



冰轮环境
MOON-TECH

智慧 / 绿能 / 生态
INTELLIGENT GREEN ENERGY ECOLOGY

SPIRAL FREEZER



冰轮环境技术股份有限公司
MOON ENVIRONMENT TECHNOLOGY CO.,LTD.

With continuous technological and manage has promoted the continuous optimization of resource allocation and reconstruction of core competencies, Moon-TECH accelerated international expansion transformation. We have transformed from a traditional manufacturing enterprise to a modern service-oriented enterprise with strong competitiveness, large scale, wide coverage, complete business chain, and strong comprehensive research and development capabilities



Industrial Park in the US



Malaysian Industrial Park



Industrial Park in the UK



Vietnam Industrial Park



Baoding Industrial Park



Guxian Industrial Park



Laishan Industrial Park



Jinan Center

MOON-TECH

(Stock Code of 000811)



Low-temperature refrigeration



Central air-conditioning



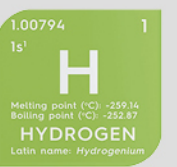
Environmentally friendly heating



Energy and chemical equipment



Precision Casting



Hydrogen Energy Development



Smart Services



Intelligent Packing Machinery and Warehouse Storage System

With devoting to improving the quality of human life as the enterprise mission, MOON-TECH continuously build and enhance competitive advantages in the field of comprehensive energy utilization and accelerate the process of globalization, taking the revitalization of national industry and achievement of customer value as its responsibility, continuously creates and improves its competitive advantage, striving to become an evergreen enterprise with core competitiveness, loved by employees and respected by industrial partners.

Founded in 1956, Moon Environment Technology Co., Ltd (Stock Code: 000811). is a diversified and international comprehensive equipment industrial enterprise. The main business covers low-temperature refrigeration, central air conditioning, environmental protection heating, energy and chemical equipment, precision castings, smart services, hydrogen energy development, etc. In recent years, MOON-TECH has successively won the titles of Top 30 Enterprises with Core Competitiveness in China's Machinery Industry, Top 100 Enterprises of National Machinery Industry, Meritorious Enterprise of Equipment in China, and Demonstration Enterprise for Ozone Layer Protection.

For a longtime, with continuous technological and manage has promoted the continuous optimization of resource allocation and reconstruction of core competencies, accelerated international expansion transformation. We have transformed from a traditional manufacturing enterprise to a modern service-oriented enterprise with strong competitiveness, large scale, wide coverage, complete business chain, and strong comprehensive research and development capabilities

With the synchronous development of refrigeration and heat treatment, and actively expanding energy-saving and environmental protection industry as developing strategy, MOON-TECH is engaged in the technical research and development of low-temperature environment, waste heat recovery, gas compression, industrial heat exchange, urban clean emission and other fields, as well as the production and sales of related complete sets of equipment, and specializes in food refrigeration, chemical process cooling, comfortable environment air conditioning, research temperature control, process gas compression, building aggregated cooling, comprehensive application of heat energy, permafrost drilling, waste treatment, tec. MOON-TECH has production bases, scientific research centers and marketing& service organizations in more than 40 countries around the world. With safe, environmentally friendly, energy-saving, intelligent and Butler-style system integration capabilities, MOON-TECH is providing products with entire product life cycle to users in more than 120 countries and regions around the world.

MOON-TECH has 6 national scientific and technological innovation platforms including the National-Recognized Enterprise Technology Center and 16 provincial scientific and technological innovation platforms including the Shandong Provincial Key Laboratory of Energy Saving and Environmental Protection of Refrigeration Equipment. MOON-TECH has been recognized as a key high-tech enterprise of the China Torch Program, with 326 national patented technologies, and has hosted and participated in the formulation of 25 national standards and 37 industry standards. MOON-TECH has won two national awards, the National Science & Technology Progress Award and the National Technology Invention Award, and has successively won 213 provincial and ministerial scientific and technological achievements awards such as the Special Prize for Scientific and Technological Progress of the Chinese Association of Refrigeration and the First Prize for Scientific and Technological Progress of Shandong Province.

Following the requirements of the environmental policy of harmonious coexistence between human and nature, MOON-TECH is committed to the innovation of artificial environment control technology and comprehensive energy utilization technology to promote a simple, moderate, green and low-carbon mode of social production and operating system, actively building an interconnected and complementary system, including refrigeration, heating, water, gas, electricity, sewage, waste within the -271°C -200°C temperature and 0-90Mpa pressure range, aiming to achieve an energy ecological link between industrial parks and living spaces, and become an intelligent green energy system solution service provider. MOON-TECH also dedicates to develop the utilizations of NH₃、CO₂、HC、He、H₂O and other environmentally friendly substances application technologies, striving to provide professional, high value-added intelligent energy comprehensive utilization solutions.

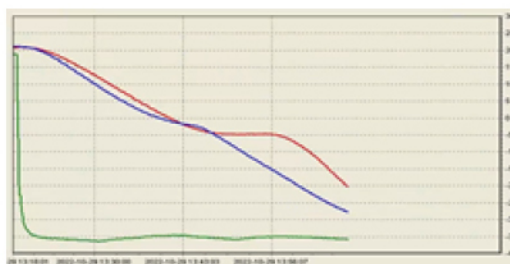
In recent years, MOON-TECH actively actualized the green and low-carbon developing concept, accelerating the transformation of traditional industries around the dual-carbon goal and energy revolution, promoting the upgrading of the industrial structure to a low-carbon and high-quality level, and set six goals of "low-carbon industry, low-carbon technology, low-carbon manufacturing, low-carbon chain, low-carbon services, low-carbon culture", so as to ultimately realize the industrial structure of high-end, low-carbon consumption of energy, utilization of resources recycling, cleanliness of the production process, and to contribute to the realization of dual-carbon target.





Research and Development Strength

Relying on the international enterprise technology center, postdoctoral workstation and other innovation platforms, Moon-Tech plays the advantages of joint research and development between production, academia and research. Adopting professional design software and using professional freezing laboratory, we constantly optimize the freezing process and product structure to provide you with more intelligent, low-carbon and stable quick-freezing equipment solutions.

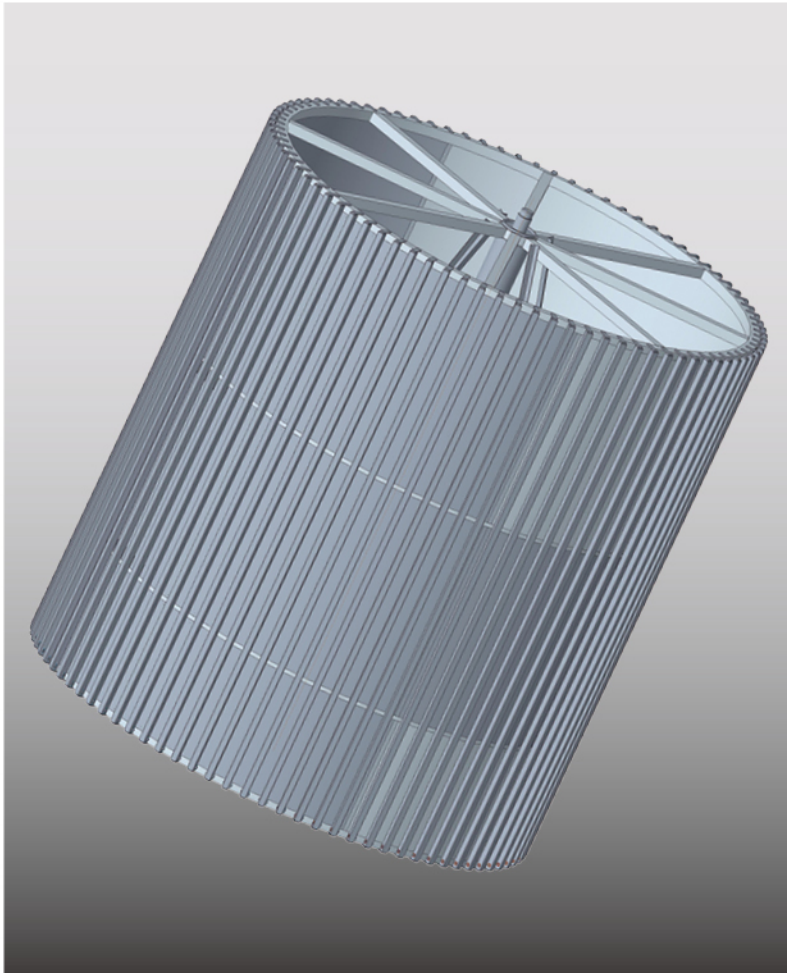


Product Application

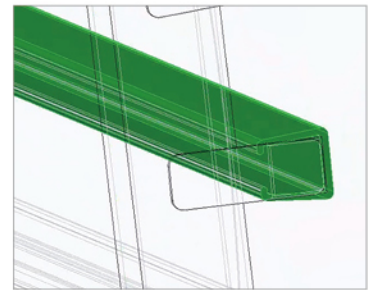
Spiral freezing equipment products can be widely used in poultry, aquatic products, pasta and rice, bakery, seasoned food, hot pot food, ice cream, etc.



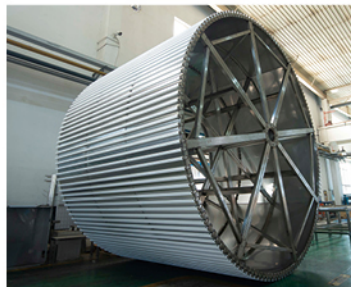
Introductions/ Rotary Cage



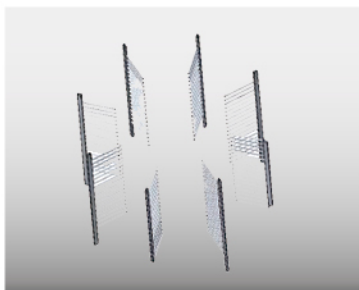
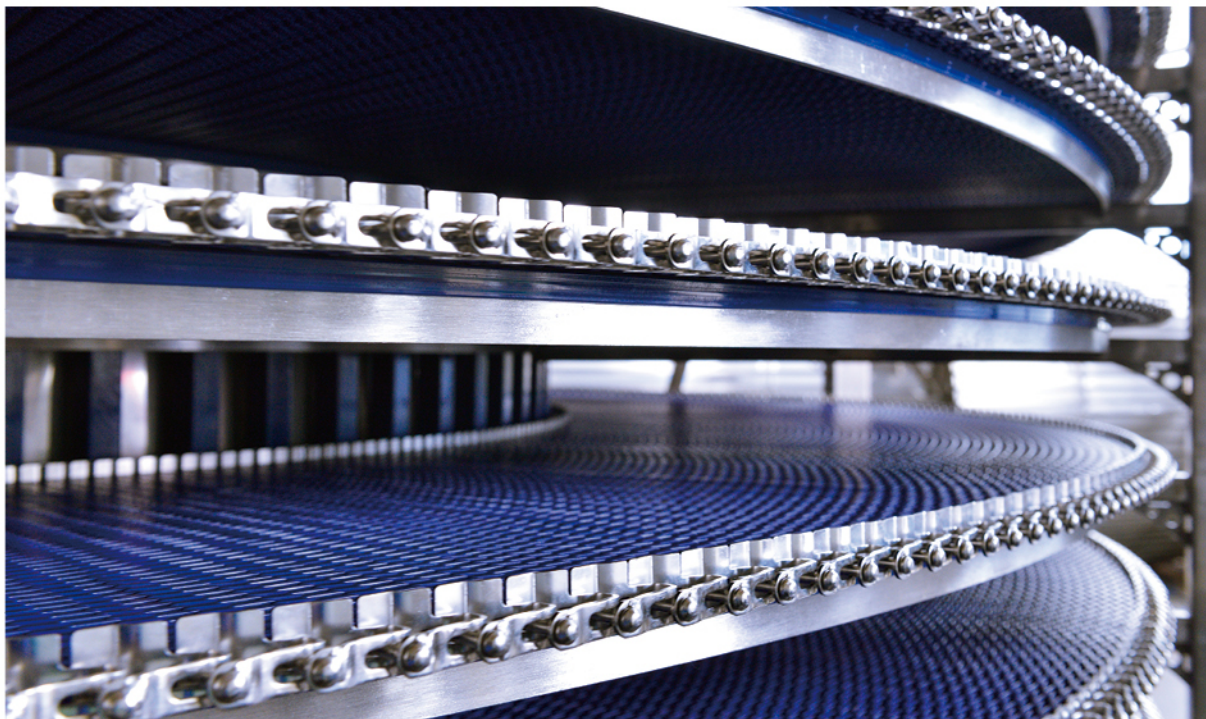
- ◆ High Strengthen Rotary Cage
- ◆ Ring-type ultra-high polymer wear-resistant strip
- ◆ Small space mesh belt with toggle design



- ◆ It meets the requirements of large load, high speed and long-term stable operation.

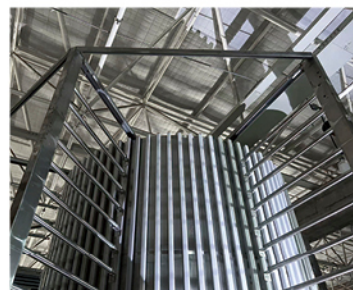


Introductions/ Mesh belt and support



- ◆ The mesh belt is made of food-grade 304 stainless steel spring wire, with higher strength and better abrasion resistance.
- ◆ The mesh belt has 8 widths options for common use, suitable for different diameters of the cage, these are 650mm, 710mm, 800mm, 850mm, 1000mm, 1100mm, 1270mm, 1392mm.
- ◆ Mesh belts can be customized as well to meet the needs of different products and freezing processes.
- ◆ The support is made of solid stainless steel bar, which is strong, hygienic and durable.

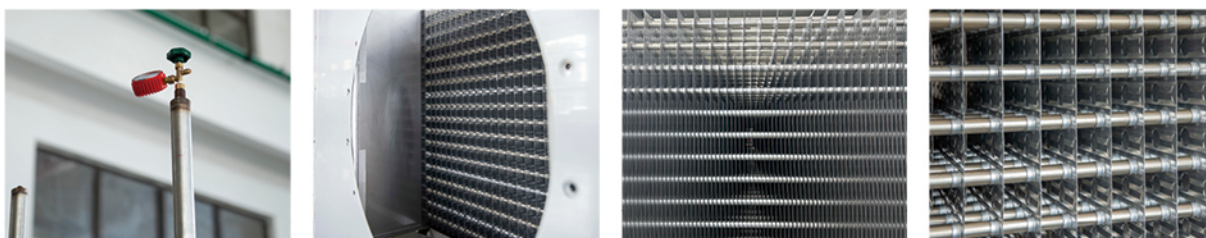
Note: The material of mesh belt can also be selected as POM



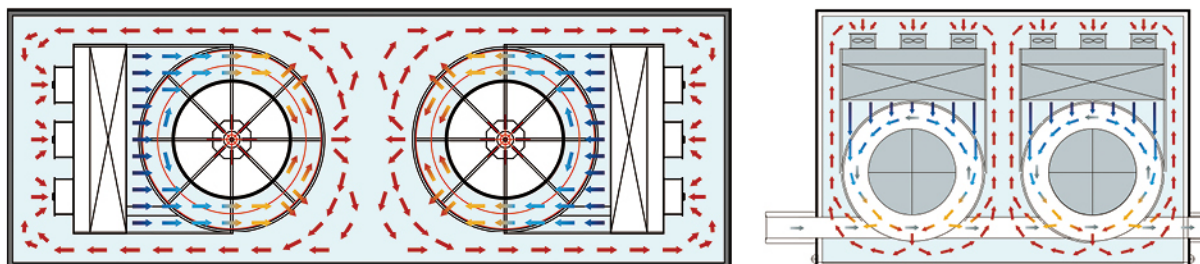
Evaporator and Wind farm

Moon-tech adopts special heat exchanger software to carry out optimized design, specifying the optimal combination of pipe rows and the length of a single pipeline, and realize the optimal design of heat exchanger, pipe resistance and wind resistance based on CFD simulation system.

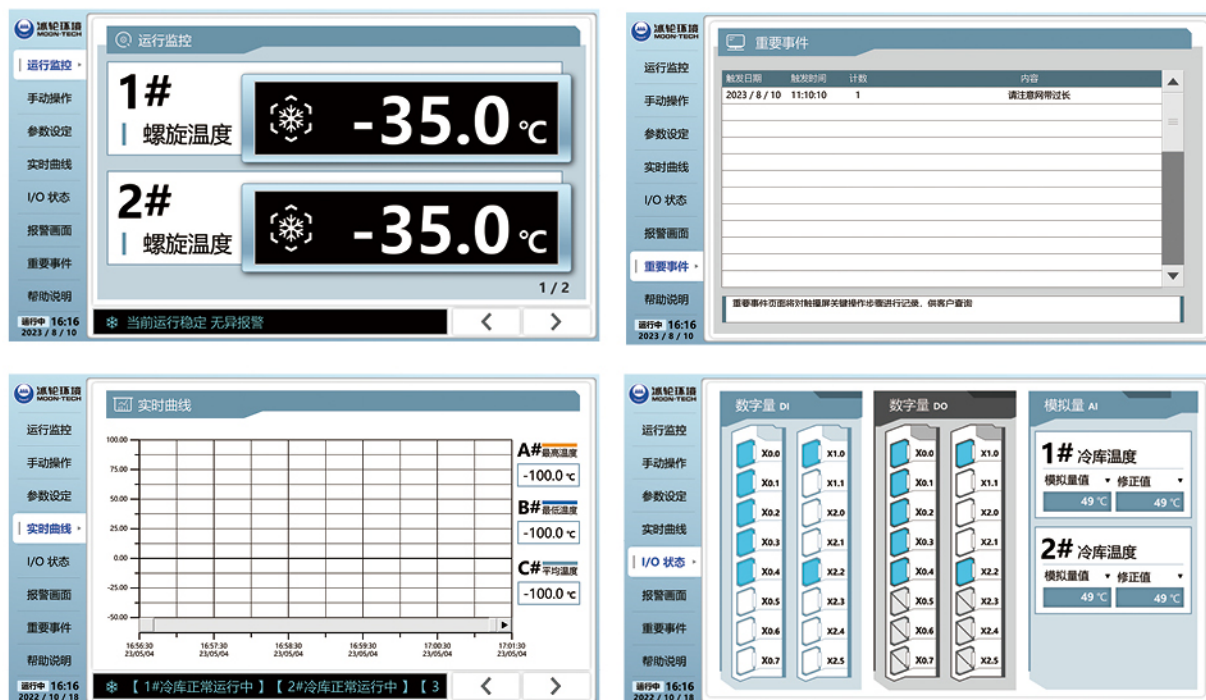
- ◆ Moon-tech adopts special heat exchanger software to carry out optimized design, specifying the optimal combination of pipe rows and the length of a single pipeline, and realize the optimal design of heat exchanger, pipe resistance and wind resistance based on CFD simulation system.
- ◆ After upgrading the materials of tube comprehensively for heat exchange, stainless steel tube is now a stander.
- ◆ With advanced high-pressure water tube expansion process, the tube shall be evenly and tightly expanded, in order to reach a higher heat transfer efficiency.
- ◆ By using 40/20/10 high flap, large spacing and variable sheet pitch design, a longer continuous operating time can be assured.
- ◆ Combined one-piece fins with variable spaces allow the cold air runs smoothly along the fins.
The large plenum chamber design helps the cold air distributes uniformly, and the usage of evaporator area has no blind corner.
- ◆ The pressing conveying belt and immediate examination method offering a more reliable quality.



- ◆ Both sides have its own evaporator to maximize the expansion of the windward area and reduce the impact of frost on the cold air circulation.
- ◆ The low-temperature and high-speed airflow is restrained by the windshield while passing through the evaporator, concentrating in the producing area, where it exchanges heat with high efficiency.
- ◆ The ∞-shaped air return channel helps the airflow achieves an independent circulation, after stopping the machine it is also used as a maintenance channel, spacious and easy to reach.



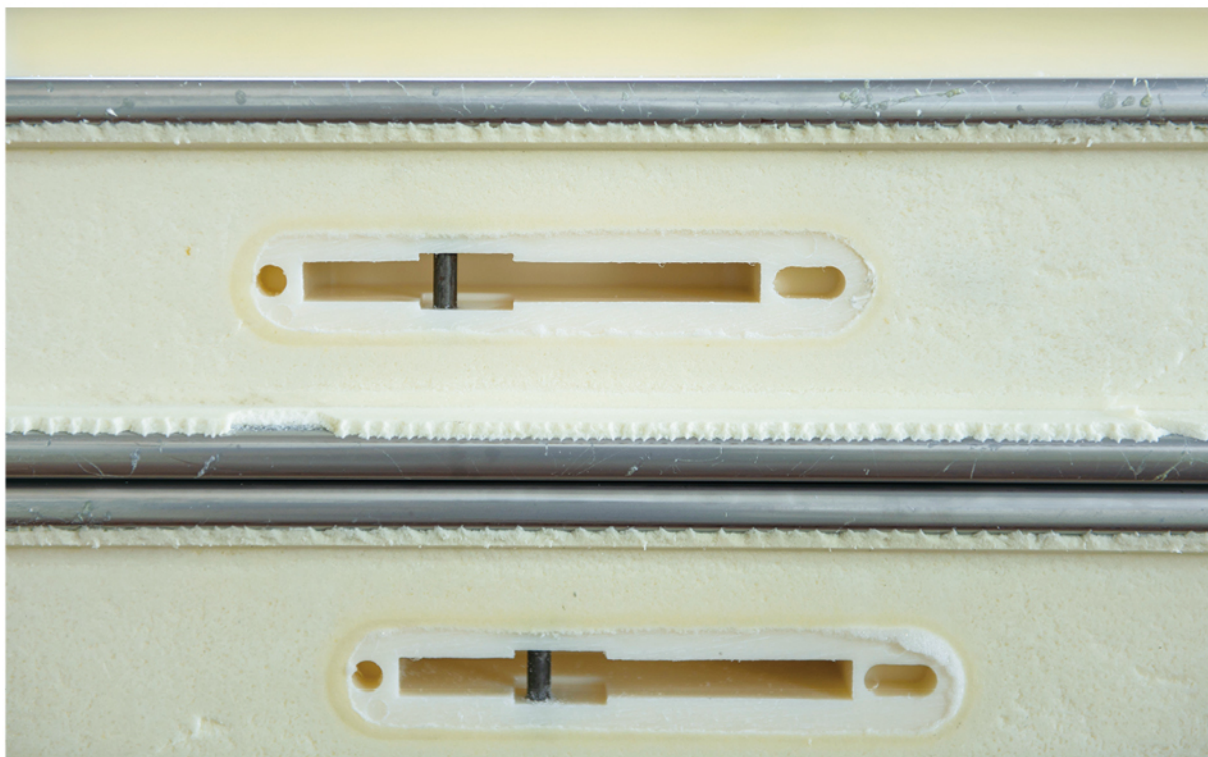
Intelligent Control and Protection



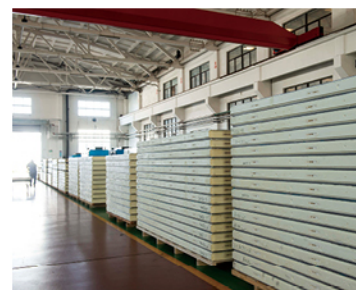
- ◆ PLC control system equipped with touch screen, meets the requirements of fully functional, easy to observe and easy to operate.
- ◆ Six embedded control programs meets the requirements of switching modes for multi-frozen products only with one-touch.
- ◆ IOT design with optional remote troubleshooting module for intelligent production
- ◆ Up to 10 protective alarms



Insulation

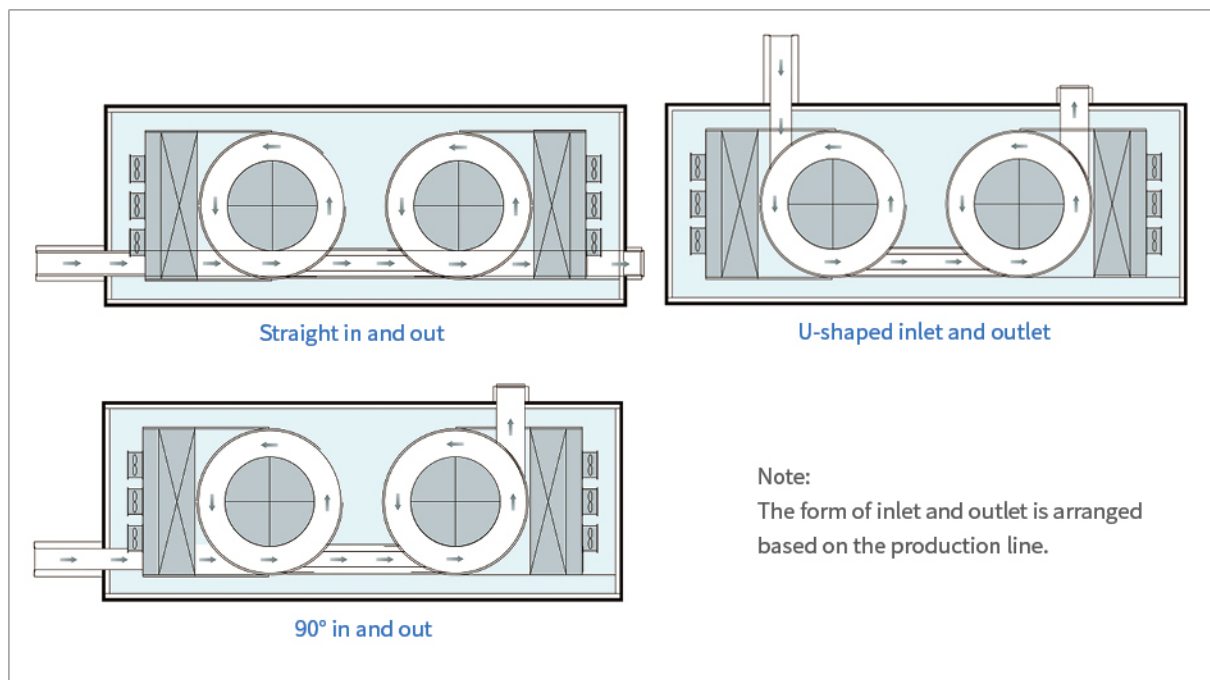


- ◆ The advanced technology and equipment from Italian CANNON company is applied, which the foam density is 40kg/m^3 .
- ◆ Top, bottom and side panels are made of double-sided stainless steel. The bottom panel is made of stainless steel with one-time foaming and full welding technology, which is tight and durable.
- ◆ The convex surface of the corner board is widely used in this product, eliminating the existence of low-lying water storage sections in the polyurethane protective layer, making it drier and more durable.
- ◆ Hook-lock links are used between the panels, which are more tightly connected after tensioning and have better thermal insulation performance.

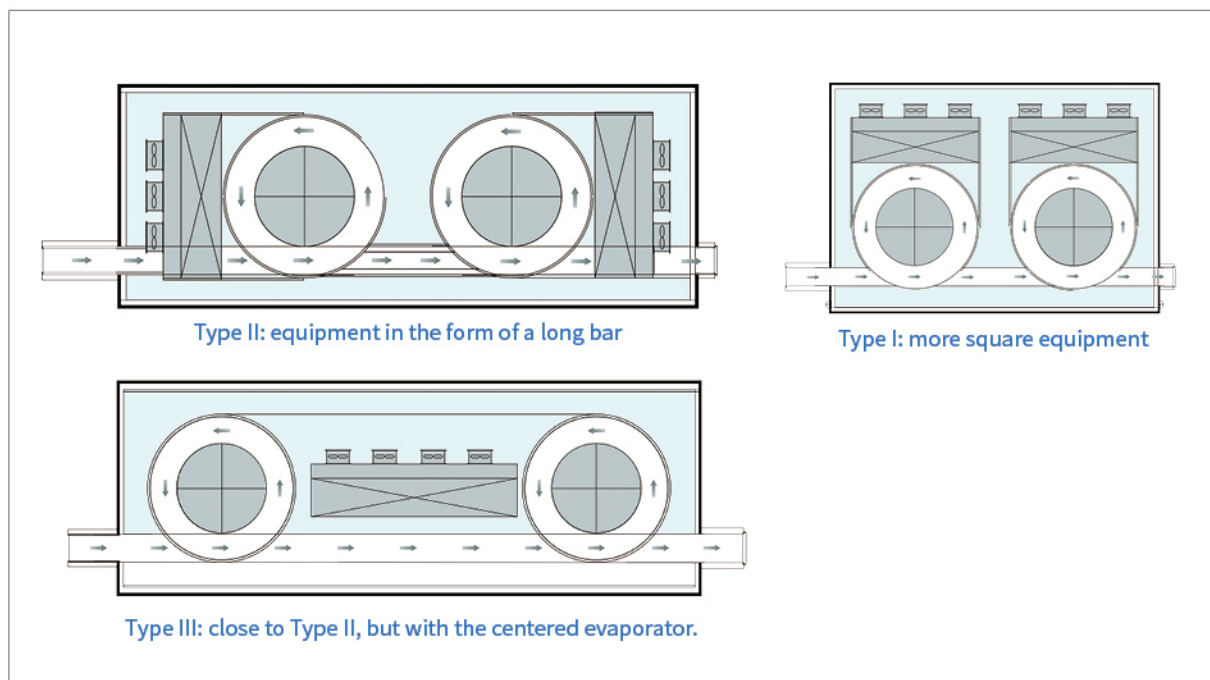


Customized design

Multiple inlet and outlet orientations



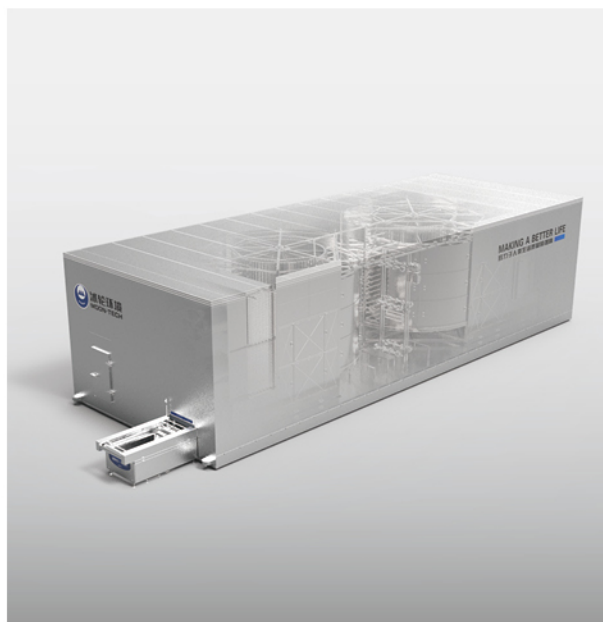
Various product structure forms



Specification

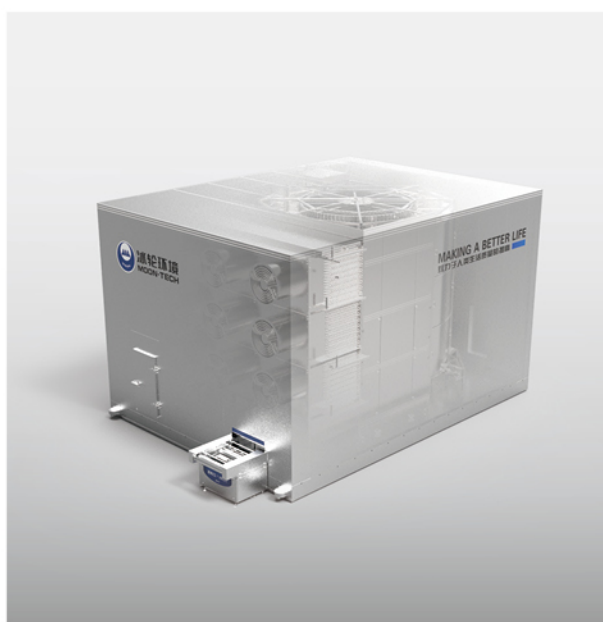
Double-spiral freezer

Model	LSS2012	LSD2516	LSD3014
Ingredients	Raw chicken thighs		
Weight	120±10g		
Inlet temperature	15°C		
Outlet temperature	-18°C		
Designed freezing temperature	-35°C		
Diameter of Rotary Cage	2000mm	2530mm	3000mm
Layers	12	16	14
Mesh belt width	650mm	710mm	1000mm
Standard production	1000kg/h	2000kg/h	3000kg/h
Capacity	31.8kW	48.8kW	64.8kW



Single-spiral freezer

Model	LSS2012	LSS2514	LSS3022
Ingredients	Raw chicken thighs		
Weight	120±10g		
Inlet temperature	15°C		
Outlet temperature	-18°C		
Designed freezing temperature	-35°C		
Diameter of Rotary Cage	2000mm	2530mm	3000mm
Layers	12	14	22
Mesh belt width	650mm	800mm	850mm
Standard production	500kg/h	1000kg/h	2000kg/h
Capacity	16.8kW	25.3kW	45.3kW



Note: Only a very small number of models extracted from the specification, the same output can be selected from different designs

Customers



Note: The above is only a selection of some of our customers.

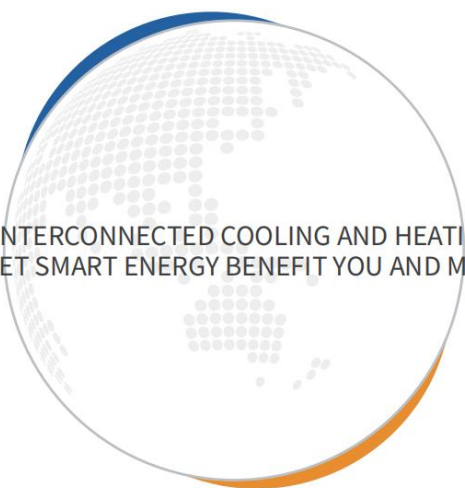
Customers



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BUILD AN INTERCONNECTED COOLING AND HEATING WORLD
LET SMART ENERGY BENEFIT YOU AND ME



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