

## B T www.icesourcegroup.com Guangzhou Icesource CO., Ltd. Large Edible Cube Ice Machine

Be engaged in general equipment applications in low temperature technology and developing of exhaust heat utilization technology in refrigeration system.





Tel: +86 20 3919 9220 Fax: +86 20 3919 9299 E-mail : sale@icemakerchina.com Web. :www.icesourcegroup.com Address : Building 101, No.44, Qianfengbei Road, Shiqi Town, Panyu District, Guangzhou, China.





CBFI Large Edible Cube Ice Machine Your First Choice to build an edible ice factory





Cube ice has the smallest contact area with frozen products during all types of ice in present market. Because of its shape is square, hence the name Cube Ice.

> Ice Mold Size 22×22×22mm、29×29×22mm、38×38×22mm

Cube ice is crystal, clean, sanitary, and with best melting resistance, which suitable for drinks modulation, food decoration, food preservation, and so on. So cube ice is mainly used as edible ice.

### **Cube Ice Application**

Hotel, Bar, Banquet Hall, Western Restaurant, Fast Food Restaurant, Convenience Store, Cold Drinks Shop, KTV, Breakfast Restaurant, Western-style Fast Food, Beer House, etc where need ice.

### **Edible Cube Ice**

### **Features**



# **HISTORY BACKGROUND OF CUBE ICE MACHINE**

1968

2008

2025

#### 1902 Small Capacity Cube Ice Machine

Founded in 1902 in Wisconsin Lake, Manitowoc became the largest manufacturer of residential ice machines in USA market. 1950

### Scotsman Cube Ice Machine

Founded in 1950, Scotsman cube ice machine has long life span with stainless steel structure and meet international safety and health standards in 1964manufacturing, with advanced electronic P.C. board to control ice making process, with automatic water circulation clean system, with new type refrigerant.

### **Revolutionary Breakthrough**

In 1968, based on the revolutionary breakthrough on designing of evaporation pan of ice machine, Manitowoc became the worldwide leading brand 2005 in ice machine field.

#### **Beijing Olympic Games** Strategic Partners

In 2008, strategic partner of Guangzhou Icesource Refrigeration Equipment Co., Ltd. became designated suppliers of edible cube ice of the Olympic Games, the supplier had several 5 tons 2013 large edible cube ice machine in Beijing.

### Unwavering pursuit of high quality

We have already sold products and provided service to worldwide customers who come from over 130 countries, and gained customer's acclaim over 99%. It makes us more confident, more determined for product research and development, to strive for higher quality.

## **High Level Refrigeration Technology**

In 1964, Manitowoc enters catering equipment industry through the acquisition of the brand and manufacturing right of Kodiak ice maker. At that time, Manitowoc had developed high level refrigeration technology as a residential refrigerator manufacturer.

### The world first large capacity cube ice machine from CBFI

In 2005, CBFI pioneering solved the problem of cube ice machine with large capacity and manufactured the world first 3 tons cube ice machine successfully by developing new refrigeration system.

#### **CBFI Large Capacity Cube Ice Machine**

Till 2013, Guangzhou Icesource Co LTD (CBFI) had made two times technological innovation on edible cube ice machine after several years of precipitation, only for serving customer better. Now CBFI large capacity cube ice machine have been sold all around the world and achieve wide acclaim.



# PRODUCT **ADVANTAGES**

- has core invention patents
- circulating hot air ice harvesting technology
- thickness, stable ice removal
- edible ice in all aspects

CBFI is the creator of large-scale edible cube ice machines and

Using self-developed flat wall liquid film heat exchange and

High production capacity, low power consumption, uniform ice

Provide a one-stop solution for fully automated large-scale edible cube ice production lines, reduce labor costs, improve production efficiency, and ensure the safety and hygiene of



# Designing structure drawing of cube ice machine

Large capacity edible ice machine applies the overall design. Advantage:

- . Ambient temperature self-adjust system, ensure ice thickness won't change because of ambient temperature difference.
- . Proprietary design of refrigeration system, gains government patent right: ZL201420070472.X.
- . Power consumption is 80kW.H per 1 ton ice.
- . Modular design with small area occupy, can easily dock with the ice packaging system.

#### Control Display Screens



### 3D diagram of cube ice machine

CBFI large cube ice machine is the first fully automatic machine that adopt the four advanced technologies: automatically adjusts the ice thickness, ambient temperature self-adaption, automatically supply ice-making water after ice harvest and auxiliary type condensasing pressure stable system. The production process is fully automatic, cube ice shapes are with uniform appearance and without ice thickness difference.The proper use of the two patent technology: flate plate heat exchange technology and circulating heat ice-dropping technology provides sufficient technical guarantee for products going global.



**CBF** 

## Cube Ice Machine

The edible cube ice machine daily production capacity can be 1 ton, 2 tons, 3 tons, 5 tons, 10 tons, 15 tons and 20 tons. The non-standard cube ice machine can be customized according to clients' requirement.







#### CV1000 1 ton Cube Ice Machine

Ice making capacity : 1ton/24h Compressor rated power : 3KW Power of circulating water pump: 0.37KW Power of cooling water pump: 1.1KW Power of cooling fan: 0.18KW Ice making machine size: 1800x1000x1700 (mm) Weight: 800KG



#### CV2000 2 tons Cube Ice Machine

Ice making capacity: 2Ton/24h Compressor rated power : 6KW Power of circulating water pump: 0.37KW Power of cooling water pump: 1.5KW Power of cooling fan: 0.37KW Ice making machine size: 1630x1600x1706 (mm) Weight: 1000KG





#### CV3000 3 tons Cube Ice Machine

Ice making capacity: 3Ton/24h Compressor rated power : 9KW Power of circulating water pump: 0.37KW Power of cooling water pump: 1.5KW Power of cooling fan: 0.56KW Ice making machine size: 1980x1630x1860 (mm) Weight: 1200KG







#### CV5000 5 tons Cube Ice Machine

Ice making capacity: 5Ton/24h Compressor rated power : 18.25KW Power of circulating water pump: 0.55KW Power of cooling water pump: 2.2KW Power of cooling fan: 1.5KW Ice making machine size: 2890x1780x1860 (mm) Weight: 1600KG



# Cube Ice Machine



Ice making capacity : 10Ton/24h Compressor rated power : 37.5KW Power of circulating water pump: 1.1KW Power of cooling water pump: 4KW Power of cooling fan: 1.5KW Ice making machine size: 5730x1780x2000 (mm) Weight: 3000KG





#### CV20000 20 tons Cube Ice Machine

lce making capacity : 20Ton/24h Compressor rated power : 58.4KW Power of circulating water pump: 4.4KW Power of cooling water pump: 5.5KW Power of cooling fan: 2.2KW Ice making machine size: 7100x2250x2300 (mm) Weight: 5000KG







### Edible Cube Ice Machine Plant Design

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 .

### The solution of edible ice cube machine plant with QC in Malaysia

One of Malaysian company is a giant to produce and supply edible ice in locally. To meet growing market demand, they start to look for refrigeration equipment manufacturer. Guangzhou Icesource Co.,Ltd provide a complete solution to build a newest edible ice plant.Standard equipment : Edible ice cube machine CV5000, 4 sets; Water purification equipment ;

Ice Storage Room one set;

Other supporting facilities : men' s and women' s dressing rooms, packaging material room, laboratory, water purification room, disinfection room, disinfection equipment, low-voltage distribution room, and refrigeration system room.To improve production efficiency, there has options equipment: water chiller that match with refrigeration system (it increase 10% production), matching ice storage device with conveyor belt and automatic ice packing machine.





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# Virtual Simulation Diagram Of Cube Ice Machine Factory



. Cooling tower

. Cold room refrigeration unit

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### Professional design improves refrigeration efficiency and ensure machine running stably



• The HOT heat exchanger is patented design of Guangzhou Icesource. By adopting this design, the temperatures of the refrigerant become lower after they go through the Expansion valve, improving the refrigeration efficiency.

• The HOT heat exchanger makes the refrigerant evaporate again and make sure the refrigerant be gas completely before entering compressor and avoid The Liquid Hammer Phenomenon caused by liquid refrigerant entering compressor.



#### Anti-vibration system

Shock proof pipe is fixed in front of the copper pipe and evaporator, to avoid refrigerant leakage due to crack or fracture of copper pipe during transportation and machine using.

#### Intelligent ice packing system

Guangzhou Icesource intelligent ice packing system reduces the cost on ice

packing including manpower, material etc, . Indeed achieve unmanned production.

This intelligent ice packing system is a complete production line.

Full-automatic ice packing production line (Intelligent packing system) includes:

Ice storage system, cylindrical selector, quick freezing tunnel, ice bin, Z-type elevator, packing system.



Shockproof foot cushion Shockproof foot cushion is fixed between water cooling condenser and compressor to reduce compressor vibration.



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#### Intelligent packing and Ice storage system

Cube Ice Machine use ice screw to deliver ice into ice bin and stored inside. Ice can be packed after storing in some amount. The ice will be output through ice screw conveyor which can be controlled by human and packed in different weight according to requirement. Packed ice would be stored in cold storage room. All materials contact ice will use 304 stainless steel which ensure the ice is clean, sanitary and healthy. Stainless steel 304 has long service life for its good corrosion resistance, heat resistance, stamping resistance and bending resistance.

### **1000L Water Filter**

#### Special pre-cooling unit for ice making system

Special pre-cooling unit for ice making syster Reduce the water temperature to 7 to 10 degree, shorten ice making time. 4 sets CV5000 (5 ton cube ice machine) has 10% capacity improvement per set.  $5 \times 10\% \times 4 = 2$ , which can provide 2 tons ice more for customer every day. Feature of low temperature water chiller:

- 1. Easy installation and save time.
- 2. Shorten ice making time and improve ice making efficiency.
- 3. Adopting plate type heat exchanger which has long service life, good heat conductivity, air tightness, tear resistance and aging resistance.

### The evaporator processing craft make the life span much longer.

Ice maker adopts alloy solder containing 42% silver and weld in one time forming by use of high temperature oven. Guangzhou Icesource ice mould surface can resist 60% concentrated nitric acid corrosion, which ensures ice making machine long-term and stable running performance. Ice making water flows from the top to the bottom of the evaporator during ice making. And after long time running, some dirt may form in the surface of the ice maker due to different water conditions. This is normal phenomenon and regular cleaning is necessary. People usually use acidic liquid cleaner to clean the ice maker. The common ice maker will be corroded while contact with the acidic chemical material. However Guangzhou Icesource's anti-corrosion ice maker can avoid all the corrosion phenomena which greatly increases the service life of the ice maker and assure the production of edible ice in safe, sanitary and healthy.

### Coating anti-corrosion comparing testing

Using 70% concentrated nitric acid to test the anti-corrosion quality of Guangzhou Icesource and other suppliers' ice mould. Other supplier's ice mould reacted violently and get rusty easily when contact with concentrated nitric acid, while ice mould of Guangzhou Icesource don't have any influence.

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**CBF** ICEMACHINE

### Edible cube ice

Cube ice is transparent, crystal, clean and sanitary. It is the best choice for cold drink

## Application

Cube ice has good melting resistance, and widely used in drinking modulation, decoration, food preservation, hotels, bars, banquet hall, restaurants, fast food shops, convenience stores, cold drink shop, KTV, western fast food, breakfast shop, etc. places that need ice.























lced







Fast-food shops





Bar

Seafood



Cold Drinking Shops





Hotels



Supermarket



### Edible cube ice machine domestic customer case

### Edible cube ice machine international customer case

CBFI Edible cube Ice Machine, has exported to many countries and regions and got good reputation from customers in domestic and abroad !



6 sets 10 tons Cube Ice Machine Case



4 sets 10 tons Cube Ice Machine Case



4 sets 5 tons Cube Ice Machine Case



10 tons Cube Ice Machine Case



4 sets 5 tons Cube Ice Machine Case





10 tons Cube Ice Machine Case



4 sets 5 tons Cube Ice Machine Case



3 tons Cube Ice Machine Case





3 tons Cube Ice Machine Case



7 sets 5 tons Cube Ice Machine Case





5 tons Cube Ice Machine Case



2 sets 3 tons Cube Ice Machine Case



2 sets 5 tons Cube Ice Machine Case



7sets 3 tons Cube Ice Machine Case



3 sets 5 tons Cube Ice Machine Case



2 sets 10 tons Cube Ice Machine Case

2 sets 10 tons Cube Ice Machine Case

