized )



#### 常用规格 /Specification

25mm

32mm-25mm

32mm-20mm

#### 常规厚度 /Thickness

1.2mm

### 卷绳筒 Reel

( 铝合金/塑料材质 Material: Aluminum alloy/plastic )



# 坤宇温室

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## 配套产品 Matching products



**水槽布 Waterproof cloth gutter**  
(PVC材质 Material: PVC)

常用规格(宽度)  
/Width

50cm

60cm



**U型卡 U type lock**  
(镀锌钢筋、镀锌钢板  
Material: Galvanized steel)

常用规格  
/Specification

φ25mm

φ32mm



**全包卡 Full strap**  
(热镀锌材质 Material: Hot dip galvanized)

常用规格 /specification	厚度 /Thickness
φ25mm	1.2mm
φ32mm	
φ42mm	



**半包卡 Half strap**  
(热镀锌材质 Material: Hot dip galvanized)

常用规格 /Specification	厚度 /Thickness
φ25mm	1.2mm
φ32mm	
φ42mm	

# 坤宇温室

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## 配套产品 Matching products



### V字钢丝夹 V clip

热镀锌材质  
Material: Hot dip  
galvanized  
厚度/Thickness : 1.2mm



### 大吊轮 Hanging Wheel

镀锌板/尼龙滑轮  
Material:  
Galvanized  
sheet/nylon pulley  
厚度 : 2.0mm



### 直码, 勾码

Screw shim  
热镀锌材质  
Material: Hot dip  
galvanized  
厚度/Thickness : 2.75mm



### 卡铝连接片 Splice plate

热镀锌材质  
Material: Hot dip  
galvanized  
厚度/Thickness : 0.8mm



# 坤宇温室

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## 温室卷膜装置 Ventilation product



手动侧部卷膜器  
Manual film roll up  
crank

可卷长度/ Rollable length: 120m  
可卷高度/ Rollable height: 2m  
比速/Rate 4 : 1



手动顶部卷膜器  
Film roll up motor

可卷长度/ Rollable length:  
120m  
可卷高度/ Rollable height:  
1.5m  
比速/Rate 4 : 1



涡轮卷膜器  
Turbine film roll up crank

可卷长度/ Rollable length: 40m  
可卷高度/ Rollable height: 1.5m  
比速/Rate 7.5 : 1



铝制手动卷膜器 (顶部侧部)  
Aluminum manual film  
crank (top & side)

可卷长度/ Rollable length:  
100m  
可卷高度/ Rollable height: 5m  
比速/Rate 4 : 1

# 坤宇温室

专注农业 服务三农

温室卷膜装置 Ventilation product



**电动卷膜器 (配爬升器)**  
Film roll up motor(with climber)

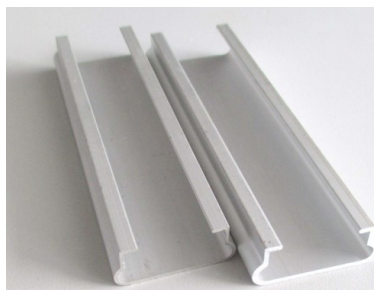
电压 /Voltage	功率 /Power	转速 /Rate	扭矩 (卷膜长度) /Torque(Rollable length)
DC 24V	50W	3.8RPM	40N.m (可卷50米) /can roll 50m
DC 24V	80W	3.8RPM	60N.m (可卷80米) /can roll 80m
DC 24V	100W	3.5RPM	80N.m (可卷100米) /can roll 100m
DC 24V	120W	3.5RPM	100N.m (可卷120米) /can roll 100m

# 坤宇温室

专注农业 服务三农

## 温室覆盖资材

Greenhouse cover material



### 铝卡槽

Aluminum locking profile

常规长度/Common length:  
6m

厚度/Thickness : 0.7-1.2mm

(根据客户要求订制  
Customized is available )

包装 Package : 20支/捆  
20pcs/ bundle



### 彩板卡槽

Color plate locking  
profile

常规长度/Common  
length: 6m

厚度/Thickness: 0.5, 0.6,  
0.7mm

包装/Package : 10支/捆  
10pcs/ bundle



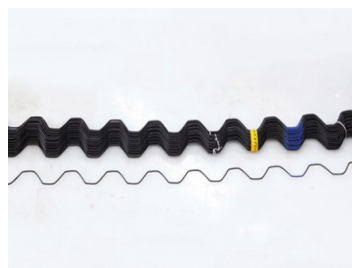
### 方卡槽

Galvanized steel profile

常规长度/ Common  
length: 6m

厚度/Thickness : 0.7,  
0.8mm

包装/Package : 8支/捆  
8pcs/ bundle

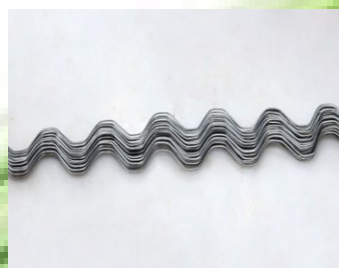


### 浸塑卡簧

Plastic coating wiggle wire

钢丝直径/Diameter : 2.0mm  
长度/Length : 2m

包装/Package : 500支/包  
500pcs/Bag



### 不锈钢卡簧钢丝

Stainless steel

wiggle wire

直径/Diameter: 2.0mm  
长度/Length: 2m

包装/Package : 500支/包  
500pcs/Bag

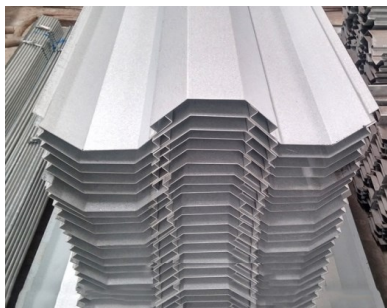
# 坤宇温室

专注农业 服务三农

## 温室开窗装置及骨架

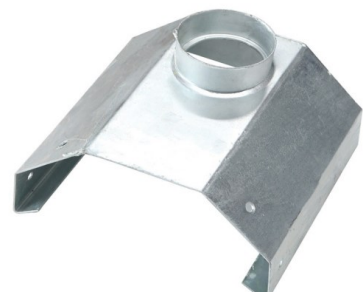
Ventilation and

structure



### 水槽 Gutter

水槽各材料、规格、形状可定制。常用材料主要为：镀锌板、锌铝板、黑板（黑板压成后热浸锌）  
The material, specifications and shapes of the gutter can be customized.  
Common material: Galvanized sheet, Galvalume, Black iron (Hot dip galvanized after finish) .



### 水槽托 Gutter stand

水槽、C型槽各种配件接受定制。常用材料主要为：镀锌板、锌铝板、板黑板（黑板压成后热浸锌）  
Accessories of the gutter, C type steel can be customized.  
Common material: Galvanized sheet, Galvalume, Black iron (Hot dip galvanized after finish) .



### 拉幕减速机 Draw curtain gear motor

功率/Power : 0.55KW,0.75KW  
电流/Current : 1.4A,1.8A  
扭矩/Torque : 400N.m,600N.m



### 开窗减速机 Ventilation gear motor

功率/Power : 0.55KW 0.75KW  
电流/Current : 1.7A 2.2A  
扭矩/Torque : 600N.m 800N.m



### C型槽 C type steel

C型槽各材料、规格、形状可定制，接受特殊规格定制，常用材料主要为：镀锌板、锌铝板。  
The material, specifications and shapes of the C type steel can be customized.  
Common material: Galvanized sheet, Galvalume, Black iron (Hot dip galvanized after finish) .

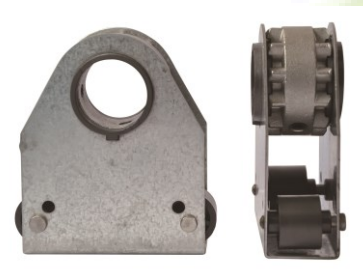
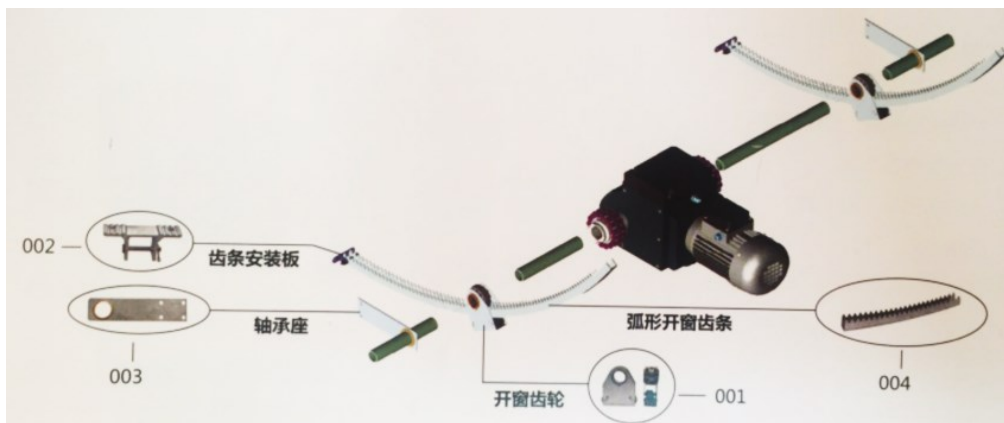
减速机包装图 Package

# 坤宇温室

专注农业 服务三农

## 温室开窗装置

Greenhouse ventilation



L001开窗齿轮  
材质：镀锌钢板  
适用齿条高度：30mm  
L001 Ventilation gear  
Material: Galvanized steel  
Applicable height: 30mm



### L002齿条安装板

材质：铝制

用于开窗齿条与窗框的安装连接。

L002 Gear mounting plate

Material: Aluminum

It is used to connect the window rack and window frame.



### L003轴承座

1" 铜套、5/4" 铜套直板

对驱动轴进行支撑。

L003 Bearing seat

1" , 5/4 "Copper set plate

Support the drive shaft.



### L004 弧形开窗齿条

Curved ventilation rack

长度/Length : 1050、1250mm

厚度/Thickness : 2.0 mm

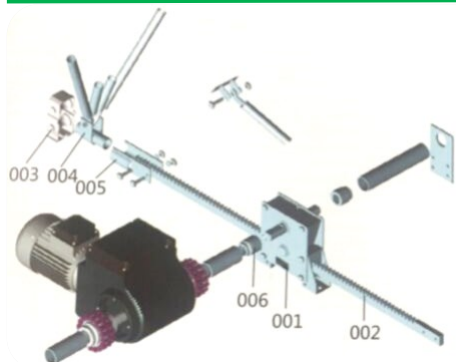
高度/Height : 30mm

# 坤宇温室

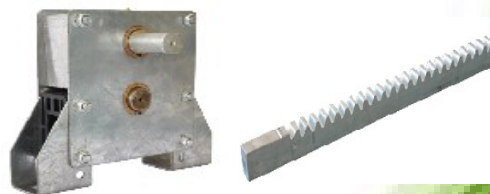
专注农业 服务三农

## 温室开窗装置

Greenhouse ventilation



- 001. 轨道交错式开窗齿轮
- 002. 轨道交错式开窗齿条
- 003. 轨道交错式开窗支撑滚轮
- 004. 轨道交错式开窗推杆支座
- 005. 轨道交错式开窗齿条推杆接头
- 006. 焊接接头



001/ 002轨道交错式齿轮齿条  
Track interleaving rack and pinion  
长度/Length : 1050 , 1200mm



003支撑滚轮 Support roller  
规格/Specification :  $\varnothing 32$   
用于轨道交错式开窗支撑推杆。  
Used for track staggered ventilation support push rod.



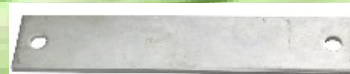
004推杆支座 Putter stand  
规格/Specification :  $\varnothing 32$   
用于轨道交错式开窗推杆与天窗支撑臂连接。  
It is used to connect the staggered window opening push rod with the roof support arm.



005齿条推杆接头  
Rack push rod connector  
规格/Specification :  $\varnothing 32$   
用于轨道交错式开窗推杆与齿条连接。  
It is used to connect the staggered window opening push rod with the rack.



006焊接接头  
Welded joint  
用于轨道交错式开窗齿轮与驱动轴的连接。  
It is used to connect the staggered window opening gear with the driving shaft.



007齿轮垫板  
Gear base plate  
用于轨道交错式开窗齿轮的安装。  
It is used to install the staggered window opening gear.



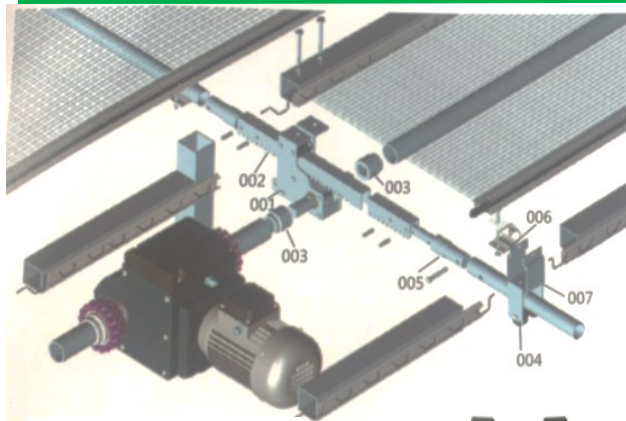
008电机固定架  
Motor mount  
用于将开窗电机安装在骨架上，共3件。  
It is used to install the motor on the structure, total 3 pcs.

# 坤宇温室

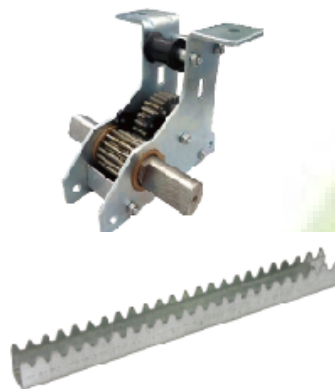
专注农业 服务三农

## 温室开窗装置

Greenhouse ventilation



- 001. A型拉幕齿轮
- 002. 拉幕齿条
- 003. 焊接接头
- 004. 推杆支撑滚轮
- 005. 齿条推杆接头
- 006. 推杆驱动卡
- 007. 支撑滚轮抱箍



A001/002拉幕齿轮齿条  
Draw curtain rack & pinion  
材质/Material : 钢制/Steel  
长度/Length : 2965, 3965mm  
厚度/Thickness : 2.0mm



A003焊接接头  
Welded joint  
材质/Material :  
钢制/Steel  
用于A型拉幕齿轮与驱动轴连接。  
It is used to connect the A type gear with the driving shaft.



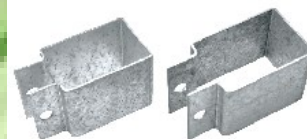
A004推杆支撑滚轮  
Push rod support roller  
Ø27、Ø32推杆专用，固定时需抱箍或用螺栓连接。  
Ø27、Ø32 push rod dedicated, fixed with hoop or bolted.



A005齿条推杆接头  
Rack push rod connector  
规格/Specification : Ø27、Ø32  
用于轨道交错式开窗推杆与齿条的连接。It is used to connect the staggered window opening push rod with the rack.



A006推杆驱动卡  
Push rod driver card  
规格/Specification :  
Ø27、Ø32



A007支撑滚轮抱箍  
Support roller hoop  
规格/Specification :  
60\*40mm ( 竖用 vertical )  
50\*50mm  
40\*60mm ( 竖用 vertical )  
40\*40mm

# 坤宇温室

专注农业 服务三农

## 温室开窗装置

Greenhouse ventilation



**BOO1吊网片**  
Weight washer  
规格/Specification :  $\varnothing 50$   
遮阳网边部配套, 具有抗风作用。Shading net edge using, with wind effect.



**BOO2内用定位簧**  
Positioning spring  
托、压膜线定位用, 用于驱动边型材。Polyester wire, film band positioning.



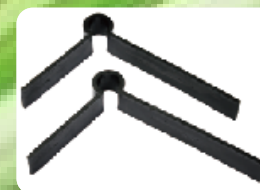
**BOO3塑料网夹**  
Plastic mesh clip  
固幕线与遮阳网固定使用。Fixed the curtain band with the shading net.



**BOO4 S型网钩**  
S type net fixer  
用于边部固定遮阳网。Shading net edge fixing.



**BOO5网钩**  
Net fixer  
用于边部固定遮阳网。Shading net edge fixing.



**BOO6塑料赶网片**  
Plastic net catcher  
与 $\varnothing 19$ 圆管配合使用, 固定遮阳网并有赶网作用。Using with  $\varnothing 19$  round tube to fix and catch shading net.



**BOO7不锈钢赶网片**  
Stainless steel net catcher  
用于幕的定向收拢。采用不锈钢材质, 回弹性好, 不变形。Used for directional retraction of the curtain. Made of stainless steel, good elasticity.



**BOO8带平台小卡箍**  
Small clamp with platform  
用于遮阳网与 $\varnothing 19$ 圆管的固定。Fixing the shading net with the  $\varnothing 19$  round tubes.



**BOO9大/小定位导向卡**  
Guide card  
 $\varnothing 19$ 固定遮阳网, 定位上、下托幕线。Fixing the shading net and polyester wire.



# 坤宇温室

专注农业 服务三农

## 温室开窗装置

## Greenhouse ventilation



BOO10大小不锈钢定位  
导向卡 Stainless steel  
guide card  
规格/Specification :  
ø19  
固定遮阳网, 定位上、下  
托幕线。Fixing the  
shading net and  
polyester wire.



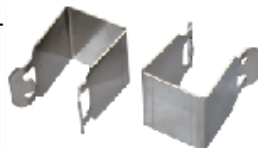
BOO11网固定导向卡  
Net fixing guide card  
规格/Specification : ø19  
将驱动线固定在驱动圆管上。  
Fixing the wire to the  
driving  
tube.



BOO12带螺丝驱动卡  
Drive card with screw  
规格/Specification :  
ø19  
将驱动线固定在ø19圆管  
上。  
Fixing the wire to the  
driving tube.



BOO13拉幕齿轮固定垫片  
Draw curtain gear fixing  
plate  
A型拉幕齿轮安装用垫片。  
Type A draw curtain gear  
mounting plate.



BOO14防滑卡 Anti-slip  
card  
安装于A型齿轮输入轴上, 方  
便驱动轴安装与拆卸。  
Mounted on the A-type  
gear input shaft. Installation  
and removal easily for the  
drive shaft.



BOO15推拉支撑滚轮  
Push rod support roller  
支撑ø27、ø32推杆专用,  
固定时不需要抱箍。  
Supports ø27 and ø32  
push rods, do not  
require a hoop for  
fixing.



BOO16铝制方型驱动卡  
Aluminum square drive  
card  
铝合金材料, 连接驱动线与  
驱动边型材。Aluminum  
alloy material, connecting  
drive wire and drive side  
profile.



BOO17轴承座 Bearing seat  
尼龙套、两片夹板  
支撑驱动轴。  
Nylon protective case,  
support the drive shaft.



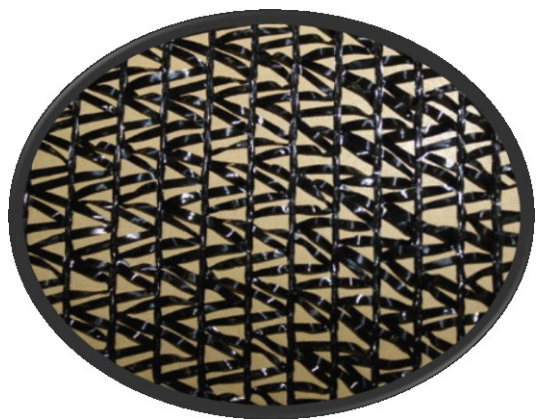
BOO18 T型螺栓  
T bolt  
温室专用螺栓。  
Greenhouse bolts

# 坤宇温室

专注农业 服务三农

## 遮阳网 Shading net

### 交织网 Woven mesh



颜色、遮阳率/Color, Shade rate	常规尺寸(Regular size)				
黑色, 银色50-55% Black, Silver 50-55%	2x150m	3x150m	-	-	4.2x150m
黑色, 银色60-65% Black, Silver 60-65%			-	-	4.2x100m
黑色, 银色70-75% Black, Silver 70-75%			3.5x100m	4x100m	
黑色, 银色80-85% Black, Silver 80-85%		3x100m	-	-	
黑色, 银色90% Black, Silver 90%					
黑色, 银色95% Black, Silver 95%					

采用聚乙烯(HDPE), 高密度聚乙烯、PE、PB、PVC、回收料、全新料、聚乙丙等为原材料, 经紫外线稳定剂及防氧化处理, 具用抗拉力强、耐老化、耐腐蚀、耐辐射、轻便等特点

Uses high-density polyethylene (HDPE), PE, PB, PVC, recycled materials, new materials as raw materials, through UV stabilizers and anti-oxidation treatment, with strong tensile strength, aging resistance, Corrosion resistance, radiation resistance, light weight and other characteristics

# 坤宇温室

专注农业 服务三农

## 遮阳网 Shading net

### 圆丝遮阳网 knitted mesh



颜色, 遮阳率/Color, Shade rate	常规尺寸 /Regular size		克重/Weight
黑色/Black 50-55%	4.3x150m	6x100m	120
黑色/Black 60-65%			130
黑色/Black 70-75%			145
黑色/Black 80-85%			170
黑色/Black 90%	4.3x100m		200

采用聚乙烯(HDPE), 高密度聚乙烯、PE、PB、PVC、回收料、全新料、聚乙丙等为原材料, 经紫外线稳定剂及防氧化处理, 具用抗拉力强、耐老化、耐腐蚀、耐辐射、轻便等特点

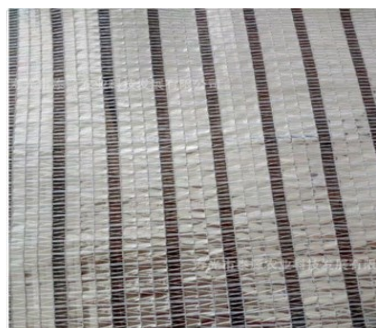
Uses high-density polyethylene (HDPE), PE, PB, PVC, recycled materials, new materials as raw materials, through UV stabilizers and anti-oxidation treatment, with strong tensile strength, aging resistance, Corrosion resistance, radiation resistance, light weight and other characteristics

# 坤宇温室

专注农业 服务三农

## 遮阳幕 Shading curtain

### 铝箔遮阳保温幕 Aluminum foil shading thermal curtain



遮阳率 /Shade rate	常规宽度 /Regular width
25%	4.3m
50%	
65%	
75%	
90%	

### 铝箔外遮阳帘幕 Aluminum foil external shading curtain



遮阳率 /Shade rate	常规宽度 /Regular width
50%	4.3m
65%	
75%	
99%	

### 黑白遮阳帘幕 Black/White shading curtain

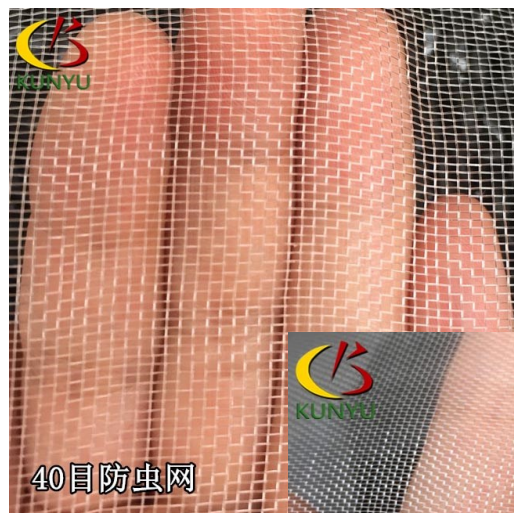


遮阳率 /Shade rate	常规宽度 /Regular width
50%	4.3m
60%	
70%	
90%	

# 坤宇温室

专注农业 服务三农

## 防虫网 Insect proof net



40目防虫网



60目防虫网

材质：高密度聚乙烯  
Material: high density polyethylene

目数/Mesh	常规尺寸/Regular size	
32目/Mesh 32	1x450m	2x450m
40目/Mesh 40	1.2x450m	2.5x400m
60目/Mesh 60	1.5x450m	3x350m

# 坤宇温室

专注农业 服务三农

## 地布 Ground cover

### 地布 Ground cover (PE材质 Material: PE)



### 地布钉 Ground cover nail

(PP材质 Material: PP)

长度/Length: 15cm



重量 (每平米/克) Weight (sqm/g)	常规尺寸 (宽x长) Regular size (Width x Length)	备注 remark
90克 (通用型) 90g (Common)	1x200m 2x200m	整件不裁剪 (Whole pieces, no clipping)
80克 (通用型) 80g (Common)	3x100m 4x100m 5x100m	
90克 (室外专用) 90g (Outdoor dedicated)	6x100m	

# 坤宇温室

专注农业 服务三农

## 温室降温系统材料

Greenhouse cooling system material



**温室专用负压风机（耗能小、寿命大、噪音小、风量大）**

Greenhouse Exhausted Fan, low energy consumption, low noise, long service life.



功率 (kW)	空气流量 (m <sup>3</sup> /h)	电压/频率 (V/Hz)	扇叶直径 (mm)	噪音 (BA)	重量 (KG)	扇叶转速 (r/min)	外形尺寸 (mm)
1.1	44500	380/50	1270	68	75	445	1380*1380*400
0.75	37000	380/50	1110	65	60	485	1220*1220*400
0.55	32000	380/50	950	60	55	500	1060*1060*400
0.37	28000	380/50	790	55	50	520	900*900*400

# 坤宇温室

专注农业 服务三农

## 温室降温系统材料

Greenhouse cooling system material

### 直驱式负压风机

Direct drive type negative pressure fan

产品图片及参数



直驱式900



直驱式1060



直驱式1220



直驱式1380



镀锌板外框  
Outer frame of galvanized sheet



T字架  
T stand



铝合金风叶  
Aluminum alloy blades



直驱高等级电机  
The high level of direct drive motor

电机：3C认证高效节能全铜线电机

扇叶：航空铝合金板材一次冲压成型、美观耐用、风量大、噪音低。

皮带：进口优质A型皮带，寿命长，在整个周期内免于频繁维修

皮带轮：热压铸造成型，材质轻，强度高，韧性好。

百叶窗：百叶采用自动闭合装置，自动开合，防风防雨防尘。

外框：表面厚镀锌层保护，抗腐蚀性更强。

防护网：高密度镀锌层，不易生锈，全面提高风机运行安全系统。

**Motor:** 3C certified high efficiency and energy saving copper wire motor

**Fan blade:** Aviation aluminum alloy plate stamping molding, beautiful and durable, large air volume, low noise.

**Belt:** imported high quality A-belt, long life, free of frequent maintenance during the entire cycle

**Pulley:** Hot-pressed casting, light weight, high strength and good toughness.

**Blinds:** The louvers are automatically closed and open, closed, windproof, rainproof and dustproof.

**Frame:** The surface is covered with a thick galvanized layer for better corrosion resistance.

**Protective net:** high-density galvanized layer, not easy to rust, and comprehensively improve the fan operating system.



# 坤宇温室

专注农业 服务三农

## 温室降温系统材料

Greenhouse cooling system material



水帘上槽  
Pad top frame



水帘下槽  
Pad bottom frame



水帘侧框  
Pad side frame

水帘槽框规格 (铝合金材质)  
Specification (Material: Aluminum)

常用宽度/Width	常用长度/Length
10cm	6m
15cm	6m



水帘端盖  
Pad frame end cover



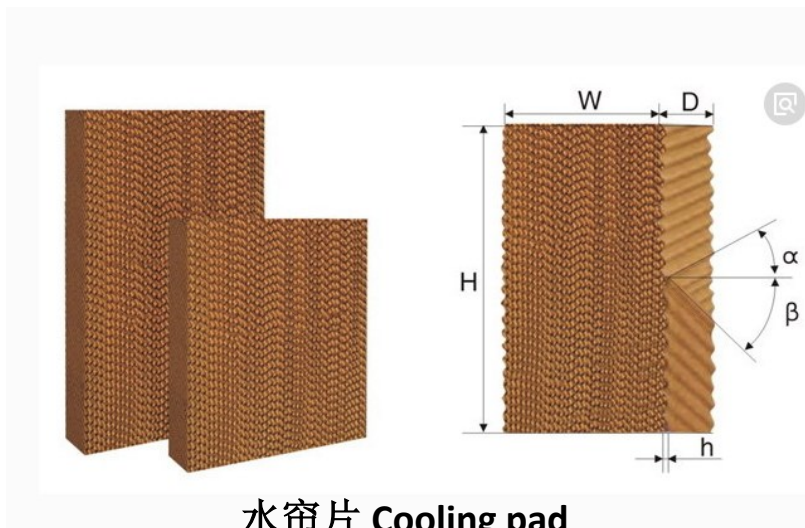
水帘下水器  
Stainless steel drainage outlet

# 坤宇温室

专注农业 服务三农

## 温室降温系统材料

Greenhouse cooling system material



水帘片 Cooling pad

型号/Type	7090	6090	5090
水帘高度 Height (mm)	1500,1800,2000	1500,1800,2000	1500,1800,2000
水帘宽度 Width (mm)	600,300	600,300	600,300
水帘厚度 Thickness (mm)	100,150,200,300	100,150,200,300	100,150,200,300
水帘波纹高度 Ripple height (mm)	7	6	5
水帘波纹角度 Corrugation angle (°)	45	45	45

# 坤宇温室

专注农业 服务三农

## 温室降温系统材料

Greenhouse cooling system material



备注：1. 上述水帘框安装简易，便于维护和更换水帘纸；  
2. 以上所有铝合金(包含上下端盖) 都有抗氧化处理，延长其寿命；  
3. 本公司采用进口水帘纸，其湿水性强，制冷效果强。



1.  $\phi 32$  PVC Pipe 2. Pad frame end cover 3. Water curtain 4. Pad frame end cover 5.  $\phi 40$  Stainless steel drainage outlet  
6. Pad bottom frame 7. Pad side frame 8. Pad frame split 9. PVC pipe fixer 10. PVC pipes accessories 11. Pad top frame

# 坤宇温室

专注农业 服务三农

## 植床工程系统材料

Bench project material

植床铝料

Bench aluminum accessories



热镀锌植床脚

Hot dip galvanized bench foot



苗床胶角

Bench plastic corner



移动苗床  
Rolling bench



苗床支架采用热镀锌钢管，边框采用铝合金，苗床网表面采用镀层防腐处理；高度可进行微调，具有防翻限位装置，且在任意苗床之间产生0.8m的作业通道。

性能特点：

- 1、 它能有效地提高温室的利用率，通常能使温室使用面积达85%左右。
- 2、 系统稳定、可靠、美观、高档。

The bench structure are using the hot-dip galvanized steel pipe, aluminum alloy frame, the surface of the bench mesh adopts plating anti-corrosion treatment, the height can be fine-tuned, providing the anti-overturn limit device, and a 0.8m working way is generated between arbitrary seedbeds.

The performance characteristics:

1. It can effectively improve the utilization of greenhouses, and usually it can make the greenhouse use area reach 85%.
2. System stable, reliable, beautiful and high-grade.

# 坤宇温室

专注农业 服务三农

## 植床工程系统材料

Bench project material



压网码

Bench mesh pressing



膨胀螺丝

Expansion bolt



手轮

Hand wheel

# 坤宇温室

专注农业 服务三农

植床工程系统材料

Bench project material



## 塑胶植床网 Plastic bench mesh

常用宽度/Width	常用长度/Length	网格大小/Mesh size
0.95m	1.8m	40mm X 40mm
0.95cm	1.75m	



## 热镀锌植床网 Hot dip galvanized bench mesh

常用宽度/Width	常用长度/Length
任意定制 Customized	

# 坤宇温室

专注农业 服务三农

## 植床工程系统材料

## Bench project material



潮汐式苗床  
Ebb and flow bench



The performance characteristics:

- 1.Labour saving and cost effective
- 2.Versatile system
- 3.An entire acre or more can be watered automatically and efficiently
- 4.Plants are watered everyday, reducing losses to poor watering practices.
- 5.Plants can be fully fertilized as they are being watered.
- 6.Compatible with many computer control systems.

性能特点：

- 1.节省劳动成本
- 2.多功能系统
- 3.可以自动高效地浇灌一英亩或更多的土地。
- 4.作物均匀浇水，减少胶水方式不佳造成的损失。
- 5.植物在灌溉时根部充分吸收营养
- 6.兼容许多计算机控制系统

# 坤宇温室

专注农业 服务三农

## 植床工程系统材料

## Bench project material



潮汐苗盘标准 Tray standard size: 4x8ft(1.22x2.44m), 5x5.6ft(1.53x1.7m), 5.6x14.6ft(1.7x4.45m)

苗床宽度 Bench width: 3ft(0.91m), 4ft(1.22m), 5ft(1.53m), 5.6ft(1.7m), 5.83ft(1.78m),  
可定制拼接任意长度 Can splice any length in customized.

苗床标准高度 Bench standard height: 约70cm,可以调节8-10cm(其它高度可定制)  
About 70cm, can adjust 8-10cm(Other height can be customized.)

移动距离 Move distance: 每侧可移动25-30cm Move 25-30cm(Each side)

材料 Material: ABS苗盘, 铝合金边框, 热镀锌苗床脚。

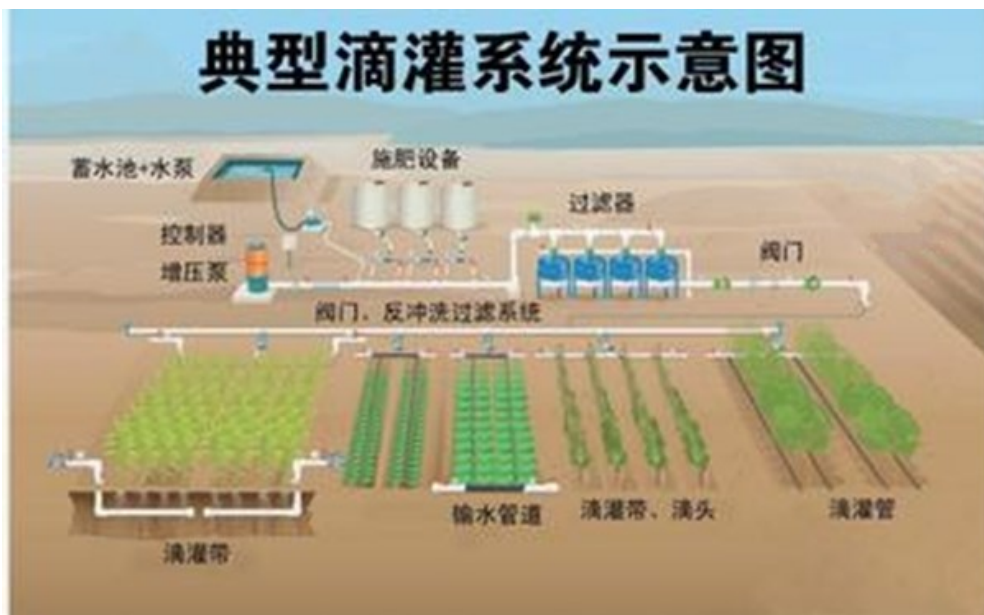
ABS tray, aluminum alloy frame, hot dip galvanized leg.

负载范围 Load range: 45-50kg/m<sup>2</sup>

防紫外线 UV protective ability



### 典型滴灌系统示意图



滴灌 (drip irrigation) 是利用塑料管道将水通过直径约10mm毛管上的孔口或滴头送到作物根部进行局部灌溉。

它是目前干旱缺水地区最有效的一种节水灌溉方式，水的利用率可达95%。滴灌较喷灌具有更高的节水增产效果，同时可以结合施肥，提高肥效一倍以上。可适用于果树、蔬菜、经济作物以及温室大棚灌溉，在干旱缺水的地方也可用于大田作物灌溉。其不足之处是滴头易结垢和堵塞，因此应对水源进行严格的过滤处理。

Drip irrigation is using the plastic tube deliver water to the root of the crop through a hole or dripper on a thin tube approximately 10 mm in diameter for local irrigation.

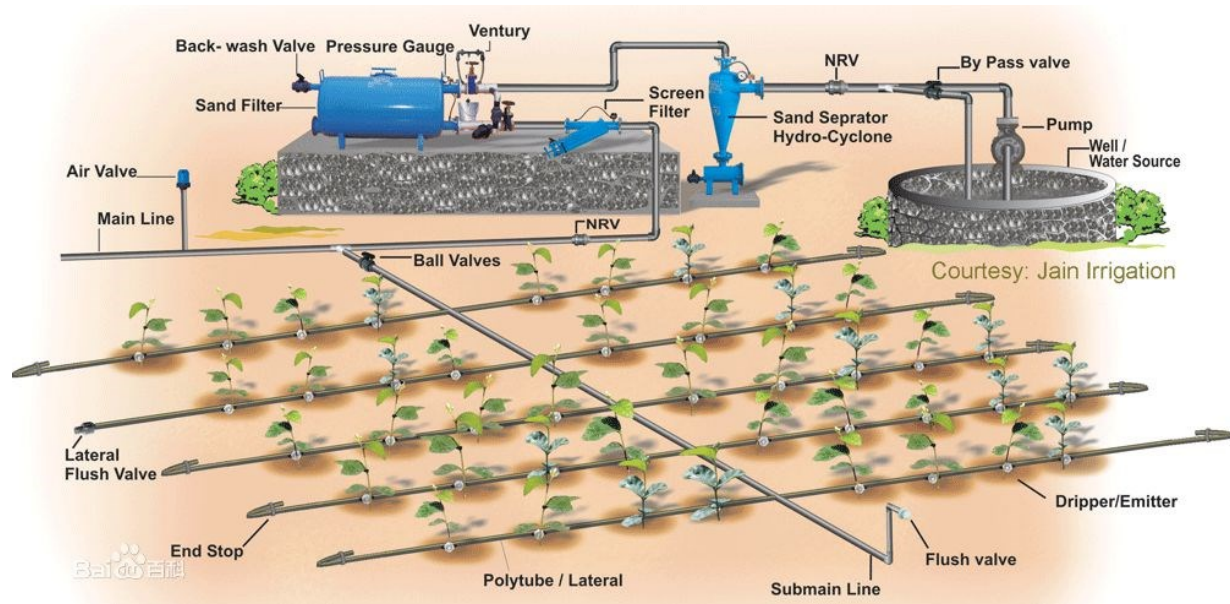
It is the most effective water-saving irrigation way in arid areas, and its water utilization rate can reach 95%. Drip irrigation has higher water-saving and yield-increasing effects than sprinkler irrigation, and it can combine fertilization and improve fertilizer efficiency more than double. It can be applied to the irrigation of fruit trees, vegetables, cash crops and greenhouses. It can also be used for irrigation of field crops in drought-scarce areas. The shortcoming is that the dripper is easy to block, so the water source should be strictly filtered.

# 坤宇温室

专注农业 服务三农

## 喷溉设备材料

## Irrigation system material



滴灌系统主要由首部枢纽、管路和滴头三部分组成。

1. 首部枢纽：包括水泵(及动力机)、施肥罐、过滤器、控制与测量仪表等。其作用是抽水、施肥、过滤，以一定的压力将一定数量的水送入干管。

2. 管路：包括干管、支管、毛管以及必要的调节设备(如压力表、闸阀、流量调节器等)。其作用是将加压水均匀地输送到滴头。

3. 滴头：其作用是使水流经过微小的孔道，形成能量损失，减小其压力，使它以点滴的方式滴入土壤中。滴头通常放在土壤表面，亦可以浅埋保护。

The drip irrigation system is mainly composed of the primary hub, pipelines and drippers.

1. Primary hub: including pumps (and power machines), fertilizing tanks, filters, control and measuring instruments. Its role is pumping, fertilizing, filtering, and feeding a certain amount of water into the main pipe at a certain pressure.

2. Pipeline: Including main pipe, branch pipe, thin pipe and necessary adjustment equipment (such as pressure gauge, gate valve, flow regulator, etc.). Its function is to uniformly deliver pressurized water to the dripper.

3. Dripper: Its role is to make the water flow through a tiny hole, forming energy loss, reducing its pressure, so that it drops into the soil in a drip. The dripper is usually placed on the surface of the soil and can also be protected by shallow burial.



### 滴灌带 Drip tape (Material: PE材质)

规格Specification	折径Fold diameter (mm)	管径Pipe diameter (mm)	厚度Thickness(mm)
N80X0.6X100M	80	48	0.65
N65X0.3mmX200M	65	42	0.3
N50X0.3mmX100M	50	32	0.3
N50X0.2mmX200M	50	32	0.2
N45X0.3mmX100M	45	25	0.3
N45X0.2mmX200M	45	25	0.2

# 坤宇温室

专注农业 服务三农

## 喷溉设备材料

Irrigation system material

### 滴灌管 Drip pipe (Material: PE材质)



规格/Specification Diameter / Thickness / Hole Distance	包装/Package
直径 DN16, 壁厚0.6mm, 间距200mm	500m/卷 500m/Roll
直径DN16, 壁厚0.6mm, 间距300mm	
直径DN16, 壁厚0.6mm, 间距500mm	
直径DN16, 壁厚0.8mm, 间距200mm	
直径DN16, 壁厚0.8mm, 间距300mm	
直径DN16, 壁厚0.8mm, 间距500mm	
直径DN16, 壁厚1mm, 间距200mm	
直径DN16, 壁厚1mm, 间距300mm	
直径DN16, 壁厚1mm, 间距500mm	

壁厚 Thickness	mm	0.60	0.70	0.80	0.90	1.00	0.60	0.70	0.80	0.90	1.00	1.10	1.20
滴头间距 Distance	cm	20-200											
现在流量 Flow	升/小时 L/Hour	2				3				4			
工作压力 Pressure	公斤/KG	0.8-1.2											

# 坤宇温室

专注农业 服务三农

## 喷溉设备材料

Irrigation system material



滴头  
Dripper



地插  
Land insert



旋转喷头  
Rotating sprinkler



补偿滴头  
Pressure Compensation dripper



G型喷头  
G type nozzle



十字雾喷头  
Fog nozzle

# 坤宇温室

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## 喷溉设备材料

Irrigation system material



PE管承接阀门  
PE pipe valve



PE管承接旁通  
PE pipe bypass



PE管堵头  
PE pipe plug



一出二分流器  
Diverter



PE管接头  
PE pipe joint



PE管异径直通  
PE pipe reducing  
coupling



PE管旁承直通  
PE pipe side  
bearing coupling



一出四分流器  
Diverter

# 坤宇温室

专注农业 服务三农

## 喷溉设备材料

Irrigation system material



PE管三通  
PE pipe tee



PE管弯头  
PE pipe elbow



PE管直通  
PE pipe coupling



毛管单挂钩  
Single inverted hook



滴灌三通  
Drip irrigation tee



滴灌堵头  
Drip irrigation plug



滴灌直通  
Drip irrigation coupling



雾化微喷头  
Atomized micro sprinklers

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