



TUBE ICE MACHINE



Website

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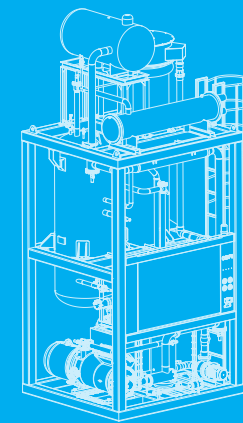
✉ info@icemakerchina.com 🌐 www.icesourcegroup.com

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

PRODUCT BROCHURE

leading edible tube ice plant
solution provider

Customers Benefit
From Icesource



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CBFI[®]



01

COMPANY INTRODUCTION

26,500m²
Modern production base

400⁺
Highly qualified talents
and skilled workers

70⁺
National authorized
invention patent

COMPANY PROFILE

 **2004**
Focus on R&D and innovation

 **2010**
CBFI established

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.

We have accumulated rich experience in equipment and engineering, and provide services to enterprise customers in more than 170 countries and regions around the world. Our products are widely used in multiple industries, and we always adhere to the core of "Customers Benefit From Icesource". We look forward to working with you to create a better future!



HONORS QUALIFICATIONS



UN supplier certificate



High-tech Enterprise (2024)



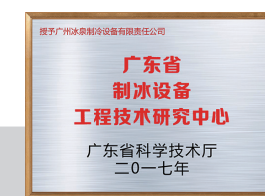
SMEs in Specialized New Sectors



ISO9001



CE certification



Ice Making Equipment
Technology Research Center



Excellent Enterprise
in Guangdong Province

02

PRODUCT INTRODUCTION

WHY CHOOSE TUBE ICE



MODERN ICE FACTORY

- One-touch ice making
- Ice tubes are clean and hygienic
- Less labour cost



SOLID & MELT-RESISTANT

- Crystal clear and evenly cut
- The melting speed is 40% slower than regular edible ice
- Even and efficient cooling
- Wide applications



HIGH PROFIT

- More productivity per unit area
- Best-selling edible ice in the global market
- Durable design no deformation for 30 years

TUBE ICE MACHINE R&D HISTORY

1

2004-2012

The launch of CBFI tube ice machine marks CBFI's progress in the ice making field. After continuous optimization, the tube ice machine has significantly upgraded its ice making efficiency and stability.

2

2013-2014

Launched the tube ice machine 2.0 upgrade plan, greatly improving production efficiency and intelligent operation level

3

2015-2018

We have developed tube ice machines with a daily output of 20, 30, 50 and 60 tons, A major breakthrough in large-capacity ice making technology, which is exported to East Asia's largest edible ice company, providing more efficient refrigeration solutions for global customers

4

2019-2022

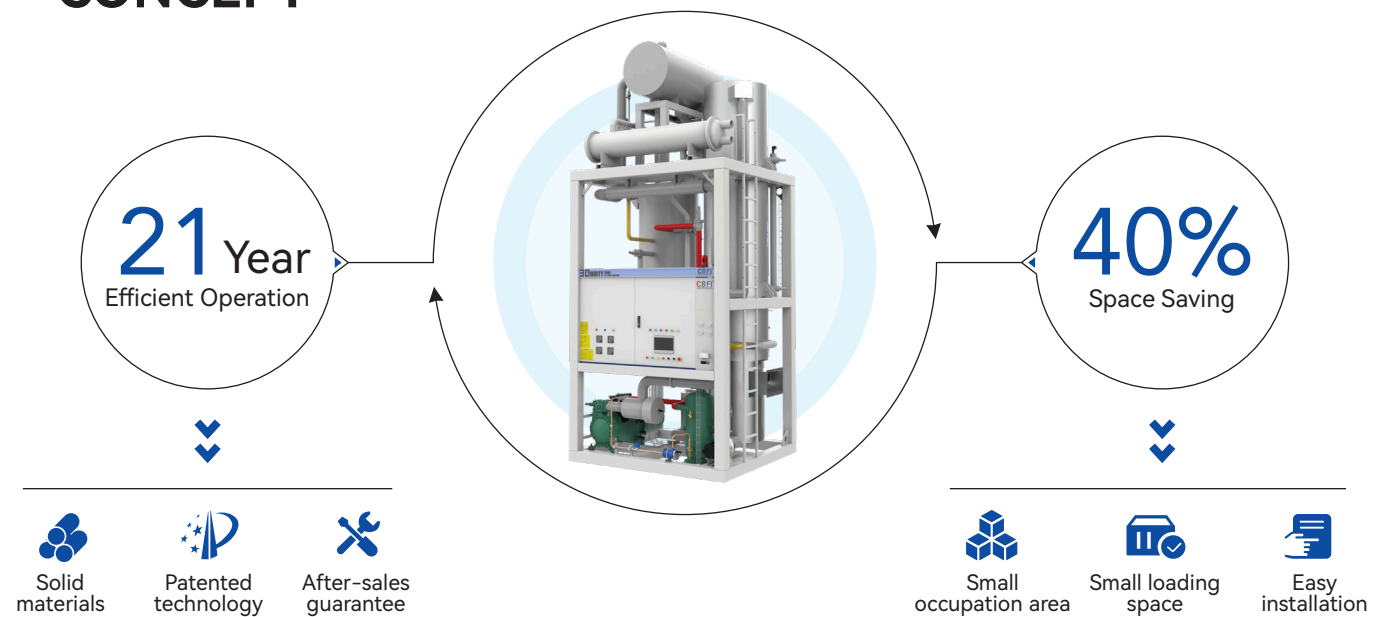
Targeting the high-end edible ice market, we launched a solid tube ice machine and won multiple invention patents. Launched a patented solid flat tube ice machine, Producing quality edible ice, CBFI machine won much welcome from customers

5

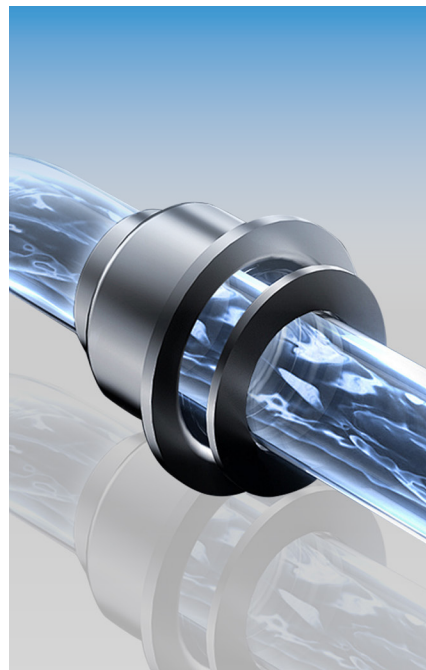
2023-2025

Launched a large integrated tube ice machine with a special integrated design and highly automated features, greatly improving space utilization. refreshed the industry record, developed a single tube ice machine with a daily output of 100 tons, bringing unprecedented economic benefits to users

DESIGN CONCEPT



PRODUCT ADVANTAGES



Fast installation and quick production

- Integrated structure, can be put into use with simple connection
- Reasonable layout of wires and pipes, and adequate protection measures
- Humanized layout, easy to operate



Energy saving over 30%

- Patented flat wall heat exchange and circulation. Hot gas ice harvesting technology, energy saving over 30%
- Liquid storage constant pressure design, refrigerant charge 16% less than conventional equipment



Tube Ice are uniform and transparent

- Special half-full liquid evaporator
- Overflow water supply design, more stable liquid level
- Unique gas-liquid separator

PROCESS UPGRADE



Smart Control

Visual operation monitoring and real-time warning
Multiple automatic protection systems
EU standard circuits and safety switches



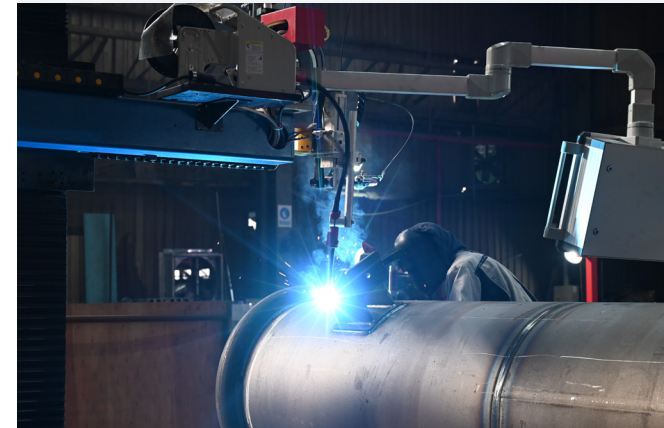
Durability Upgrade

Patented ice cutting mechanism, large and stable output torque
High-efficiency horizontal gas-liquid separator, capable of handling gas-liquid separation under various complex working conditions



Stable Production

Patented hydraulic expansion technology of the evaporator barrel ensures uniform ice formation
High-efficiency compressor and well-designed heat exchanger



Process System Upgrade

Standardized production process and testing management system
High-precision automated processing and assembly system
High-density insulation technology and high-quality welding technology

PARTS UPGRADE



01

Gas-liquid separator

With multiple gas-liquid separation effects-higher separation efficiency



02

Regenerative heat exchanger

Increase return air superheat, reduce liquid temperature, and improve energy efficiency



Accumulator

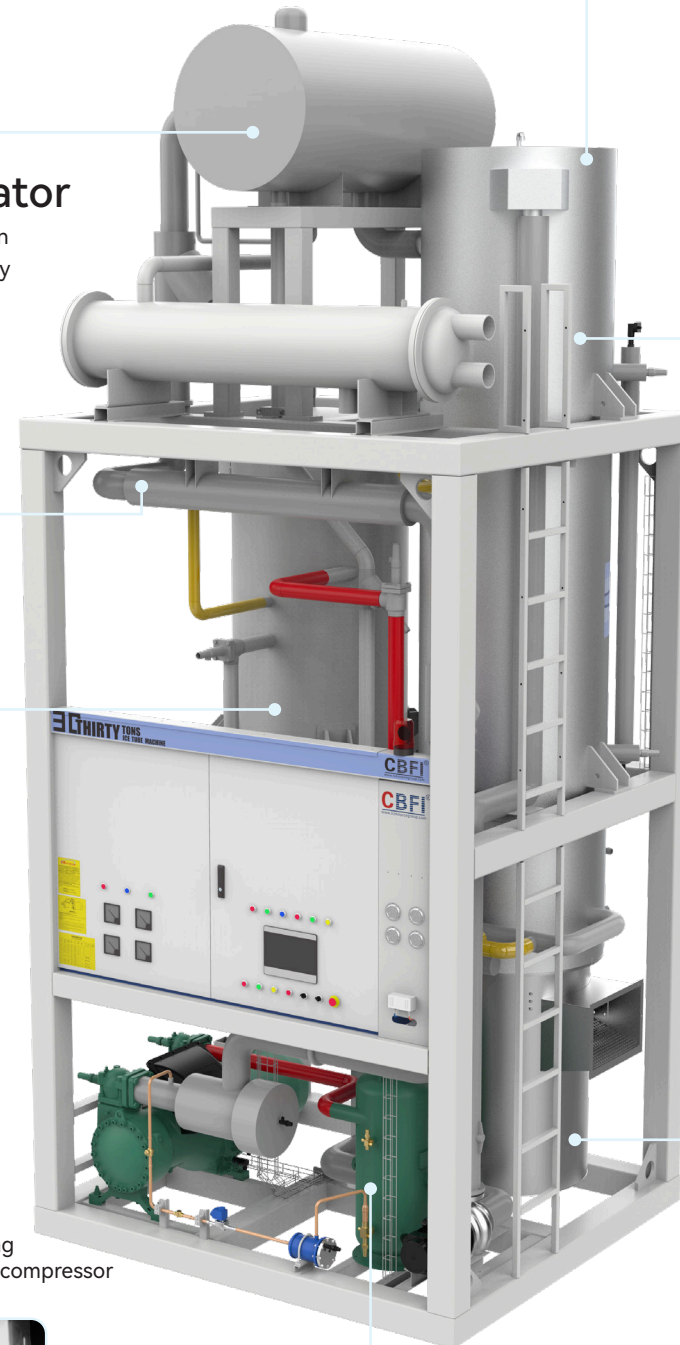
Innovative patented energy and heat storage design reduces de-icing time by 80%

03

Centrifugal oil separator

Equipped with oil heating, oil temperature sensor and oil level detection, it provides sufficient lubricating oil to the compressor to ensure safe operation of the compressor

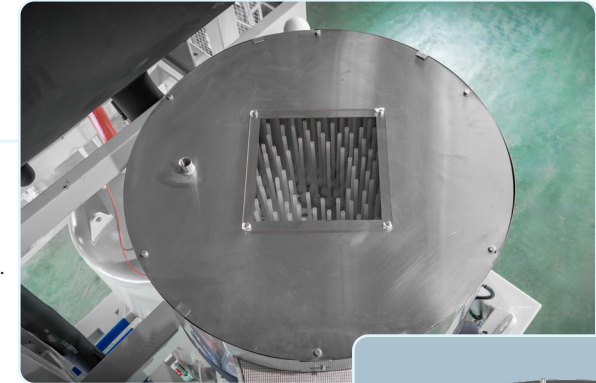
04



05

Water Sprayer

Overflow water supply design makes ice formation more uniform and transparent.



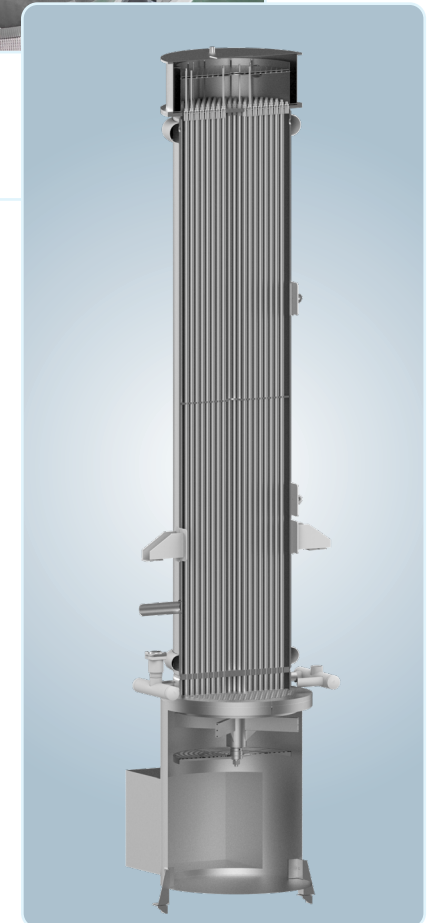
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Evaporator

The specially designed half-full liquid evaporator is used to maximize the use of the evaporator's surface area for heat exchange and improve the cooling effect.



In order to ensure smoother de-icing, the evaporator adopts a layered design of the lower partition and a unique mechanical strength expansion technology to ensure the sealing between the upper and lower layers of the partition.



07

Ice cutting device

The transmission gears are all made of stainless steel one-piece molding material, which effectively ensures the accuracy and stability of the transmission gears.

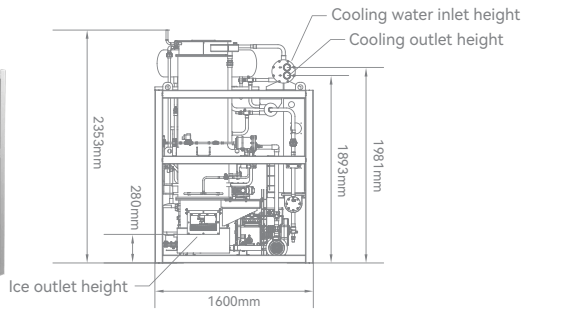




PARAMETERS

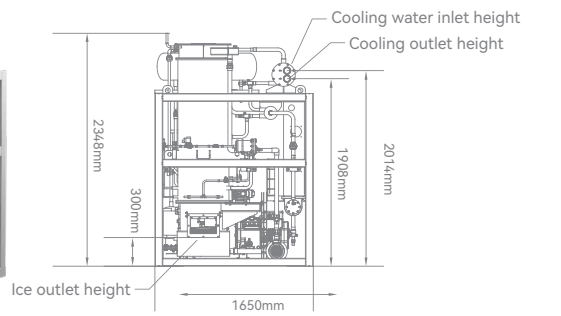
▶ TV30

Output	3 tons/24 hours
Total power	13.69KW (220V)
Ice making water volume	3.15 tons/day
Cooling water volume	2.4 tons/day
Weight	1200KG
Dimensions	1700x1600x2353 (mm)



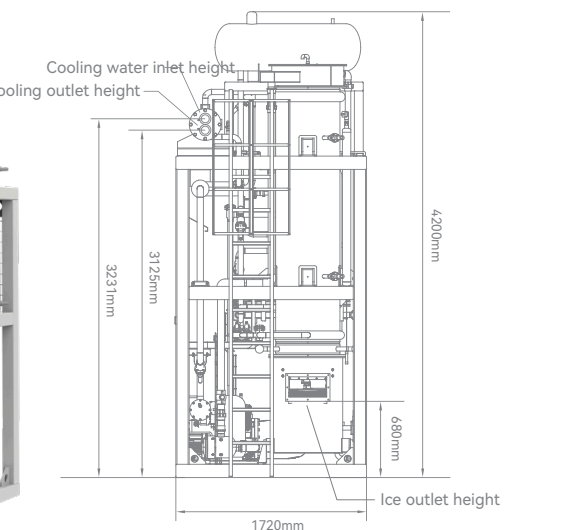
▶ TV50

Output	5 tons/24 hours
Total power	25.47KW (220V)
Ice making water volume	5.25 tons/day
Cooling water volume	4.8 tons/day
Weight	1800KG
Dimensions	1800x1650x2348 (mm)



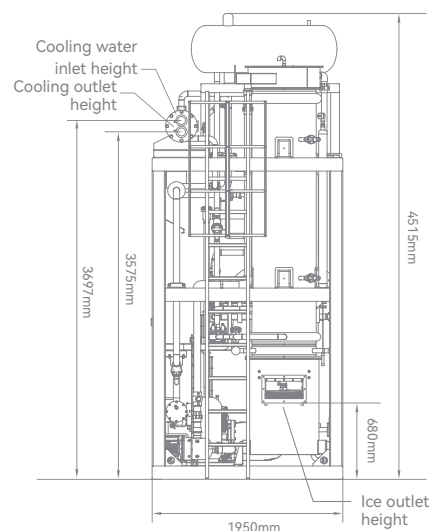
▶ TV100

Output	10 tons/24 hours
Total power	48.3KW (220V)
Ice making water volume	10.5 tons/day
Cooling water volume	7.92 tons/day
Weight	4200KG
Dimensions	2030x1720x4200 (mm)



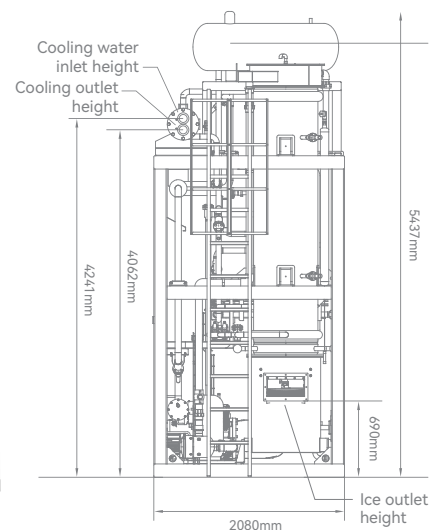
▶ TV150

Output	15 tons/24 hours
Total power	71.1KW (220V)
Ice making water volume	15.75 tons/day
Cooling water volume	12.75 tons/day
Weight	4800KG
Dimensions	2170x1950x4515 (mm)



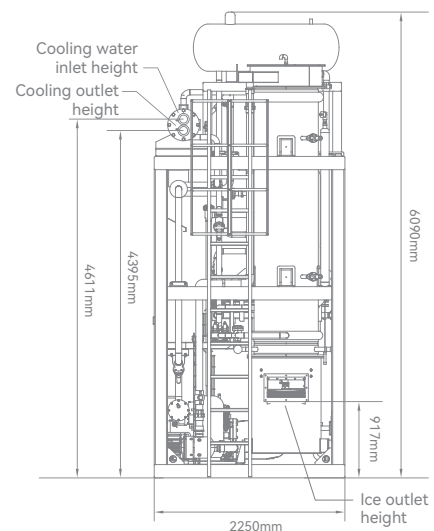
▶ TV200

Output	20 tons/24 hours
Total power	100.35KW (220V)
Ice making water volume	21 tons/day
Cooling water volume	15.84 tons/day
Weight	6200KG
Dimensions	2240x2080x5437 (mm)



▶ TV300

Output	30 tons/24 hours
Total power	131.4KW (220V)
Ice making water volume	31.5 tons/day
Cooling water volume	19.92 tons/day
Weight	9000KG
Dimensions	2500x2250x6090 (mm)



WORKING CONDITIONS DESCRIPTION



Exceeding standard working conditions:
When the water supply temperature and ambient temperature are lower than the standard working conditions, the output is 100%, with an increase of 5-10%.



Standard working conditions:
Water supply temperature 21°C, ambient temperature 25°C, output 100%
(Affected by water quality and other factors, there may be a 2% error)

Ambient temperature	Water supply temperature	
≤25°C	≤21°C	≥100% (+5%-10%)
25°C	21°C	≥100% (±2%)
26-35°C	20-28°C	≥92%
35-39°C	28-30°C	≥85%
40-45°C	30-35°C	≥80%
46-50°C	36-40°C	≥75%

*The following data is comprehensive data obtained from multiple tests and is for reference only

OPERATING CONDITIONS

- ① The ice machine is placed on a base of a certain height, and the base has good drainage around it. The base plane of the unit and the corresponding base plane should be smooth and flat;
- ② Before making ice again after shutdown, the system must be powered on for more than 8 hours, and the oil heater must heat the lubricating oil to 45-50°C (heat until the oil level can be observed in the sight glass);
- ③ The unit power supply must comply with the following regulations:
Rated power supply: three-phase AC380V, 50Hz(the corresponding voltage can be used according to customer needs, such as 3P-AC220V, 60Hz)
Voltage variation range: rated voltage ±10% or less;
Phase voltage imbalance: ±2.5% or less;
Frequency variation: rated frequency ±2% or less;

*Note: If you are not sure that the power supply meets the above conditions, please select the corresponding protector, otherwise the compressor will be damaged



SUPPORTING EQUIPMENT

ITEM	PARAMETER
Type	500kg Combined ice storage hopper
Supporting tube ice machine model	1-10 tons
Device size	1620x1520x1220mm
Ice storage capacity	500±100kg
Ice output	≥7 tons/hour
Distance from ice outlet to ground	690mm
Type	1000kg Combined ice storage hopper
Supporting tube ice machine model	10-30 tons
Device size	2020x1620x1420mm
Ice storage capacity	1000±200kg
Ice output	≥7 tons/hour
Distance from ice outlet to ground	725mm
Type	2000kg Combined ice storage hopper(Twin screw)
Supporting tube ice machine model	30-80 tons
Device size	2200x2000x2000mm
Ice storage capacity	2000±300kg
Ice output	≥16 tons/hour
Distance from ice outlet to ground	1045



500kg Combined ice storage hopper



1000kg Combined ice storage hopper



2000kg Combined ice storage hopper(Twin screw)

ITEM	PARAMETER
Type	ZL270 Packaging Machine
Capacity	12~18 bags/minute
Ice weight	3~5kg/bag
Bag size	Length: 250~350mm Width: 240mm
Film thickness	≥0.045mm
Power	3P/380V/50Hz
Equipment weight	500KG
Equipment size	1850x1440x3660mm



Vertical automatic baling machine



Horizontal automatic baling machine

ITEM	PARAMETER
Type	API 100
Capacity	10~25 bags/minute
Ice weight	2~15kg/bag
Bag size	Length: 400~850mm Width: 300~450mm
Film thickness	≥0.045mm
Power	3P/380V/50Hz
Equipment weight	800KG
Equipment size	3750x1190x2270mm

ITEM	PARAMETER
Type	2 cups
Capacity	600~1200 cups/minute
weight	160/220g
Cup size	Standard 95 cups
Power	1.5kw
Equipment weight	1100KG
Equipment size	5000x1180x1920mm



Automatic ice cup production line

PROJECT SOLUTION

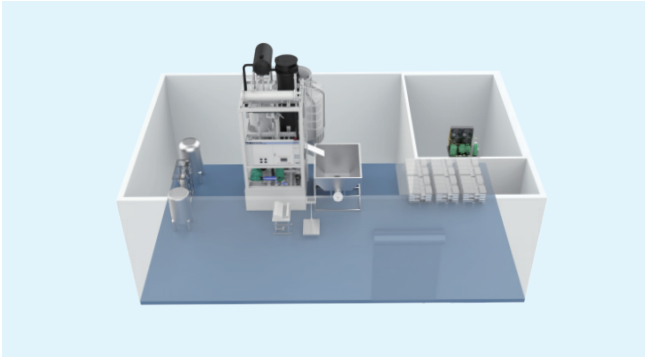
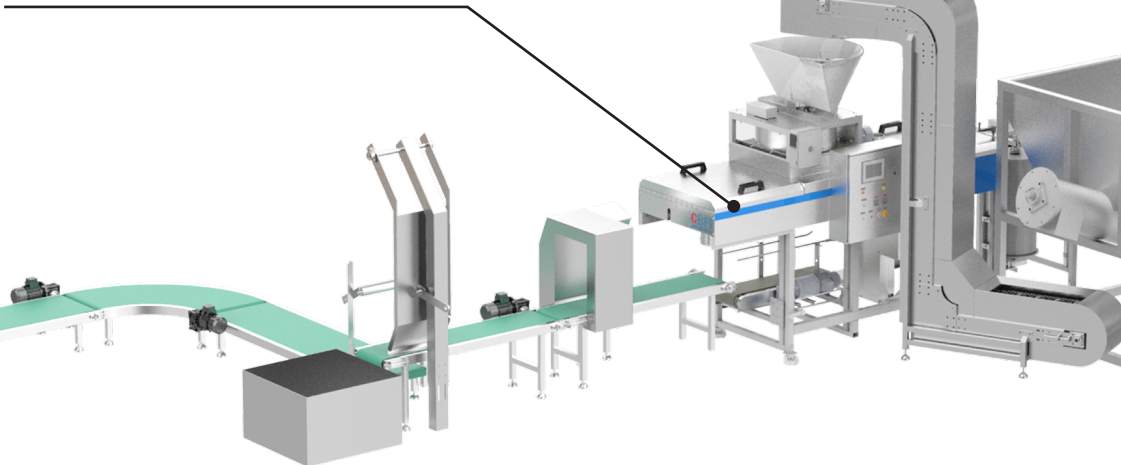
CBFI has many years of experience in the production of edible ice equipment and feedback from market research. According to the production process specifications of edible ice and the requirements of edible ice "SB/T 10017-2008", we have specially designed the latest QC ice factory plan template to improve the safety of edible ice, eliminate ice pollution from the source, make customers' ice factories regular, and make users feel safe and assured to eat, contributing to the standardization of the edible ice market!



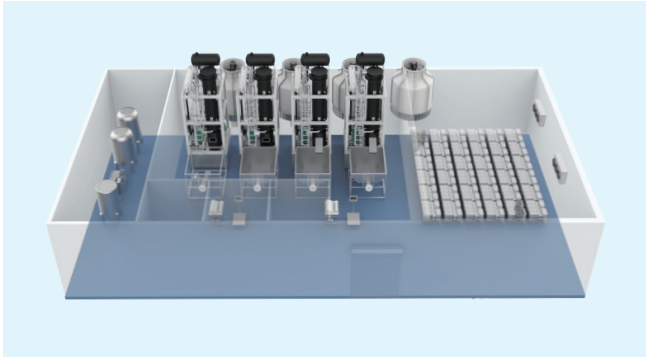
Automatic palletizing system



Automatic packaging system

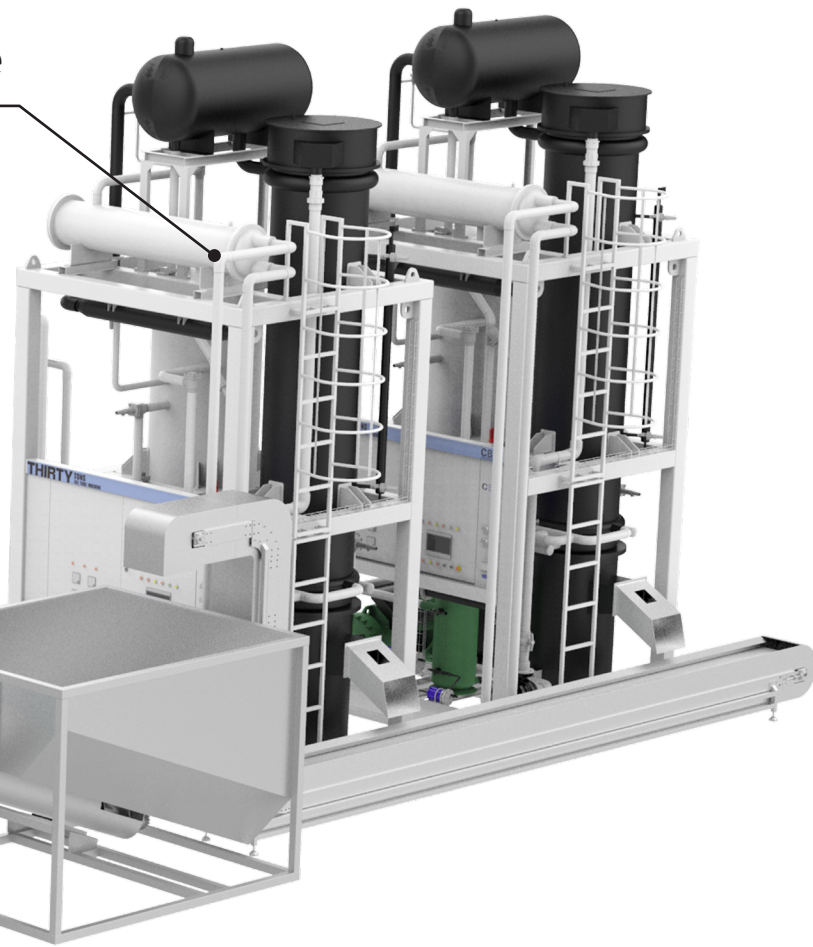


30 tons semi-automatic tube ice factory



120 tons semi-automatic tube ice factory

Tube ice machine



We can provide engineering solutions that exceed expectations in terms of service, quality and long-lasting ice production

INTELLIGENT BUSINESS
ONE-STOP SERVICE TO SOLVE PROBLEMS FOR YOU

03

CASE DISPLAY

COOPERATION CASE



15 TONS EDIBLE ICE FACTORY

Project introduction: In response to the coastal customers' demand for large amounts of ice in fisheries, CBFI provided a tube ice machine installed on the ice storage tank, providing an efficient and convenient solution.



90 TONS EDIBLE ICE FACTORY

Project introduction: According to the local hot and humid climate, higher requirements are placed on energy efficiency and stability. Combining the advantages of CBFI's low energy consumption and high output, a set of high-efficiency tube ice plant solutions is planned.



40 TONS EDIBLE ICE FACTORY

Project introduction: Based on the hot and humid climate and active catering and tourism industry in the local area, there is a huge demand for edible ice. CBFI built a high-efficiency edible tube ice production base with a daily production capacity of 40 tons for local customers.



STRATEGIC LAYOUT



With more than 21 years of R&D experience, we are committed to becoming a world-class edible tube ice plant solution service provider

Covering nearly 100 countries and regions on five continents

100+ COUNTRIES



GLOBAL
1700⁺

Edible Ice Plant
Project Experience

04

DELIVERY SERVICE SYSTEM



DESIGN

- High-efficiency solution technical services
- Full-process energy-saving technical services
- Customized solution design services



DELIVER

- Global brand supplier
- Scientific quality management system
- Lean production
- Informatization and industrialization
- Integrated management system



INSTALLATION

- Scientific RSEPC management model
- Project-specific on-site manager
- Flying inspection system to check project quality



AFTER-SALES

- Five-star after-sales service certification
- Decades of experience in global door-to-door service



AFTER-SALES SERVICE COMMITMENT

1



Five-star after-sales service certification

2



Efficient response

3



International high-end brand parts

4



One-to-one service

5



Global door-to-door service

6



On-site installation and training

7



Remote and continuous guidance

8



Customer file creation and return visit



170

Customers from multiple countries and regions receive service assistance