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COLD STORAGE CBFI® PROJECT CATALOGUE

COMPANY PROFILE

Guangzhou Icesource Co., Ltd (trademarked as CBFI) is a comprehensive refrigeration equipment supplier that combines refrigeration system processes and quick-freezing food freezing process research and development as core technologies, along with the integration of artificial intelligence. Since its establishment in 2010, the company has focused on providing complete solutions for ice-making systems, quick-freezing equipment, and refrigeration and freezing equipment for corporate clients.

As a recipient of qualifications such as a national high-tech enterprise, a supplier of UN cold chain engineering equipment, and a specialized and innovative enterprise in Guangdong Province, we have accumulated extensive equipment and engineering experience, serving corporate clients in more than 170 countries and regions worldwide. Now, let's provide detailed introductions to our company's two main business sectors:

1. Introduction to Ice-Making Systems: Our main products include various types of complete ice-making systems, quick-freezing food equipment systems, and devices. The complete ice-making system includes fully automated edible ice factories, fully automated concrete supply ice stations with cold water systems, automated supply ice stations and low-temperature water systems for the slaughter industry, and fully automated chemical reaction vessel cooling supply ice stations, and more. Additionally, we also provide tube ice machines, flake ice machines, direct cooling block ice machines, block ice machines, cube ice machines, ball ice machines, plate ice machines, and pure ice machines, among others.



2. Introduction to Quick-Freezing Equipment:

The quick-freezing food equipment system consists of two parts: quick-freezing equipment and refrigeration systems. The quick-freezing equipment includes double spiral quick-freezers, single spiral quick-freezers, mesh belt quick-freezing tunnels, impingement mesh belt quick-freezing tunnels, plate chain quick-freezing tunnels, impingement plate chain quick-freezing tunnels, reciprocating mesh belt quick-freezing tunnels, reciprocating plate chain quick-freezing tunnels, fluidized quick-freezers, and brine quick-freezers. As for the refrigeration systems, we mainly offer options such as ammonia liquid overfeed systems, fluorine liquid overfeed systems, compound refrigeration systems, dry expansion direct cooling systems, and semi-liquid refrigeration systems.

We recommend selecting a refrigeration system based on the customer's cooling capacity requirements and the specific needs of the project. In addition, we provide a one-stop service that includes installation, commissioning, and after-sales support, avoiding the need for customers to separately find suppliers for quick-freezing equipment, refrigeration systems, and equipment installation.

Our products are widely applied in various industries including food, fisheries, retail, fruits and vegetables, aquaculture, chemical, medical, construction, and mining. They are used for cooling, storage, and preservation purposes.

As a professional refrigeration equipment supplier, Guangzhou Icesource Co., Ltd. always adheres to the business philosophy of "Customers Benefit From Icesource". We are committed to providing customers with high-quality products and excellent services. We look forward to working together with you to create a better future.

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COMPANY HONOR

★in December 2022, Obtaining the Certificate of Assessment of the Two Integration Management System

 \star In November 2022, the company was certified as a "specialized, special and new" small and medium-sized enterprise in Guangdong Province

★In 2021, passed the "Pressure Vessel Piping Manufacturing" special equipment qualification certification and "Industrial Pipeline Installation (GC2)" special equipment certification

★In December 2021, the company was certified as a "National High-tech Enterprise" for the sixth consecutive year; certificate number: GR202144015150

★In November 2021, the MD directive certificate and the PED directive certificate were obtained, and the product equipment entered the EU market smoothly;

★In 2021, won the "Five-Star After-sales Service Certification" again

★In June 2020, was elected as the "Vice President Unit of Guangdong Cold Chain Association"

★In 2019, passed the qualification review of the United Nations and became a registered supplier of the United Nations global market

★In 2018, it was rated as "National High-tech Enterprise" again; it was rated as "Excellent Enterprise in **Guangdong Province**"

★In 2017, listed as "Guangdong Ice Making Equipment Engineering Technology Research Center"

★In 2015, it was rated as a national "high-tech enterprise"

★ In 2010, the world's first large-scale fluorine-refrigerated ice block machine with a daily output of 100 tons was successfully operated in Malaysia;

★In 2010, strategic partner of edible ice suppliers for Guangzhou Asian Games and World Expo; ★ In 2008, a strategic partner of edible ice suppliers for the Beijing Olympic Games;



- ★In 2016, it was rated as a "Guangzhou Enterprise Research and Development Institution" enterprise

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Equipment Maintenance and Installation Certificate Level 2





Member of the China **Refrigeration Society**



Business licence

05-06

Customized cold storage construction solutions to suit project requirements

AND NOT

CUSTOMIZED PROFESSIONAL AND EFFICIENT COLD STORAGE PROJECT SOLUTIONS



EXCEPTIONAL **CUSTOMER EXPERIENCE**



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Adopt advanced BIM+GPS design management model Ensure accurate and rational pre-construction planning

PROFESSIONAL DESIGN

33

A team of technical experts and refrigeration engineers work together to create professional cold storage project solutions





Adopt scientific RSEPC management model and project-specific resident manager model, flight inspection system to check and control project quality



Engineers with various levels of professional qualifications to ensure stable and good operation of cold storage

CONSTRUCTION PROCESS



Producing a professional, standardised and safe overall design



One year free maintenance and 24-hour after-sales service Efficient and fast cold storage



owner, entry by the engineer, inventory of goods



Commission

Develop a detailed cooling plan **Commissioning temperature** according to plan Ensuring safe and stable cold storage operations

PRODUCTION

Self-developed core technology products, better coordination between equipment and equipment, equipment and accessories, higher operational efficiency and guaranteed outpu

STANDARD INSTALLATION

QUALITY **AFTER SALES**

Five-star certified after-sales service team responds quickly to after-sales service needs with global door-to-door service



and aesthetics

After passing the flaw detection, the Special Inspection Institute reviews the relevant piping system pressure and leakiness tests

installation, cold storage unit installation, evaporative cooling installation, etc



According to its working nature and usage, it can be divided into drainage pipes, heating pipes, ammonia or Freon pipes and oil pipelines, etc





MEAT SLAUGHTER COLD STORAGE

We supplied a complete set of refrigeration equipment for the slaughterhouse, including acid storage, quick-freeze storage, cold storage, deep processing plant cooling system, 10 tonne flake ice machine and workshop purification partition.















FOOD PROCESSING COLD STORAGE

The project has 8,000 cubic metres of low temperature food processing refrigerated workshop, the cold storage panels are all made of stainless steel, stainless steel chillers with full metal blades and water catching trays make the food safer, and the low temperature food processing workshop is built in accordance with GMP standards and Class C purification standards.



























LOGISTICS COLD STORAGE

Logistics cold storage is an important part of the cold chain in warehousing and logistics. Logistics cold storage requires higher turnover efficiency than general cold storage, and is more demanding in terms of frosting and energy saving.

Qingyuan 100,000 tonnes multi-storey logistics cold store

Located in Qingyuan City, Guangdong Province, the project is equipped with six high standard logistics warehouses and four cold chain storage buildings. An internal elevated trunk line through the storage area is also built in the park with a double layer of road surface to improve freight efficiency.









COLD CHAIN COLD STORAGE

The project adopts a centralized cooling and energy-saving industrial refrigeration system, which is divided into four subsystems:ultra-low temperature zone, freezing zone, temperature adjustment zone and closed platform. It is equipped with efficient oil distribution, adjustable volume ratio, complete supporting facilities, and safety protection devices.

an and 97		一氟制冷监控	2022/7/09	10:44:0
P2栋首层月台湖	温度 28.7 ℃	P3栋首层月台温	度 29.4 °C	冷链物流园
P2栋冷库101温度 2.2 ℃		P3栋首层分拣区温度 14.2 ℃	P3栋冷库201温度 5.3 ℃	库历史温度曲线
P2栋冷库201温度 8.9 °C	P2栋冷库202温度 12.0 ℃	P3栋首层急冻库温度 -1.3 ℃	-17.8 °C	库历史温度曲4 应压中温度曲4
P2栋冷库301温度 -0.7 ℃	P2栋冷库302温度 -0.4 ℃	P3栋冷库101温度 4.9 ℃	P3栋冷库301温度 7.7 °C	库历史温度曲4 历史报表
P2栋冷库401温度 0.3 ℃	P2株冷库402温度 0.5 ℃	P3栋冷库102温度 -17.4 ℃	P3栋冷库302温度 -18.3 °C	实时报表
P2栋冷库102-1温度 13.9 ℃	P2栋冷库102-2温度 12.8 ℃	1.5 °C		
51W AL	XXINA POPER	125日的小正的路径 125日的小正常商	(4) 法本務の完善用商用	













FRESH LOGISTICS COLD STORAGE

The project is constructed in two phases, equipped with 3 low-temperature storages, 1 variable-temperature storage, 3 sorting workshops and closed temperature control platforms around them.









FRESH DELIVERY **COLD STORAGE**

The project adopts a centralized cooling energy-saving industrial refrigeration system, which is divided into two subsystems, the pre-cooling room temperature zone and the freezing temperature zone, mature and customized system supporting equipment and real-time monitoring of multiple indicators, reducing human operations and improving safety.







AUTOMATIC THREE-DIMENSIONAL COLD STORAGE

Automatic three-dimensional cold storage is a new generation of cold storage using automatic control systems to achieve fully automated operation of the refrigeration system and the loading and unloading of goods system.

Tthe project adopts the industry's advanced WMS+WCS storage management system and leading temperature control and logistics technologies such as the Internet of Things to achieve intelligent visual management of the entire process, creating a cold chain food service platform that integrates storage, processing, display and trading around the low-temperature food industry chain.





DOUBLE SPIRAL FREEZER

The project is located in Zhuhai City, Guangdong Province. According to the production needs of customers, we provide one-stop refrigeration solutions for pre-cooling, quick-freezing and storage of fish processing, including double-screw quick-freezing machines and cold storage.

















DOUBLE SPIRAL FREEZER

The project is located in Tajikistan and is the largest white chicken processing base in the region. It covers an area of about 2.54 hectares (about 25,400 square meters). Complete technical solutions and refrigeration systems are provided by us. The slaughterhouse can quickly freeze 3,000 kilograms of white chickens in one hour. The project is equipped with the largest twin-screw quick-freezer in Tajikistan, which can reduce the temperature of the center of the chicken body to -18°C in 12 minutes, and the lowest temperature of the double-screw quick-freezer can reach -40°C.













Nissan 10 tons flake ice machine

Double spiral machine project (output: 3000kg/h white striped chicken)





Jiangmen freezing tunnel project (capacity: 400kg/h silver pomfret)









FREEZING TUNNEL

A fish processing plant in Jiangmen

The project is located in Jiangmen, Guangdong Province. We provide one-stop refrigeration solutions for fish processing pre-cooling, quick-freezing and storage, including tunnel quick-freezing and cold storage, according to the customer's production needs.



Vietnam Quick Frozen Tunnel Project

The project is located in Vietnam and the client is one of the largest processing and supply companies for the local fish and shrimp industry. In response to the client's requirements, the project is equipped with a large quick-freeze tunnel measuring $25m \times 3.1m \times 3.1m$, into which the central temperature of the fish and shrimps can be reduced to -5° C within 30 minutes, thus preserving quality and freshness.

BLAST FREEZER

The cold storage air cooler is mainly composed of 5 important components such as cooling heat exchange pipe, axial flow fan, liquid separator, frost holding device, and water receiving tray. The high-pressure and room-temperature liquid refrigerant from the condenser of the cold storage is throttled by the thermal expansion valve and directly enters the liquid separator of the cold storage fan for uniform liquid separation, and then is sent to the heat exchange pipe for gasification and heat absorption. The axial flow fan of the cold storage fan is responsible for the forced convection circulation of the cold storage fan and the air in the cold storage to achieve the purpose of cold storage refrigeration.



A poultry processing project in Tajikistan



Dongguan Wholesale Market Project



A meat slaughtering project in Jiangxi



A fish processing project in Zhuhai



A logistics cold chain project in Foshan

FRUIT AND VEGETABLE **COLD STORAGE**

Controlled atmosphere storage is the most advanced fresh-keeping storage method for fruits and vegetables. It is based on cold storage, adding gas composition adjustment, through the control of temperature, humidity, carbon dioxide, oxygen concentration and ethylene concentration in the storage environment, it inhibits the respiration of fruits and vegetables, delays their metabolic process, and better preserves fruits and vegetables. Improve the freshness and commerciality of fruits and vegetables, prolong the storage period and freshness of fruits and vegetables.







Air Conditioning Warehouse

The project is located in Luocheng, Guangxi. It is a government poverty alleviation project for the ex-situ poverty alleviation and relocation of the "thousand acres and thousands of households" red kiwifruit controlled-atmosphere storage in Luocheng Mulao Autonomous County.







SNOW ENTERTAINMENT SNOW RECREATION

Our company is a strategic partner of Guangzhou Leman Culture and Entertainment, and has carefully built Leman Ice and Snow Kingdom in Guangdong Jiangmen Wanda Plaza and Fujian Putian Hanlan Leman Ice and Snow World.

The large-scale refrigeration and heat preservation system designed and constructed by Guangzhou Icesource Co., Ltd.is the most important guarantee for this beautiful ice and snow world.









GMP FOOD & DRUG COLD STORAGE

Centers for Disease Control and Prevention—GMP Pharmaceutical Cold Storage.GMP pharmaceutical cold storage - Many hospitals and medical industries in South China purchase pharmaceutical cold storage in bulk from our company.Guangzhou Centers for Disease Control and Prevention purchased 15 sets of medical cold storage at one time, and each cold storage is equipped with an emergency power supply; Leizhou Health Bureau purchased 32 sets of supplementary cold storage at one time; Anbiping Pharmaceutical Technology Co., Ltd. purchased 13 sets of cold storage + buffer storage;





COMPANY WORKSHOP

Guangzhou Icesource Co., Ltd. has a modern production base of approximately 25,000m2, consisting of four production halls and three warehouses.

A workshop covering an area of approximately 6,000 m² for the welding and finishing of metal and frame structures;

A two-storey building covering an area of approximately 8,000m2 for the assembly of refrigeration unit systems, external wiring and commissioning of equipment, cleaning and packing of equipment and delivery for use;

The three wings occupy an area of approximately 5,000 m² and house the automated production lines for food processing and high end ice production;

A 3,000 m² R&D room for the creation and commissioning of new models;

The three warehouses cover a total area of 3,000m2 and are mainly used for the storage of equipment parts and finished products.







I Cold storage units

Small and medium-sized cold storage supporting equipment - intelligent cold storage source standardised fixed configuration equipment, stable quality. Avoid or reduce welding steps, easy installation. Can be connected to the Internet of Things and controlled remotely.



BITZER parallel compressor blocks



Hanbell parallel compressor sets





Wall Mounted Integrated Intelligent Cold Storage Source

York screw-type refrigeration compressor sets



Split Intelligent Cold Storage Sources



V-shaped universal box condensing units



Intelligent cloud screw units



MYCOM compressor units



COOPERATIVE CUSTOMERS

Transportation





Logistics Cold Storage





Aquaculture Processing





Medical Industry





University





Cooperation Meat





Ice and Snow Entertainment





Consuming Product Industry





Fresh Food Logistics





Frozen Foods





Cooked Food Industry





Pre Made Food Industry













