

Guangzhou Icesource Co., Ltd.

Tel +86 20 3919 9220

Web www.icesourcegroup.com

E-mail sale@icemakerchina.com

Office Add Building 101, No.44, Qianfengbei Road, Shiqi Town,
Panyu District, Guangzhou, China.

AMMONIA SYSTEM TUBE ICE MACHINE





Industry-leading provider of customized value-added solutions for large-scale automated tube ice plants.

Guangzhou Icesource Co., Ltd. is a leading industry leader in China specializing in customized value-added solutions for large-scale automated tube ice plants. We are a professional provider and service provider of automated ice plant solutions, with independent core technologies and multiple national-level invention patents. Our company possesses a high-end technology research and development team, management team, and a large-scale modern production base with an international perspective. We have the competitive advantage to develop in sync with the global industry of large-scale automated ice plant solutions.

CERTIFICATE



EPIA Edible Ice Association



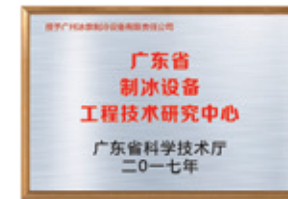
United Nations Plaque



Specialized in Special New Smes



High-Tech Enterprises



Ice-making Equipment Engineering Technology Research Center



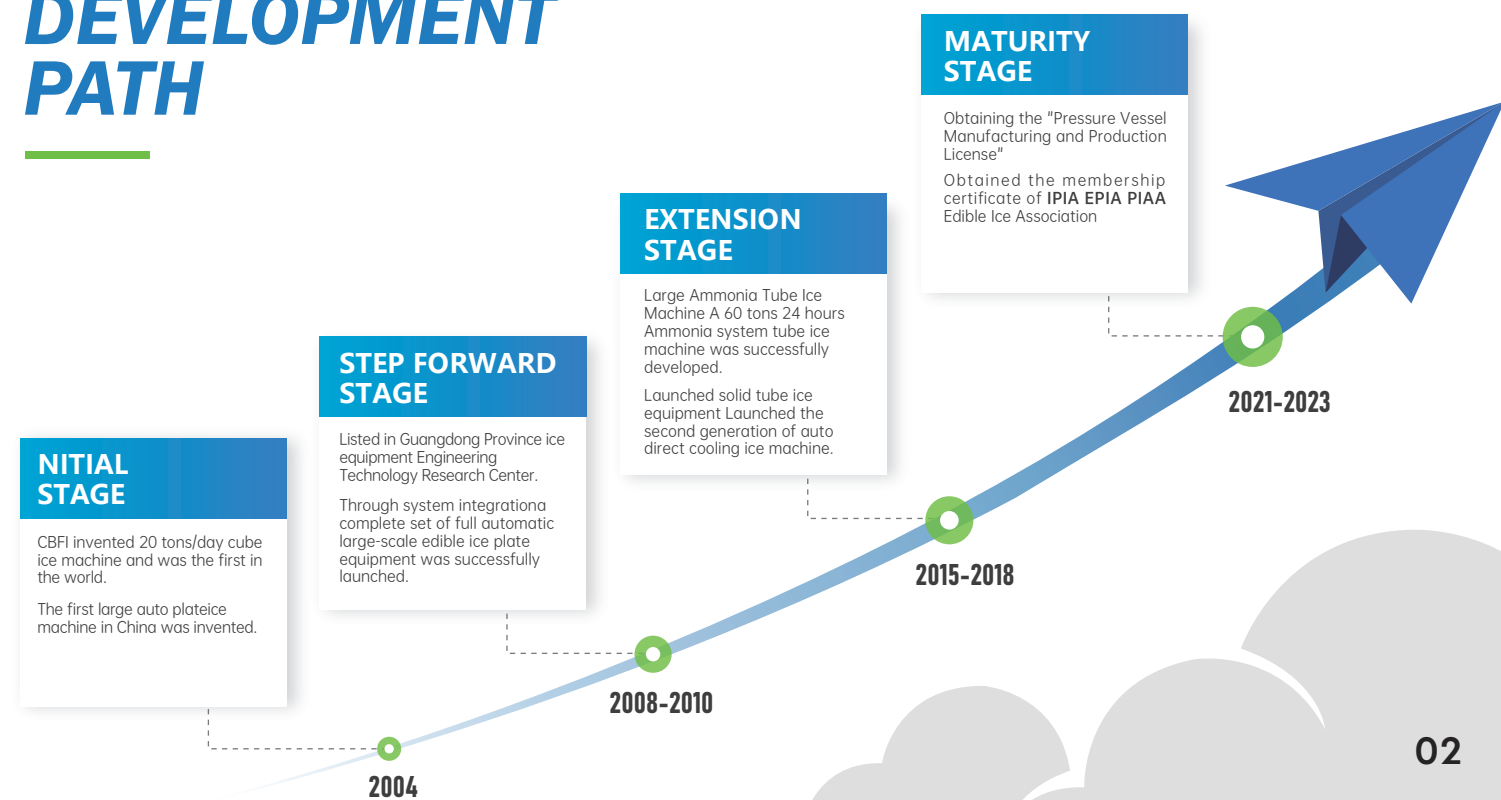
Production License of Special Equipment People's Republic of China



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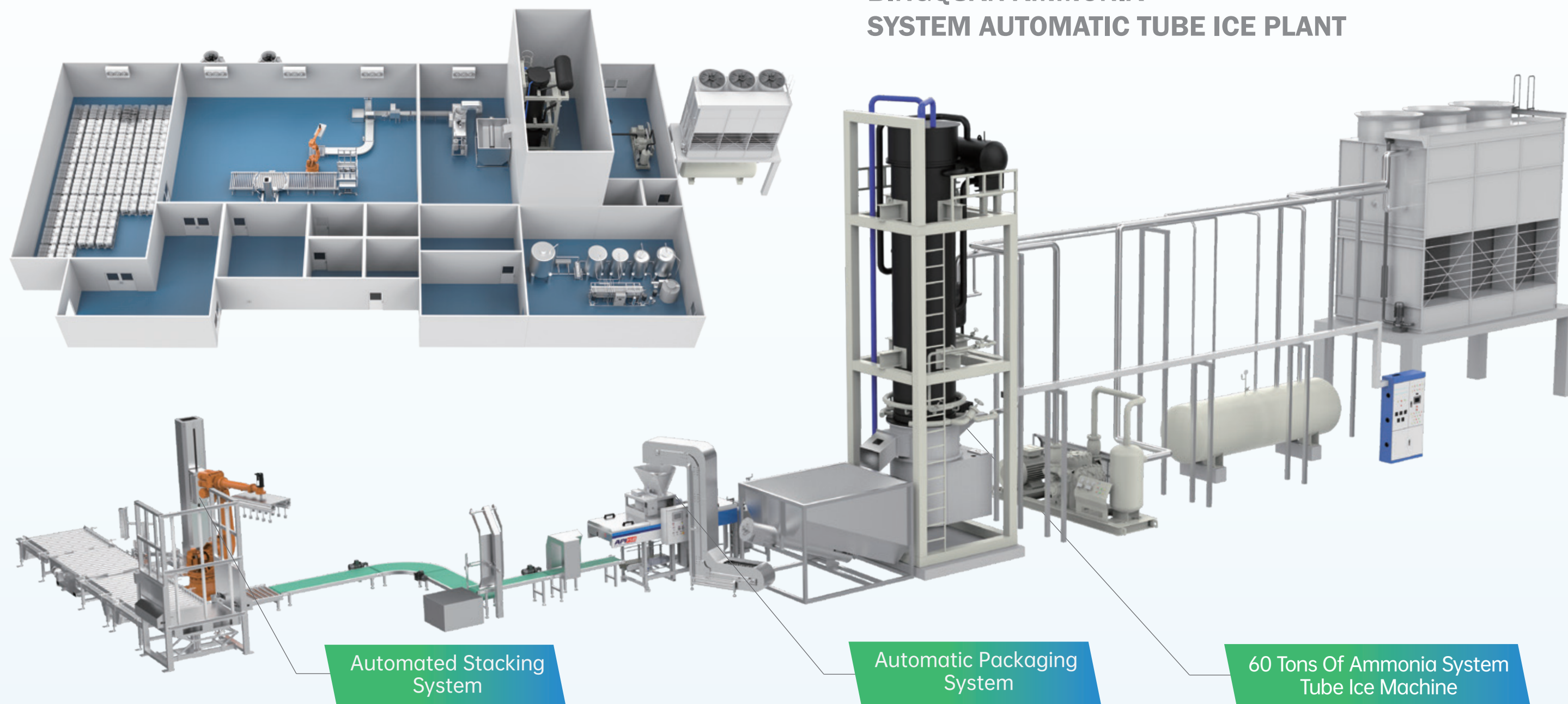


DEVELOPMENT PATH



SOLUTION

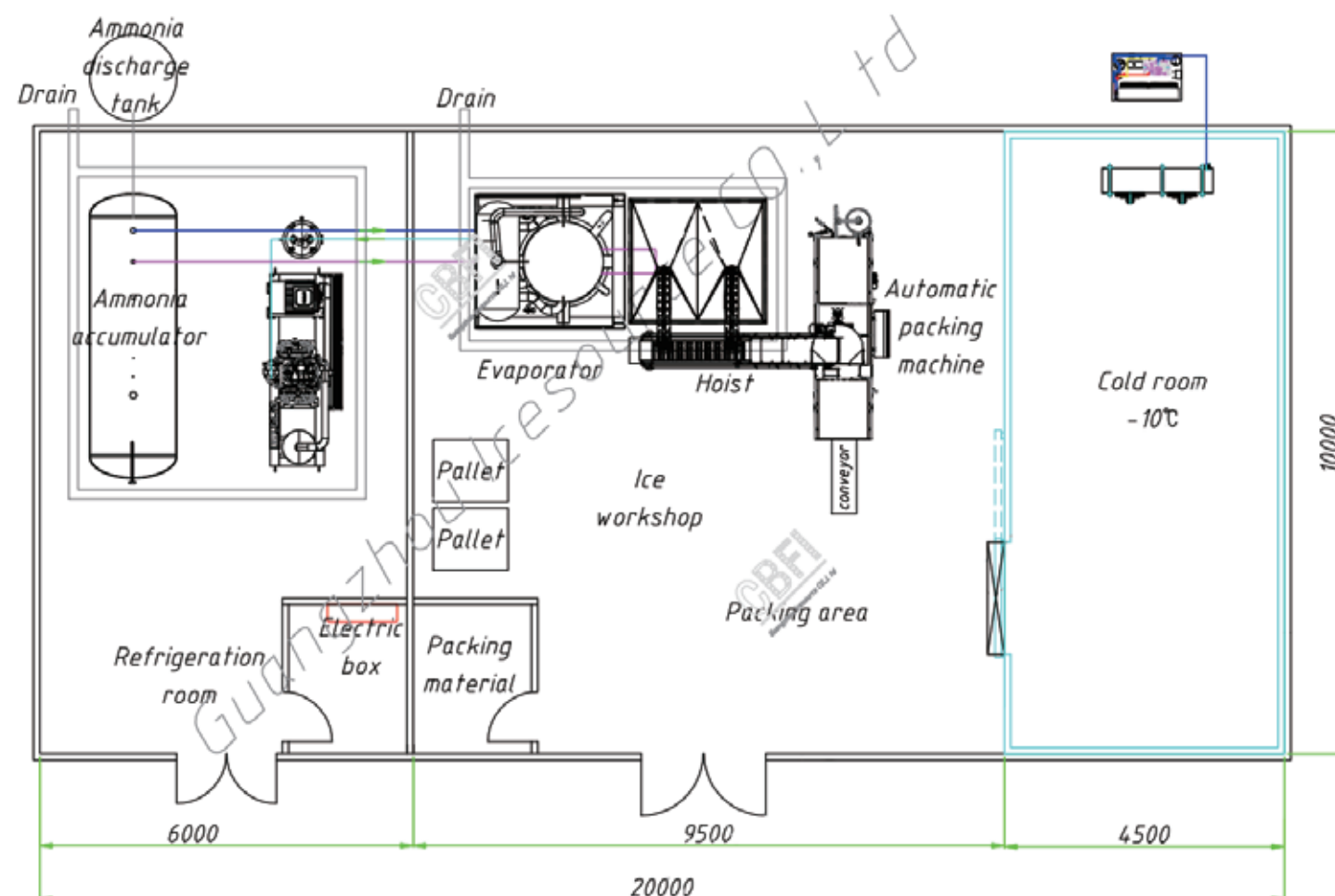
BINGQUAN AMMONIA SYSTEM AUTOMATIC TUBE ICE PLANT



AMMONIA SYSTEM TUBE ICE PLANT

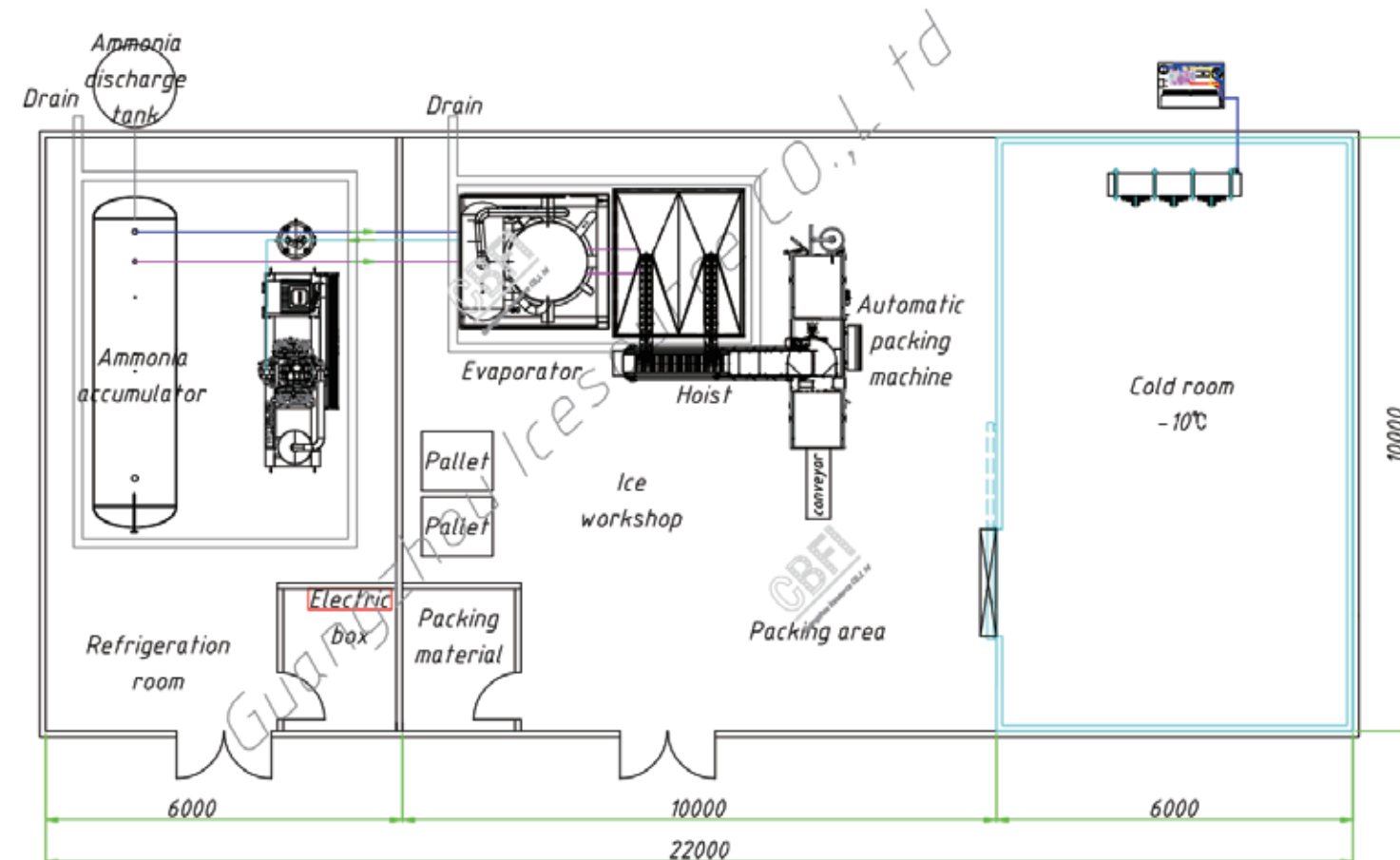
With the development of social economy, people's living standard has been improved and their demand on food application is higher and higher. At the present market, most of ice plant runs in this model: it just has one set ice machine, one worker and one small cold room and the ice production cannot meet the national food requirements. Aiming at edible ice market, our company has been through years of experience in the production of edible ice equipment and feedback on market research.

According to production process specification of edible ice and requirements 《SB/T 10017-2008》, we specially designed the latest ice plant that conformity with QC and improve the safety of edible ice. Thus, it can stop ice contamination from the source and make customer's ice plant regulation and say goodbye to tiny workshop. In order to assure consumers enjoy ice in safety and security, we contribute to the standardization of the edible ice market.



CBFi 60 TONS OF AMMONIA SYSTEM TUBE ICE PLANT SOLUTION

- RO water treatment
- Specialized precooling unit for ice making system
- Ice storage room
- Cold room refrigeration unit



CBFi 90 TONS OF AMMONIA SYSTEM TUBE ICE PLANT SOLUTION

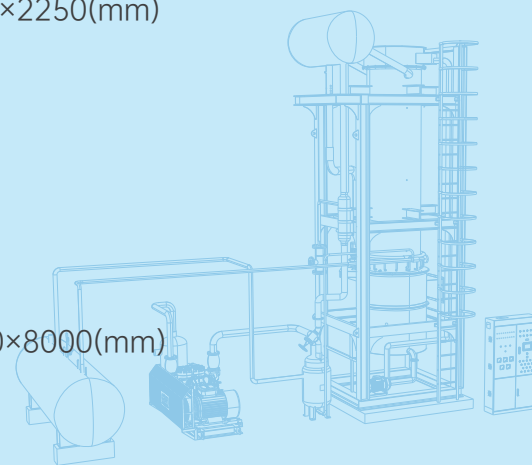
- Automatic ice packing machine.
- Automatic screw ice storage equipment
- Cooling tower



1 TON OF ICE 65 KW/h

HYDROGEN SYSTEM HOLLOW TUBE ICE MACHINE

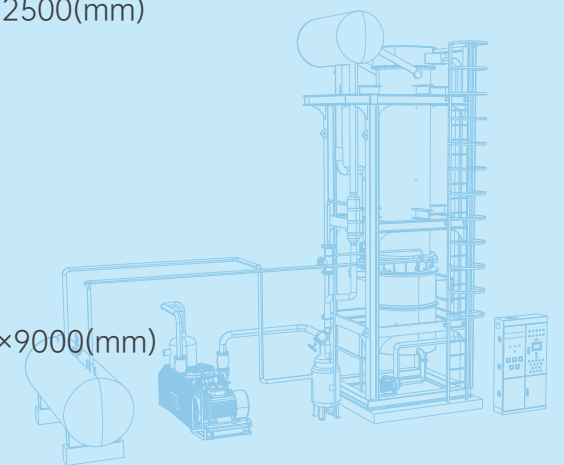
REFRIGERATION UNIT SIZE	3450×1530×2250(mm)
WEIGHT	25000KG
COOLING FAN MOTOR POWER	12KW
WATER PUMP POWER	3KW
COOLING CAPACITY	496.9
COMPRESSOR RATED POWER	132KW
EVAPORATOR SIZE	2400×2200×8000(mm)
ICE CUTTING MOTOR POWER	3KW
CHILLED WATER PUMP POWER	7.5KW



1 TON OF ICE 65 KW/h

HYDROGEN SYSTEM HOLLOW TUBE ICE MACHINE

REFRIGERATION UNIT SIZE	3510×1720×2500(mm)
WEIGHT	35000KG
COOLING FAN MOTOR POWER	16KW
WATER PUMP POWER	4KW
COOLING CAPACITY	763.2
COMPRESSOR RATED POWER	220KW
EVAPORATOR SIZE	2450×2250×9000(mm)
ICE CUTTING MOTOR POWER	5.5KW
CHILLED WATER PUMP POWER	11KW





TUBE ICE DIAMETER



28mm



35mm



38mm

APPLICATION OF TUBE LCE



Bagged Ice



Cold Drink



Hotel



Bar



Restaurant



Fast-food Restaurant



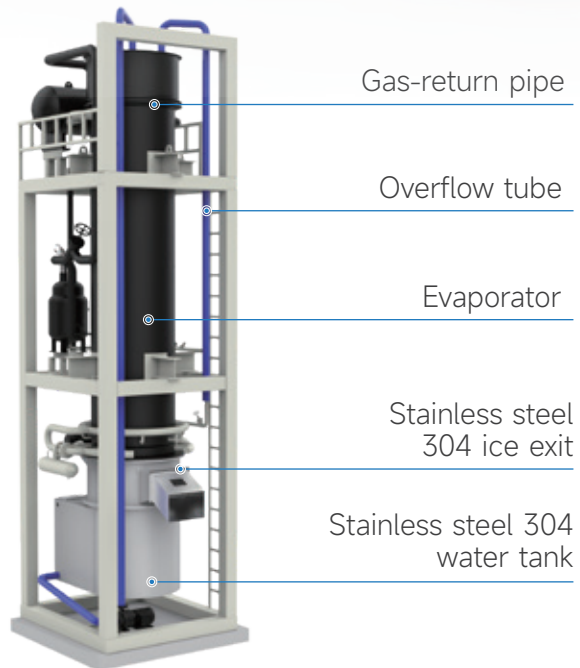
Cold Drink Store



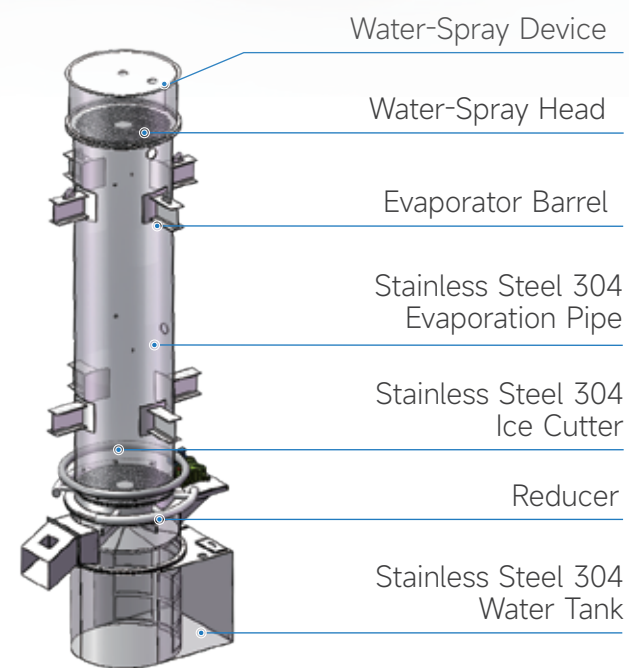
Fruit And Vegetable Supermarkets



Seafood Preservation



Evaporator Exterior



Evaporator interior

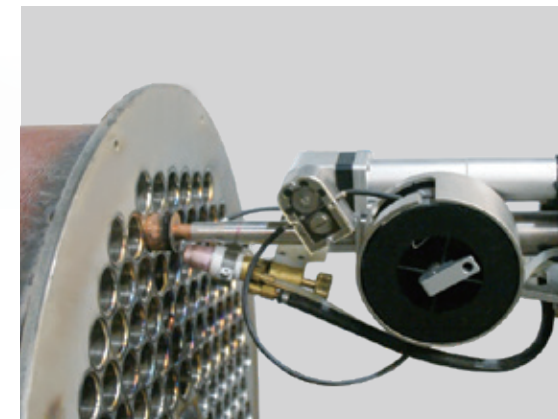
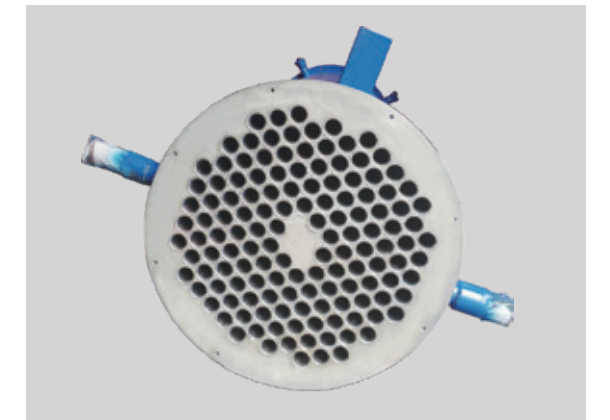


LCE MAKING TUBE FOR TUBE ICE MACHINE

Adopt imported stainless steel 304 tube ice, they are the edible standard material so it makes sure the sanitary and health of the ice. Stainless steel 304 has the features of corrosion resistance, heat resistance, resistance to stamping, bending resistance and long lifetime. There are three external diameter for option: 22mm, 28mm and 35mm.

WELL-WELDED EVAPORATOR

Put the stainless steel tube inside the evaporator round hole, use the intelligent welding to weld. The purpose of welding: the refrigerant goes inside the shell pass, the ice-making water goes inside the tube pass, the welding junction is to separate the refrigerant and ice-making water thoroughly. It can prevent the water from going into the refrigeration system and make sure it can make the ice smoothly.

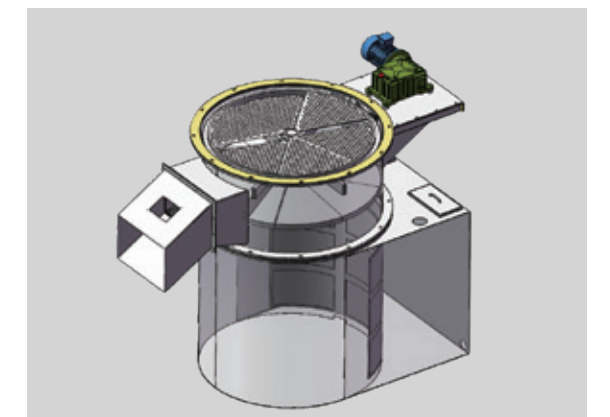


WELDING FOR EVAPORATOR

We adopt the latest intelligent welding technology, it makes sure the water and the refrigerant are separated thoroughly. It prevents the manual welding that may bring manual error, so that the equipment will be more secure.

LCE MAKING TUBE FOR TUBE ICE MACHINE

Ice Cutter Use stainless steel 304 material, water will become ice inside the stainless steel tube. The motor will rotate, then the ice will fall down. When the ice falls down, the ice cutter will cut the ice.





Reduce running costs with MYCOM compressors



L-SERIES : SMARTEST AMMONIA PISTON COMPRESSOR

1. Compact Design

- Small dimension and less weight
- High speed design
- Internal hydraulic connections

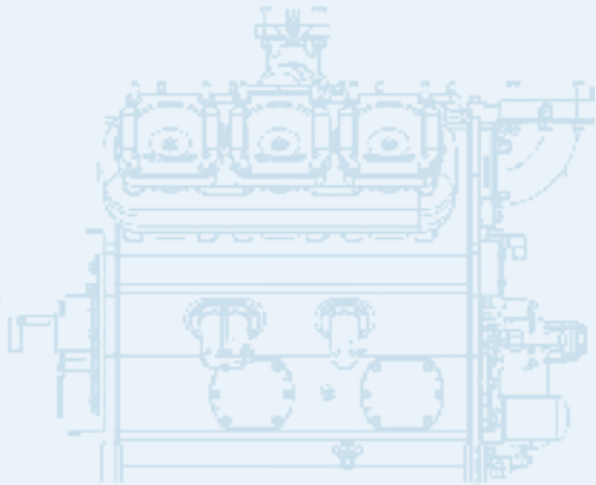
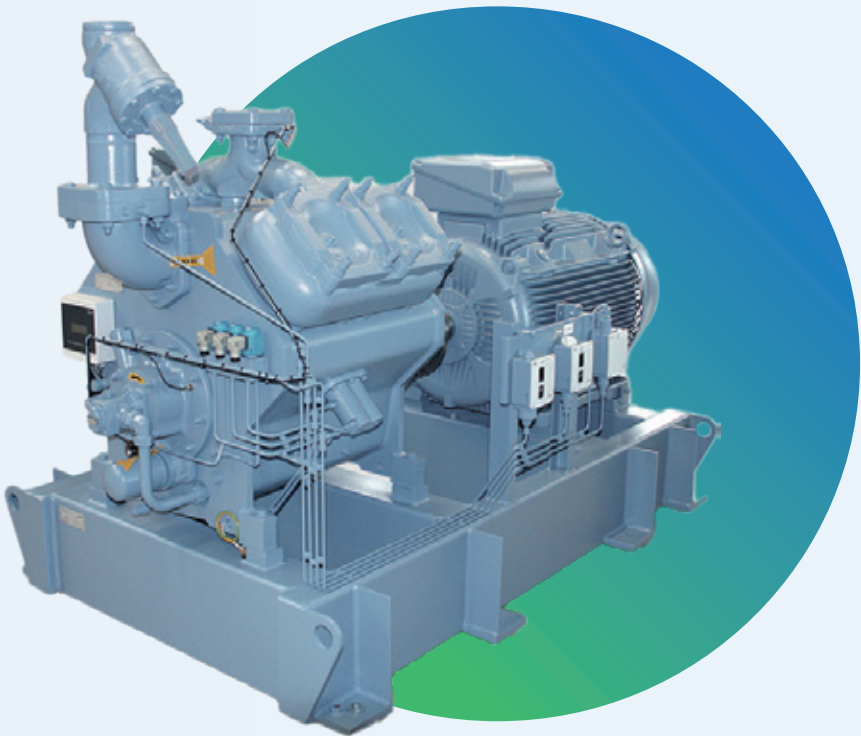
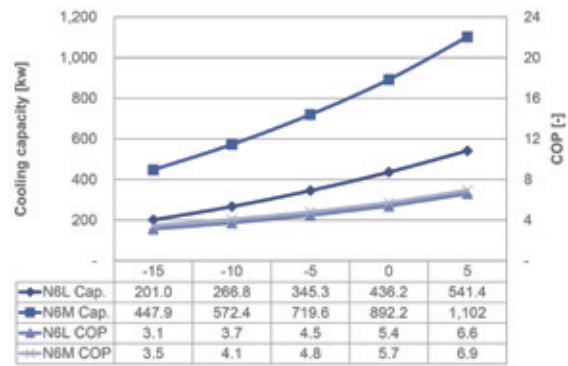
2. Hige Efficiency

- Three ring piston system
- Aluminum alloy connecting rod

3. Low Maintenace Cost

- Less replacment parts
- Built in cleanable filters
- Sleeve type main buhs and thrust bearing

EFFICIENCY



GEA GRASSO SCREW COMPRESSORS



GEA GRASSO PISTON COMPRESSORS

Pioneering designs of welded steel compressor casings and insulated cylinder heads are crucial. About the thermodynamic advantages of the new GEA Grasso V. The compressor is on with the best proven component.The result is that GEA has created the most efficient reciprocating compressor in the industry

SINGLE STAGE MODELS

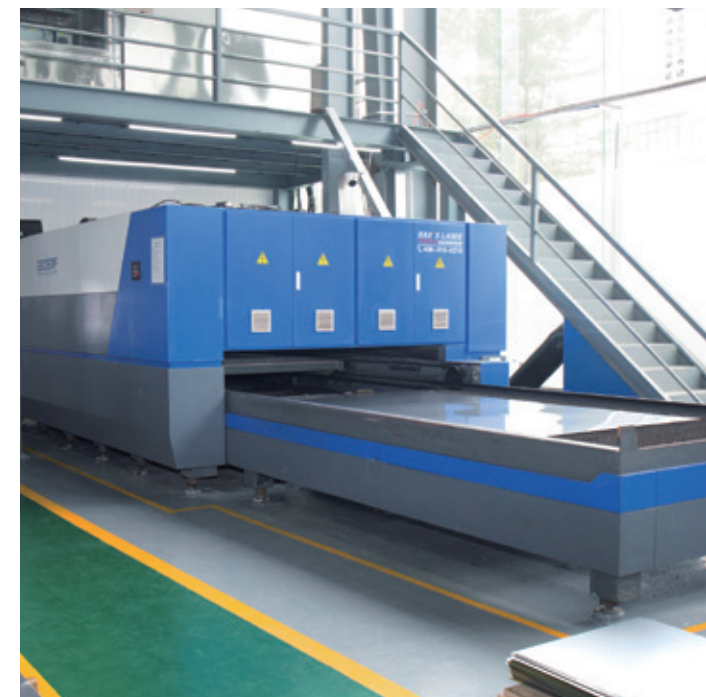
Modelle	Hubvolumen* (m³/h)	Anzahl der Zylinder	Drehzahl min. -¹	Kälteleistung (kW)** NH₃		Abmessungen (mm)			Gewicht (kg)
				-10/+35°C	0/+40°C	L	B	H	
GEA Grasso V300	290	4	1.500	155	237	882	933	922	575
GEA Grasso V450	435	6	1.500	233	355	1.076	933	922	751
GEA Grasso V600	580	8	1.500	310	474	1.363	933	922	1.042
GEA Grasso V700	637	4	1.200	367	549	1.062	1.076	1.013	794
GEA Grasso V1100	955	6	1.200	550	823	1.306	1.076	1.013	1.054
GEA Grasso V1400	1.274	8	1.200	734	1.098	1.666	1.076	1.027	1.495
GEA Grasso V1800	1.592	10	1.200	917	1.372	1.909	1.076	1.027	1.725

PRODUCTION WORKSHOP



EQUIPMENT ASSEMBLY 7000m²

Refrigeration unit system assembly
equipment external wiring and
debugging equipment cleaning
packaging and delivery



WORKSHOP #1 4000m²

Welding and finishing production of sheet
meta frame structures



WORKSHOP #2 2000m²

Researches and develops the production and
debugging of new models



WORKSHOP #3 4000m²

Production of automatic production lines such
as food processing and high-end ice



THREE WAREHOUSES 3000m²

Storage of equipment accessories and finished
products

AUTOMATIC PACKAGING SYSTEM



Technical Data

Model	API 100	Film Thickness	≥0.045mm
Capacity	10~25 bags/min	Air Pressure	≥0.6Mpa
Ice weight	2~15kg/bag	Power	3P/380V/50Hz
Film Type	HDPE/LDPE/LLDPE	Weight	800kg
Bag Sizes	Length: 400~850mm Width: 300~450mm	Size(LxWxH)	3750x1190x2270mm

01. WATER PROCESSOR

Reduce hardness to remove scale
Intelligent control with stable performance
Multi-stage filtration to soften water quality



02. ICE BIN

It is used to connect the "ice maker" and "packaging system" to buffer the ice discharged from the ice maker for a short time. It consists of an ice bucket and a screw machine.



03. EVAPORATIVE COOLING

Unique disk management design ability is low, Independent maintenance space for easy maintenance, Modular unit design, compact structure



04. PACK COLD STORAGE

Adopt frost-free quick-freezing refrigeration method, famous compressor brand and refrigeration accessories, automatic frosting, microcomputer intelligent control





AUTOMATIC PALLETIZING OF ICE BAGS

The slender design enables the five-axis robot to reach stack heights of over 2500 mm



Small Footprint



Short Cycle Time



Great Availability



Low Cost

KUKA

ROBOT KR120R3200-PA

Technical Data

Maximum range of motion	3195 mm
Rated load	120 Kg
Rated additional load for swivel / boom / arm	0 kg / 0 kg / 50 kg
Position repeatability (ISO 9283)	±0.06 mm
Number of axes	5
Floor area	830mm X 830mm
Weight	1075kg






ROBOT CONTROL CABINET KRC4

The KUKA KR C4 control system is the automation pioneer of today and tomorrow. It reduces integration, service and maintenance costs. At the same time, we will continue to improve the efficiency of the system and flexibility - thanks to common open industry standards.

The KR C4 integrates Robot Control, PLC Control, Motion Control (e.g. KUKA.CNC) and Safety Control in the software architecture. All control systems share a database and infrastructure. Thus making automation convenient and efficient - now and in the future.



CBFL AMMONIA SYSTEM SERIES TUBE ICE MACHINE

-  Produce medium and large-scale tube ice
-  Using MYCOM imported compressor and GEA Grasso piston compressor
-  Better cooling effect, more energy saving
-  60 tons,100 tons and other models daily output

Guangzhou Icesource Co., Ltd. is committed to the research, development and manufacture of ice-making equipment,masters the core technology of ammonia system tube ice machine manufacturing, has perfect product processing capability, strict product quality control, and provides customers with satisfactory products and service. We also provide one-stop solution for fully automated large-scale edible tube ice production line, reducing labor costs, improving production efficiency, and ensuring the clear of edible ice.

