

INDUSTRIAL REFRIGERATION SYSTEM SOLUTION



Company Profile



Moon Environment Technology Co., Ltd. (MOON-TECH for short, previous name is YANTAI MOON CO LTD.) founded in 1956, is a diversified and international comprehensive equipment industry group enterprise.

MOON-TECH's refrigeration equipment and products have been exported to Southeast Asia since the early 1990s. The first sales office was set up in Thailand in 1998, and now two subsidiaries have been established in Vietnam and Indonesia, with 22 marketing agencies in 20 countries.



With advanced product development, rich industrial experience, reliable design and construction capabilities, and perfect after-sales and technical services in seafood, meat, and cold chain logistics industries, MOON-TECH has become a reliable partner to help global customers grow their business.

SALES NETWORK OVERSEAS



Latin America Region

1. Chile
2. Argentina
3. Peru
4. Ecuador

Africa Region

1. Egypt
2. Mauritania
3. Kenya
4. South Africa

Middle East Region

1. Saudi Arabia
2. Oman / Iran

Russian Region

1. Moscow, Russia
2. Vladivostok, Russia
3. Uzbekistan

Asia Region

1. Indonesia
2. Thailand
3. Malaysia
4. Vietnam
5. Philippines
6. Myanmar
7. India
8. Taiwan

Industry & Field



Refrigeration Solution



Central Air Conditioning



Eco-friendly Heating Solution



Energy and Chemical Equipment



Precision Casting



Digital Intelligence Service



Hydrogen Energy Equipment



New Business

Refrigeration System Solution



CO₂ Refrigeration System

CO₂ Refrigeration Technology

CO₂ Cascade System

Low temperature stage CO₂ direct cooling, evaporating temperature down to -50°C, low operating pressure; High system COP, low operating cost; Suitable for IQF, ABF refrigeration system; High-temperature stage refrigerant charge is less, limited to be used in the machine room, safe and environmental protection.

CO₂ Indirect Refrigeration System

CO₂ direct cooling, low operating pressure; CO₂ side of the system oil-free operation, high energy efficiency of heat transfer; Suitable for refrigeration, freezing, chilling and fresh systems; compared with the cascade system, lower investment costs.



Ammonia Less-Charging System

The system takes GMCW-NHs Less-charging ice water unit as the core, using a MOON-TECH patented line with an efficient ammonia semi-hermetic screw compressor with permanent magnet variable frequency; Equipped with a U-turn+ plate heat exchanger with microgravity supply, it has high heat exchange efficiency and low liquid storage capacity;

The oil separator, oil cooler, and condenser are integrated into a compact structure with a small unit that integrates the cooling water system and is fully automated;

With a COP of 5.06 (0.5°C outlet water), the ammonia charge is less than 40g/kW and the lubricating oil charge is less than 15kg.



Thermal Energy Comprehensive Utilization System

The MOON-TECH thermal energy system is based on low-temperature heat sources such as refrigeration system condensing heat sources, environmental heat sources, or polluted waste heat sources. It uses single-stage or multi-stage heat pumps to convert low-grade thermal energy into high-grade thermal energy and put it into production and life, such as domestic hot water, CIP cleaning, disinfection, blanching, etc. It can meet the low-carbon, energy-saving, and economically efficient cold and heat comprehensive utilization system with different cold and heat demands.



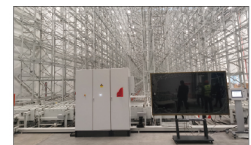
Smart Energy Efficiency Management System

MOON Digital Technology is committed to improving the overall energy utilization efficiency for users, providing a one-stop energy management digital solution, helping customers explore the path of comprehensive energy utilization, and enhancing energy-saving space. We fully empower enterprises to build a smart energy efficiency management system, to lay a foundation for low-carbon operation and help commercial complexes save energy and reduce costs.



Production Line Logistics and AS/RS

AS/RS and related products have been researched, developed, and promoted to provide comprehensive services for numerous domestic and foreign enterprises. These systems can achieve various functions such as automatic loading and unloading of goods, automatic storage, and automatic operation management.



Industry Field



Product Showcase



Compressor Unit

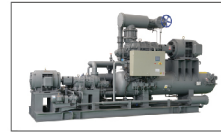
MOON-TECH



Single-Stage Screw Refrigeration Compressor Unit



Compound Two-Stage Screw Refrigeration Compressor Unit



Skid-Mounted Separate Two-Stage Screw Compressor Unit



Semi-Hermetic Screw Refrigeration Compressor Unit



Semi-Hermetic Screw Parallel Unit



NH₃ / CO₂ Skid-Mounted Cascade Refrigeration Unit



Screw Chiller



Marine Screw Refrigeration Compressor Unit

Heat Pump Unit

MOON-TECH



Screw High-Temperature Heat Pump Unit



Centrifugal High-Temperature Heat Pump Unit



Water Vapor Co-Produced Heat Pump Unit



Water Vapor Booster Unit

Auxiliary Equipment

MOON-TECH



Evaporative Condenser



Air Cooler



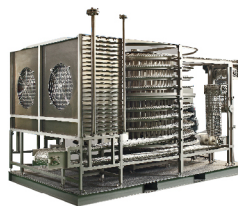
Pressure Vessel



Complete Set of Fruit and Vegetable Pre-cooling

The Full Range of Freezing Equipment

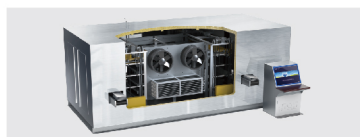
MOON-TECH



Spiral IQF



Tunnel IQF



IFST Carton Freezer



Fluidized Bed Freezer



Self-Stacking Spiral Freezer

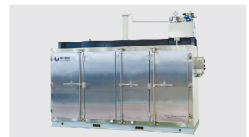


Plate Freezer

Innovative Product

MOON-TECH



Re-Chiller



AIST-CO₂ Cascade System Skid-Mounted Unit



Food Freeze Dryer



Liquid Ice Online Pumping Unit

Project Case



**Seafood Processing
China**



**Seafood Processing
Chile**



**Seafood Processing
Indonesia**



**Shrimp Freezing
Ecuador**



**Seafood Processing
Peru**



**Seafood Processing
Vietnam**



**Pork Processing
China**



**Poultry Processing
China**



**Cold Chain Logistics
China**



**Poultry Processing
Indonesia**



**Poultry Processing
Singapore**



**Poultry Processing
Malaysia**



**Cold Chain Logistics
Indonesia**



**AS/RS Storage System
China**



**UN Cold Chain Logistics
Dr Congo**



**Cold Chain Logistics
China**



**Dairy
Thailand**



**Pet Food Freeze Drying
China**



冰轮环境技术股份有限公司
Moon Environment Technology Co., Ltd.

BEYOND JUST TEMPERATURE

让温度更有温度



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本宣传册所设计数据，均截止至2023年材料统计日，如有变动恕不另行通知。

MOON-SYLD-ZY1.0-202302

