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SHAOXING EAGLE FREEZER EQUIPMENT CO.,LTD

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绍兴老鹰冷冻设备有限公司

SHAOXING EAGLE FREEZER EQUIPMENT CO., LTD





## Company profile 企业简介



### 公司主营

速冻机械设备、食品深加工生产流水线，对虾、鱼片等水产速冻生产线，食品烘干生产线，水饺、汤圆等面食类生产线，玉米粒、玉米棒加工生产线，草莓等果蔬类加工生产线，净菜加工生产线，各类冷风机、蒸发式冷凝器冷库等的制造和安装。

## Company main business

Manufacturing and installation of quick freezer equipment, food deep processing production lines such as quick freezing production line for shrimp, fish fillets, aquatic product, food drying production line, dumpling, etc., cooked wheaten food product line, corn kernels & corn cobs processing line, strawberry etc., vegetables & fruits processing line, vegetables cleaning processed production line, and various air coolers, evaporative type condensers and cold storage etc.

绍兴老鹰冷冻设备有限公司是专业从事各类通风机、制冷、速冻设备等食品机械的生产厂家，公司生产设施齐全，工艺流程先进，检测手段完善。产品从原材料采购、设计、制造、检验到供货均严格执行国际ISO标准、国家标准及相关行业标准，在技术开发上，领先国内同行厂家；在售后服务上，公司以“诚信”为原则，以“高起点、高标准、高品质”为宗旨，并逐渐形成了全国范围内的售后服务专线，以满足顾客的需求！

公司毗邻杭甬高速公路及上三高速，交通十分便捷。竭诚欢迎新老客户前来考察指导。

Shaoxing Eagle Freezer Equipment CO., LTD. is a professional manufacturer of various kinds of ventilator, refrigeration, quick freezing equipment and other food machinery. The company has complete production facilities, advanced process flow and perfect testing means. Products from material purchasing, design, manufacturing, inspection and supply are strictly implemented by international ISO standards, national standards and related industry standards. In technical development, the company are ahead of the domestic counterparts. In the after-sales service, the company takes "credibility" as the principle, "high starting point, high standard, high quality" as the purpose, gradually formed a nationwide after-sales service line for meet customers' needs.

The company near by the Hangzhou Ningbo Expressway and Shangyu Sanmen Expressway, the traffic is very convenient. Sincerely welcome new and old customers to visit and guidance!





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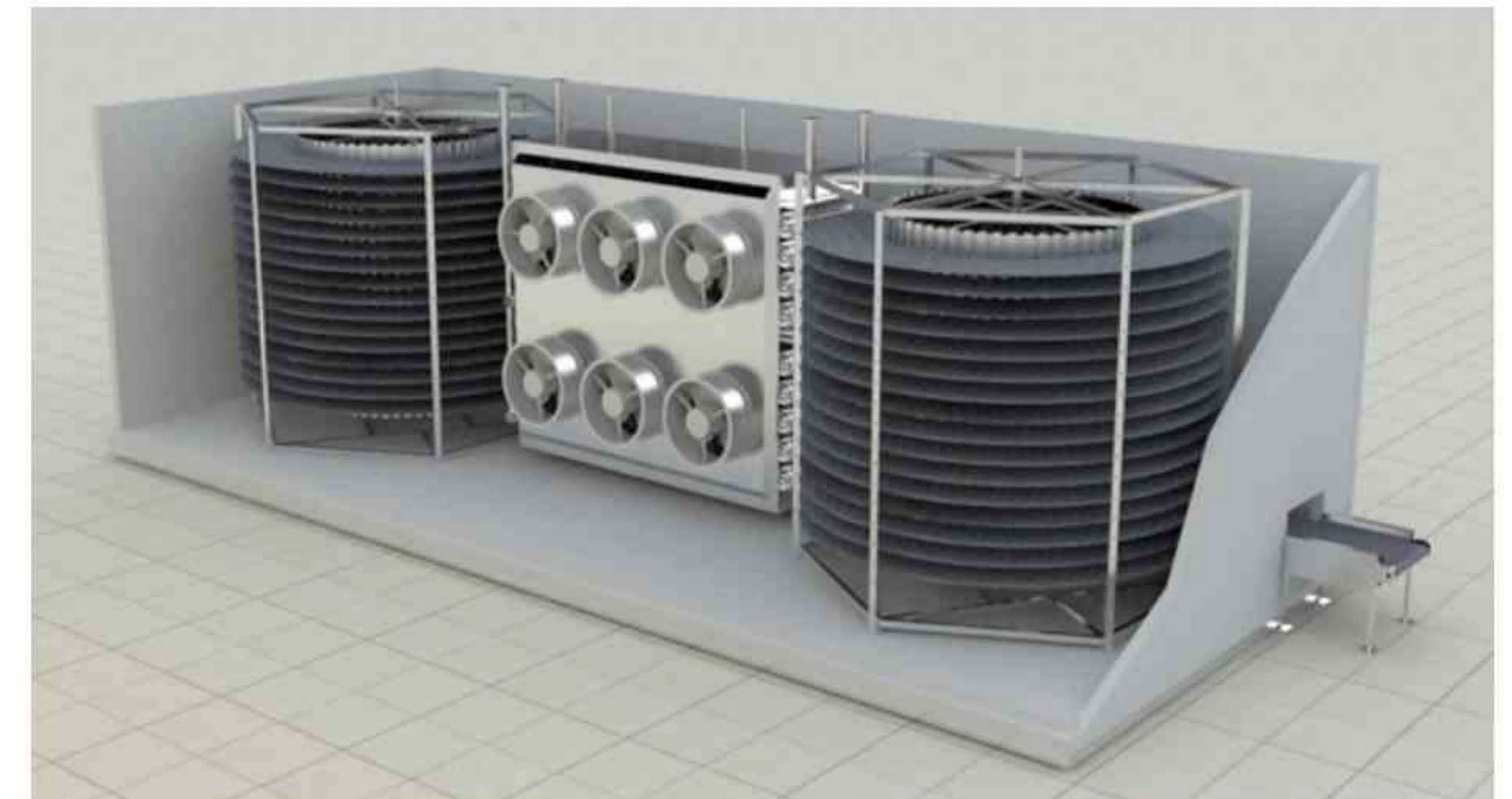
### 螺旋速冻机系列

我们对螺旋速冻机有十多年的设计生产经验，通过引进国外先进技术和自主创新，现拥有多项专利技术，设计制造水平居国内领先。我公司现已成为中国最具规模的螺旋速冻机生产基地，年产量在150台套左右，并每年有几十台套出口世界各地，现累计有近千台螺旋速冻机在国内外使用。螺旋速冻机有多种规格品种，单位产量在300kg/h-6000kg/h之间，并可根据客户要求特殊设计。



### SPIRAL FREEZER SERIES

Because of over decades years' manufacturing experience of Spiral freezer, imported foreign technology and self-development, we have owned many patents. The world-class design and manufacturing capability make ZL as the largest spiral manufacture in the world. The annual capacity of it is about 150 sets, and more than ten sets of them were exported to abroad every year. There are several kinds and specifications of it variable from 300kg/h to 6000kg/h. Further more, we can design different Spiral Freezers according to customers' specific requirement.







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方便清洗的全铝合金蒸发器

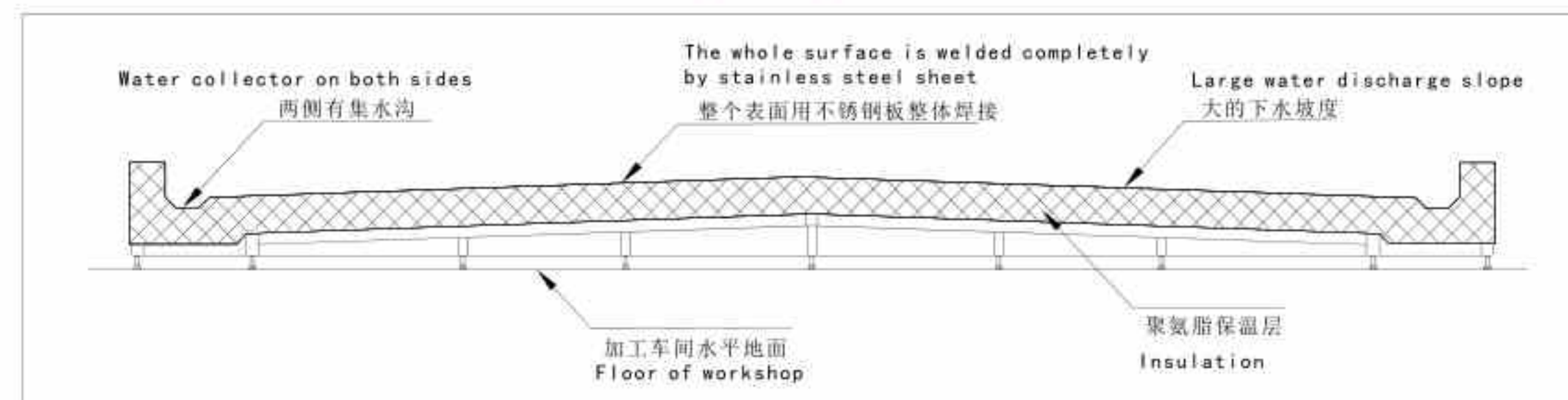
- ◆ 蒸发器用铝合金材料,大张翅片制作,方便清洗,最大限度地减少细菌的滋生.
- ◆ 变片距设计,宽大的迎风面积,有效地防止了霜堵,延长了冲霜间隔时间.
- ◆ 蒸发器采用最新供液方式,换热效率可提高20%以上.

Complete aluminum evaporator facilitate to clean

- ◆ The evaporator tubes and fins are all made by complete aluminum or aluminum-alloy. The large fins, which easy to clean, assure the hygiene requirement.
- ◆ Different fin pitches and large bellowing area avoid frost block and prolong the defrosting interval time.
- ◆ The new refrigerant supply method improves exchanging efficiency by over 20%



### 最理想的排水设计 Most desired drainage design



- ◆ 整体焊接的不锈钢水槽,永不渗漏;大坡度排水设计,清洗容易,排水通畅,保证食品加工的卫生条件。
- ◆ Completely welding stainless steel water slot which will not leak forever, Sloping drainage design facilitates to wash and discharge water to ensure the food hygiene.



双面不锈钢隔热库体、独特的风道设计

- ◆ 隔热库体为进口发泡设备生产,双面不锈钢聚氨酯库板;库门为双层密封并带有加热器,有效防止结冰。
- ◆ 螺旋塔和蒸发器外围的挡风板设计成对称的、流畅的环形风道,增强冻品的换热效果而又使得进出口不跑冷。而且操作人员也可随时进入库内观察设备运行情况。

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Flexible double stainless steel insulation sandwich panel cabinet, Special air flow designation

- ◆ The insulation cabinet is composed by foamed PU and coated by stainless steel sheet. The cabinet door has double seal rods and equipped with heater.
- ◆ The designation of the spiral tower and baffle plates outside the evaporator is a symmetrical and smooth cycle air flow, which enhances the product heat exchange efficiency and ensures no cool air from the entrance of the infeed and outfeed. Further more, The operator can enter into the cabinet to check the running condition when the equipment was running.



高强度网带、全不锈钢的结构件

- ◆ 网带用SUS304不锈钢弹簧钢丝进口设备制作。
- ◆ 冻品可直接摆在网带上冻结,格外平滑的网格使冻品几乎不留印记。
- ◆ 网带两侧链片上设有挡边,冻品或盘子不易从网带上滑落。
- ◆ 主传动链轮、网带传动的轴承及轴承座等结构件都由不锈钢制作。

High strength mesh belt, Complete stainless steel structure

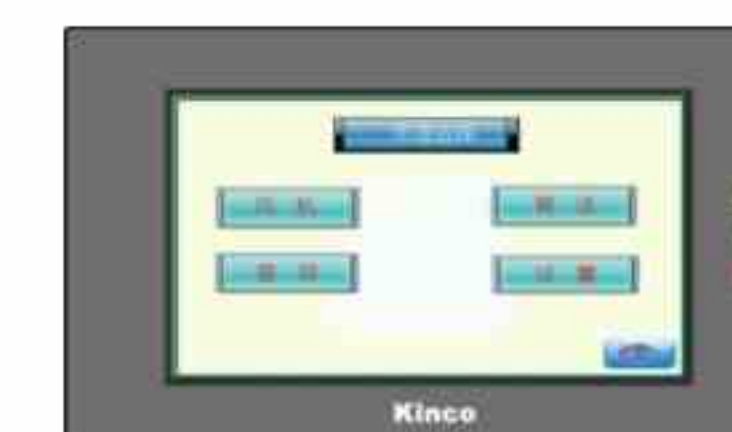
- ◆ The mesh belt is manufactured with SUS304 stainless steel spring rod by imported machine.
- ◆ The product can be put on the mesh belt directly to freeze. The smooth mesh fulfills the minimum marks on the products.
- ◆ There are baffle edges on both sides of the link flakes of the mesh belt, which can prevent the products or basins from dropping down from the belt.
- ◆ The spiral structure components are all made by stainless steel. And the large and small chain wheels of the drum, each axial and bearing of the mesh belt conveyor shaft are all made by stainless steel.

可靠的传动控制

- ◆ 螺旋传动引进欧洲先进技术,网带运行采用变频控制,速度可实现无级可调。库内温度数字显示,整个设备运行可靠。
- ◆ 可选用PLC控制和触摸屏操作。如果选用了PLC和触摸屏控制,可以通过触摸屏操作控制单冻机运行,可以动态地显示运转情况、故障诊断、相应各点的温度变化;也可先行设定冻结时间,让单冻机按照设定程序运行。(触摸屏操作界面如下图所示)
- ◆ 选择PLC和触摸屏控制,请在订货时说明。(选配)

Reliable conveyor control

- ◆ The spiral conveyor has adopted the European advance technology and run reliably. The mesh belt is controlled by inverter. And the speed of it can be adjusted steplessly. The inside temperature indicator and electrical components are all reliable.
- ◆ The PLC control and Touch Screen are options. If you select the PLC control and Touch Screen control, you can operate and control the freezer during running as well as indicating the running condition, fault analysis and temperature changing. Further more, you can set the freezing time and let the freezer performs according to the setting procedural. Please attach the interface of the touch screen as follows.
- ◆ Please indicate when you make the order if you choose the PLC and Touch Screen control.(Optional)







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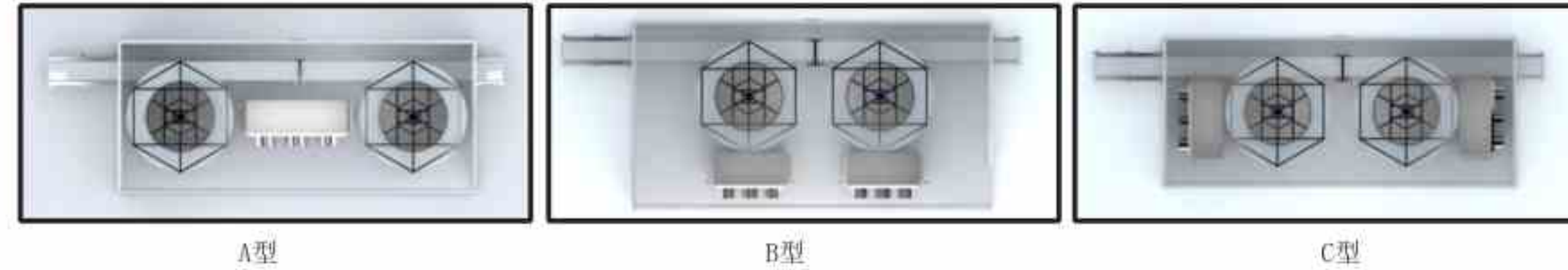
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### 螺旋速冻机结构类型 Structure of spiral freezer

- 根据速冻机内部转笼和蒸发器的相对位置，双螺旋速冻机可分为A、B、C三种结构形式。
- According to the location of the drum and evaporator, the double spiral freezer can be designed into A, B and C types separately.



#### 适应范围广泛的螺旋冻结装置

- ◆ 最适合的生产能力从300kg/h到6000kg/h.
- ◆ 传送带宽度从400到1372mm (16-54英寸)
- ◆ 进料和出料布置可在一定范围内调节。
- ◆ 根据冻品情况进行非标设计。

#### Wide application range of Spiral Quick Freezing Device

- ◆ The best freezing capacity is 300kg/h to 6000kg/h.
- ◆ The width of mesh belt is 400 to 1372mm (16 to 54 inches)
- ◆ The placement of infeed and outfeed can be adjusted in a definite range.
- ◆ It can be designed according to the products.

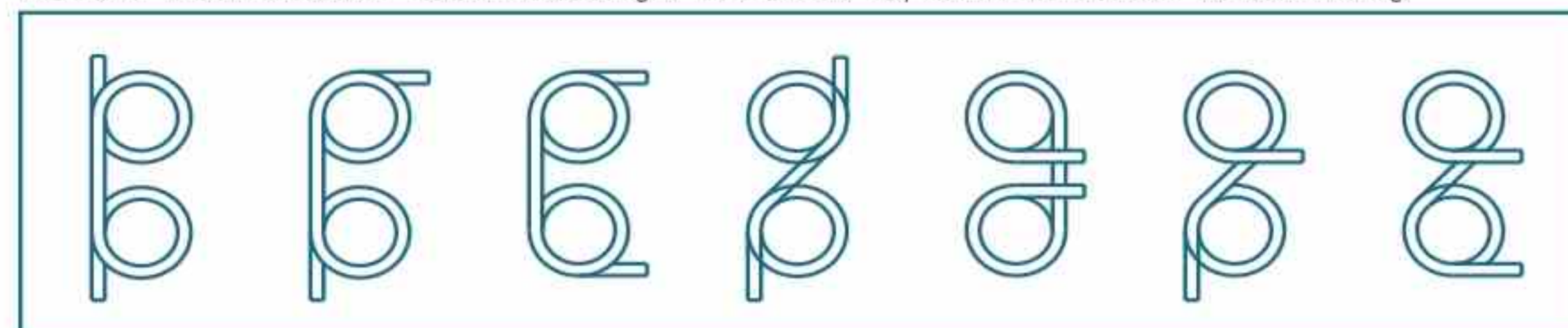
### 双螺旋速冻装置技术参数 Technical Parameter Of Double Spiral Freezer

型号	网宽 mm	冻结能力 kg	冻结时间 min	耗冷量 kw	装机功率 kw	外形尺寸 L×W×H m
SQD-500	620	500	15~75	85	20	7×4.7×3.31
SQD-750	620	750	15~75	125	24	11.7×4.7×2.97
SQD-1000	620	1000	15~75	170	32	11.7×4.7×3.31
SQD-1500	700	1500	15~75	245	40	12.7×5.3×3.82
SQD-2000	700	2000	15~75	325	46	12.7×5.3×4.5
SQD-3000	750	3000	15~75	500	57	15×6×4.31
SQD-4000	800	4000	15~75	630	68.5	16×6×4.5
SQD-5000	800	5000	15~75	780	79.5	16×6×4.8

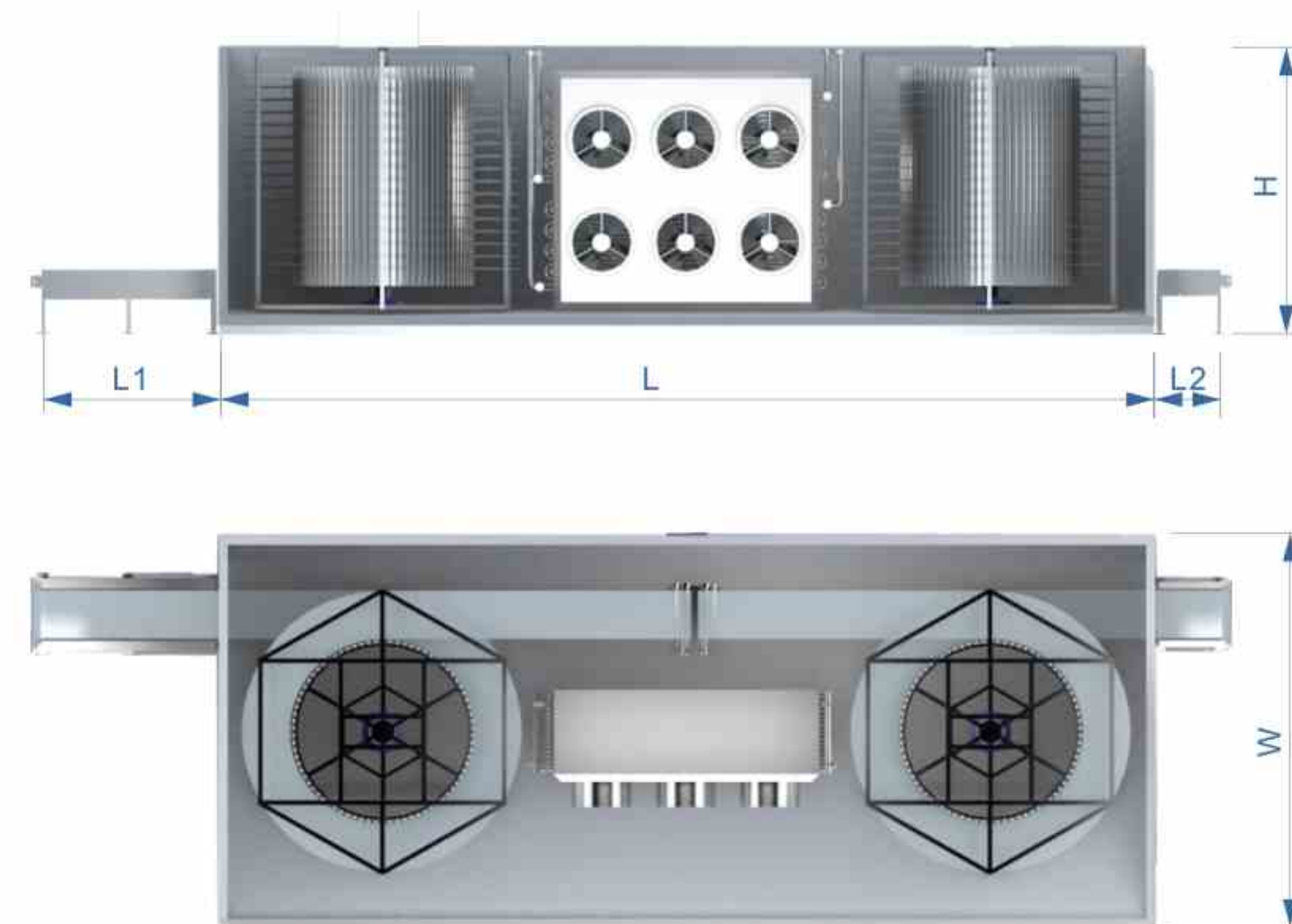
- ◆ 以裸冻南美白对虾计，上料密度5.5kg/m<sup>2</sup>，进料温度：+15℃，出料温度：-18℃，冻结温度：-35±2℃。
- ◆ 冻结时间可根据不同的冻品而调节。
- ◆ 耗冷量按冷凝温度+35℃，蒸发温度-42℃。
- ◆ It is based on freezing white shrimp. loading density:5.5kg/m<sup>2</sup>, infeed temperature:+15℃, outfeed temperature:-18℃, freezing temperature:-35±2℃.
- ◆ Depending on the different products, the freezing time can be adjusted.
- ◆ Cold consumption is counted on the base of +35℃ condensing temperature and -42℃ evaporating temperature.

双螺旋进出口口方向根据用户需要，可提供多种选择。（如图所示）

Direction of infeed & outfeed can be selected according to the customers' requirement. (Please attach the below drawing)



### 结构示意图 Structure drawing



### 主要尺寸 Main dimension

单位:mm Unit:mm

型号	网宽	L	L1	L2	W	H
SQD-500	620	7000	2500	600	4600	3310
SQD-750	620	11700	2500	600	4700	2970
SQD-1000	620	11700	2500	600	4700	3310
SQD-1500	700	12700	2500	600	5300	3820
SQD-2000	700	12700	2500	600	5300	4500
SQD-3000	750	15800	2500	600	6000	4310
SQD-4000	800	16000	3000	1000	6000	4500

以上参数如有更改，恕不另行通知，具体参数以合同为准。

Above parameters only for reference, detailed parameters please refer to the contract.





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### 单螺旋速冻装置技术参数 Technical Parameter Of Single Spiral Freezer

型号	网宽 mm	冻结能力 kg	冻结时间 min	耗冷量 kw	装机功率 kw	外形尺寸 L×W×H m
SQS-300	400	300	15-75	55	9	8.6×3.7×3.3
SQS-400	500	400	15-75	72	12	9.7×4.7×3.3
SQS-500	620	500	15-75	90	15	9.7×4.7×3.3
SQS-750	700	750	15-75	125	20	9.7×5.3×3.3
SQS-1000	700	1000	15-75	170	30	10.5×5.3×3.8
SQS-1500	750	1500	15-75	245	40	10.5×5.3×4.5
Model	Belt width	Capacity	Freezing Time	Cold consumption	Installed power	Overall dimension

- ❖ 以裸冻南美白对虾计，上料密度5.5kg/m<sup>3</sup>，进料温度：+15℃，出料温度：-18℃，冻结温度：-35±2℃。
- ❖ 冻结时间可根据不同的冻品而调节。
- ❖ 耗冷量按冷凝温度+35℃，蒸发温度-42℃计。
- ❖ 以上参数如有变动，恕不另行通知，具体以合同为准。
- ❖ It is based on freezing white shrimp . Loading density:5.5kg/m<sup>3</sup>, infeed temperature:+15℃ outfeed temperature:-18℃. Freezing temperature : -35±2℃.
- ❖ Depending on the different products , the freezing time can be adjusted.
- ❖ Cold consumption is counted on the base of +35℃ condensing temperature and -42℃ evaporating temperature.
- ❖ Above parameters only for reference, detailed parameters please refer to the contract.

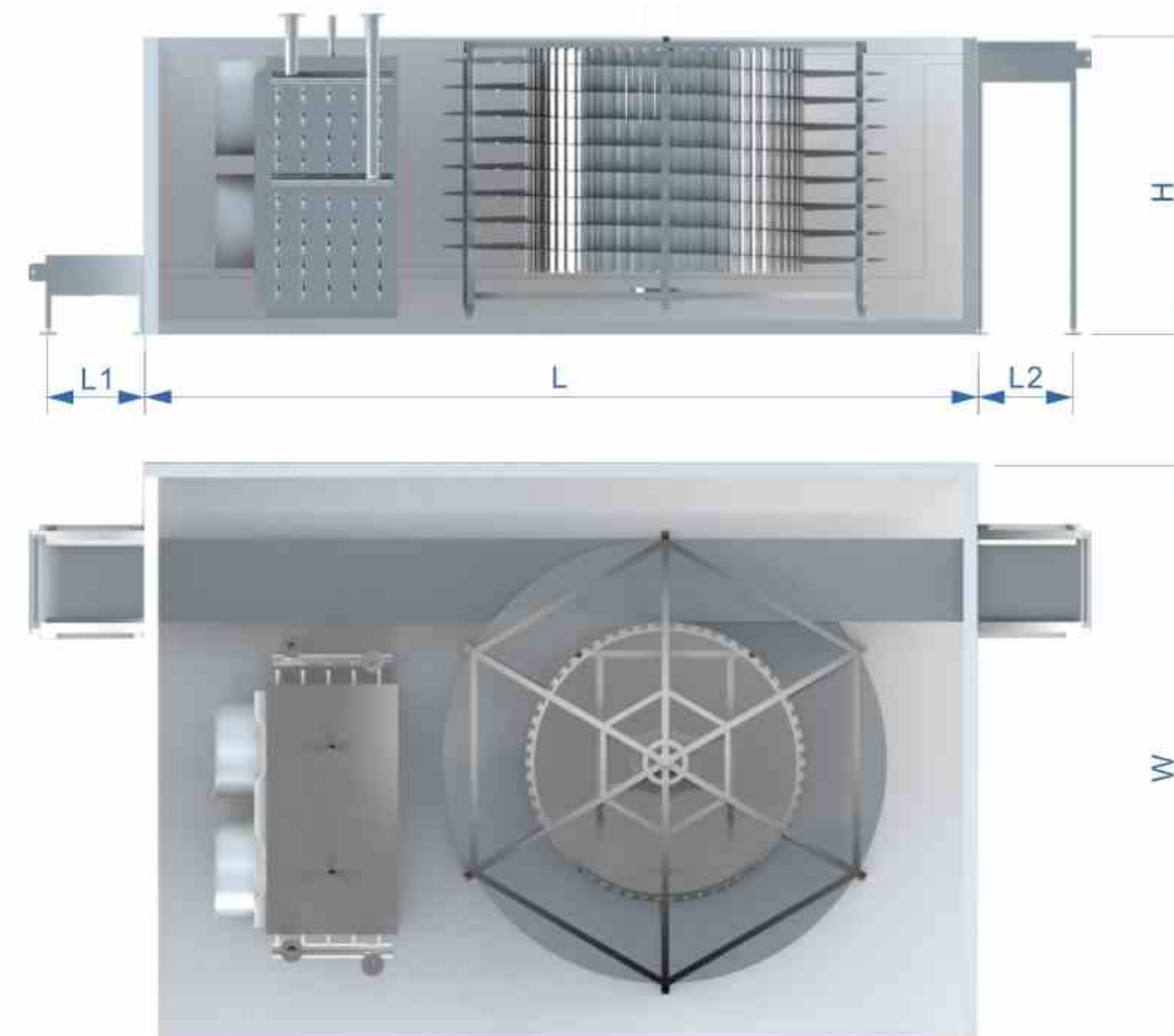
单螺旋进出口方向根据用户需要可提供多种选择。（如图所示）  
The infeed direction can be selected according to the customers' requirement.



与普通网带相比，我厂使用的螺旋专用网带非常平整，充分保证冻品不变形。  
Comparing with common mesh belt, our special mesh belt used on spiral freezers is very flat which ensures product without distortion.



### 结构示意图 Structure drawing



### 主要尺寸 Main dimension

单位:mm Unit: mm

型号	网宽	L	L1	L2	W	H
SQS-300	400	5600	2300	300-700	3650	3300
SQS-400	500	6750	2300	300-700	4550	3300
SQS-500	620	7850	2300	300-700	5300	3300
SQS-750	700	7850	2300	300-700	5300	3300
SQS-1000	700	9600	2300	300-700	5500	3800
SQS-1500	750	9600	2300	300-700	5300	4500
Model	Belt width	L	L1	L2	W	H

以上参数如有更改，恕不另行通知，具体参数以合同为准。  
Above parameters only for reference, detailed parameters please refer to the contract.





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### 隧道速冻机系列 TUNNEL FREEZER SERIES

隧道速冻机是一种结构较为简单的高效速冻装置。根据输送带的不同，可分为隧道板带速冻机和高效隧道网带速冻机。  
Tunnel freezer is a simple structure, highly efficient freezing equipment. It can be divided into stainless steel belt tunnel freezer and mesh belt tunnel freezer.

#### 隧道板带速冻机 Stainless steel belt tunnel freezer



隧道板带速冻机主要适合于含水量大，柔软的，流质的食品，如鲜肉，鱼片，虾，扇贝，面食等食品的单体速冻加工或者定型加工。冻结量可150kg/h-1000kg/h.

结构特点：

- 结构简单，运行方便，使用寿命长。
- 库体采用硬质聚氨酯发泡，保温性能好，内部所有零件全部采用SUS304优质不锈钢材料，便于清洗，符合HACCP要求。
- 采用进口不锈钢板带，韧性高，表面平整。
- 进料带刮冰装置，减少因冰块和异物对钢板带的损坏。
- 根据产量要求可选用单、双板带组合。
- 采用水冲霜，保证清洁卫生。
- 进口变频器实现无级调速，冻品冻结时间可根据需要连续调节，可适应多种冻品的加工。

Stainless steel belt tunnel freezer is suitable for IQF freezing and sizing processing high liquid content, soft and fluid food, such as meat, fish fillet, shrimp, scallop, etc. Freezing capacity is between 150kg/h and 1000kg/h.

Main features:

- Simple structure, easy operation and long using life.
- Stainless steel insulated panel filled with PU foam. All materials of inside spare parts are SUS304. Easy for cleaning and meet HACCP requirement.
- Adopt imported SUS belt. Strong, smooth and even.
- The inlet frame is equipped with deicing device which avoid damaging the belt from ice.
- Single belt and double belt are available.
- Water defrosting is adopted. Ensure hygienic standard.
- Stepless speed adjustment by inverter. Freezing time can be adjusted.

#### 技术参数 Technical specification

型号 Model	项目 Item	冻结能力 Freezing capacity (kg/h)	入料温度 Inlet temperature	冻结库内温度 Freezing temperature	出料温度 Outlet temperature	冻结时间 Freezing time	配机冷量 Refrigeration capacity (kw)	装机功率 Motor power (kw)	制冷剂 Refrigerant
SSD-250		250	+10℃	-35℃	-18℃	连续可调 Adjustable	55	6.38	R717/R22
SSD-500		500					105	11.1	
SSD-750		750					155	15.82	
SSD-1000		1000					200	22.2	
SSDD-1000		1000					210	22.2	
SSDD-1500		1500					310	31.64	

#### 主要尺寸 Main dimensions

型号 Model	尺寸 mm	W1	L1	L	L2	W	H
SSD-250		1200	2000	7600	1000	2300	2700
SSD-500				15200		3200	
SSD-750				21850		2400	
SSD-1000				28500		2400	
SSDD-1000				15200		4400	
SSDD-1500				21850		4400	

注：1.冻结能力以裸冻扇贝为参照物，配机冷量按+35℃/-42℃工况计

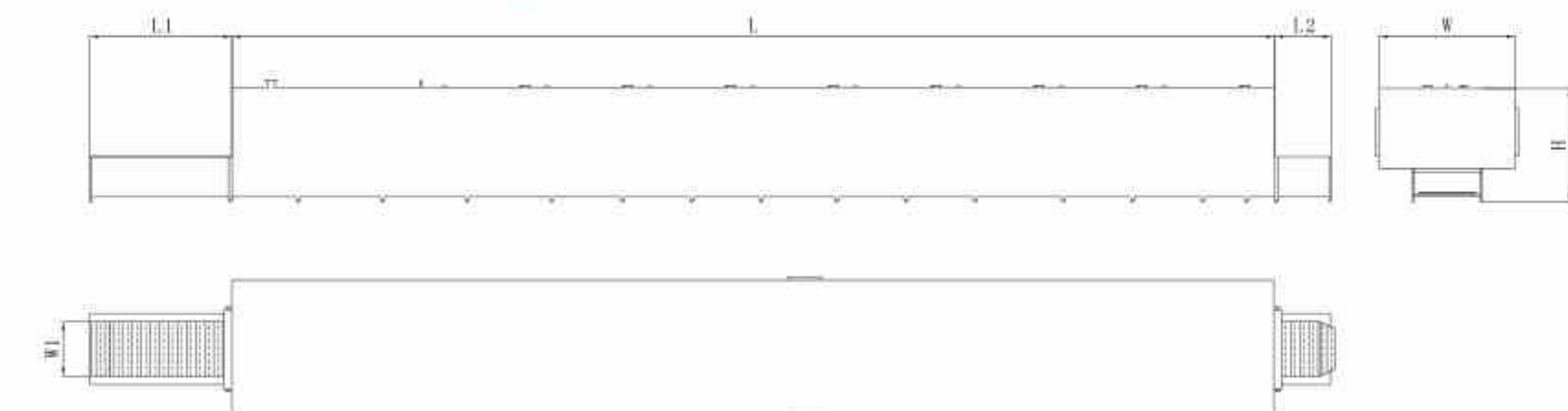
2.上表所列之标准型号仅供参考，具体按客户要求而出具的报价参数为准。

Notes:

1.The freezing capacity refers to scallop, refrigeration capacity is based on condensing temp.+35℃ and evaporating temp.-42℃.

2.The standard models listed above are for your reference, it will be designed as per specific request.

#### 结构示意图 Structure drawing







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### 冲击式隧道速冻机 Impact type Tunnel quick-freezer



#### 产品特点:

冲击式隧道速冻机是将需要冷冻的产品置于传送网带上面，通过网带上方的喷嘴吹出的强制冷风吹到需要的冷冻产品上面，该速冻机由多个高压风筒的风机通过专门定制的特殊规格的喷嘴将风吹到产品上，这种特别的吹风方式使得配有足够多的蒸发面积得以更好的发挥散热效果，使产品能达到快速冻结，特别适合盘冻、块冻、盒冻等冻结工艺。

#### 高效隧道网带速冻机的优点:

- 与常规冷冻方式相比，垂直喷气方式大幅缩短了冻结时间。
- 产品冻结均匀，比任何冷冻方式的损耗都低。
- 稳定的产品质量，降低了能耗，提高收益率。
- 结构简单，易于清洗，使卫生条件达到食品工业要求，与常规速冻机相比减少了速冻机的安装空间。

#### Main features:

Impact type Tunnel quick-freezer chills products by blowing cold air from nozzles on top of the belt to products on the mesh belt. The fans with high pressure air boxes blow air through special made nozzle to products. The special blowing way with enough evaporating area ensures better heat exchange and freeze rapidly. The equipment is especially suitable for processing technology such as tray-freezing, block-freezing, and basin-freezing.

#### Advantages:

- Comparing with conventional freezing way, it shortens the freezing time.
- It freezes uniformly and reduces loss of moisture.
- Stable quality, lower energy consumption and improve product efficiency.
- Simple structure, easy for cleaning which meet sanitary requirement. less installation space is needed.

### 技术参数 Technical specification

型号 Model	项目 Item	冻结能力 Freezing capacity (kg/h)	入料温度 Inlet temperature	冻结库内温度 Freezing temperature	出料温度 Outlet temperature	冻结时间 Freezing time	配机冷量 Refrigeration capacity (kw)	装机功率 Motor power (kw)	制冷剂 Refrigerant
GSD-W-250		250	+15℃	-40℃	-18℃	连续可调 Adjustable	50	6.38	R717/R22
GSD-W-500		500					90	10.38	
GSD-W-750		750					132	19.9	
GSD-W-1000		1000					175	19.9	
GSD-W-1500		1500					240	26.3	
GSD-W-2000		2000					320	26.3	
GSD-W-2500		2500					400	29	

### 主要尺寸 Main dimensions

型号 Model	尺寸 mm	W1	L1	L	L2	W	H
GSD-W-250		1200	2000	7600	1000	2300	2700
GSD-W-500		2400		7600			
GSD-W-750		2400		12350			
GSD-W-1000		2400		15200			
GSD-W-1500		3400		15200			
GSD-W-2000		3400		19000			
GSD-W-2500		3400		25650			

注: 1.冻结能力以裸冻去头虾为参照物，配机冷量按+35℃/-42℃工况计

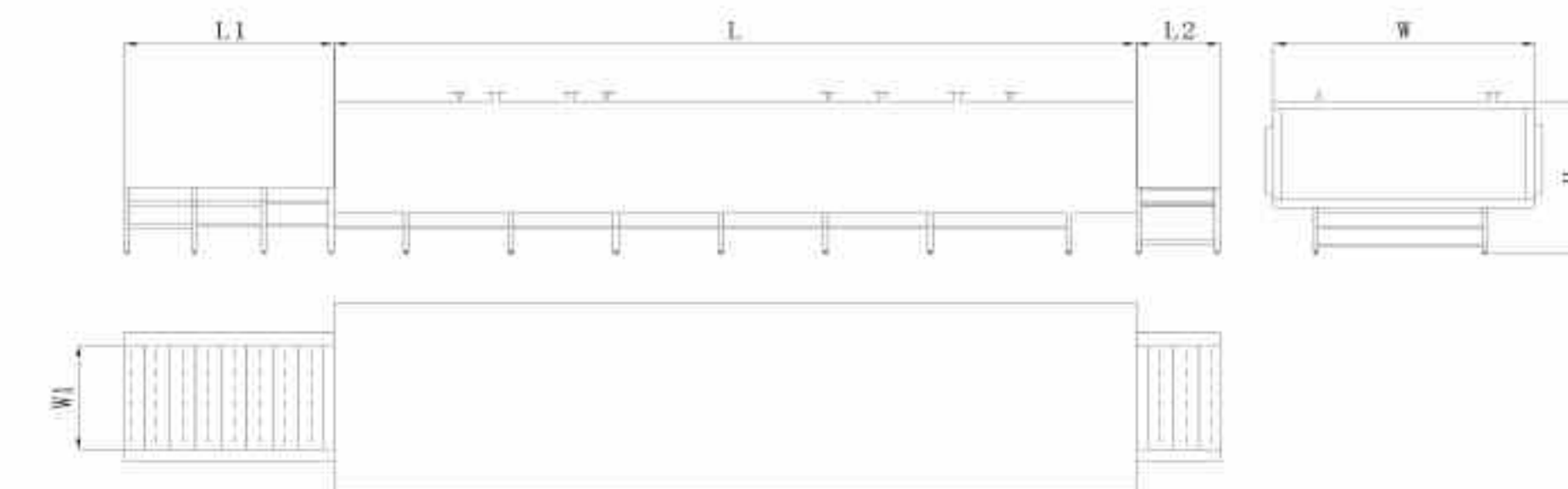
2.上表所列之标准型号仅供参考，具体按客户要求而出具的报价参数为准。

#### Notes:

1.The freezing capacity refers to headless shrimp. refrigeration capacity is based on condensing temp.+35℃ and evaporating temp.-42℃.

2.The standard models listed above are for your reference. it will be designed as per specific request.

### 结构示意图 Structure drawing







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### 流态化速冻机系列 FLUIDIZATION FREEZER SERIES



流态化速冻机是通过机械振动和风压使产品在不锈钢网带上浮动运行，从而实现单体快速冻结，防止粘连。  
主要适用于蔬菜，水果等颗粒，片状，块状食品的快速冻结。结构上分一段式流态化速冻机，两段式流态化速冻机，四连杆式流态化速冻机，视产品而选型。冻结量可在500kg/h-5000kg/h。

结构特点：

- 不锈钢离心风机，保证额定风量和风压。
- 宽大的铝合金蒸发器迎风面和变片距设计，延长结霜时间。
- 进料口配有网带清洗和吹干装置。
- 全自动控制系统和变频技术，无级调节网带运行速度。

Fluidization freezer products by vibration and air pressure which make products float on the stainless steel belt and avoid sticking. It is suitable for freezing vegetables, fruits, flake, granular products, etc. Freezing capacity is between 500kg/h-5000kg/h.

Main features:

- SUS centrifugal fans ensure the air volume and air pressure.
- Large area aluminum alloy evaporator .adjustable fin pitch , prolong defrosting time.
- The inlet frame is equipped with washing and drying device.
- Automatic control system . Stepless speed adjustment by inverter.
- All inside spare parts are stainless steel materials and good for cleaning and maintaining.

### 技术参数 Technical specification

型号 Model	项目 Item	冻结能力 Freezing capacity (kg/h)	入料温度 Inlet temperature	冻结库内温度 Freezing temperature	出料温度 Outlet temperature	冻结时间 Freezing time	配机冷量 Refrigeration capacity (kw)	装机功率 Motor power (kw)	制冷剂 Refrigerant
SLD-F-500	冻结能力	500	+10℃	-35±2℃	-18℃	连续可调 Adjustable	90	30	R717/ R22
SLD-F-1000	冻结能力	1000					160	52	
SLD-F-1500	冻结能力	1500					250	68	
SLD-F-2000	冻结能力	2000					340	85.4	
SLD-F-3000	冻结能力	3000					480	100	
SLD-F-4000	冻结能力	4000					630	120	
SLD-F-5000	冻结能力	5000					780	136.5	

### 主要尺寸 Main dimensions

型号 Model	尺寸 mm	W1	L1	L	L2	W	H
SLD-F-500	尺寸	1200	1400	4500	800	4500	4300
SLD-F-1000	尺寸	1200		6000			
SLD-F-1500	尺寸	1300		7700			
SLD-F-2000	尺寸	1500		9000		4800	4500
SLD-F-3000	尺寸	1500		11000			
SLD-F-4000	尺寸	1500		12800			
SLD-F-5000	尺寸	1500		14500			

注：1.冻结能力以青刀豆为参照物，配机冷量按+35℃/-42℃工况计

2.上表所列之标准型号仅供参考，具体按客户要求而出具的报价参数为准。

Notes:

1.the freezing capacity refers to haricot bean .refrigeration capacity is based on condensing temp.+35℃ and evaporating temp.-42℃.

2.the standard models listed above are for your reference.it will be designed as per specific request.

### 结构示意图 Structure drawing







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### 烘干机系列 DRYER SERIES

#### 箱式脱水机 Box type drying machine

箱式脱水机是一种设计新颖、结构紧凑的干燥设备，它利用蒸汽加热状态下升华的原理，使物料中的水分升华为水蒸汽，从而使物料干燥。其有大风量、高风压、低噪声、低能耗具有节能、高效等特点，采用自动控制系统，操作方便，性能稳定。适用于加工各种原料，如绿豆芽、大蒜、葱、菠菜、甘蓝菜(卷心菜)、南瓜片、萝卜片、土豆片等。

相比传统箱式脱水机优点：

1. 采用箱内自动翻拨料装置，在烘烤过程中，自动翻动物料，降低人工劳动强度，提高生产效率。
2. 采用耐高温防飞料装置，能够有效防止物料烘干后阶段，物料沸动涌出物料箱，减少物料的损耗浪费。
3. 采用先进的送风系统和布风系统，有效提高了物料的烘干效率，降低了烘干所需的单位能耗。

结构描述：

箱式脱水机是一种广泛使用的传统干燥设备，设备配有低噪音耐高温离心风机和自动控温系统，整机为敞开放式结构。原理为由散热器加热新风，由离心风机送风与产品换热，以达到脱水效果。



Box type drying machine is a kind of drying equipment with novel design, compact structure. Its principle is sublimation the moisture in the materials containing from water to water vapor by steam heating, so as to dry the material. It has features of large volume, high pressure, low noise, low energy consumption, energy-saving, and high-efficiency, which uses automatic control system, with convenient operation and stable performance. The machine is suitable for processing all kinds of materials, such as green bean sprout, garlic, scallion, spinach, kale (cabbage), pumpkin slice, radish slice, potato slice, etc.

Compared with traditional box dryer, ZL's box dryer has below advantages:

1. Equipped with auto stirring stick in the box, which can auto stir the material in the drying process, thus reducing the labor work strength, then improving the production efficiency.
2. Adopting high temperature resistance material flyout prevent device, which is used to prevent material fly out from box in the post drying stage, to decrease the waste of material.
3. Adopting the advanced air supply system and air distribution system, to improve the drying efficient, and lower the unit energy consumption in the drying.

Structure description:

Box type drying machine is a widely used traditional drying equipment, equipped with low-noise, high-temperature resistance centrifugal fan and automatic temperature control system. Whole machine is an open type structure. Its working principle is radiator heating fresh air, which is supplied by centrifugal fan and heat exchange, so as to achieve the effect of dehydration.

#### 技术参数 Technical specification

型号规格	单台风机风量 m <sup>3</sup> /h	风压 PA	耗电量 KW/台	蒸汽耗量 kg/h·台
SHT-I	5500~14500	450~740	5.5	100
Model	Air volume per fan	Air pressure	Power consumption	Steam consumption

#### 虾皮多层烘干机 Multi-layer dryer for dried small shrimps

虾皮多层烘干机是一种设计新颖、结构紧凑的干燥设备，它利用蒸汽加热状态下升华的原理，使物料中的水分快速转为水蒸汽，从而使物料干燥。其有大风量、高风压、低噪声、低能耗、具有节能、高效等特点，采用自动控制系统，操作方便，性能稳定。适用于加工各种原料，如虾皮、淡菜、小鱼、海带等。

结构描述：

虾皮多层烘干机是一种专用的干燥设备，设备由传送系统、加热系统、强制对流侧吹风系统、自动控制系统等组成，整机采用全开放结构。

本烘干机通过人工上料后经设备自带均料系统均匀的提升输送到多层烘干机的最上层进行烘干，原料经由多层输送带自上而下来回运转，最终由最下层输送带出料，根据层数的单复数，出料位置在进出料口可任意选择。



Multi-layer dryer for dried small shrimps is a kind of drying equipment with novel design, compact structure. Its principle is sublimation the moisture in the materials containing from water to water vapor by steam heating, so as to dry the material. It has features of large volume, high pressure, low noise, low energy consumption, energy-saving, and high-efficiency, which uses automatic control system, with convenient operation and stable performance. The machine is suitable for processing all kinds of materials, such as dried small shrimps, mussel, small fish, and kelp, etc.

Structure description:

Multi-layer dryer for dried small shrimps is a specialized used drying equipment, which is consisted of the conveyor system, heating system, forced convection cross air blowing system, automatic control system. The machine adopts open structure.

The dryer evenly elevating material to the top layer through its material-uniform system after artificial feeding, multilayer conveyor belt running from top to bottom back and forth, finally discharging from the bottom conveying belt. According to the number of layers, discharge location is arbitrary choice whether in feeding location or discharging location.

#### 技术参数 Technical specification

型号规格	耗电量 KW	耗气量 T/h	外形尺寸 长*宽*高(m)	脱水量 kg/h
DW-II-2000	52	1.8	23*2.8*3.38	1400
DW-II-3000	64	2.6	27*2.8*3.38	2100
DW-II-4000	76	3.5	31*2.83*3.38	2800
Model	Power consumption	Steam consumption	Overall dimensions	Dewatering capacity

注：产量以虾米为计 Note: capacity design based on dried small shrimps.





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### 多层带式烘干机 Multilayer belt drying machine

多层带式烘干机是一种设计新颖、结构紧凑的干燥设备，它利用蒸汽加热状态下升华的原理，使物料中的水分升华为水蒸汽，从而使物料干燥。其有大风量、高风压、低噪声、低能耗、具有节能、高效等特点，采用自动控制系统，操作方便，性能稳定。

结构描述：

多层带式烘干机是一种广泛使用的传统干燥设备，设备由传送系统、加热系统、强制对流吹风系统、自动控制系统等组成，整机为封闭式结构。本烘干机通过人工上料后经由设备自带均料系统均匀的提升输送到多层烘干机的最上层进行烘干，原料经由多层输送带自上而下来回运转，最终由最下层输送带出料，出料位置仍在进料口位置，对生产线的紧凑性，工艺的合理性提供了很大的方便。

本设备在开机后，加热系统由2-8kg压力蒸汽供给换热器。蒸汽供入设备后，可根据使用温度手动或自动控制蒸汽的供给量及供给时间，以满足设备所需。

本设备加热系统工作后，开启强制对流吹风系统，能快速加热原料，并带走原料的大量水份，以达到脱水目的，本装置配置的风量风速在保证脱水的同时基本不改变原料的色泽及风味。

本设备配备PLC控制，能精确方便的控制传送系统、加热系统、强制对流吹风系统等控制元件，具有方便、人性化等特点。



Multilayer belt drying machine is a kind of drying equipment with novel design, compact structure. Its principle is sublimation the moisture in the materials containing from water to water vapor by steam heating, so as to dry the material. It has features of large volume, high pressure, low noise, low energy consumption, energy-saving, and high-efficiency, which uses automatic control system, with convenient operation and stable performance.

Structure description:

Multilayer belt drying machine is a widely used traditional drying equipment, which is consisted of the conveyor system, heating system, forced convection air blowing system, automatic control system, the machine is a closed structure. The dryer evenly elevating material to the top layer through its material-uniform system after artificial feeding, multilayer conveyor belt running from top to bottom back and forth, finally discharging from the bottom conveying belt, discharging location is also the feeding position, provides great convenience for the compact production line, and rationality process.

After starting the equipment, heating system provides 2-8kg pressure steam to the heat exchanger. After the steam is supplied to the device, and to meet the equipment requirement, you can manually or automatically control steam supply and supply time according to the temperature requirement.

After starting the heating system, open the forced convection air blowing system, which will fast heat the raw material, and remove plenty of moisture of material, reaching to dehydration effect. The machine basically does not change the color and flavor of raw materials at the same time guarantee the dehydration, due to its configuration air volume and air speed.

The machine is equipped with a PLC control, which can accurate and convenient control elements as transmission system, heating system, forced convection air system, and has the advantages of convenient, humanized.

### 技术参数 Technical specification

型号规格	耗电量 KW	耗气量 T/h	外形尺寸 长*宽*高(m)	脱水量 Kg/h
DW-I	41	0.4	17.5*2.5*5.0	300
Model	Power consumption	Steam consumption	Overall dimensions	Dewatering capacity

注：非常适合轻物料，含水率大，烘干形状有要求的产品（如葱、蒜片粒、花瓣、叶菜类等）

Note:

The equipment is very suitable for drying light material, or material whose moisture containing is large, or products that have special requirements on the drying shapes(such as scallion, garlic flakes or granules, flower leaf, leafy vegetables, etc.)







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### 果脯连续式烘干机 Continuous drying machine

果脯连续式烘干机是我公司根据多年实践经验，结合国外同类产品先进技术，在公司二代DW带式烘干机基础上开发生产的新式带式烘干机。该机克服弥补了DW系列设备在部分物料实际使用中的缺点，使带式烘干机的结构更加完善合理、适用范围更广，操作使用稳定方便，热效率高。广泛适用于食品、化工、医药、饲料、颜料、染料、矿产品、建材等行业，粒状、块状、片状、结晶状、滤饼状物料的半干燥，保湿干燥等用途。

#### 工作原理

将要干燥的物料通过合适的加料装置均匀的分布在可调速运行的网带上，干燥时热空气分别由网带上下方通过，使被干燥物料的每个表面都成为受热面，显著增加了物料与热风的换热接触面积，使物料内部水分的蒸发扩散距离缩短，因此，能够进行效果极好的干燥操作。温度、风量及湿度的控制更加灵活方便，从而相对与不同种类，性质的物料具有更广泛的适应性。

#### 特点

换热器与网带干燥室分开布置，在干燥室端面另设换热器室，有效避免物料粉粒与换热器的不良接触。

有效的加大了循环风量，带来热空气穿透性高，热利用率高、高效节能、单元控制灵活、可控性好等诸多优势。

用户可设定适宜的操作条件，根据热风循环方式、干燥状态灵活调节温度、风量、湿度、网带运行速度等操作条件。

自由调节物料成品水分，由于可自由调节干燥机内物料流量、停留时间，因此可任意设定加工后产品的水份。



Continuous drying machine for preserved fruit is a new design of ZL based on DW belt dryer, which is designed based on years of practical experience, and combined with foreign advanced technology of same products. The new design overcome the defect of DW in practical drying in some materials, thus making it more perfect and reasonable in structure, wider in application scope, more stable and convenient in operation, and higher in heat efficiency. The machine is widely used in semi-drying and drying for granule, bulk, flake, crystal, filter cake shaped material in food, chemical industry, medicine, feedstuff, pigment, dyestuff, minerals, building materials, etc.

#### Working principle:

Uniformly spreading the material onto the mesh belt(speed adjusted) through feeding device. While in drying, the hot air is coming from up and down of mesh belt, thus increasing the heating surface, and heating contact area between material and hot air, then shortening the evaporating distance of moisture in the materials containing, as a result, reaching a good drying effect. The machine is widely applied in different types of materials, due to its flexible and convenient control in temperature, blast volume, and humidity.

#### Features:

Heat exchanger and belt drying chamber is arranged separately, to avoid the bad contact between material particles and heat exchanger.

Efficiently increasing the circulation air volume, with advantages of high penetrability of hot air, high heat usage, energy-efficient, flexible in unit control, good controllability.

User can set appreciate operation condition, flexibly adjusting the temperature, air volume, humidity, belt speed according to hot air circulation way and drying state.

Freely adjusting the moisture of dried material containing, thanks to the freely adjusting of material flow amount and staying time.

### 技术参数 Technical specification

型号规格	model	DW5x12	DW5x16	DW5x20
干燥面积 m <sup>2</sup>	drying area m <sup>2</sup>	60	80	100
干燥段层X单层面积 m	layer X area per layer m	5x12	5x16	5x20
使用温度 ℃	drying temperature ℃	50~150	50~150	50~150
蒸气工作压力 Mpa	steam working pressure Mpa	0.2~0.6	0.2~0.6	0.2~0.6
蒸气耗量 Kg/h	steam consumption Kg/h	200~450	260~600	450~800
干燥时间 h	drying time h	0.25~1.5	0.2~1.5	0.25~1.5
蒸发能力 Kg/h20	dewatering capacity Kg/h20	90~200	130~260	150~350
装机容量 KW	installation power KW	13.6	19.7	21.7
外形尺寸 L*W*H(m)	overall dimensions L*W*H(m)	10.77*2.1*2.83	12.77*2.1*3.0	14.77*2.1*3.0

注：1.用户在选型时，应根据产量、物料含水量等参数选择。

2.单台或多台串联方式进行增加干燥面积，以满足使用要求，提高产品的产量和质量。

3.标准型号的传送带为高分子塑钢网带，用户可以根据需要选择不锈钢链板钢带、不锈钢网带、聚四氟不粘网带。

#### Note:

1. Referring to the capacity, material moisture, to choose the right model.

2. Choosing single or multi set of dryers, to increase the heating area, to improve the drying quantity and quality.

3. Conveyor for standard model is polymer plastic mesh belt, of course, sus chain plate steel belt, sus mesh belt, PTFE non-stick mesh belt.





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### 生产线系列 LINE SERIES

#### 速冻前处理生产线 Frozen pretreatment production line

速冻前处理生产线是在引进九十年代国外先进技术的基础上，专为速冻果蔬配套使用的一条完整的自动化生产线，与我公司生产的流态化速冻装置配套，可供各类蔬菜、果品速冻前进行蒸煮、清理、冷却等处理。

该生产线按食品加工厂规范要求设计，采用全不锈钢制作，由机械操作代替了繁重的人工劳动，操作简便，避免了重复污染，完全符合食品卫生出口标准。能耗低、效率高，为全面提高冻品质量和产量提供了强有力的保障，一般适用于青刀豆、芋艿、笋片、荷兰豆、香菇、马蹄片、蘑菇、豌豆、蚕豆、毛豆、芦笋、土豆片及菠菜、花菜等叶菜类和根茎类蔬菜及水果的清洗、蒸煮、与冷处理果蔬速冻机前处理流水线设备，一般有气泡清洗机、蒸煮机、提升机、振动沥水机、常温水冷机、冰水预冷机、振动布料机及相对应的电控箱等组成。

生产线可根据客户的实际场地，将流水线呈“一”字形、“L”形及其它形式的排列。



Frozen pretreatment production line is the complete & automatic processing line specially for freezing fruits and vegetables, which is designed based on absorbing foreign advanced technologies of 1990s. The line equipped with our IQF fluidized freezer, is used in processing as washing, blanching, chilling for many kinds of vegetables and fruits.



The line is designed according to the requirements of food factory processing standards, all the machines are made of stainless steel. It reaches good effects of easy operation, avoiding repeated pollution, by using machines instead of manual labors, which fully meets hygienic requirements for exported foods. Low energy consumption, high efficiency ensures frozen products of high quality and capacity. The line is suitable for washing, blanching, chilling for garden bean, taro, bamboo shoot, snow pea, Chinese mushroom, water chestnut, mushroom, pea, broad bean, soy bean, asparagus, potato slice, leafy vegetables as spinach and cauliflower, root vegetables and fruits. The line is mainly consists of bubble washing machine, blanching machine, elevator, vibration dewatering machine, normal temperature water cooler, ice water cooler, vibration spreader, and correspondent electric cabinet.

The line can be arranged as - shape, L shape and other shape according to your actual plant.

#### 【工艺流程】 Technological process

清洗 → 漂烫 → 常温水冷却 → 冰水冷却 → 振动沥水 → 提升 → 布料 → 速冻

注：以上工艺根据产品不同，需适当调整，具体工艺请垂询我公司技术工程师或根据客户要求确定。

Cleaning → Blanching → Pre-cool → Ice water cooling → Vibration dewatering → Elevating → Spreading → Freezing

Note: Above processing flow is adjusted according to different products. We will provide the specific processing flow as customers' requirements.

#### 脱水前处理生产线 Drying pretreatment production line

脱水前处理生产线是在引进九十年代国外先进技术的基础上，专为脱水果蔬配套使用的一条完整的自动化生产线，与我公司生产的脱水装置配套，可供各类蔬菜、果品脱水前进行清洗、蒸煮、清理、冷却、拌料等处理。

该设备按食品加工厂规范要求设计，采用全不锈钢制作，由机械操作代替了繁重的人工劳动，操作简便，避免了重复污染，完全符合食品卫生出口标准。能耗低、效率高，为全面提高脱水产品质量和产量提供了强有力的保障，一般适用于甘蓝菜、青刀豆、万年青、莴笋、土豆片、缸豆、葱及苹果片等叶菜类和根茎类蔬菜及水果的清洗、蒸煮、与冷处理。果蔬脱水机前处理流水线设备，一般有气泡清洗机、蒸煮机、冷却机、脱水机、腌泡机、烘干机及相对应的电控箱等组成。

生产线可根据客户的实际场地，将流水线呈“一”字形、“L”形及其它形式的排列。



Drying pretreatment production line is the complete & automatic processing line specially for drying fruits and vegetables, which is designed based on absorbing foreign advanced technologies of 1990s. The line equipped with our DW drying machine, is used in processing as washing, blanching, cleaning, chilling and mixing for many kinds of vegetables and fruits.

The line is designed according to the requirements of food factory processing standards, all the machines are made of stainless steel. It reaches good effects of easy operation, and avoiding repeated pollution, by using machines instead of manual labors, which fully meets hygienic requirements for exported foods. Low energy consumption, high efficiency ensures dried products of high quality and capacity. The line is suitable for washing, blanching, chilling for leafy vegetable, root vegetable and fruits as cabbage, green bean, rohdea, asparagus lettuce, potato slice, long bean, scallion, and apple slice. The line is mainly consists of bubble washing machine, blanching machine, water cooling machine, dewatering machine, marinade machine, drying machine, and correspondent electric cabinet.

The line can be arranged as - shape, L shape and other shape according to your actual plant.

#### 【工艺流程】 Technological process

清洗 → 漂烫 → 冷却 → 脱水 → 腌泡 → 烘干

Cleaning → Blanching → Cooling → Dewatering → Marinading → Drying





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### 虾加工生产线 Shrimp production processing line

各类虾加工生产线是我公司积累十多年的经验，充分吸取国外先进设备的优点，进行多次改进，技术水平已超过国内外同行水平，全不锈钢制作，产品遵循HACCP要求设计制作。该生产线设计科学、制作精良、布局合理、运行可靠、自动化程度高，是目前虾类加工最佳选用设备。同时公司可根据客户不同的要求，为客户提供设计布局，安装、调试、售后一条龙服务。



ZL accumulated more than 10 years' experience, fully introduces foreign advanced equipments' advantages, after many times of improvement, we have designed the processing line for many kinds of shrimps. The technology has exceeded the level of same products from domestic and foreign counterparts. The equipment is made of stainless steel, completely comply with HACCP requirements. This production line is featured by design science, well-made, reasonable layout, reliable operation, high automation degree. At the same time, ZL will accord to different requirements of customers, provides customers one-stop service with design, layout, installation, commissioning and after-sale service.



#### 【工艺流程】 Technological process



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### 速冻后处理生产线 Frozen post-treatment production line



速冻后处理生产线是在引进九十年代国外先进技术的基础上，专为速冻水产、果蔬配套使用的一条完整的自动化生产线，与我公司生产的SQD型螺旋速冻装置配套，可供各类水产、蔬菜、果品速冻后进行包冰、复冻、挑选、自动称重、打包等。

该设备按食品加工厂规范要求设计，采用全不锈钢制作，由机械操作代替了繁重的人工劳动，操作简便，避免了重复污染，完全符合食品卫生出口标准。能耗低、效率高，为全面提高冻品质量和产量提供了强有力的保障。生产线可根据客户的实际场地，将流水线呈“一”字形、“L”形及其它形式的排列。

Frozen post-treatment production line is the complete & automatic processing line specially for freezing seafood, fruits and vegetables, which is designed based on absorbing foreign advanced technologies of 1990s. The line equipped with our SQD spiral freezer, is used in processing as glazing, hardening, picking, auto-weighing, and packing for many kinds of seafood, vegetables and fruits.

The line is designed according to the requirements of food factory processing standards, all the machines are made of stainless steel. It reaches good effects of easy operation, and avoiding repeated pollution, by using machines instead of manual labors, which fully meets hygienic requirements for exported foods. Low energy consumption, high efficiency ensures frozen products of high quality and capacity. The line can be arranged as - shape, L shape and other shape according to your actual plant.

### 脱水后处理去杂生产线 Drying post-treatment roguing line



生产线主要解决：采用自动化高效率的生产流水线替代脱水或干燥产品的大小分级，颗粒的切分、比重分级（去除金属、石头、尘土等杂物，去除毛发等轻质杂物）色选、其它异物检测、自动精确称重、包装等耗费大量人力物力的工序。



The function of this line: adopting high efficiency automatic production line instead of large manual workers, to grade size of dried food, cut particles, gravity select (removing metal, stone, dust, and hair), color sort, other material detect, auto weigh and pack.

The features of this line: high grading efficient, replace heavy labors, largely improve working efficient.





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### 巴氏杀菌生产线 Pasteurization line

采用巴氏杀菌法，对各类包装或罐装食品通过温度自动调节，将杀菌槽中的热水温度控制在80-90摄氏度之间，既能起到杀菌效果，又能保证蛋白质等营养成分不在较大温差范围内波动，保持食品原有的品质，达到对食品不加防腐剂和添加剂，而延长保质期，保护了人们的生命健康。同时对杀菌后的物品通过冷却水进行冷却，并用强风将包装物表面吹干后包装入库，可延长食品贮藏期。

本设备由杀菌机、冷却机、风力干燥机及电控部分组成，通过电气控制，实现自动化连续式生产；分两种规格型式：

- 1、标准控制型：采用蒸汽电磁阀与温度传感器联动控制。
- 2、电脑全自动控制型：采用电脑触摸屏与PLC自动执行进行控制。



Adopting the pasteurization method, to sterilize various packed food or canned food, by temperature auto-adjusting, to control the temperature of hot water in the sterilizing tank in 80-90 degree celsius, to ensure the nutrition as protein stable in such small temperature difference range, thus keep food original quality, reaching the effect of prolong the food storage period, instead of by adding preservatives and additives to the food, therefore protecting people's life and health. At the same time, to water cooling the sterilized food, and then blow drying the surface water before storing in the storage room, can also prolong the food storage period.

The equipment consists of sterilization machine, cooling machine, blow drying machine and electric control part, through the electrical control, to realize automation continuous production.

There are two types of specifications:

- 1, the standard control type: using steam electromagnetic valve and a temperature sensor linkage control.
- 2, fully automatic computer control type: the computer touch screen and PLC control of automatic control.

### 圣女果加工生产线 Cherry tomato processing production line



圣女果加工生产线是在引进九十年代国外先进技术的基础上，专为圣女果加工配套使用的一条完整的自动化生产线，与我公司生产的DW-I型多层带式烘干机配套，可供圣女果脱水前进行去梗、清洗、分级、切瓣、打孔等处理。

该设备按食品加工厂规范要求设计，采用全不锈钢制作，由机械操作代替了繁重的人工劳动，操作简便，避免了重复污染，完全符合食品卫生出口标准。能耗低、效率高，为全面提高脱水圣女果质量和产量提供了强有力的保障，生产线有去梗机、清洗机、分级机、切瓣机、打孔机等及相对应的电控箱等组成。生产线可根据客户的实际场地，将流水线呈“一”字形、“L”形及其它形式的排列。

Cherry tomato processing production line is the complete & automatic processing line specially for processing cherry tomato, which is designed based on absorbing foreign advanced technologies of 1990s. The line equipped with our DW multi-layer drying machine, is used in processing as destemming, cleaning, grading, half-cutting, and punching for cherry tomato before its drying. The line is designed according to the requirements of food factory processing standards, all the machines are made of stainless steel. It reaches good effects of easy operation, and avoiding repeated pollution, by using machines instead of manual labors, which fully meets hygienic requirements for exported foods. Low energy consumption, high efficiency ensures dried cherry mushroom of high quality and capacity. The line is consists of stem removing machine, cleaning machine, grading machine, half cutting machine, punching machine and correspondent electric cabinet. The line can be arranged as - shape, L shape and other shape according to your actual plant.

### 虾分级生产线 Shrimp grading production line



主要用于虾的分级。通过对虾分级机的改进，可适合于鱼的分级。具体分级规格根据客户需要定制。本生产线特点：分级率高，替代繁重的人工，大大提高生产效率。

This line is mainly used in grading shrimps. After some improvements, we have designed the fish grading machine. The grading specifications can be customized.

The features of this line: high grading efficient, replace heavy labors, largely improve working efficient.





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### 青刀豆自动切头去尾生产线 Green bean snipper line



用于青刀豆的去头切尾；产量：300kg/h~6000kg/h  
Green Bean Ends Cutting Machine is used to cutting head and tail of green beans.  
Capacity: 300kg/h~6000kg/h

#### 【工艺流程】 Technological process



### 玉米粒(棒)加工生产线 Sweet corn kernels(cobs) processing line



玉米粒(棒)加工生产线是在引进九十年代国外先进技术的基础上，专为玉米深加工配套使用的完整的自动化生产线，与我公司生产的速冻装置配套，可供玉米粒深加工前进行剥皮、脱粒、去腐、清洗、漂烫、干蒸、冷却、速冻等自动流水线处理。该设备按食品加工厂规范要求设计，采用不锈钢及铸件等其它食品级材料制作，由机械操作代替了繁重的人工劳动，操作简便，避免了重复污染，完全符合食品卫生出口标准。能耗低、效率高，为全面提高玉米粒深加工的质量和产量提供了强有力的保障，生产线有枯萎机、剥皮机、去腐挑选机、脱粒机、清洗机及相对应的电控箱等组成。生产线可根据客户的实际场地，将流水线呈“一”字形、“L”形及其它形式的排列。

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Sweet corn production line is the complete & automatic processing line specially for freezing sweet corn cobs and kernels, which is designed based on absorbing foreign advanced technologies of 1990s. The line equipped with our IQF freezer, is used in processing as shelling, threshing, bad removing, washing, blanching, dry cooking, chilling, freezing for sweet corn cobs and kernels. The line is designed according to the requirements of food factory processing standards, all the machines are made of stainless steel or other food grade material. It reaches good effects of easy operation, avoiding repeated pollution, by using machines instead of manual labors, which fully meets hygienic requirements for exported foods. Low energy consumption, high efficiency ensures processing sweet corn of high quality and capacity. The line is mainly consists of withered machine, shelling machine, bad removing & selecting machine, threshing machine, washing machine, and correspondent electric cabinet. The line can be arranged as - shape, L shape and other shape according to your actual plant.







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## 其他产品



氨制冷系统  
Ammonia Refrigeration System



单机双级低温螺杆并联机组  
Compound Two Stage Low-temperature Screw Compressor Unit



氟利昂系统  
Freon Refrigeration System



低温螺杆并联机组  
Low-temperature Screw Compressor Unit



复叠式冷冻机组  
Cascade Refrigeration System

## OTHER PRODUCTS



冷风机  
Air Cooler



蒸发式冷凝器  
Evaporative Condenser



冷库  
Cold Storage Room







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Welding Equipment 焊接设备



Processing equipment 加工设备



Testing Equipment 检测设备



高品质液体无缝管件  
High quality seamless liquid fitting



冷弯U形弯头  
Cold bend U-bend



高品质流体无缝管件  
High quality seamless fluid fitting



专用钢质焊接阀门  
Special steel welding valve





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On-site quality examination 现场质量检查



On-site technical communication 现场技术交流





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制冷机房系统配置  
refrigeration engine room system configuration

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质监部门验收工程  
Quality supervision department acceptance project







## 氟利昂系统 *Freon refrigeration system*

各类速冻及冷库专用机组

Kinds of special units for quick freezing and cold storage

### 低温机型标准配置

螺杆压缩机, 储液器, 仪表盘, 高低压控制器, 电控箱, 油分离器, 水冷式油冷却器, 经济器, 供液过滤器, 吸气过滤器, 喷油组件。

### Low-temperature type

Screw compressor, liquid receiver, gauge panel, high and low pressure controller, electric cabinet, oil separator water-cooling type oil cooler, economizer, liquid supply filter, suction line filter, injection components.



### 高温机型标准配置

螺杆压缩机, 储液器, 仪表盘, 高低压控制器, 电控箱, 油分离器, 喷液冷却系统, 供液过滤器, 吸气过滤器。

### High-temperature type

Screw compressor, liquid receiver, gauge panel, high and low pressure controller, electric cabinet, oil separator spray liquid cooling system, liquid supply filter, suction line filter.



单级低温螺杆并联机组系统

Kinds of special units for quick freezing and cold storage



单机双级低温螺杆并联机组

Single-machine two-stage cryogenic screw parallel set



复叠式冷冻机组

Cascade refrigerating unit





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Create fashionable and exquisite high-quality goods!







## 冷库板系列 Refrigerator Board Series

### 彩钢库板 Colored steel board



有良好隔热性能的聚氨酯为内心材料，外面采用彩钢板做的夹心式库板，可以降低由于内外温差而产生的传热，以达到冷冻、冷藏系统的最大效率。它设计科学，简单实用，是达到节约施工成本的新型隔热材料。

Taking polyurethane with excellent insulation performance as core material and colored steel sheet as external material, the sandwich-type board can reduce the heat conduction due to difference between internal and external temperature to achieve maximum efficiency of freezing and refrigeration system. It is scientific in design, simple and practical, and is a brand-new heat-insulation material that can economize construction cost.  
selectable thickness: 50, 75, 100, 120, 150, 180, 200, 250mm

### 花纹钢库板 Riffled steel board



有良好隔热性能的聚氨酯为内心材料，外面采用花纹板做的夹心式库板，可以降低由于内外温差而产生的传热，以达到冷冻、冷藏系统的最大效率。4mm的花纹钢与PU的粘合，可以省略土建承重及隔气防潮层。可承受叉车在上面行走。

可选厚度规格：100、120、150、180、200、250mm

taking polyurethane with excellent insulation performance as core material and riffled steel sheet as external material, the sandwich-type board can reduce the heat conduction due to difference between internal and external temperature to achieve maximum efficiency of freezing and refrigeration system. the adhesion between 4mm riffled steel and PU can omit the civil-work loadbearing layer and air & moisture insulation layer. this kind of board can withstand the load of forklift.  
selectable thickness: 100, 120, 150, 180, 200, 250mm

### 不锈钢库板 Stainless steel board

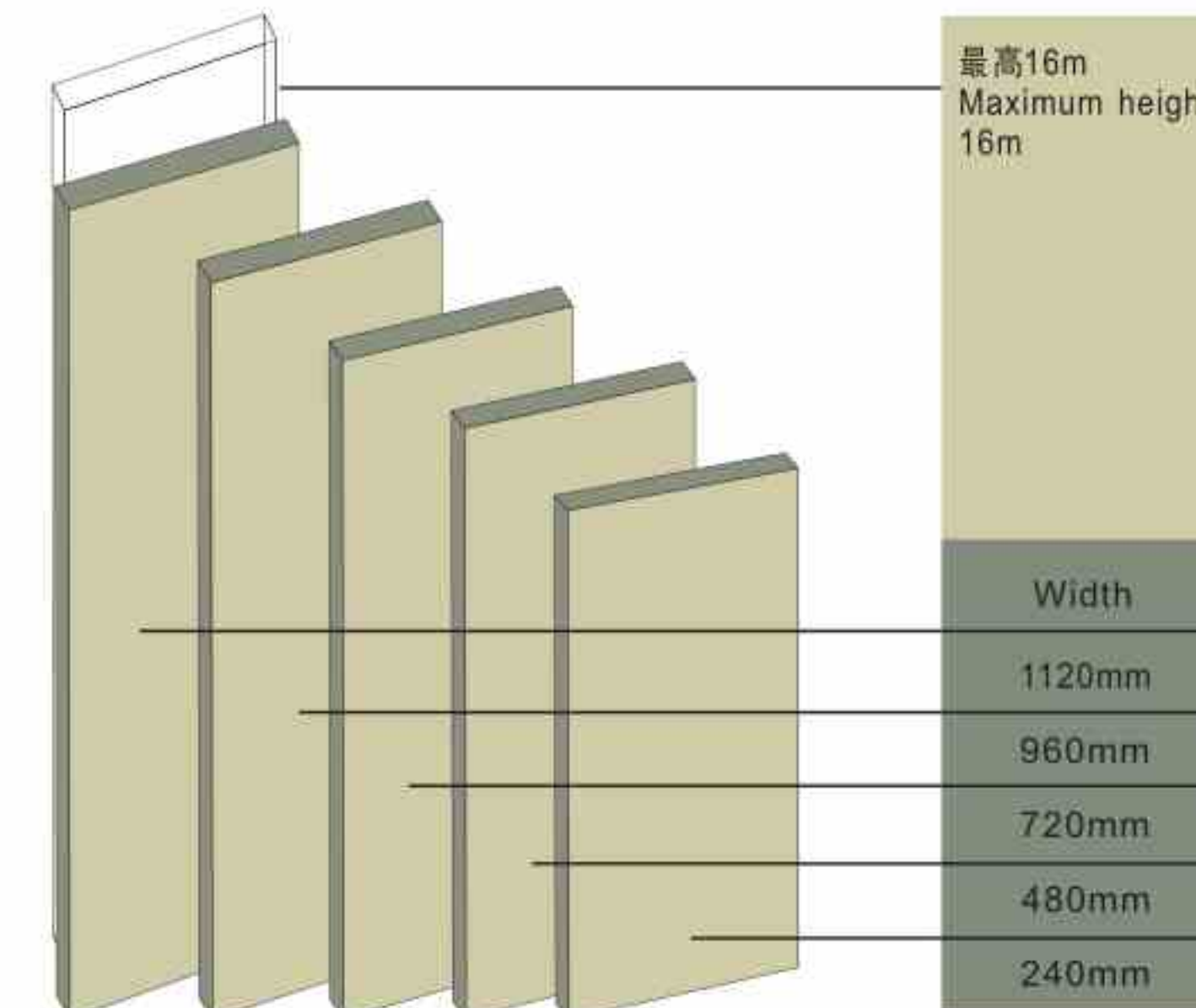


有良好隔热性能的聚氨酯为内心材料，外面采用不锈钢板做的夹心式库板，可以降低由于内外温差而产生的传热，以达到冷冻、冷藏系统的最大效率。

可选厚度规格：100、120、150、180、200、250mm

taking polyurethane with excellent insulation performance as core material and stainless steel sheet as external material, the sandwich-type board can reduce the heat conduction due to difference between internal and external temperature to achieve maximum efficiency of freezing and refrigeration system.  
selectable thickness: 100, 120, 150, 180, 200, 250mm

### 冷库板厚度 Thickness of cold storage board



板厚 Panel THK (mm)
50
75
100
120
150
180
200

同时为客户提供非标规格的库板

### 冷库板标准尺寸及产品介绍 Standard size and products of cold storage board

序号 No.	表面材质 Surface material	厚度							价格 Price
		50mm	75mm	100mm	120mm	150mm	180mm	200mm	
1	双面彩钢板 0.326、0.426、0.476、0.5 Double-face colored steel sheet 0.326,0.426,0.476,0.5	✓	✓	✓	✓	✓	✓	✓	因原材料价格的变化导致 库板价格有所波动敬请电话询价 Please inquire by telephone for the price will change with fluctuation of raw material price.
2	双面彩钢板(宝钢) 0.4、0.45、0.5、0.55、0.6 Double-face colored steel sheet(Baosteel) 0.4,0.45,0.5,0.55,0.6	✓	✓	✓	✓	✓	✓	✓	
3	双面塑钢板 Double-face plastic steel sheet	✓	✓	✓	✓	✓	✓	✓	
4	双面不锈钢 1.0/0.8/0.7/0.6/0.5/0.4 Double-face stainless steel 1.0/0.8/0.7/0.6/0.5/0.4	✓	✓	✓	✓	✓	✓	✓	
5	双面压花铝板 Double-face embossed aluminum sheet	✓	✓	✓	✓	✓	✓	✓	
6	一面彩钢板 一面不锈钢板 One face colored steel sheet, one face stainless steel sheet	✓	✓	✓	✓	✓	✓	✓	
7	一面彩钢板 一面镀锌板 One face colored steel sheet, one face zinc-coated sheet	✓	✓	✓	✓	✓	✓	✓	
8	一面彩钢板 一面花纹板 One face colored steel sheet, one face riffled sheet	✓	✓	✓	✓	✓	✓	✓	
9	聚氨酯光板 Polyurethane sheet	✓	✓	✓	✓	✓	✓	✓	





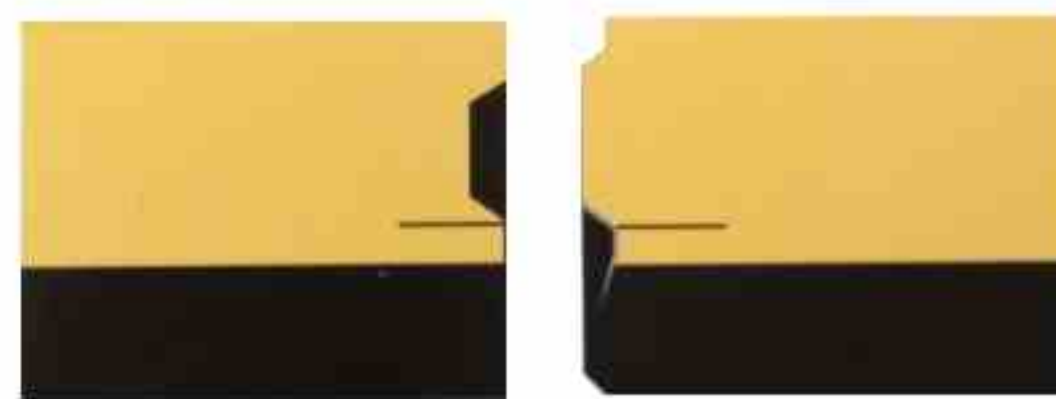
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板与板为凹凸型，采用钢制偏心拉力锁，板与板之间拉紧和锁紧，使用六角匙可方便拆装，或者采用插槽式联接方式。

The boards are of male and female type, with steel eccentric tension lock to tighten and lock the board, and with hexagonal key to facilitate dismounting, or connect with insert type.

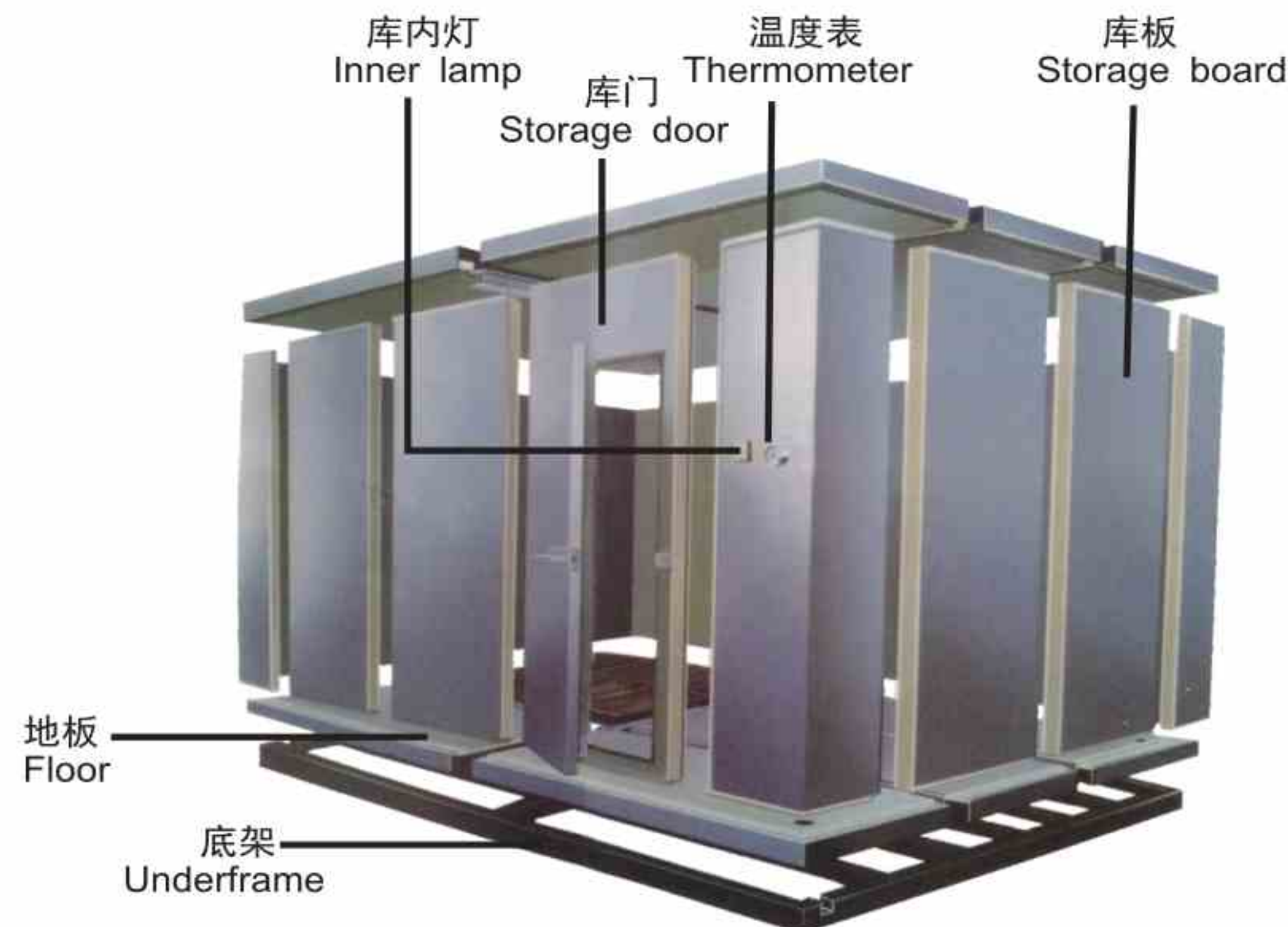


密封胶边 Gaslet  
Airtight trimmings



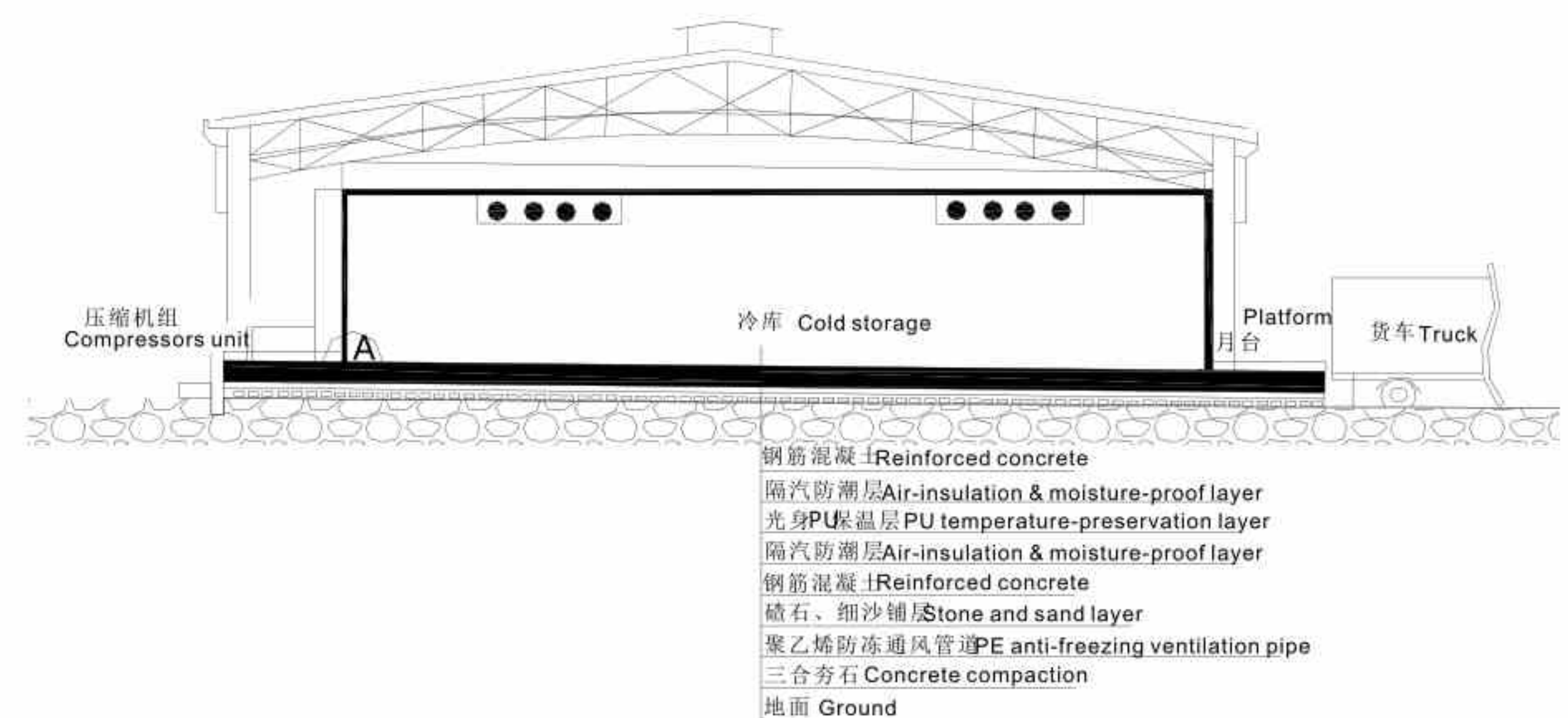
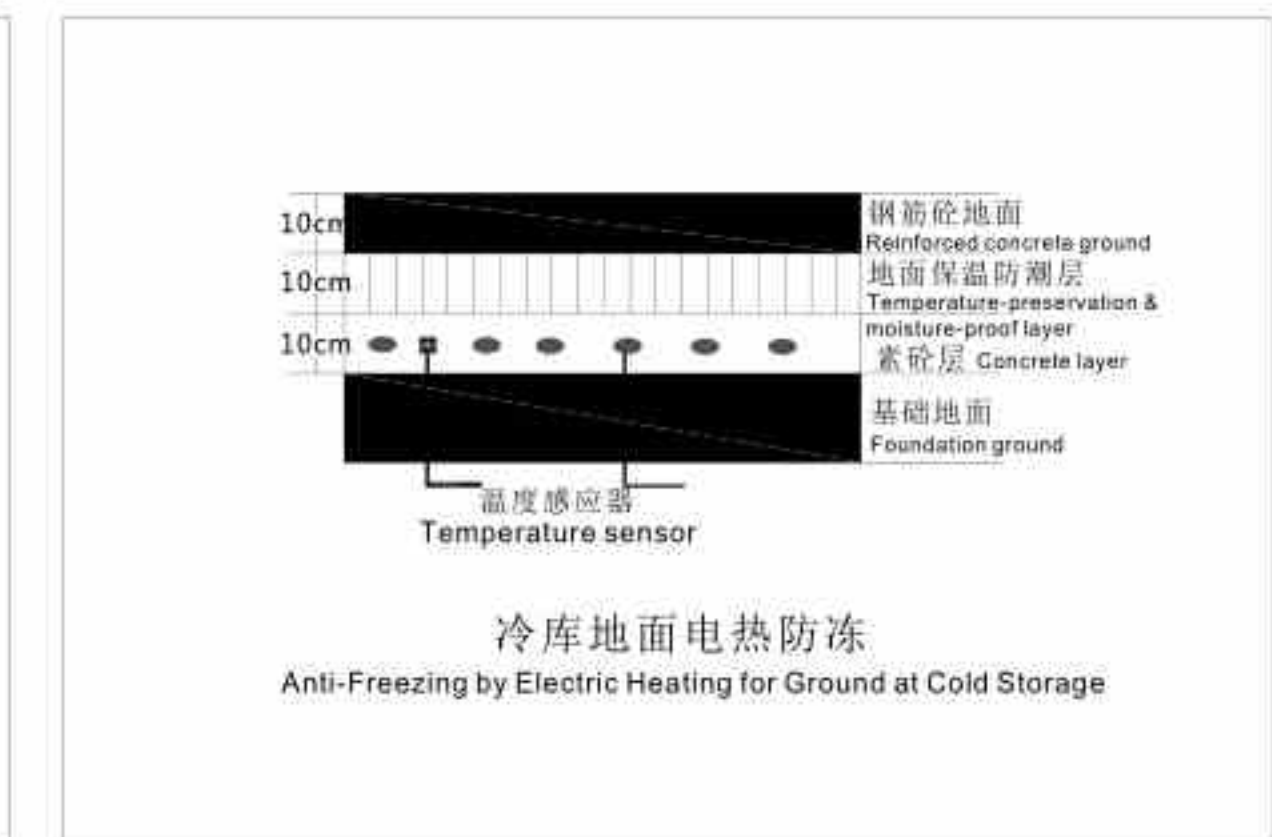
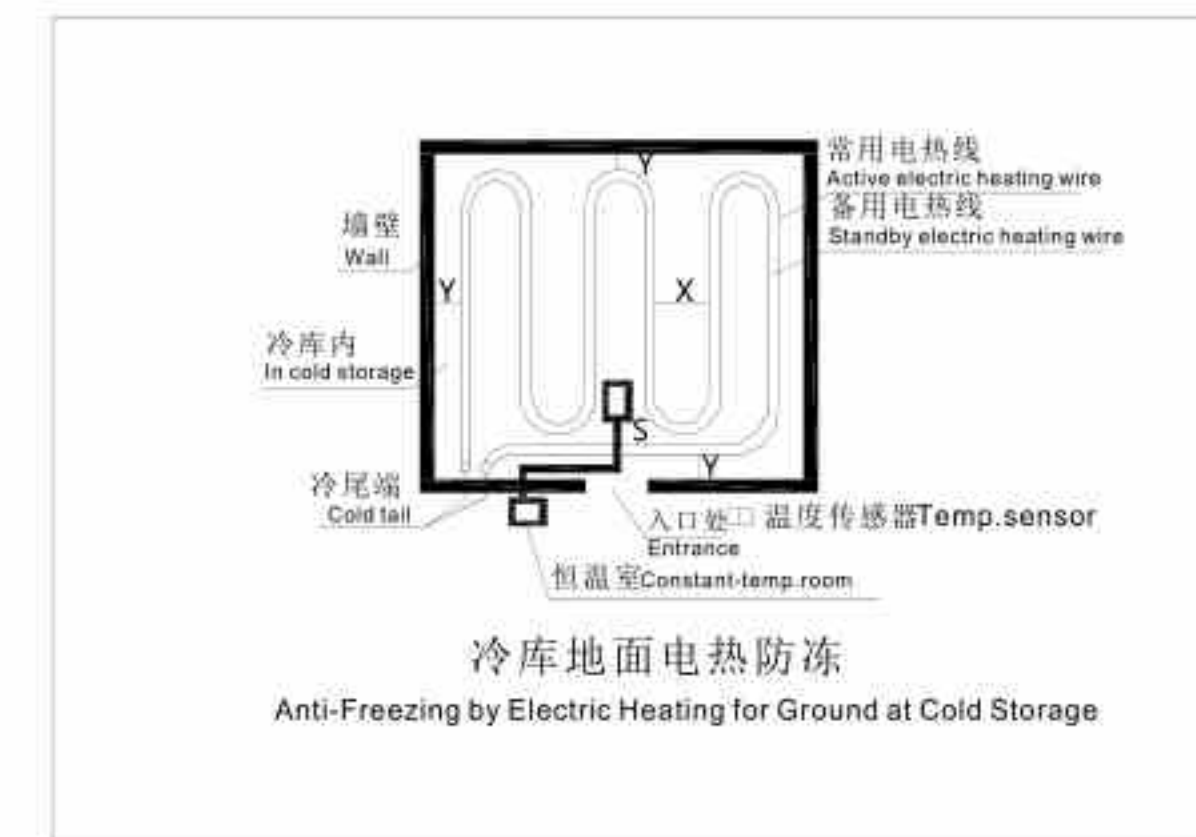
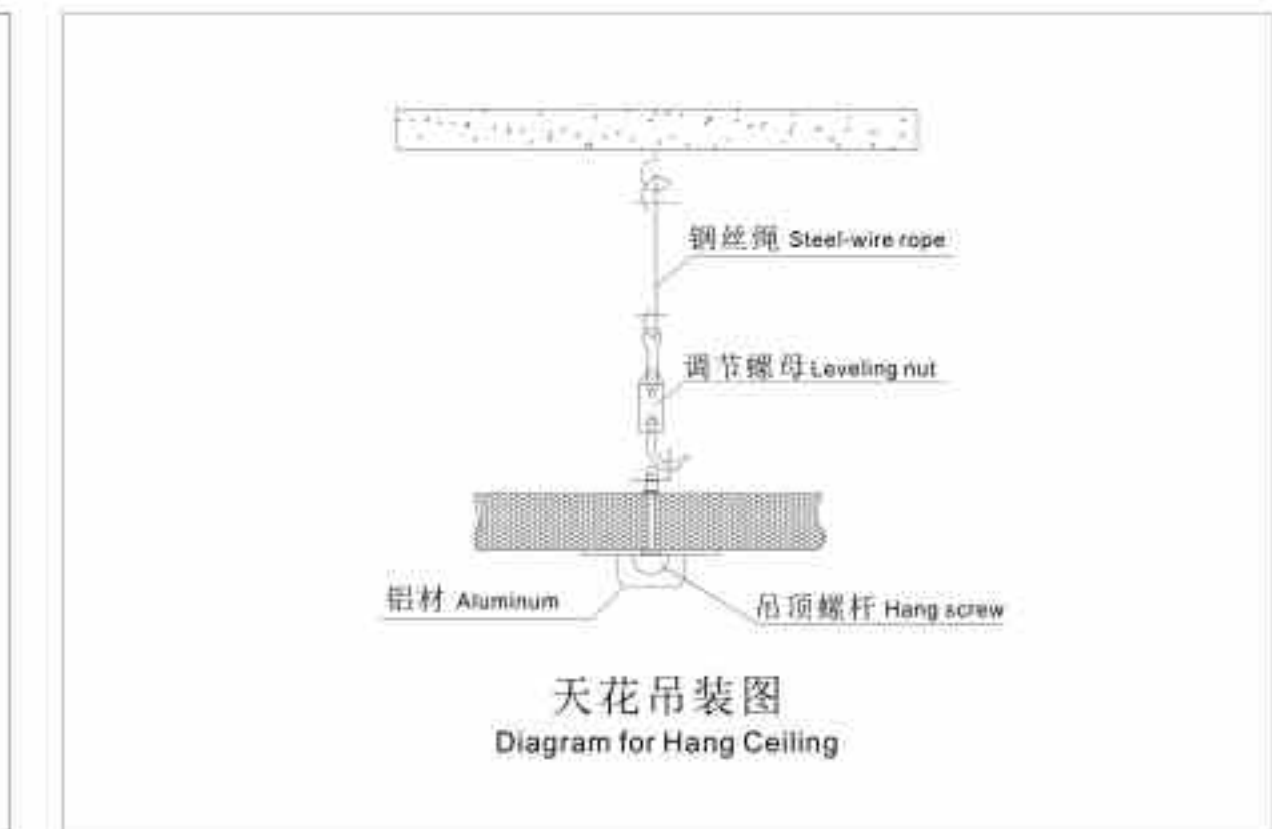
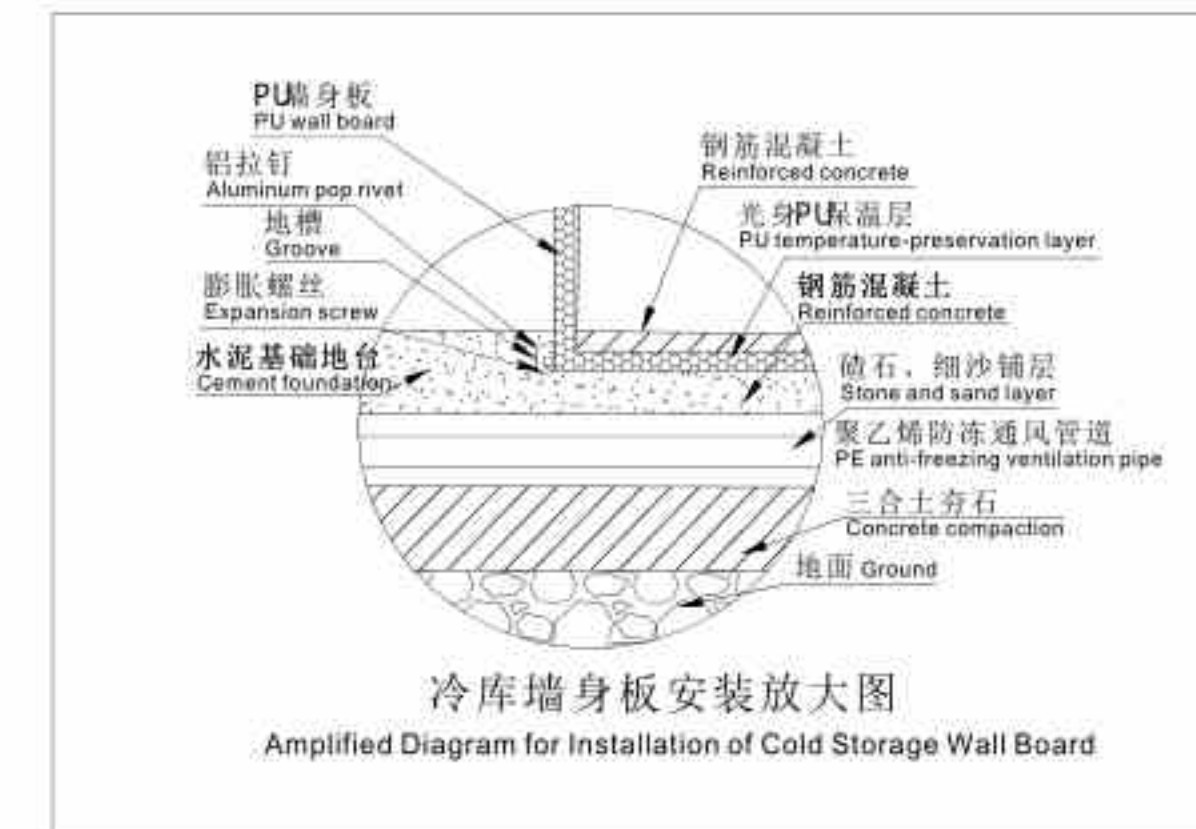
锁钩 Cam-lock  
Latch hook

### 冷库板结构图 Structural figure of cold storage board



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### 冷库安装注意事项

#### 板式冷库安装---关键点控制

##### “冷桥”阻断

隔热夹芯板是阻断冷库内外热冷交换的屏障.除其厚度设置符合规定外,杜绝因板材连接、建筑结构、设备管路、支架穿透隔热夹芯板等方面形成的“冷桥”至关重要。减少这部分负荷,不仅可以减少运行费用更重要的是符合食品冷贮藏、冷加工“库温少波动”的工艺要求,利于降低食品干耗,保持食品质量。阻断“冷桥”,靠切实可行的节点做法完成。

##### “汽桥”阻断

冷库温后后,隔热层中的气体体积缩小,而空气中所含的水蒸汽,由高压侧向低压侧发生作用,即隔热层内外形成压力差。水蒸汽受压后,能透过细微的缝隙进入隔热层,并向温度更低,压力更低的内部渗透。

水蒸气被冷却后变成水,温度进一步降低后,水凝结为冰,隔热层泡沫呈含水或冰状态,就会破坏其绝缘性能,进而影响整体冷库的运转,缩短其使用年限。相对“冷桥”而言。“汽桥”往往被忽视。安装板材时必须阻断所有“汽桥”,减少水蒸气对隔热泡沫的侵入。

##### 强度要求

冷间是内外温差大,制冷设备长期运转的建筑物夹芯板固定方式和构造节点的设计、安装必须能够抗最坏可能的各种外力的组合。主要包括:

- 围护墙板和顶板的外界荷载。
- 夹芯板内外表面材料因温差而产生的热力弯曲。
- 库内温度变化而导致的压力变化
- 夹芯板表面污染、腐蚀和外力撞击引起的损伤
- 冷库地坪隔热层材料的抗压强度和长期荷载变形率
- 夹芯板因材料、制造、时效、安装过程中遗留应力

##### 安全要素

冷库既是建筑物,又是长期运行的“设备”,存在诸多不安全因素,必须加以重视:

- 泡沫阻燃性能与冷库防火措施
- 大型冷库的防火墙设置与保温,逃生门设置
- 意外断电,库内逃生路线标识及冷库门内开启装置
- 防止“爆库”的压力平衡装置
- 冷库门及墙板防撞措施
- 地坪防冻胀措施
- 冷库投产前的安全降温速度

##### 洁净装饰

- 夹芯板按口型式及表面材料选定
- 墙板与地坪、天花板连接处理
- 墙板转角及柱、门、窗洁净节点做法
- 地坪表面处理

##### 节能措施

- 冷库门合理尺寸的选择
- 缓冲间、穿堂、封闭式站台的节能考虑
- 罩衣进风口预留
- 天花板与屋面间热量导出装置



#### Notice to be observed for installation of cold storage

##### Installation of board-type cold storage-control of key points “cold-bridge”blocking

The heat-insulating laminboard is used to block up the heat exchange between interior and exterior of cold storage.besides qualified thickness,it is also important to avoid “cold-bridge”incurred by board connection.architectural structure,equipment’s pipeline,bracket passing through laminboard.etc.the reduction of such load can not only economize running expense.but also comply with the process requirement of “less fluctuation of storage temperature” for cold conservation and processing of food,thus the weight loss of food is reduced and quality of food is maintained.the “cold-bridge” is blocked up by reliable node practice.

##### “steam-bridge” blocking

After the temperature in cold storage reduces,the gas volume in heat-insulating layer is reduced while the steam in the air takes effect from high-pressure side against low-pressure side ,i.e.:pressure difference is formed between interior and exterior of heat-insulating layer.the pressurized steam can enter into heat-insulating layer by fine seam and permeate towards the interior with lower temperature and pressure.the steam is refrigerated to generate water,after further temperature drop,the water will be condensed to be ice.the foam of heat-insulating layer with water or ice will exercise adverse effect to its insulation performance,thus the running of whole cold storage is affected and the usage lifetime is shortened.compared with “cold bridge”,“steam bridge”is always neglected.all the “steam bridge”shall be blocked up to minimize the invasion of steam against heat-insulating foam.

##### Strength requirement

For the temperature difference between interior and exterior is high,the fixation mode of building as well as design and installation of structural nodes shall be able to withstand the combination of external forces under worst circumstances for long-term service of refrigeration equipment.

- External load of enclosure wall board and ceiling board
- Thermal bend caused by temperature difference between internal and external surface of laminboard
- Pressure fluctuation caused by temperature change in the storage
- Damage caused by pollution,corrosion and external collision on the surface of laminboard.
- Compressive strength and deformation rate for long-term load of material for heat-insulating layer of cold storage floor.
- Tension left in laminboard due to material,manufacture,aging and installation.

##### Safety factor

- The cold storage is not only a building but also equipment for long-term service.so unsafe factors shall be taken into account:
- Fire-retardant performance of foam and fireproof measure for cold storage
- Fireproof wall,temperature preservation and escape door of large-scale cold storage.
- Mark for escape route and door-opening device in the storage in case of accidental power failure.
- Pressure-balance device to avoid “explosion”
- Anti-collision measure for cold storage door and wall board
- Anti-frost heaving measure for floor.
- Safety temperature-drop speed before putting cold storage into service

##### Clean decoration

- Laminboard selection pursuant to type and surface material
- Treatment for connection between wall board and floor,ceiling
- Practice of clean node for corner of wall board,column,door and window
- Surface treatment for floor

##### Energy-saving measures

- Selection of reasonable size of cold storage door
- Energy-saving consideration for buffer room,hallway and sealed platform.
- Reservation of air inlet
- Heat output device between ceiling and roof.



## 冷库门系列 Cold storage doors Series

### AD豪华电动门 AD luxurious electrically-driven door

AD系列电动平移门，采用国际先进技术，制作精美，具有密封、隔热良好，特点是门体运行平稳，使用寿命长，且适合大尺寸门体。

AD electrically-driven sliding door adopts internationally advanced technology, it is delicate in manufacture and has good air-tightness and insulation performance, with stable running and long service lifetime, it is suitable for large-sized door body.



开门方向（面向门正面）左，自右向左为左开，右，自左向右为右开。  
Door-opening direction (face to the door), towards either left or right

门体厚（单位：mm）  
Thickness of door body (in mm):

门洞高（单位：mm）  
Height of door opening (in mm):

门洞宽（单位：mm）  
Width of door opening (in mm):

门体扇数（单开，1；双开，2）  
Number of door leaf (leaves): 1 for single door and 2 for double door

电动平移门  
Electrically-driven door

### LD平移门 LD sliding door

LD系列平移门选材合理，结构简单，外表修饰美观，内部聚氨酯整体发泡，密封性强、隔热良好，同时具有库内脱险装置，安全实用，特点是门体较轻。

LD series sliding door is reasonable in material selection, simple in structure and beautiful in appearance decoration. With integrated foaming of internal polyurethane, the air-tightness and insulation performance is good; the escape & safety device in the storage is practical. The feature is low weight of door body.



L开门方向（面向门正面）左，自右向左为左开，右，自左向右为右开。  
Door-opening direction (face to the door), towards either left or right

门体厚（单位：mm）  
Thickness of door body (in mm):

门洞高（单位：mm）  
Height of door opening (in mm):

门洞宽（单位：mm）  
Width of door opening (in mm):

门体扇数（单开，1；双开，2）  
Number of door leaf (leaves): 1 for single door and 2 for double door

轻型平移门  
Light-duty sliding door

### AD豪华电动门介绍 Introduction of AD luxurious electrically-driven door

应用行业 Applicable industry	食品、工业、超市、仓储、制药、零售	Food, industry, supermarket, storage, pharmaceuticals, sale.
适用环境 Applicable environment	-45℃ ~ 50℃	-45℃ ~ 50℃
可选配件 Optional fittings	① 无线遥控器 ② 防撞柱装于门洞内外侧，防止运输车误撞门体 ③ 库内外采用防水按钮开关	1. wireless remote controller 2. Anti-collision column mounted at internal and external side of door opening to prevent the truck from hitting against the door body in error. 3. Waterproof button switch is adopted inside and outside the storage.
密封条 Sealing string	使用三元乙丙制作，其耐化学稳定性好，耐用老化性能优异，温度适应性广，长期工作温度为-50℃ ~ 130℃	Made of EPDM with good chemical resistance and stability, durability and aging performance, and extensive temperature range. long-term working temperature is -50℃ ~ 130℃
门板 Door panel	采用聚氨酯与面板整体发泡，外观平整，保温性能好，同时克服了拉铆钉影响外观的缺陷。独特的圆角造型，流畅悦目。	Adopt integrated foaming for polyurethane and panel, it is flat in appearance and good in temperature preservation performance, and the appearance defect caused by rivet is conquered. The unique round angle style is smooth and beautiful.
门框 Door frame	采用铝合金或C型钢上包制不锈钢，外观整洁大方，经久耐用，克服了木制门框强试验时易腐烂的缺点。并配自限温电热带，不需温控或人工开关电源。	Made of aluminum alloy or C steel enveloped by stainless steel, it is tidy in appearance and durable, and the disadvantage of corrosion during strength test against wooden door frame is conquered. Fitted with electric heating string for self temperature control, there is no need to mount temperature control or manual switch power source.
导轨装置 Guide rail device	铝合金制作导轨，其内由导向轮装置与压紧轮装置配合动作，使门在开启时与门框分离，在关闭时向门框与地坪压紧。	Made of aluminum alloy, its guide wheel device acts together with compression wheel device so that the door can separate with door frame when opening and press against door frame and floor when closing.
传动系统 Transmission system	采用同步电机及编码器组合，淘汰行程开关和双稳开关，能正确无误差，精密动作，门体同步带传递运动，手动的转换确保电动门的安全性及实用性。	Adopt the combination of synchronous motor and encoder, the travel switch and bistable switch are obsolete, so the action can be correct and accurate without error. The synchronous transmission and movement of door body as well as manual conversion can ensure the safety and practicality of electrically driven door.
电控系统 Electric control system	电控系统：采用日本原装 Panasonic 变频器，保证了电控系统的可靠性，无线控制器，红外线报警系统程序设计各种触发状态对应不同的响应情况，使门的控制达到完美的效果。	Adopt original Panasonic frequency converter to ensure the reliability of electric control system; wireless controller and infrared alarm system will activate difference responses pursuant to different circumstances to achieve better control to the door.





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### DAD重型双开电动门 DAD Heavy-duty bipartition auto door



DAD系列电动门平移门选材合理，采用国际先进技术，制作精美，具有密封、隔热良好，使用寿命长的特点。同时具有库内脱险安全装置，安全实用。  
By adopting internationally advanced technology, it is reasonable in material selection, delicate in manufacture, good in air-tightness and insulation performance and long in service lifetime. With escape & safety device in the storage, it is safe and practical.



### FD自由防撞门

FD Free-style anti-collision door

FD系列自由门，采用可调节式单弹簧铰链，外观符合通俗审美效果，调节方便，使用寿命长的特点。  
By adopting adjustable single-spring hinge, it is convenient in adjustment and long in service lifetime with appearance that complies with traditional aesthetical standard.

### SED半埋门 SED semi-embedded door

SED系列半埋门，特点是门体一半镶嵌在门框中，密封、隔热最为优越，外观也比外贴式美观。  
Half of the door is embedded in the door frame, so the air-tightness and insulation performance is excellent and the appearance is more beautiful than other models.



### BD回归门 BD Fly-back door

BD系列回归门特点是门体与门框平，外装闭门器，能自动关门、压紧，外观美，密封、隔热良好。  
The door body aligns with door frame, and with door closer mounted outside, the door can be closed and pressed automatically, it is beautiful in appearance and good in air-tightness and insulation performance.



### HD I 重型门 HD I Heavy duty door

HD I 系列重型平移门，采用国际先进技术，制作精美，具有密封、隔热性能极好，门体运行平稳，使用寿命长，适合大尺寸门体。  
By adopting internationally advanced technology, it is delicate in manufacture, good in air-tightness and insulation performance, stable in running and long in service lifetime. It is suitable for large-sized door body.

### HD II 重型门 HD II Heavy duty door

HD II 系列重型门，采用国际先进技术，制作精美，具有密封、隔热性能好，使用寿命长的特点。同时具有库内脱险安全装置，安全实用，特点是能承受较大重量的门体。  
By adopting internationally advanced technology, it is delicate in manufacture, good in air-tightness and insulation performance and long in service lifetime. With escape & safety device in the storage, it is safe and practical. It can withstand the door body with relatively large weight.







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## 冷库设备系列 Series of equipment for cold storage







## 其他产品 Other products

□ 后处理生产线  
Post-processing line



□ 平板速冻机  
Full contact plate freezer



□ 自动包装生产线  
Auto Packing line



□ 鱼片加工生产线  
Fish fillet processing production line



□ 脱水前处理生产线  
Dehydration preprocessing production line



□ 去核机  
Auto Corer



□ 速冻前处理生产线  
Frozen pretreatment production line



□ 净菜加工生产线  
Clean vegetables processing production line



□ 玉米粒加工生产线  
Corn kernels processing production line



□ 毛豆加工生产线  
Edamame processing production line



□ 水产加工生产线  
Aquatic processing production line



□ 青刀豆加工生产线  
Green bean processing production line



□ 草莓加工生产线  
Strawberry production line



□ 脱水后处理去杂生产线  
Edamame processing production line



□ 圣女果(西红柿)加工生产线  
Cherry tomato processing production line



□ 果蔬对剖机系列  
Fruit and vegetable cutting machine series



□ 鱼丸生产线  
Fish ball production line



□ 巴氏杀菌生产线  
Pasteurization production line



□ 蘑菇(香菇)加工生产线  
Mushroom (shi-take) processing production line



□ 烧烤生产线  
Mushroom (shi-take) processing production line



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