



冰轮环境
MOON-TECH

INTELLIGENT · GREEN ENERGY · ECOLOGY

INTELLIGENT GREEN ENERGY ECOLOGY

CO₂ REFRIGERATION SYSTEM SOLUTION



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



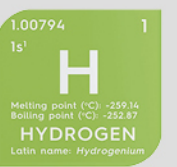
Environmentally friendly heating



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.





A Research & Development Background



Since 2005, in order to deal with the problems of atmospheric ozone layer destruction, greenhouse effect and refrigeration system safety, MOON-TECH has taken the lead in the application and development of the natural refrigerant CO₂ in China, and has successively completed the design, test and demonstration of NH₃/CO₂ screw cascade refrigeration system and NH₃/CO₂ screw secondary refrigerant system, the design, selection and demonstration of the key equipment and core technology: such as the material used in the CO₂ system, CO₂ screw compressor, NH₃/CO₂ condensing evaporator, CO₂ liquid supply mode, CO₂ refrigeration oil, CO₂ system pressure and automatic control system of CO₂ system have been scientifically designed, selected, tested, demonstrated and improved, forming a complete set of theoretical system for CO₂ refrigeration system. In 2008, it passed the scientific and technological achievements appraisal of Shandong Province and won first prize of scientific and technological progress of Shandong Province, the special award of scientific and technological progress of Chinese Association of Refrigeration and other awards successively. And because of its outstanding contribution to the global environmental protection, MOON-TECH was rewarded by the United Nations.

MOON-TECH's research and development on the CO₂ refrigeration system technology was supported by the United Nations Multilateral Fund, and it has undertaken and completed two demonstration projects- "NH₃/CO₂ cascade refrigeration system to replace HCFC-22" and the "NH₃/CO₂ secondary refrigerant system to replace R22 screw single-stage refrigeration system ". In 2009, MOON-TECH completed the construction of the first set of large-scale NH₃/CO₂ commercial refrigeration system in China. Its stable operation and excellent safety, energy saving, and environmental protection effects have been highly praised by customers and domestic counterparts. With the continuous promotion of MOON-TECH, now the CO₂ refrigeration system technology is widely used in meat slaughtering, aquatic processing, beer and beverages, prepared food, fruit and vegetable processing, dairy products and cold drinks, industrial ice making, cold chain logistics, winter sports venues and other fields. The large-scale industrial application of CO₂ refrigeration technology in the industrial and commercial refrigeration industry has achieved significant economic and environmental benefits.



Therefore, among the refrigeration systems with the evaporation temperature ranging from -52°C to 0°C , the NH_3/CO_2 system is the best refrigeration solution from now on or in the long run.

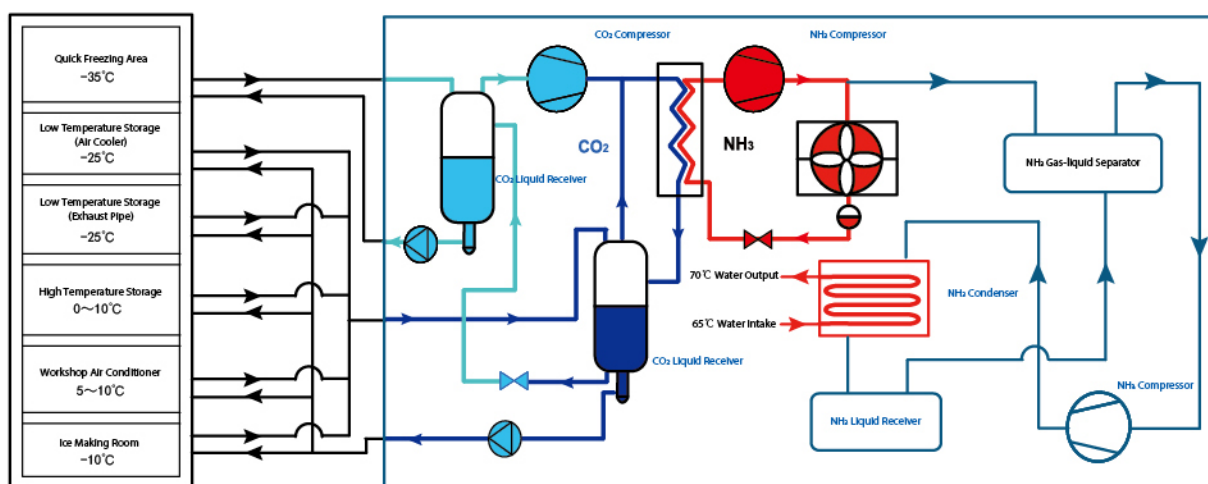


Figure I: Application Scope of NH_3/CO_2 Refrigeration System



At present, CO_2 refrigeration system technology is widely used in meat slaughtering, aquatic processing, beer and beverage, prepared food, fruit and vegetable processing, dairy products and cold drinks, industrial ice making, cold chain logistics, winter sports venues, chemical process cooling and other fields.



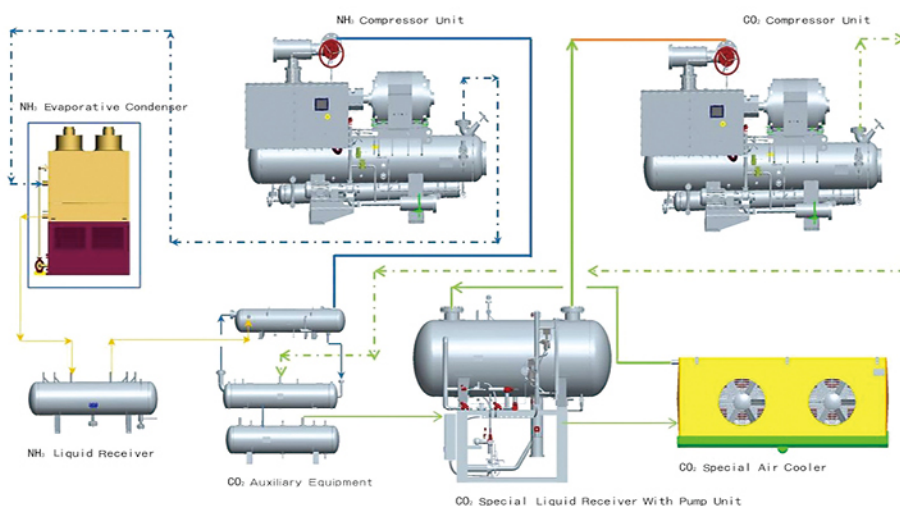
B Applications of CO₂ Refrigeration System

Main features

 Safe NH₃ in the high temperature part only, extremely small charging volume of NH₃; CO₂ is safe, nontoxic and noninflammable, thus ensuring the safety of people and foods.	 Eco-Friendly Both NH₃ and CO₂ are natural refrigerant. NH₃: ODP=0, GWP=0; CO₂: ODP=0, GWP=1	 Energy Saving NH₃ is the refrigerant with the highest efficiency; CO₂ has good heat transfer and fluid characteristics and excellent performance at low temperature.
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System Type

● NH₃/CO₂ Cascade System



NH₃/CO₂ cascade refrigeration system applicable to -52°C ~ -25°C evaporation temperature range



C Product Display

C1	CO ₂ Screw Refrigeration Compressor Unit	06
C2	Condenser-Evaporator	10
C3	CO ₂ Liquid Receiver	12
C4	CO ₂ Gas Liquid Separator	13
C5	CO ₂ Secondary Refrigerant Modular Unit	14
C6	CO ₂ Cascade Modular Unit	15
C7	AIST CO ₂ Modular System	17
C8	CO ₂ Air Cooler	21
C9	Plate Freezer	22
C10	CO ₂ Tunnel Quick Freezer	23
C11	CO ₂ Fluidized Quick Freezer	26
C12	CO ₂ Spiral Quick Freezer	27
C13	CO ₂ Flake Ice Machine	28

Product Display

C1 CO₂ Screw Refrigeration Compressor Unit

CO₂ Open-Type Screw Refrigeration Compressor



CO₂ Semi-Hermetic Screw Refrigeration Compressor



Automatic Control Console



Features of CO₂ Screw Refrigeration Compressor Unit

- Using CO₂, safe and environmentally friendly.
- Adoption of the fourth generation internationally most advanced bilateral asymmetric full-arc envelope profile which is characterized by numerical control grinding with high precision.
- The compressor with new-type cast iron materials resistant to low temperature realizes reliable performances under low temperature working conditions.
- Adoption of the high precision bearings of Japan NSK Company leads to long service life.
- Adoption of British JohnCrane shaft seals and the independent oil feeding cooling system make the sealing system more reliable.
- The precision of components is high resulting in low running noise, little vibration and long service life of the compressor.
- The efficiency of the oil separator is high and its oil separation efficiency reaches 99.999%.
- High efficiency oil cooler has high heat exchange efficiency and small volume.
- Combination of forced oil feeding with differential oil feeding is for lubrication; the oil way is controlled by a constant pressure valve to make oil pressure stable and reliable.
- Simple and clean unit pipeline, small pipeline loss, simple and convenient operation.
- An independent suction filter structure is adopted, thus facilitating thermal insulation in the low temperature area, having no influence on the castings in the high temperature area of the unit body and ensuring the compressor normal work.
- Direct connection with laminated joint slack, good automatic centering capability, long service life.
- Perfect safety protection: low differential pressure protection of the suction filter, ultra-high discharge pressure protection, over-low oil pressure difference protection, over-high oil temperature protection, etc.

Product Display

C1 CO₂ Screw Refrigeration Compressor Unit



The compressor can be equipped with Semi-hermetic type according to the actual use.



There are a variety of configurations to meet the user needs.



Standard configuration control mode is automatic

Applicable Conditions

Item	
Refrigerant	R744
Discharge Pressure (MPa)	≤4.0
Corresponding Saturation Temperature (°C)	5
Suction Pressure (MPa)	0.45~1.58
Corresponding Saturation Temperature (°C)	-55~-25
Oil Pressure (MPa)	0.1~0.3MPa Higher Than Discharge Pressure
Oil Temperature (°C)	30~65
Power Supply	3N 50HZ 380V
Frequency	25~60HZ(Excluding 12R II /16R II)

Note: If it is out of the conditions above, please contact MOON-TECH for non-standard order. The frequency of 12R II /16R II is 25 ~ 75HZ.

Unit Model

×× ×× R Y A ×

Endnote: represents the serial number of product improvement design, which is indicated by Roman numerals.

Control Mode: A means automatic

Oil Cooling Type: Y means liquid cooling

Natural working medium

Nominal Rotor Diameter: expressed in Arabic numerals in cm

Product Classification Name Code: BF means semi-hermetic screw, LG means open-type screw

Product Display

C1

CO₂ Screw Refrigeration
Compressor Unit
Main Technical Parameters Table of Open-Type CO₂ Compressor Unit

Item			Unit	LG12R	LG 16R	LG 20R
Refrigerant			Type	R744		
Theoretical Displacement of Compressor			m³/h	152.4	300	600
Energy Adjustment Range				15 ~ 100		
Nominal Working Conditions			°C	-40/-12		
Unit Refrigerating Capacity			kW	240	476	958
Motor Rated Power			kW	75	132	250
Oil Pump Motor Power			kW	2.2	3 or 4*	4
Electrical System				3N 50HZ 380V		
Rated Rotation Speed			r/min	2960		
Motor Rotation Direction				Clockwise (Looking from Motor Shaft Side)		
Refrigeration Oil		Model		M-K4001B		
		Standard		Q/YB00J08.21.1 “Refrigerator Oil”		
		Charging Volume	L	~ 120	~ 250	~ 500
Suction Pipe Diameter			mm	DN65	DN100	DN150
Discharge Pipe Diameter			mm	DN50	DN80	DN100
Oil Cooler	Refrigerant	Type	Shell and Tube Type			
		Liquid Inlet Pipe Diameter	mm	DN25	DN40	DN50
		Discharge Pipe Diameter	mm	DN40	DN65	DN80
Dimensions (L*W*H)			mm	2540*1280*1700	3070*1570*2150	4630*2090*3200
Unit Weight			kg	~ 2200	~ 3000	~ 8000
Unit Operating Weight			kg	~ 2400	~ 3300	~ 9000

Note: * Refers To Oil Pump Motor Power Under Defrosting Conditions.

C1 CO₂ Screw Refrigeration Compressor Unit

Main Technical Parameter Table of Semi-Hermetic CO₂ Compressor Unit

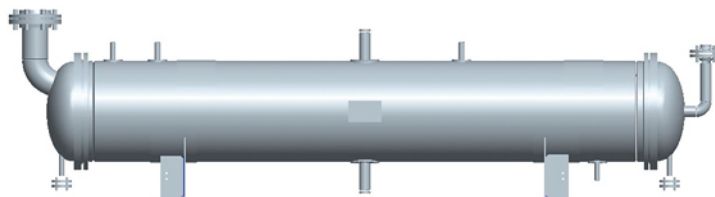
Item			Unit	BF12R	BF 12R II	BF 16R	BF 16R II
Refrigerant				R744			
Theoretical Displacement of Compressor			m³/h	152.4	220*	300	450*
Energy Adjustment Range				15 ~ 100			
Nominal Working Conditions			°C	-40/-12			
Unit Refrigerating Capacity			kW	240	347	476	711
Motor Rated Power			kW	90	110	160	220
Oil Pump Motor Power			kW	4.5			
Electrical System				3N 50HZ 380V			
Rated Rotation Speed			r/min	2960	4440*	2960	4440*
Motor Rotation Direction				Clockwise (Looking From Motor Shaft Side)			
Refrigeration Oil		Model		M-K4001B			
		Standard		Q/YB00J08.21.1 "Refrigeration Oil"			
		Charging Volume	L	~ 120	~ 250	~ 250	~ 450
Suction Pipe Diameter			mm	DN65	DN65	DN100	DN100
Discharge Pipe Diameter			mm	DN50	DN50	DN80	DN80
Oil Cooler	Refrigerant	Type	Shell-Tube				
		Liquid Inlet Pipe Diameter	mm	DN25	DN25	DN25	DN40
		Discharge Pipe Diameter	mm	DN40	DN40	DN40	DN65
Dimensions (L*W*H)			mm	2540*1280*1700	3070*1570*1950	3070*1570*2150	4600*2070*3000
Unit Weight			kg	~ 2200	~ 2700	~ 3000	~ 7000
Unit Operating Weight			kg	~ 2400	~ 3000	~ 3300	~ 8000

Note: * refers to the displacement and rotation speed of the compressor when the frequency is increased to 75HZ.

Product Display

C2 Condenser-Evaporator

The condenser-evaporator is both the evaporator of the NH_3 side and the condenser of the CO_2 side in the NH_3/CO_2 cascade refrigeration system, where ammonia liquid absorbs heat when evaporating on the tube pass and CO_2 gas is condensed into liquid on the shell pass.



The condenser-evaporator uses specially machined high-efficiency heat exchange tubes; the materials of tube plates, flanges and barrels use special pressure vessel steel plates resistant to low temperature and high pressure; special welding and flaw detection technologies are adopted and strict pressure test regulations have been worked out, thus ensuring both high-efficiency heat transfer performance of equipment and the requirements of airtightness and strength of equipment during use.

Table of Technical Characteristics

Technical Characteristics of the Condensing Evaporator(For the Cascade System)			
Design Pressure	Shell Pass	MPa	3.9
	Tube Pass	MPa	1.4
Design Temperature	Shell Pass	°C	-20 (≥-20°C) /-40 (< -20°C)
	Tube Pass	°C	38
Air Pressure Test	Shell Pass	MPa	4.29
	Tube Pass	MPa	1.54
Refrigerant	Shell Pass		R744
	Tube Pass		R717

Technical Characteristics of The Condensing Evaporator(For the Secondary Refrigerant System)			
Design Pressure	Shell Pass	MPa	5.0 (≥-20°C) /3.9 (< -20°C)
	Tube Pass	MPa	1.4
Design Temperature	Shell Pass	°C	-20 (≥-20°C) /-40 (< -20°C)
	Tube Pass	°C	38
Air Pressure Test	Shell Pass	MPa	5.5 (≥-20°C) /4.29 (< -20°C)
	Tube Pass	MPa	1.54
Refrigerant	Shell Pass		R744
	Tube Pass		R717

Product Display

C2 Condenser-Evaporator

Performance Parameters

Performance Parameters of the Condensing Evaporator(For the Cascade System)							
Model	LZH50	LZH90	LZH140	LZH190	LZH250	LZH280	LZH380
Heat Exchange Temperature Difference (°C)	5						
Heat Load Under the Designed Working Conditions (kW)	350	700	1050	1400	1850	2100	2800
Nominal Heat Exchange Area (m ²)	50	90	140	190	250	280	380
Weight (kg)	1350	2200	3250	4300	5650	6280	8500

Performance Parameters of the Condensing Evaporator(For the Secondary Refrigerant System)							
Model	LZH50	LZH90	LZH140	LZH190	LZH250	LZH280	LZH380
Heat Exchange Temperature Difference (°C)	5						
Heat Load Under the Designed Working Conditions (kW)	250	450	700	950	1250	1400	1900
Nominal Heat Exchange Area (m ²)	50	90	140	190	250	280	380
Weight (kg)	1350	2200	3250	4300	5650	6280	8500

Note: The heat exchange temperature difference refers to the difference between the CO₂ condensing temperature and the NH₃ evaporating temperature; the above are the performance parameters of CO₂ condensation at -15 °C .



Product Display

C3 CO₂ Liquid Receiver

The CO₂ series liquid receiver is used to store CO₂ liquid and to regulate and stabilize circulation volume.

The materials of the CO₂ liquid receiver use special pressure vessel steel plates resistant to low temperature and high pressure; special welding and flaw detection technologies are adopted and strict pressure test regulations have been worked out, thus ensuring the requirements of airtightness and strength of equipment during use.

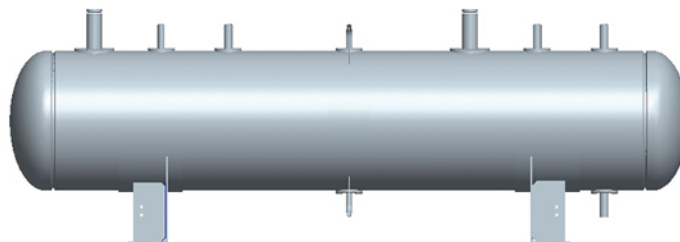


Table of Technical Characteristics

Table of Technical Characteristics of the CO ₂ Liquid Receiver (For the Cascade System)		
Design Pressure	MPa	3.9
Design Temperature	°C	-40/-20
Air Test Pressure	MPa	4.29
Refrigerant	R744	

Table of Technical Characteristics of the CO ₂ Liquid Receiver (For the Secondary Refrigerant System)		
Design Pressure	MPa	5.0 (≥-20°C) / 3.9 (< -20°C)
Design Temperature	°C	-20 (≥-20°C) / -40 (< -20°C)
Air Test Pressure	MPa	5.5 (≥-20°C) / 4.29 (< -20°C)
Refrigerant	R744	

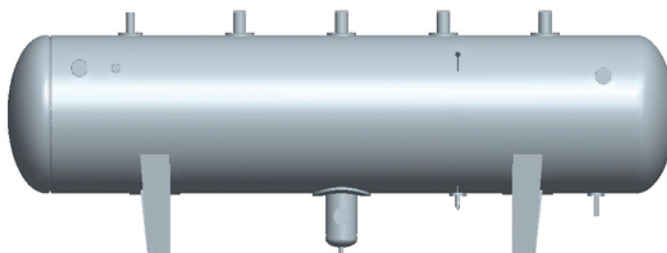
Performance Parameters

Model	ZY2.5	ZY4	ZY5	ZY8	ZY10	ZY15
Nominal Volume (m ³)	2.5	4	5	8	10	15
Weight (kg)	1410	2000	2310	3450	4350	6700

Product Display

C4 CO₂ Gas-Liquid Separator

The CO₂ series gas-liquid separator is used to separate the liquid drops in CO₂ gas out of the evaporator in the CO₂ compression refrigeration system for the purpose of avoiding wet stroke of the compressor. That is, CO₂ series gas-liquid separator is used to stabilize liquid level during pump running, to store the return liquid in the end equipment and piping during pump stoppage and, together with the liquid receiver, to recover all CO₂ liquid in the system during shutdown. The top of the gas-liquid separator is provided with an auxiliary evaporator and can effectively prevent ultra-high CO₂ pressure after shutdown.



The CO₂ gas-liquid separator is made of special steel plate for pressure vessel with low temperature and high pressure resistance, with special welding and flaw detection technology adopted. At the same time, strict pressure test regulations are formulated to ensure the conformity of air tightness and strength requirements of the equipment in use.

Table of Technical Characteristics

Technical Characteristics of the CO ₂ Gas-Liquid Separator(For the Cascade System)		
Design Pressure	MPa	3.9
Design Temperature	°C	-40
Air Test Pressure	MPa	4.29
Refrigerant	R744	

Performance Parameters

Performance Parameters of the CO ₂ Gas-Liquid Separator(For the Cascade System)					
Model	QFW1000	QFW1100	QFW1300	QFW1400	QFW1600
Nominal Volume (m ³)	3.4	5.1	7.3	9.3	14.2
Weight (kg)	1750	2650	3550	4500	6750

Product Display

C5 CO₂ Secondary Refrigerant Modular Unit

The CO₂ secondary refrigerant modular unit consists of NH₃ semi-hermetic compound two-stage refrigeration compressor, oil separator, oil cooler, economizer, liquid receiver (concurrently as siphon tank), Condenser-evaporator, gas-liquid separator, CO₂ canned pump, unit frame, protective door, electrical control, etc.

Unit Features

- The protection level of the whole unit is high and its installation position is flexible without need to set up a special machine room.
- The matching evaporative condenser can run in dry form at <-5°C ambient temperature.
- The unit uses the variable frequency control mode to realize automatic power frequency conversion without disturbance.



Table of Technical Parameters

Unit Model		ZR1611MZ(Z)	ZR12MZ(Z)	ZR16MZ(Z)
Refrigerant Type	Refrigerant	NH ₃		
	Secondary Refrigerant	CO ₂		
CO ₂ Outlet Temperature (°C)		-28	-10	
Refrigerating Capacity (kW)		112	190	420
Power Supply	Main Circuit	AC380V/50HZ		
	Main Circuit	AC220V/50HZ		
Compressor	Model	LG1611	LG12M	LG16M
	Rated Speed (RPM)	2960		
	Motor Power (kW)	65	65	132
CO ₂ Canned Pump Flow Rate (m ³ /h)		6	10	20
CO ₂ Canned Pump Lift (m)		30	30	30
Model of the Matching Evaporative Condenser		ZNX240G	ZNX240G	ZNX350G
NH ₃ Charging Volume (kg)		45(55)	65(78)	130(155)
Outline Dimension (mm)		3250*2200*3150	3500*2400*3150	3700*2700*3350
Net Weight (kg)		4500	5000	6000
Recommended Capacity for Cold Storage (Tonnes)		3000	1500	3000

Product Display

C6 CO₂ Cascade Modular Unit

The CO₂ cascade module unit is composed of NH₃ refrigeration compressor unit, NH₃ auxiliary machine, CO₂ refrigeration compressor unit, CO₂ auxiliary equipment, and electrical control. NH₃ auxiliary equipment includes: condenser, liquid reservoir, gas-liquid separator, throttle device, etc.; CO₂ auxiliary equipment includes: Condenser-evaporator, liquid reservoir, gas-liquid separator, drying filter, pump, throttle device, etc.



Unit Features

- CO₂ refrigerant is safe, non-toxic and non-flammable. It is widely used in warehouses, work and production areas and other crowded places, without person harming or food polluting.
- As the high temperature part of the cascade refrigeration system, the NH₃ refrigerant is only used in the machine room, and the charging volume is small. It is isolated from the low temperature environment and avoids direct contact with food.
- The flow resistance of NH₃ refrigerant is small, the unit refrigerating capacity is large, and the heat release coefficient is high.

- The CO₂ refrigerant has a large latent heat of evaporation and a high refrigerating capacity per unit volume. It has excellent flow and heat transfer, which can significantly reduce the size of the compressor, heat exchanger and pipeline. The entire system is very compact.
- The COP of the NH₃/CO₂ cascade refrigeration system is higher than the COP of a single refrigerant dual-stage compression refrigeration system within a certain range of working conditions. Under the evaporating temperature of -45°C, the COP of NH₃/CO₂ cascade refrigeration system is 8.8% higher than that of NH₃ two-stage refrigeration system.
- Both NH₃ and CO₂ are natural working mediums, in NH₃: ODP=0, GWP=0; in CO₂: ODP=0, GWP=1, which has good environmental performance.

Technical Parameters

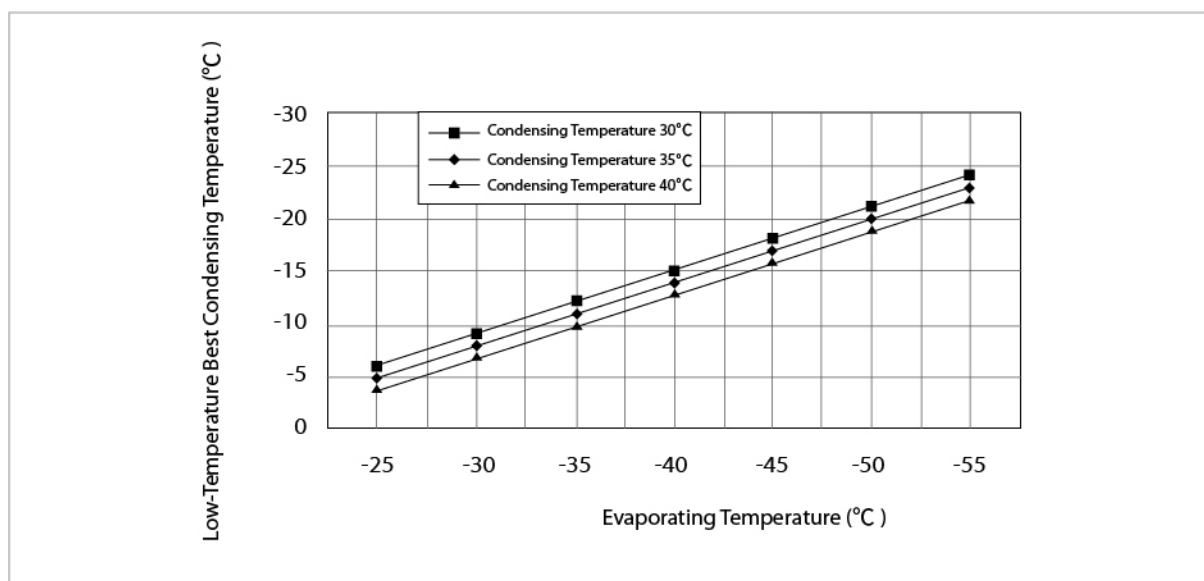
Model		Unit	LG16M12RFD	LG20S12RFD	LG20M16RFD
Refrigerant			R717(High Temperature Grade)/R744(Low Temperature Grade)		
	Charging Volume	kg	550/2470	550/3250	700/3250
Refrigeration Oil	Brand		MK4001B		
	Charging Volume	kg	160/110	310/250	310/250
Compressor	High Temperature Grade		LG16M	LG20S	LG20M
	Low Temperature Grade		LG12R/BF12R	BF12R(75HZ)	LG16R/BF16R
	High Temperature Grade Displacement	m ³ /h	598	806	1120
	Low Temperature Grade Displacement	m ³ /h	152.4	228.6	300
Nominal Working Conditions		°C	-40/+40		
Refrigerating Capacity of Nominal Working Conditions		kW	250	355	490
Main Motor	High Temperature Grade	kW	132	185	250
	Low Temperature Grade	kW	90	110	132

Product Display

C6 CO₂ Cascade Modular Unit

Model		Unit	LG16M12RFD	LG20S12RFD	LG20M16RFD
Oil Cooler Type			Refrigerant		
Condenser-Evaporator	Type		Shell and Tube		
	Model		LZH90	LZH90	LZH140
R717 Gas-Liquid Separator	Type		Horizontal Container		
	Model		QFW450	QFW450	QFW600
Ammonia Liquid Receiver	Type		Horizontal Container		
	Model		ZY0.7	ZY0.7	ZY1
R744 Gas-Liquid Separator	Type		Horizontal Container		
	Model		QFW1000	QFW1100	QFW1100
Auxiliary Evaporator	Type		Shell and Tube		
	Model		ZFG6		
R744 Pump	Quantity		2		
	Flow Rate	m ³ /h	6	6	10
	Lift	m	30	30	40
Maintenance Unit			2EC-2.2		

Best Condensing Temperature of Low Temperature Grade (Intermediate Temperature)



Product Display

C7 AIST CO₂ Modular System

Semi-hermetic structure, cascade system function, maintenance unit, oil treatment function integration, piping, control line and power circuit wiring are all completed in the skid block, simplifying the installation of the project.

Box enclosure, no need for machine room, integrated active defense system, higher safety, less charging volume.

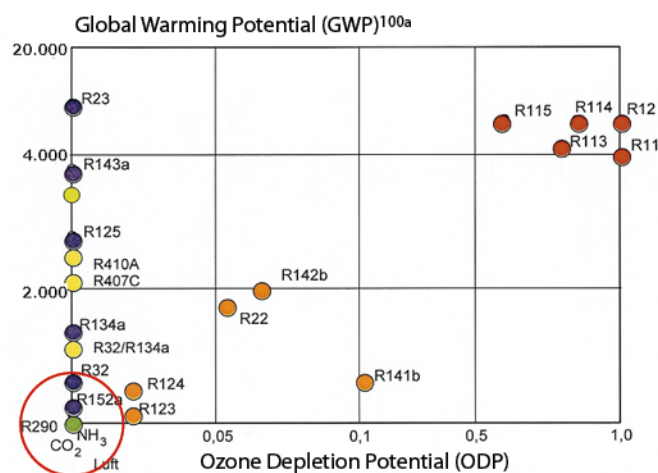


Technical Features

• Environment-Friendly Refrigerant

The AIST carbon dioxide module system continues to use safe, environment-friendly, and energy-saving NH₃/CO₂ refrigerants.

Note: Other refrigerants can also be used for the high-temperature grade. MOON-TECH can design and customize as required.

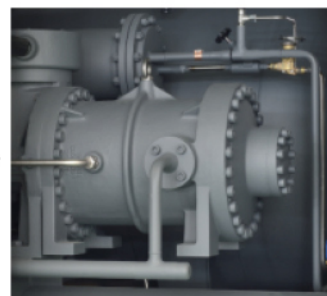


• Upgraded Compressor

Open-Type Screw Compressor



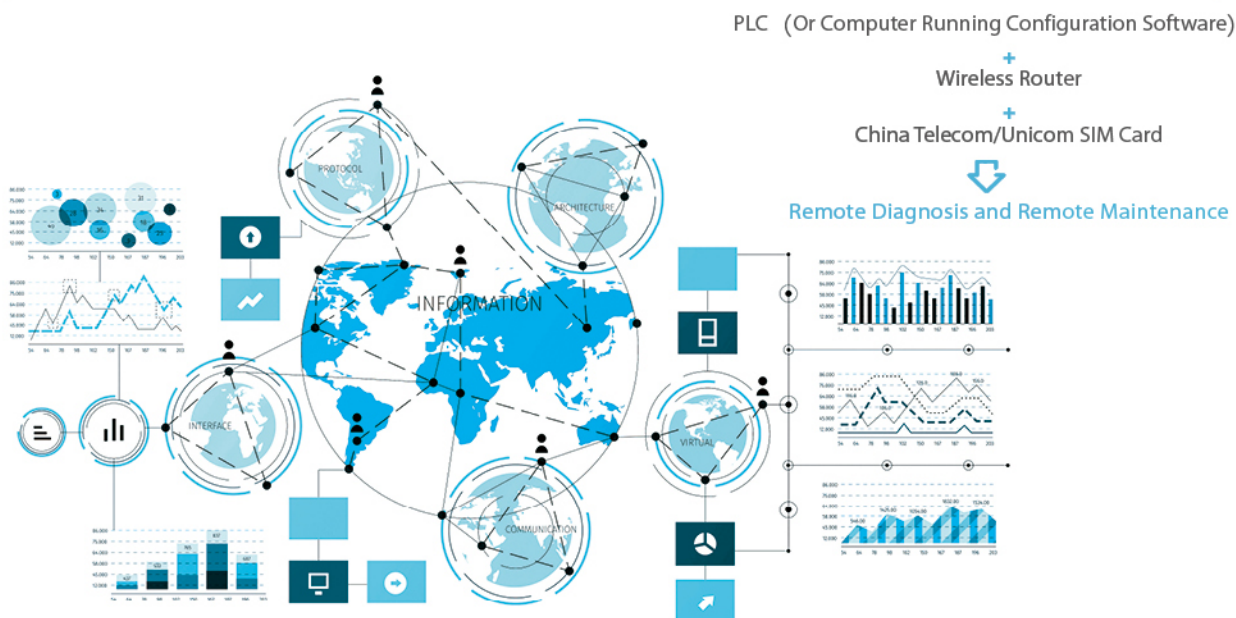
Semi-Hermetic Screw Compressor



Product Display

C7 AIST CO₂ Modular System

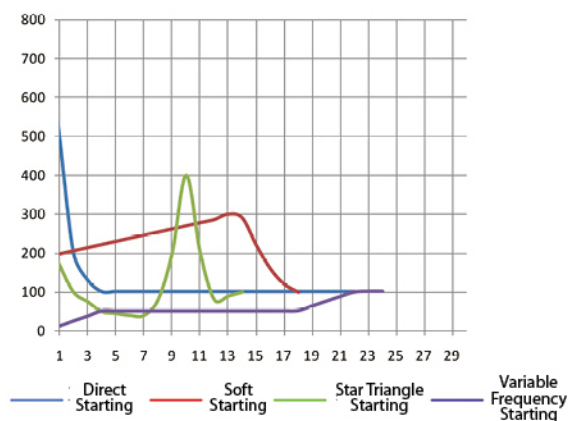
Intelligent Control



Variable Frequency Regulating

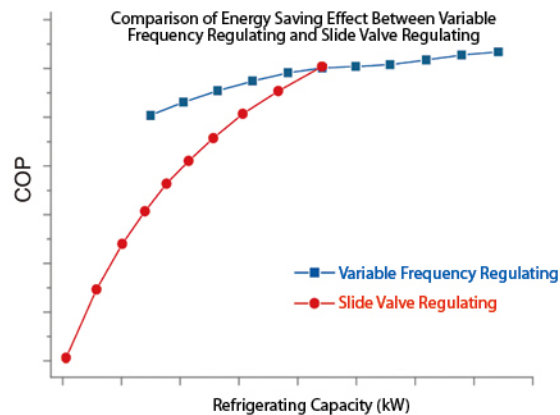
Variable Frequency Starting:

It can start with load, no impact current, and continuously adjust the speed. Simultaneously change the voltage and frequency, and continuously adjust the speed without reducing the torque.



Variable Frequency Operation:

In part load operation, the energy saving effect of variable frequency regulating is much better than that of slide valve regulating.



Product Display

C7 AIST CO₂ Modular System

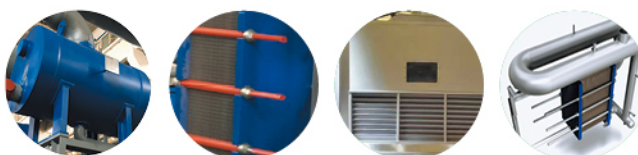
• Automatic Oil Return

Using oil level switch, automatically detect oil level and return oil.



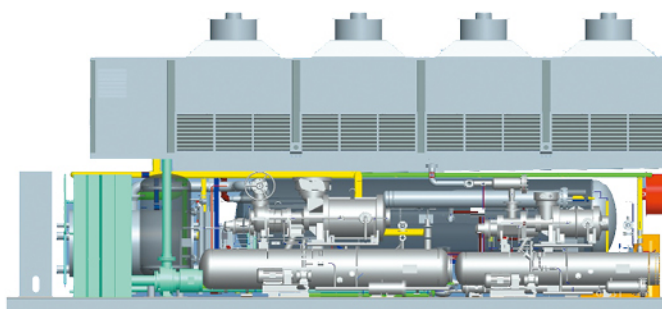
• Small Ammonia Charging Volume.

New evaporative condenser, high efficiency condenser-evaporator, water-cooling type oil cooler and plate exchange economizer are used to further reduce ammonia charge, which can be reduced to about 25% of the open module unit.



• Active Defense

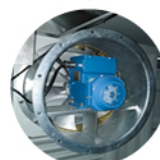
The active defense system in the machine room is integrated into the module



Concentration Sensor



Ammonia Recovery



Forced Ventilation Fan



Spray Device

Product Display

C7 AIST CO₂ Modular System

- Modular Design

High standardization reduces delivery time.



Technical Parameter Table of AIST Modular System

Item		AISTC-1
Refrigerant		NH ₃ /CO ₂
Nominal Working Conditions°C		-38/+40
Unit Refrigerating Capacity (kW)		271
Unit Refrigerating Capacity (kW)	NH ₃	160
	CO ₂	90
Shaft Power (kW)	NH ₃	110
	CO ₂	58
CO ₂ Pump Lift (m)		30
CO ₂ Pump Flow Rate(m ³ /h)		6
CO ₂ Pump Power (kW)		3
Electrical System		3P/380V/50HZ
Charging Volume (kg)	NH ₃	~ 110
	CO ₂	~ 2700*
Oil Filling Volume (kg)	NH ₃	~ 160
	CO ₂	~ 120
Outline Dimension (mm)		8000X2300X3900
Unit Weight (kg)		~ 19000
Operating Weight (kg)		~ 22300

Note: *CO₂ charging volume does not include the amount for the evaporator.

Product Display

C8 CO₂ Air Cooler

Main Features

- The special air cooler for CO₂ system is made using the special machining technology and pressure-tested for high strength to ensure absolute safety;
- The evaporator core is made of stainless steel pipes and aluminum fins and designed for special heat exchange according to CO₂ features;
- The heat transfer coefficient of CO₂ is higher than that of other refrigerants and it has small heat exchange temperature difference, thus effectively reducing weight loss of foods;
- Specifications are complete and two sorts of series special CO₂ air coolers can be provided;
- Multiple defrosting interfaces are reserved, and the defrosting modes can be adopted, including hot gas defrosting, hot water defrosting, electric heating defrosting, etc.



Model	DPR/LPR	Installation Type	Ceiling – Mounted/ Floor-Assembled	Design Pressure	5.2MPa
Design Temperature	95°C	Refrigerant	R744	Total Air Flow	20000 ~ 87000 m ³ /h
Cooling Area	110~715 m ²	Total Motor Power	0.74 ~ 6.0kW	Air Pressure	200 ~ 290 Pa

Product Display

C9 Plate Freezer

Main Features

- The freezing plate is specially designed for CO₂ and manufactured based on special processing technology. And ultra-high pressure test is carried out to ensure the safety of the equipment;
- The freezing plate is made of high-strength aluminum alloy flat plate with fast freezing speed and low food consumption;
- The flat plate evaporator is professionally designed to ensure that the refrigerant evaporates evenly, the temperature of the flat plate surface is uniform, and the freezing efficiency is high;
- The liquid supply and vapor return headers are all stainless-steel tubes, which can ensure frequent use in a low temperature atmosphere for a long time. Optimize the liquid supply and vapor return process to ensure the uniformity of liquid supply.
- The lifting mechanism is stable and reliable. The professionally designed hydraulic system, high-precision hydraulic cylinder and high-quality hydraulic pump ensure that the hydraulic system can run stably for a long time.

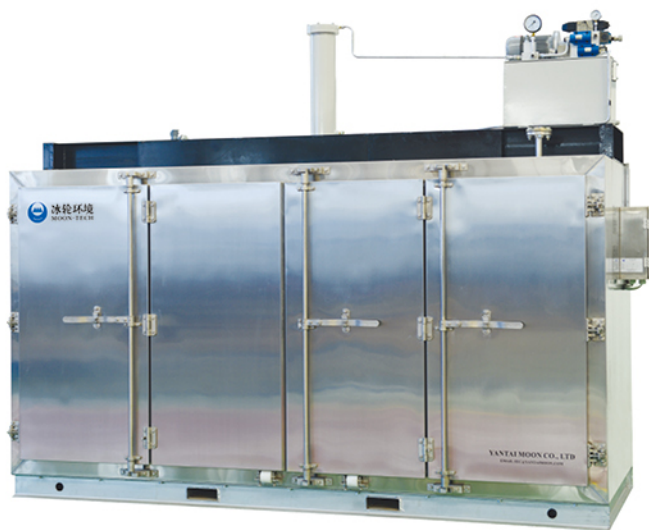


Table Of Technical Parameters

Model	MPF960	MPF1200	MPF1500	MPF1800
Outline Dimension L*W*H(mm)	3350*1680*2700	3350*1680*3050	3750*1680*3050	3750*1680*3300
Freezing Plate Size (mm)	1660*1261		2060*1261	
Effective Layers	8	10	10	12
Effective Spacing of Layers (mm)	55~105			
Inlet & Outlet Product Core Temperature (°C)	+20/-18			
Refrigerant Working Conditions (°C)	±35			
Refrigerant	R744			
Liquid Pipe (mm)	Φ38	Φ45	Φ45	Φ45
Suction Pipe (mm)	Φ76	Φ89	Φ89	Φ89
Cooling Consumption (kW)	26	33	41	49
Nominal Freezing Capacity (kg/time)	960	1200	1500	1800
Installed Capacity (kW)	1.5			
Weight (t)	3.1	3.4	3.7	4.0

Product Display

C10 CO₂ Tunnel Freezer

Main Features

- CO₂ special design
- The freezer uses the special machining technology, and ultra-high pressure strength test and strict nondestructive testing of core heat exchange components are performed to ensure safety and no leakage;
- The exclusive "thermal fluctuation" air distribution technology is combined perfectly with the high heat exchange performance of CO₂ so as to greatly improve the freezing speed and freezing quality of foods;
- Among the freezers of the same specification, the CO₂ freezer has the smallest unit energy consumption.
- Imported high strength stainless steel plate belt are selected. The high-efficiency freezer is equipped with centrifugal fans dedicated to low temperature and humid environment, The fan shell and blade are made of stainless steel. The jet type freezer is equipped with a volute centrifugal fan.



Table of Technical Parameters

Product Model	MTS500	MTS600	MTS750	*MTS800	*MTS1000	*MTS1200	*MTS1500
Nominal Freezing Capacity (kg/h)	500	600	750	800	1000	1200	1500
Effective Width of Plate Belt (mm)	250			800			
Max.Product-Through Height (mm)	60						
Inlet & Outlet Product Core Temperature (°C)	+10/-18						
Freezing Temperature (°C)	-40						
Defrosting Water Quantity (m³/time)	8	9.6	12	12.8	16	19.2	24
Cooling Consumption Under Nominal Working Conditions (kW)	80	90	110	130	150	180	220
Installed Capacity (kW)	10.25	13.85	15.19	20.15	20.15	27.49	29.89
Net Weight(t)	10	11	13	16	20	22	25
Operating Weight (t)	11	12.1	14.3	17.6	22	24.2	27.5

Note:

1.The freezers with*are dual plate belt freezers.

2.The nominal freezing capacity is designed as per scallop, with the specification of Φ20*18, 80 pieces/lb, the water content of 80% and the material distribution density of 4kg/m²;

3.The cooling consumption under nominal working conditions is calculated as per the operating condition at -45°C evaporating temperature. When the actual freezing temperature is different from the value in the table, please configure the system equipment according to actual operating conditions.

Product Display

C10 CO₂ Tunnel Freezer

Mes Series Tunnel (Plate Belt) Freezers

Product Model	MES500	MES750	MES1000	MES1500
Nominal Freezing Capacity (kg/h)	500	750	1000	1500
Effective Width of Plate Belt (mm)	1150			
Max.Product-Through Height (mm)	50~90			
Inlet & Outlet Product Core Temperature (°C)	+10/-18			
Freezing Temperature (°C)	-42			
Refrigerant	R744			
Defrosting Water Quantity (m ³ /time)	10	15	20	30
Cold Consumption Under Nominal Working Conditions (kW)	100	145	200	290
Installed Capacity (kW)	35	51	70	102
Net Weight(t)	12	15	24	30
Operating Weight (t)	13.2	16.5	26.4	33

Note:

1. The nominal freezing capacity is designed as per Tilapia slices, with the specification of 200*100*20mm and 120g/slice, the water content of 75% and the material distribution density of 7.5kg/m³;

2 The cold consumption under nominal working conditions is calculated as per the operating condition at -47°C evaporating temperature. When the actual freezing temperature is different from the value in the table, please configure the system equipment according to actual operating conditions.

Men Series Tunnel (Mesh Belt) Freezers

Product Model		MEN500	MEN750	MEN1000
Nominal Freezing Capacity (kg/h)		500	750	1000
Effective Width of Mesh Belt (mm)		1450		
Max.Product-Through Height (mm)		50~90		
Inlet & Outlet Product Core Temperature (°C)		+15/-18		
Freezing Temperature (°C)		-42		
Refrigerant		R744		
Defrosting Water Quantity (m ³ /time)		10	15	20
Cold Consumption Under Nominal Working Conditions (kW)	Internal Circulation	120	145	190
	External Circulation	140	170	210
Installed Capacity (kW)		35	46	63
Net Weight(t)		11	14	17
Operating Weight (t)		12.1	15.4	18.7

Note:

1.The nominal freezing capacity is designed as per headless shrimp, with the specification of φ15*80mm, 16~20 pieces/lb, the water content of 75% and the material distribution density of 3kg/m³;

2 The cold consumption under nominal working conditions is calculated as per the operating condition at -47°C evaporating temperature. When the actual freezing temperature is different from the value in the table, please configure the system equipment according to actual operating conditions.

Product Display

C10

CO₂ Tunnel Freezer

MTN Series High-Efficiency Tunnel (Mesh Belt) Freezers

Product Model	Nominal Freezing Capacity (kg/h)	Effective Width of Mesh Belt (mm)	Max. Product-Through Height (mm)	Inlet & Outlet Product Core Temperature (°C)	Freezing Temperature (°C)	Refrigerant	Defrosting Water Quantity (m ³ /time)	Cold Consumption Under Nominal Working Conditions (kW)	Installed Capacity (kW)	Net Weight(t)	Operating Weight (t)
MTN250-1220	250	1180					4	45	5.8	4	4.4
MTN500-1220	500	1180					8	80	10.65	6.5	7.2
MTN500-1530	500	1490					8	80	10.65	6.5	7.2
MTN750-1530	750	1490					12	110	13.85	8	8.8
MTN1000-1530	1000	2X1490					16	160	21.3	11	12.1
MTN500-2030	500	1990					8	80	10.51	6.5	7.2
MTN750-2030	750	1990					12	110	13.85	8	8.8
MTN1000-2030	1000	1990					16	150	19.45	10.5	11.6
MTN1500-2030	1500	1990					24	220	27.7	15	16.5
MTN2000-2030	2000	1990					32	300	38.9	20	22
MTN750-2650	750	2600	100	+15/-18	-40	R744	12	110	10.71	8	8.8
MTN1000-2650	1000	2600					16	155	19.45	10.5	11.6
MTN1200-2650	1200	2600					19.2	180	25.85	12	13.2
MTN1500-2650	1500	2600					24	220	27.7	14	15.4
MTN1000-3030	1000	3000					16	160	25.85	10.5	11.6
MTN1200-3030	1200	3000					19.2	180	27.7	12	13.2
MTN1500-3030	1500	3000					24	220	27.7	14	15.4
MTN2000-3030	2000	3000					32	300	38.9	18	19.8
MTN1200-3200	1500	3160					19.2	180	27.7	12	13.2
MTN1500-3200	1500	3160					24	220	27.7	14	15.4
MTN2000-3200	2000	3160					32	300	44.6	18	19.8
MTN2500-3200	2500	3160					40	380	57.8	24	26.4

Note:
The above models are only summary of the partial models. We will provide you with the best solution according to your specific requirements.

Product Display

C11

CO₂ Fluidized Quick Freezing Device

Main Features

- CO₂ special design
- It is made based on special processing technology, and ultra-high pressure test is carried out to ensure the absolute safety of the equipment in use;
- Special heat exchange design for CO₂ refrigerant features, high heat exchange efficiency, small temperature difference, better than other refrigerant;
- Axial fan is selected and used, which is more efficient than a centrifugal fan and has low energy consumption;
- Two-stage design, the freezing effect of monomer ratio and dry consumption is better than the one-stage fluidized quick freezing device;
- The fan, conveyor belt and vibration are all frequency control, which can meet the freezing requirements of different products.



Table of Technical Parameters

Model	MVD1000	MVD1500	MVD2000	MVD2500	MVD3000
Nominal Freezing Capacity (kg/h)	1000	1500	2000	2500	3000
Effective Width of Mesh Belt (mm)	1150				
Max.Product-Through Height (mm)	100				
Inlet & Outlet Product Core Temperature (°C)	+15/-18				
Freezing Temperature (°C)	-35				
Refrigerant	R744				
Defrosting Water Quantity (m ³ /time)	16	22	30	36	43
Cold Consumption Under Nominal Working Conditions (kW)	150	240	310	400	460
Installed Capacity (kW)	28	40	52	58	77
Net Weight(t)	7.5	9	10.5	12	15
Operating Weight (t)	8.5	10.5	11.5	13	16.5

Note:

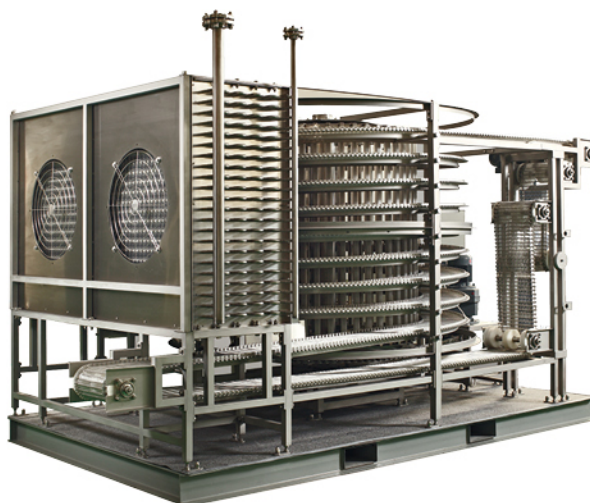
1. The nominal freezing capacity is designed as per green sword beans, with the water content of 70% and the material distribution density of 900kg/m³;
2. The cold consumption under nominal working conditions is calculated as per the operating condition at -40°C evaporating temperature. When the actual freezing temperature is different from the value in the table, please configure the system equipment according to actual operating conditions.

Product Display

C12 CO₂ Spiral Quick Freezing Device

Main Features

- CO₂ special design
- It is made based on special processing technology, and ultra-high pressure test is carried out to ensure the absolute safety of the equipment;
- Special heat exchange design for the characteristics of CO₂, high heat exchange efficiency, small temperature difference, is better than other working medium;
- The helix is divided into single helix and double helix. The double helix can be low feeding and low discharging. The single helix can only be low feeding, high discharging or high feeding and low discharging. And can provide a variety of inlet and outlet direction options as users required.
- The air distribution method is one-to-one between evaporator and drum, and the freezing efficiency is much better.
- The transmission mode adopts the unique slight tensioning technology, and the conveyor belt is in a uniform and bulky running state, which ensures the stable operation of the conveyor belt.
- The drum drive friction strip is made from a kind of "C" type ultra-high polymer material. It adopts a unique wrapping and fixing process to effectively prevent jumping and at the same time effectively avoid the deformation of the friction strip surface caused by thermal expansion and contraction.
- Multi-point fault detection, real-time monitoring of the



working state of the quick-freezing device, which can immediately alarm and display the fault point and the cause of the fault, protecting each transmission component from being damaged.

- The control cabinet is introduced from an internationally renowned brand PLC controller, touch screen control, visual display and simple operation. The signal interface is reserved to upload the signal of the quick freezing device.
- The design purpose of the product is to maximize output and trouble-free operation time, while minimizing operation and maintenance costs, reducing floor space, reducing water and electricity consumption, and achieving the best economic benefits.

Table of Technical Parameters

Model	LSS2512	LSS3014	LSS3514	LSD2016	LSD2512	LSD2518	LSD3014	LSD3018
Nominal Freezing Capacity (kg/h)	500	800	1000	1000	1000	1500	1500	2000
Effective Width of Mesh Belt (mm)	580	680	780	580	580	580	680	680
Max.Product-Through Height (mm)	90							
Inlet & Outlet Product Core Temperature (°C)	+50/-18							
Freezing Temperature (°C)	-35							
Refrigerant	R744							
Defrosting Water Quantity (m ³ /time)	9	14.4	18	18	18	27	27	36
Cold Consumption Under Nominal Working Conditions (kW)	90	145	165	170	170	240	240	320
Installed Capacity (kW)	15.21	21.96	22.96	33.89	29.89	45.49	25.09	23.49
Net Weight(t)	11	14	18	19	19	28	27	37
Operating Weight (t)	12	15.5	20	21	21	31	30	40

Note:

1. The nominal freezing capacity is designed as per bare freezing of chicken nuggets, with the material distribution density of 7kg/m²;
2. The cold consumption under nominal working conditions is calculated as per the operating condition at -40°C evaporating temperature. When the actual freezing temperature is different from the value in the table, please configure the system equipment according to actual operating conditions.
3. The above models are only summary of the partial models. We will provide you with the best solution according to your specific requirements.

Product Display

C13 CO₂ Flake Ice Device

Main Features

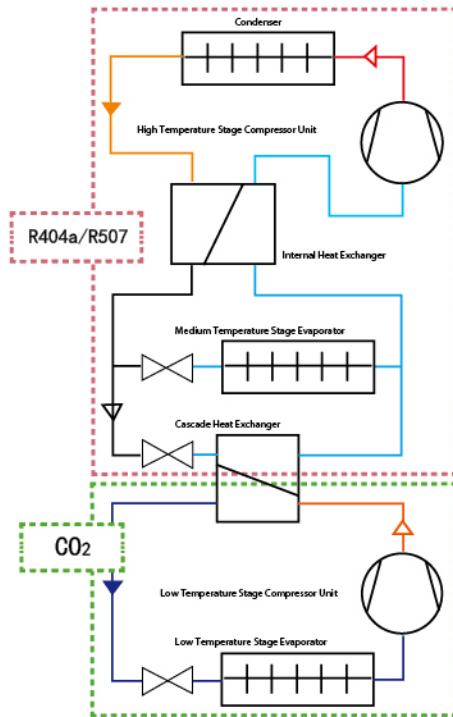
- CO₂ special design
The evaporator is made of stainless steel with special processing technology, and the ultra-high pressure test is carried out to ensure the safety of the equipment without leakage;
- Special heat exchange design for the characteristics of CO₂, the efficiency is high and temperature difference is small;
- Formed flake ice is beautiful in shape, uniform in size, small in volume, light in weight, and free of sharp edges and corners;
- Fully automatic control, modular design, safe and convenient maintenance;
- Special designs can be made according to the user's conditions.



Table of Technical Parameters

Model	PBR15T	PBR20T	PBR25T	PBR30T
Daily Output (t/24h)	15	20	25	30
Total Power (kW)	54	64	80	90
Compressor Input Power (kW)	45	55	70	78
Cooling Tower Flow Rate (m ³ /h)	50	60	75	95
Cooling Mode	Water Cooling	Water Cooling	Water Cooling	Water Cooling
Water Inlet/Outlet Pipe Diameter	3/4"x2 1/2"	3/4"x2 1/2"	3/4"x2 1/2"	3/4"x2 3/4"
Weight (kg)	3800	4400	4600	5000
Unit Size (mm)	3550×2050×2000	3550×2050×2100	3550×2050×2400	3550×2050×2500

D1 The Other Refrigerant and CO₂ Cascade Application



Application Features

- In order to reduce operation cost and refrigerant charging volume, the fluorine refrigerant and CO₂ cascade or secondary refrigerant system can also be adopted as an alternative in some specific environments and areas where ammonia cannot be used.
- Of all refrigerant and CO₂ cascade or secondary refrigerant system, NH₃ has the highest efficiency and the best economy.
- The cost of the system is higher than that of the NH₃ and CO₂ cascade or secondary refrigerant system.
- The comprehensive cost of the system is lower than that using a single alternative synthetic refrigerant.

Working Medium Selection

- Good environmental protection characteristics (comparing ODP and GWP indicators of common working medium)
- High operating economy (comparing the operating COP indicators of common working mediums). R404A and R507A are relatively ideal choices.

Equipment Selection

- R404A and R507A system equipment is selected according to the conventional system.
- For the selection of CO₂ special equipment such as air cooler, quick freezing equipment, flake ice machine and so on, please refer to the section "C Product Display".
- The heat exchange and structural design of the condensing evaporator are slightly different from the NH₃/CO₂ cascade system. For the series specifications, please refer to "C2 Condensing-evaporator".

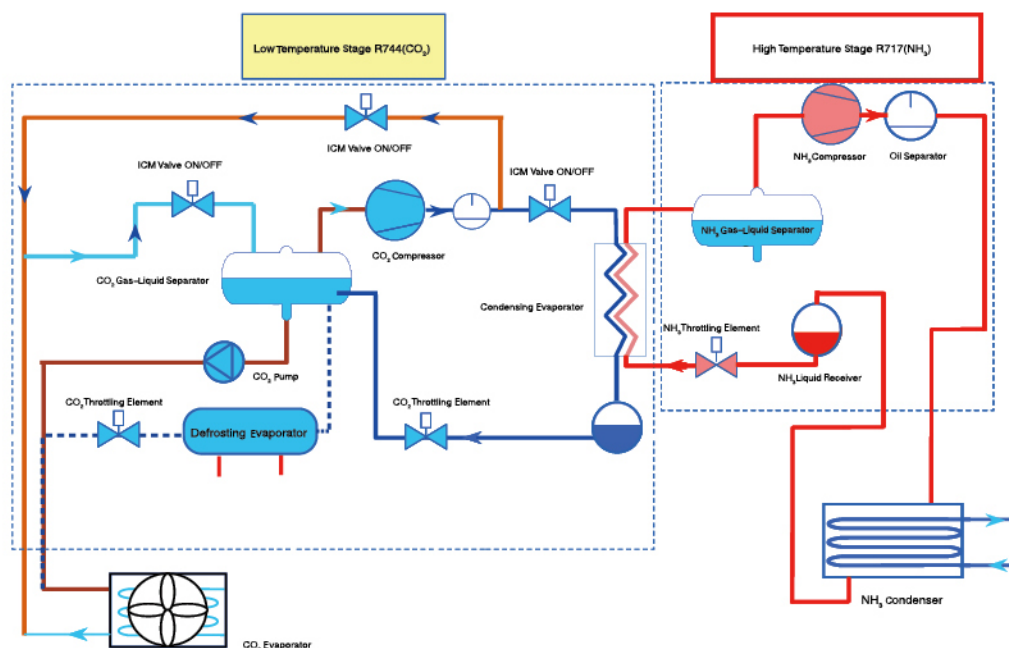


Automatic Control Of Refrigeration System Operation

- The control process scheme is prepared for compressor unit control based on the IEMC intelligent energy-efficiency management and control system in combination with the concept of variable frequency control and compressor group control according to the technological features of users.
- The variable frequency control mode is used for the fan of the evaporative condenser, including two modes in winter and summer; the condenser runs in evaporative cold dry mode at ambient temperature lower than -5°C in winter. This ensures safe operation of equipment and the energy consumption of the compressor at low condensing pressure is further reduced.
- Different temperatures of the air cooler in cold room are set according to peak-valley electricity prices to reduce the operation cost.
- Full automatic defrosting and precise control of defrosting pressure and time to ensure defrosting process safety and to minimize the impact of defrosting on the whole energy consumption of the system.
- Multi-channel network remote monitoring and diagnosis, supporting remote monitoring of equipment running state with mobile communication equipment, wireless network, etc.

Refrigeration System Safety Control

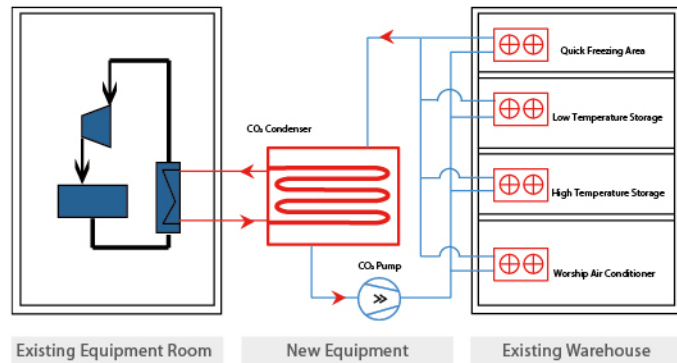
- The active safety defense system is used to prevent ammonia refrigerant leakage in machine room;
- "Water curtain" sprinkling and IEMC linkage control function;
- In the event of leakage in machine room, the system automatically implements protective measures according to the procedure, thus ensuring personnel safety to the greatest extent possible;
- The terminal life self-checking function is loaded! When the sensor core is about to reach its service life, the system will automatically remind the user of replacing it;
- In the event of ammonia leakage in an area, the active safety defense system will successively give an audible and visual alarm according to the ammonia leakage quantity.
- Emergency starting of emergency exhaust equipment, water curtain sprinkling and IEMC linkage control function;
- Audible and visual alarm is used to remind personnel of ammonia leakage accidents;
- Emergency exhaust fans are used to exhaust the leaked ammonia outdoors;
- Water curtain sprinkling function is used to separate hazardous areas;
- If ammonia leaks further, the IEMC linkage control function will shut down the compressors in the corresponding area.



E2 Improvement of Existing Refrigeration System

Main Features

- The equipment in the existing machine room is kept unchanged; the cooling equipment in the cold storage is replaced by CO₂ special cooling equipment; in addition, a set of CO₂ condenser and canned pump are added.
- The original ammonia system equipment is utilized to the greatest extent possible, thus realizing small reconstruction investment and quick construction speed.
- The operation efficiency is improved and the investment recovery period of the system is short.
- After system reconstruction completion, NH₃ is used only in the machine room and an active ammonia defense system is set up in the machine room, so system operation is safer.



E3 Oil Cooler Load Terrace Heating

The oil cooler of the compressor unit is used as the terrace heating source, thereby reasonably utilizing heat quantity, reducing the cooling load of the condenser and achieving the purpose of energy saving. This mode has lower engineering cost than the mode of burial of conventional vent pipes.





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让温度更有温度

BEYOND JUST TEMPERATURE



Project Planning



Technical Consulting



Engineering Design



Complete Equipment



Installation and Commissioning



Employee Training



System Maintenance



System Diagnostic Upgrade



Contract Energy Management

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