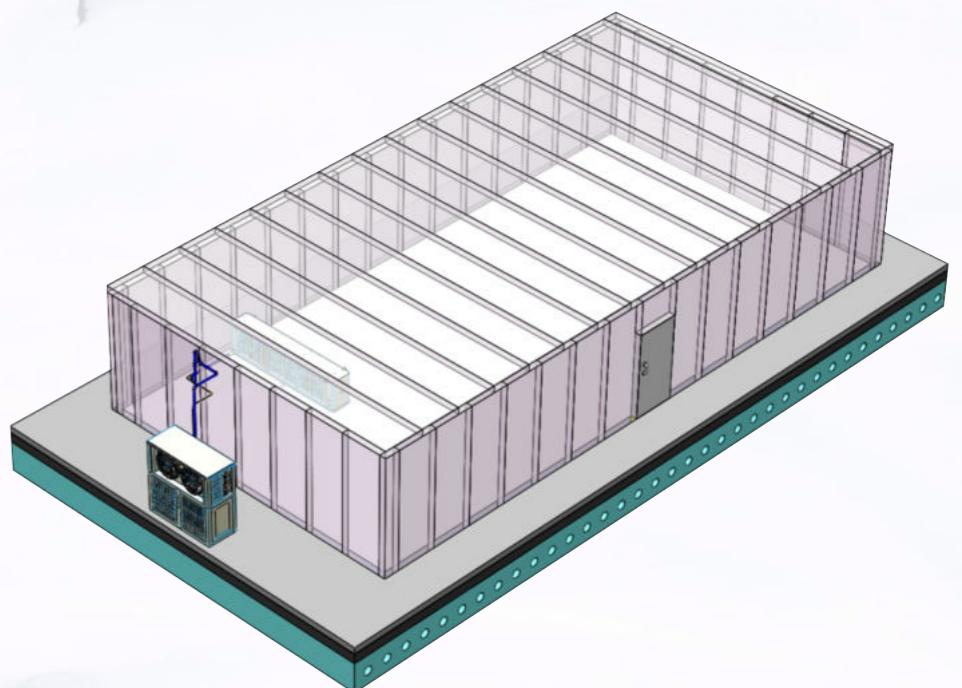




COLD ROOM BROCHURE

INTEGRATED COLD STORAGE SYSTEM SOLUTION
MANUFACTURER, SUPPLIER, AND
SERVICE PROVIDER



GUANGDONG ARTECO REFRIGERATION CO., LTD.

- +86 0757 8862 9197
- ✉ Marketing@artecomy.com
- 🌐 <https://www.artecomy.com>
- 📍 No. 56, Sanhe Road, Hecheng Street, Gaoming District, Foshan, Guangdong, China



MAKE PEOPLE AND THE ENVIRONMENT
ON EARTH MORE COMFORTABLE

TABLE OF CONTENTS

Company Culture	03
Company Overview	04
Company Manufacturing	05
Enterprise Expansion	07
Qualification & Certification	08
Technical Advantages	09
Main Product Types	13
Cold Chain System Solutions	18
Custom Cold Room Design	19
Condensing Units	21
Our Partners	22



COMPANY CULTURE



VISION OF ARTECO

MAKE PEOPLE AND THE ENVIRONMENT ON EARTH MORE COMFORTABLE



ARTECO VALUES

INNOVATIVE TECHNOLOGY ENPOWERS COLD CHAIN, CREATES PREMIUM LIFE



ARTECO OBJECTIVES

CUSTOMER SATISFACTION, EMPLOYEE INVOLVEMENT, LEARNING AND INNOVATION, CONTINUOUS IMPROVEMENT



Company Overview

ARTECO is a company dedicated to the research and development, manufacturing, design, and innovation of complete refrigeration equipment and energy-saving systems. We are a global leader in cold chain integration, providing comprehensive solutions, integration services, and supply chain support.

Driven by our 7 core refrigeration systems, we serve customers with an innovative spirit that has been cultivated over a century. Our business spans more than 100 countries worldwide.

The company can customize a complete set of cold storage equipment tailored to customer needs, including mobile cold storage, refrigerated containers, solar-powered cold rooms, and various other cold storage types.

ARTECO has a presence in major Chinese cities like Guangzhou, Shenzhen, Shanghai, Xi'an, and Zhengzhou, as well as international bases in Tokyo, Kuala Lumpur, and Riyadh, with a total of 10 offices across 9 countries.

Our strategic cooperations include well-known enterprises such as China Metallurgical Group, State Grid, China Construction, Gree, Huawei, ByteDance, Muyuan, New Hope, Yili, and Haier, among others.

We are associated with world-renowned brands like Panasonic, Bitzer, Emerson, and Frascold.



Cold Source Equipment Manufacturing

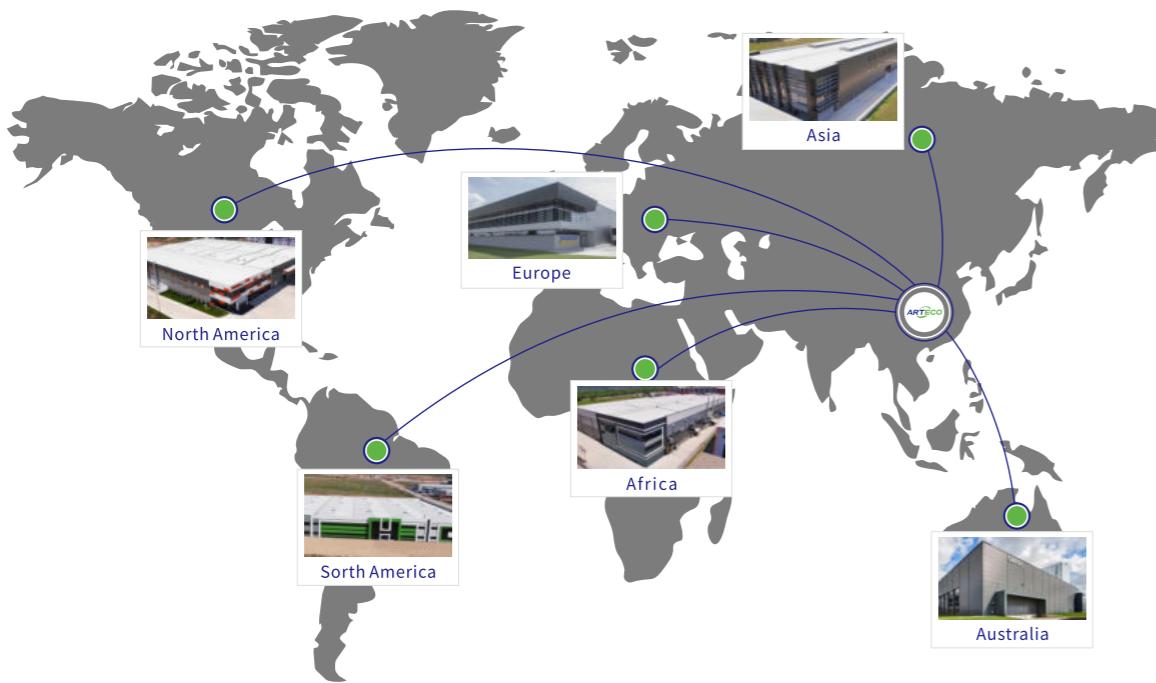
FOCUSED ON REFRIGERATION FOR MANY YEARS

Company Manufacturing



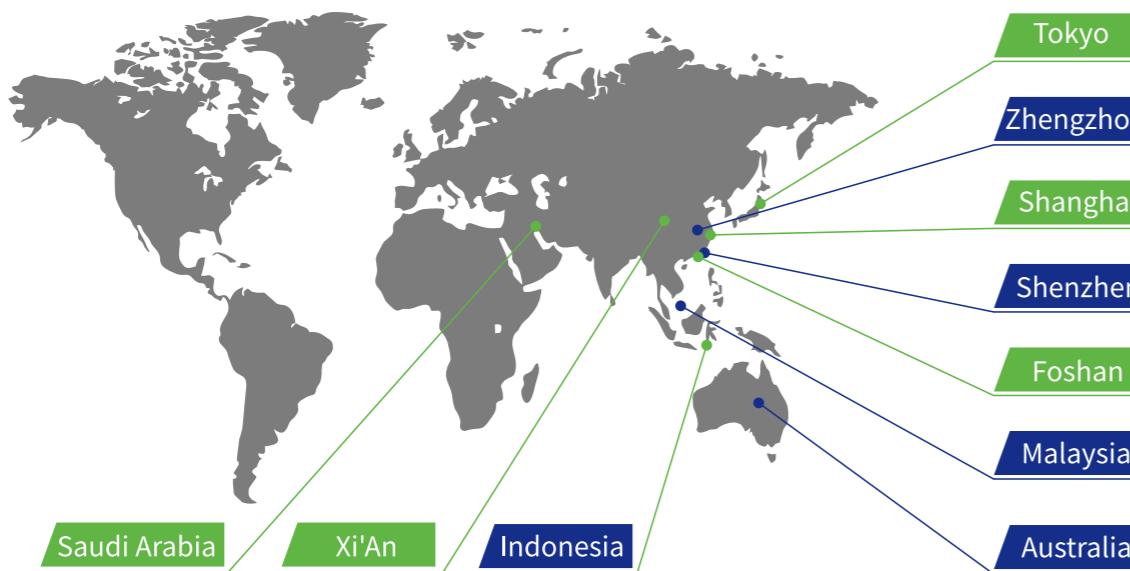
Spanning an impressive 150,000 square meters, our company boasts a state-of-the-art manufacturing facility covering 30,000 square meters. Equipped with over 500 advanced CNC machining and high-end testing equipment, our facility houses a comprehensive range of domestic cutting-edge technology. We specialize in the design, manufacturing, and processing of various cold storage panel materials. Our intelligent, data-driven, and modular production process for cold storage and refrigeration systems ensures efficient and timely product delivery. Additionally, we undertake OEM/ODM cold storage solution designs to cater to diverse customer requirements.

Enterprise Expansion



The company's business covers a number of modules in the cold chain, the main business involves: cold storage integration, unit chillers, super display cabinets, modular units and high and low temperature test chambers.

Production Base



Qualification & Certification

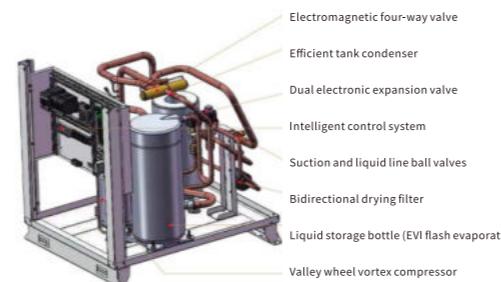


The company has obtained a number of cold storage patents and product copyrights and related industry honours, and has topped the list in the brand awareness selection.

Technical Advantages

Core Technology 1: Intelligent Integrated Design

Integrated Cold Source Design: The complete set design integrates built-in valves, various sensors, and functional modules, making the system design more stable.

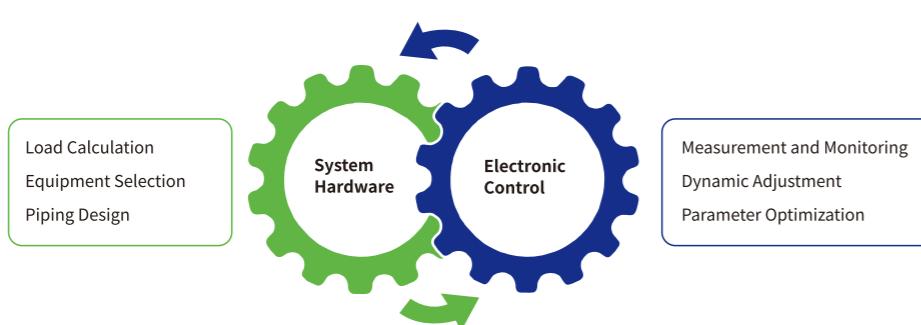


Small cold storage uses a 1.4-15HP fully enclosed scroll compressor for cooling, which is quieter, more environmentally friendly, and energy-efficient

Medium or large cold storage uses a 3-50HP semi enclosed piston compressor for refrigeration, which is more powerful, efficient, and has a stronger cooling effect



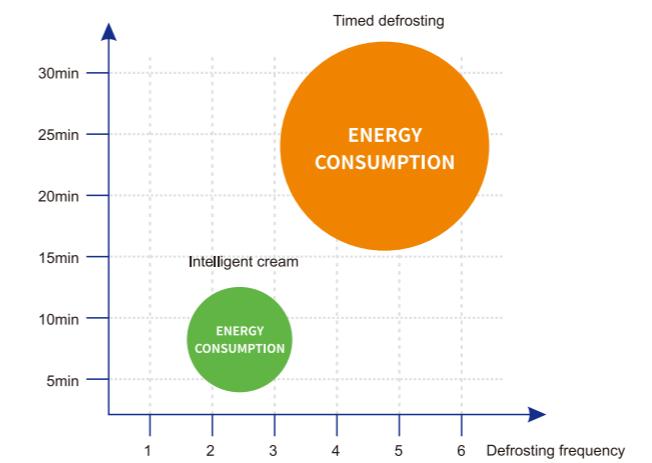
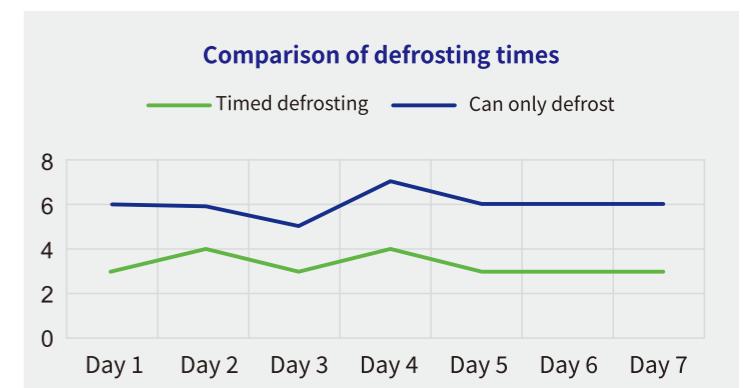
Deep Integration of Electronic Flexible Control and Hardware Design: While fully leveraging the performance of the hardware, it also meets various operating conditions.



Core Technology 2: Intelligent Frost Design



Traditional timed electric heating defrosting often results in untimely and uneven defrosting, leading to ice blockage in the fan, high operating noise, and increased cold storage energy consumption. Intelligent defrosting technology effectively addresses these issues.



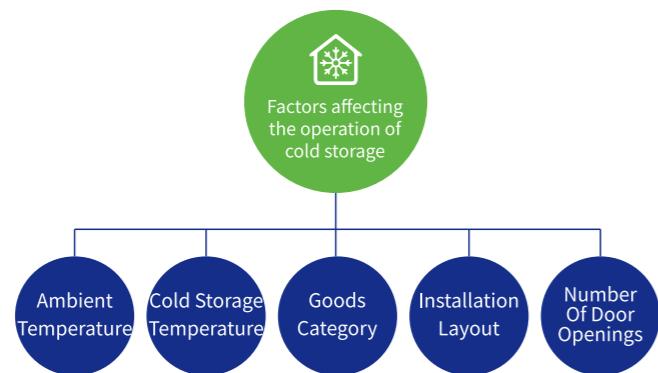
Compared to timed defrosting, intelligent defrosting reduces the number of defrosting cycles by 50%, the defrosting time by 70%, and overall defrosting energy consumption by 80%.

Technical Advantages

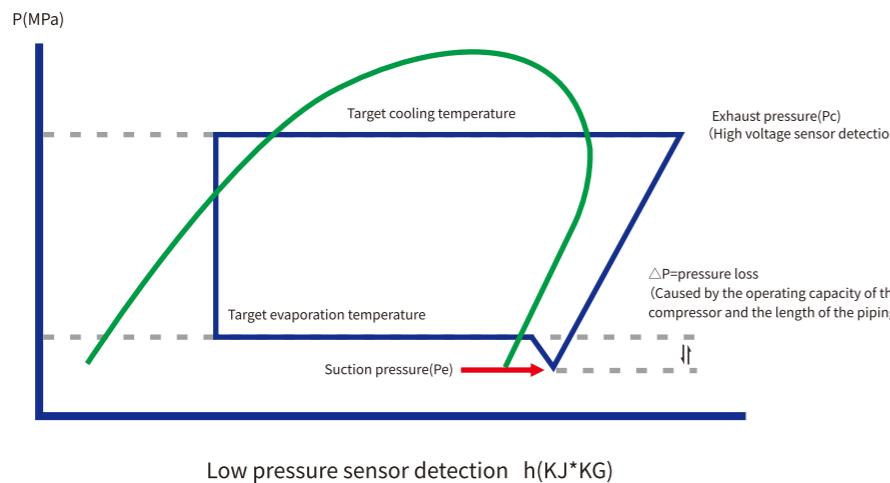
Core Technology 3: Adaptive Optimization Control Technology

Different system configurations, ambient temperatures, pipeline layouts, and usage habits in cold storage can significantly impact the operation of the cold storage. The adaptive optimization control technology is comprehensive and effective.

Real-time Monitoring: It continuously monitors the subtle changes in the operating status of the cold storage, making dynamic adjustments to keep the system running efficiently.

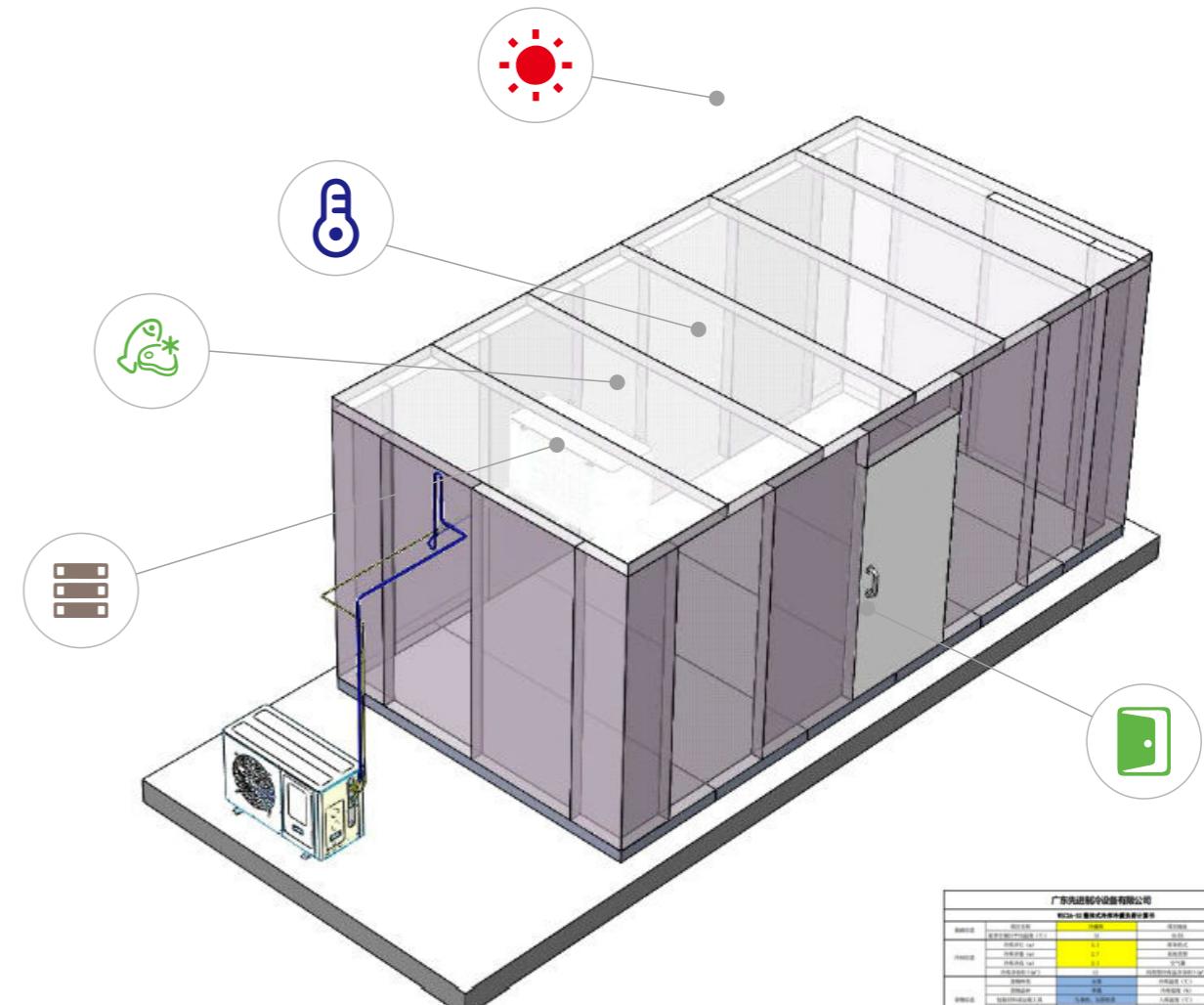


Real-time adjustments to system pressure, superheat, and subcooling ensure continuous positive feedback, leading to improved energy efficiency.



Core Technology 4: Scientific calculation of various environmental factors

The construction of an intelligent modular cold storage solution involves various factors that affect temperature efficiency, including the external ambient temperature of the cold storage, the types of frozen items inside the cold storage, the layout of the internal space of the cold storage, the performance of the compressor outside the cold storage, and the frequency of door opening and exit. Various factors are comprehensively considered to scientifically calculate and optimize the cold storage construction, achieving maximum power saving and environmental protection effects.



Scientific calculation of various environmental factors to determine the final result

广东先通制冷设备有限公司	
WZC20-01 智能模块化冷柜设计计算表	
参数名	参数值
1. 外部环境温度 (℃)	25
2. 内部环境温度 (℃)	-18
3. 压缩机额定功率 (W)	1000
4. 压缩机额定电流 (A)	10
5. 压缩机额定电压 (V)	220
6. 压缩机额定频率 (Hz)	50
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203. 压	

Main Product Types

Mobile Cold Room

This product offers the advantages of mobility, big data connectivity, and high energy efficiency. With its compact size, it is particularly suitable for placement and use in farms, plantations, breeding facilities, and factories.



Features:

Portable and mobile design, can be placed in farms, industrial areas, etc., and can be operational immediately upon delivery.

The perfect integration of overall cold room design, system design, and digital control ensures stable and efficient operation.

Energy-saving control with electronic expansion valve, saving 18% to 30% energy costs, equivalent to saving three months of electricity bills in a year.

Intelligent networking enables 24/7 monitoring, online fault diagnosis, and maintenance, enjoying professional and attentive service from ARTECO.



Ai Cold Cloud Automatic Optimization Electronic Throttling Automatic Speed Adjustment

Blast Freezer Cold Room

Suitable for small and medium-sized enterprises engaged in the production of various frozen foods such as dumplings, noodles, seafood, steaks, hot pot ingredients, as well as central kitchens, large-scale canteens, and food distribution companies.



Features:

Dedicated and efficient rapid cooling unit, achieving a temperature of -35°C in just 30 minutes, allowing for quick freezing within one hour.

Intelligent defrosting technology enables on-demand defrosting, ensuring 100% cooling capacity output, low energy consumption, and fast temperature reduction.

High-density insulation panels of 15cm thickness, with a thermal conductivity coefficient of <0.026W/M2K, capable of withstanding temperature differences of up to 70°C.

Smart networking enables 24/7 monitoring, online fault diagnosis, and maintenance, enjoying professional and attentive service from Arteco.



Ai Cold Cloud Intelligent Defrosting Automatic Optimization Electronic Throttling Automatic Speed Adjustment

Product Selection Table

Serial Number	Size (m)	Cargo Capacity (tons)	Voltage	Temperature Range (°C)
1	3*2*2.2	1-2	380V/220V	+10 ~ -18
2	4*2*2.5	2-3	380V/220V	+10 ~ -18
3	5.4*2.2*2.5	3-5	380V/220V	+10 ~ -18
4	Customized size	/	380V/220V	+10 ~ -18

Product Selection Table

Serial Number	Specifications (m)	Freezing Capacity (in terms of normal temperature water bags)	Voltage	Temperature Range (°C)
1	3*2*2.2	500ML*600,6H	380V/220V	-18 ~ -35
2	4*2*2.5	500ML*1000,8H	380V/220V	-18 ~ -35
3	5.4*2.2*2.5	500ML*1500,10H	380V/220V	-18 ~ -35
4	Customized size	On demand	380V/220V	-18 ~ -35

Main Product Types

Chain Restaurant Stainless Steel Cold Room

Specially designed for chain restaurants, star hotels, central kitchens, and similar establishments.



AI Cold Cloud



Intelligent Defrosting



Automatic Optimization



Electronic Throttling



Automatic Speed Adjustment

Container Cold Room / Lift-up Cold Room

Suitable for use in farms, construction sites, field locations, and similar environments.



AI Cold Cloud



Electronic Throttling



Intelligent Defrosting



Automatic Speed Adjustment



Automatic Optimization

Features

Standard 20ft/40ft container design, can be directly deployed in construction sites, farms, and other scenes.

Supports trailer transportation, can be unloaded using forklifts and cranes, convenient for mobility.

Can be placed outdoors, resistant to sun and rain, ready to use at any time.

Equipped with intelligent hot fluorine unit, electronic expansion valve control, and intelligent defrosting technology, achieving 30% energy savings.

Smart networking enables comprehensive monitoring of cold room temperature, energy consumption, door opening/closing, and other data, effectively monitoring cold room operations.

Optional cold storage board for cooling, meeting refrigeration temperature requirements during power outages and while in a mobile state.

Supports various customization options: dual-temperature zone cold room, blast freezer cold room, cold storage with cold storage board, and other customized requirements.

Features

Food-grade stainless steel material, compliant with NSF food-grade certification.

Integrated multiple energy-saving controls, including electronic expansion valve control, air velocity adjustment, and intelligent defrosting technology, resulting in energy savings of up to 30%.

Intelligent networking enables comprehensive monitoring of cold room temperature, energy consumption, door opening/closing, and other data, effectively monitoring cold room operations.

Smart defrosting and hot fluorine defrosting technologies prevent fan icing in the cold room, providing convenience and peace of mind. Regular maintenance reminders based on the refrigeration system conditions effectively enhance equipment lifespan.

Technical Specifications: Single Temperature and Dual Temperature

Size: Customizable according to requirements.

Temperature Range: -25°C to 10°C, customizable.

Cooling Speed: From ambient temperature to -25°C, empty room, within 30 minutes.

Rated Power: High-efficiency unit, 3-25P set.

Power Supply: 220V/380V, customizable.

Refrigerant: Environmentally friendly refrigerant R404A.

Product Selection Table

Container Size	Size (m)	Cargo Capacity (tons)	Voltage	Temperature Range (°C)
20FT	5.0*2.3*2.28	2.5	380V/220V	+10 ~ -18
20FT	5.0*2.3*2.28	2.5	380V/220V	+10 ~ -18
40HQ	11*2.3*2.55	6.6	380V/220V	+10 ~ -18
40HQ	11*2.3*2.55	8.5	380V/220V	+10 ~ -18
20/40	Customized size	/	380V/220V	+10 ~ -25

Main Product Types

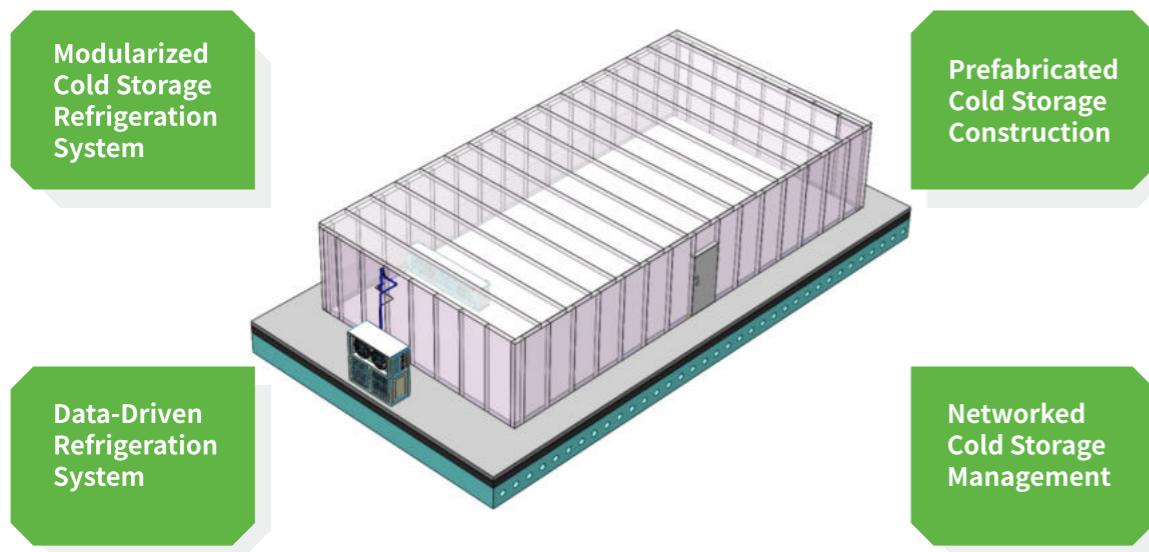
Modular Cold Room

Modular cold rooms offer flexible combinations and easy installation, allowing for the configuration of refrigeration units and control components according to user requirements. They can meet the personalized needs of various industries and users for temperature-controlled storage solutions.



Features:

- Standardization:** Modular assembly with standardized components for quick and convenient installation.
- Excellent Insulation:** High-quality steel panels with superior insulation properties, suitable for various applications.
- Customizable:** Flexibility to create different storage configurations based on specific requirements.
- Safety Design:** Easy identification of exits and optional safety emergency systems for added security.



Cold Chain System Solutions



Cold Chain Modular Refrigerated Warehouse



Custom Cold Room Design

Based on ARTECO's extensive experience in cold room research, development, production, and large-scale delivery, ARTECO provides professional custom cold room services to customers, including technical consultancy, cold room design, equipment manufacturing, and production installation guidance. We accurately understand customer requirements and provide reliable and cost-effective cold room construction solutions to meet their needs.



Cold Chain Logistics Park Cold Storage



Cold Storage For Meat Slaughtering And Processing



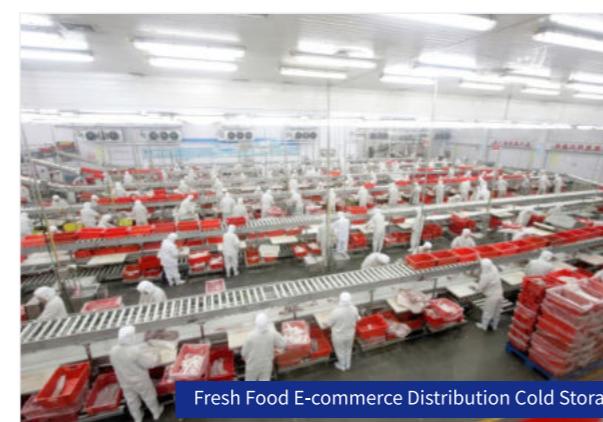
Large-scale Agricultural Market Fruit Preservation Warehouse



Modernised Farming Cold Storage For Agricultural Products



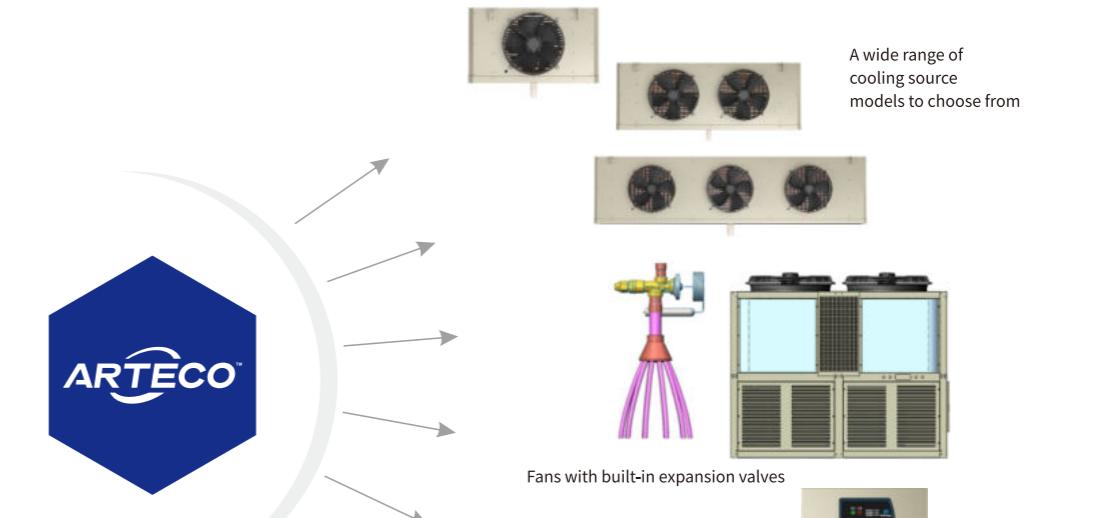
Cold Storage For The Production And Processing Of Prepared Vegetables



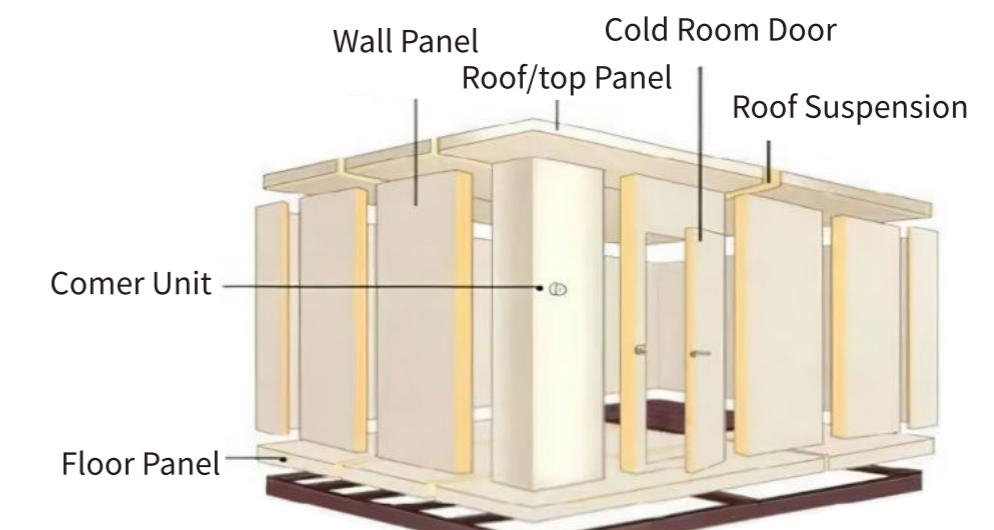
Fresh Food E-commerce Distribution Cold Storage

Refrigeration Equipment Selection

ARTECO offers a wide range of refrigeration equipment for different applications, including condensing units for various sizes of cold rooms. They are known for their expertise in customization and integration, providing reliable and high-quality solutions.



Combined Cold Storage



Condensing Units



BS Series Box-Type Condensing Unit



Air Cooler Series



BV Series Box-Type Condensing Unit



CP Series Semi-Hermetic Piston Compressor Water-Cooled Condensing Unit



Semi-Hermetic Piston Compressor Air-Cooled Condensing Units



Large Air-Cooled Condenser

Our Partners

Global Customers



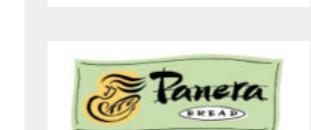
McDonald's



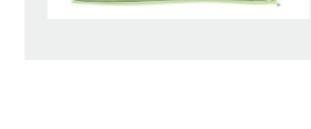
Chick-fil-A



Panda Express



Panera



Pão de Açúcar



WAL-MART



Woolworths



Carrefour



Panera



MaEr Fan Motor



Yum!



ANHEUSER BUSCH



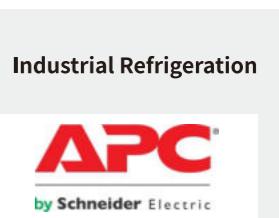
OMADA



RiM



ZIEHL-ABEGG



APC



UNITY PRIMA



ZIEHL-ABEGG

Customer Base in China

