Customers Benefit From Icesource



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— Automatic Block Ice Machine —

Guangzhou Icesource CO., Ltd

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Block Ice

The biggest ice size, the smallest contact area with the outside world, and difficult to melt.

Block Ice Size

Block ice size can be customized depend on bucket size. It can also crush according to different requirements then applied in different industrial area.

Ice Feature

Block ice with the feature of large ice size, large refrigeration storage, melting resistance, low cost and easy operation. After crushing, block ice contact area with goods will enlarge, which can quickly cool down the food, slow down food deterioration, and prolong the preservation time.

Block Ice Application

Ports, ice factories in docks, food processing, aquatic products preservation, cooling, longdistance transportation, aquatic products, food preservation, cooling in special fields, ice sculpture, ornamental use, etc. It is especially suitable for environment with high temperature and unstable voltage.

ICE MAKING FIVE STEPS

Automatic Block Ice Machine

01 Replenish water



CBFI ABI automatic block ice machine full series

One-stop automatic operation

ABI series automatic block ice machine is independently developed by CBFI,

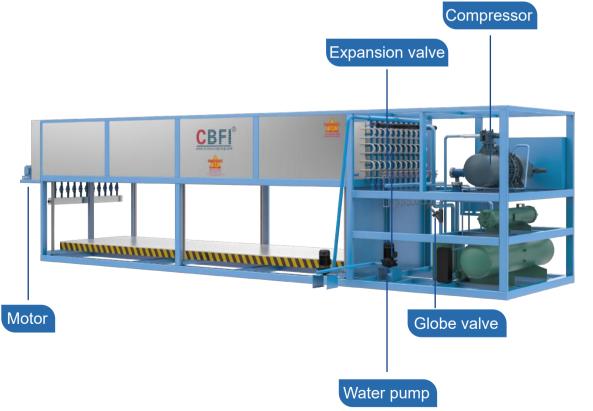
The first prototype was built as early as 2014.

Our team always adhere to the Customers benefits from Icesource corporate core values.

Insist on quality workmanship, constantly bring forth the new from the old.

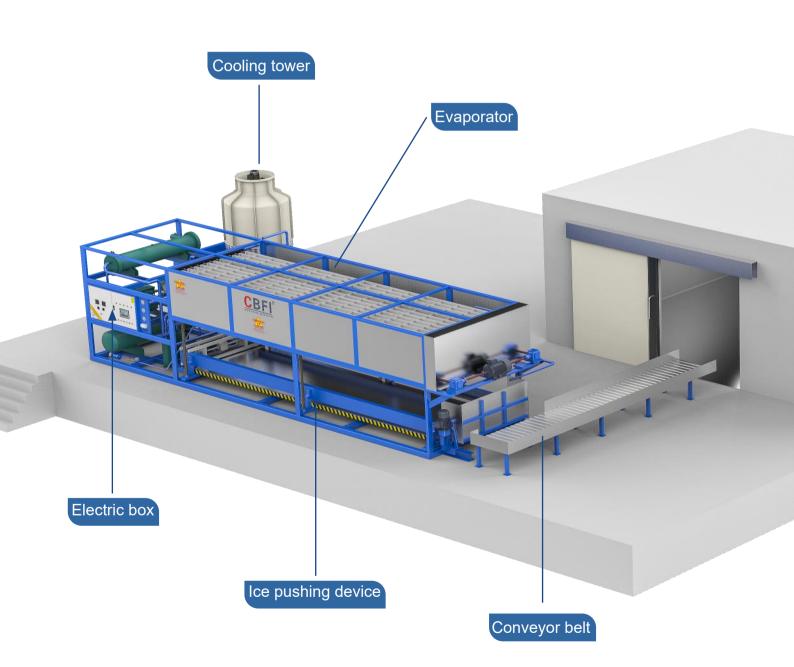
To provide customers with the highest profit margin solutions.





ONE-STOP SOLUTION

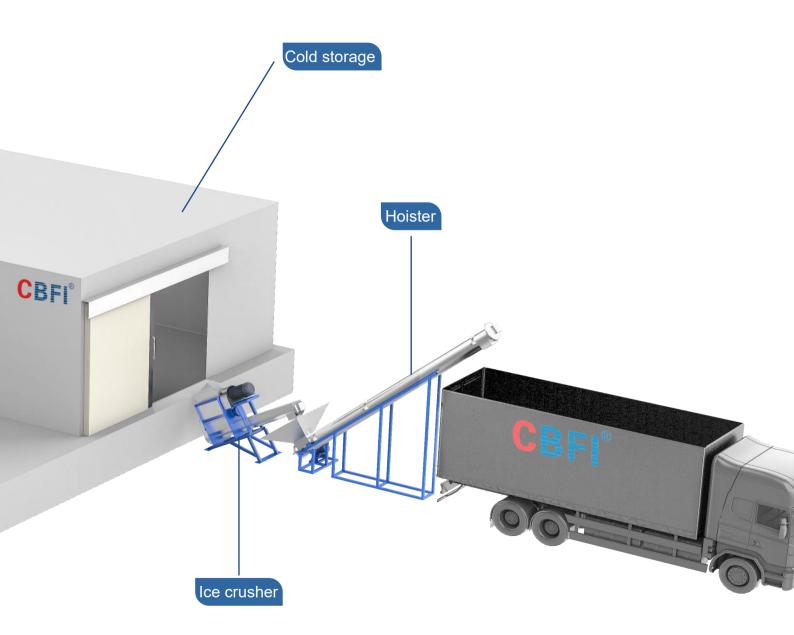
Automatic Block Ice Machine



Complete set of equipment for Automatic Block Ice Machine

This project is an ice plant, and the overall equipment includes:

- 1. Cooling tower *1, deicing and filling water circulation pump *1
- 2. 10-ton automatic block ice machine *1, ice pushing device *1
- 3.Conveyor *1, elevator *1, ice crusher * 26m*8m cold storage *1



PARAMETER

Automatic Block Ice Machine

Automatic block ice machine is a new type of ice making machine, which evaporates refrigerant in the evaporator and makes ice with direct cooling water through the evaporator. The main components include refrigeration system, lifting device, control system. Evaporator is made of aluminum plate. The refrigerant flows inside the aluminum plate, and the external heat exchange with water makes ice.



ABI10 / 1 tons per day

Ice making capacity: 1 tons /24 hours

Compressor brand: Bitzer

Rated power of compressor: 3.88kW Circulating water pump power: 1.1KW Ice maker size: 3000*1100*1700(mm)

Ice size: 110*90*550(mm)
Ice output shift: 5 per 24 hours

ABI30 / 3 tons per day

Ice making capacity: 3 tons /24 hours

Compressor brand: Bitzer

Rated power of compressor: 9.44kW Circulating water pump power: 1.1KW Cooling water pump power: 0.55KW Ice maker size: 4600*1380*1900(mm)

Ice size: 225*90*550(mm)
Ice output shift: 5 per 24 hours



ABI50 / 5 tons per day

Ice making capacity: 5tons /24 hours

Compressor brand: Bitzer

Rated power of compressor: 18.9kW Circulating water pump power: 1.5KW Cooling water pump power: 0.55KW Ice maker size: 4800*1860*1900(mm)

Ice weight: 225*90*550(mm)
Ice output shift: 5 per 24 hours





ABI100 / 10 tons per day

Ice making capacity: 10tons /24 hours

Compressor brand: HanBell

Rated power of compressor: 39.1kW Circulating water pump power: 4KW Cooling water pump power: 1.5KW Ice maker size: 8100*2140*2300(mm)

Ice size: 315*120*760(mm)
Ice output shift: 3 per 24 hours

ABI200 / 20 tons per day

Ice making capacity: 20tons /24 hours

Compressor brand: HanBell

Rated power of compressor: 72.6kW Circulating water pump power: 7.5KW Cooling water pump power: 2.2KW

Ice maker size: 7800*2240*2500*2 (mm) (Evaporator)

2800*2000*2300 (mm) (Host)

Ice size: 435*120*850(mm)
Ice output shift: 2 per 24 hours





ABI300 / 30 tons per day

Ice making capacity: 30tons /24 hours

Compressor brand: HanBell

Rated power of compressor: 141.4kW Circulating water pump power: 7.5KW Cooling water pump power: 2.2KW

Ice maker size: 11000*2240*2500*2 (mm) (Evaporator)

3200*2000*2500 (mm) (Host)

Ice size: 435*150*850(mm)
Ice output shift: 2 per 24 hours

EQUIPMENT PARAMETER

Automatic Block Ice Machine

Model	Compressor brand	Refrigerating capacity (kw)	Compressor power (kw)	cooling method	Lifting motor (kw)	Cooling tower power (kw)	Cooling water pump power (kw)	Machine size L*W*H(mm)		Remarks																							
	Bitzer	9.35	3.88	Air cooling	1.1	/	/	3000*1100*17	00	Automatic lift can be changed to manual forklift																							
ABI10	RefComp	9.4	3.7	Air cooling	1.1	/	/	3000*1100*1700		Automatic lift can be changed to manual forklift																							
ABITU	Frascold	9.57	4	Air cooling	1.1	/	/	3000*1100*1700		Automatic lift can be changed to manual forklift																							
	Copeland	10.15	4.44	Air cooling	1.1	/	/	3000*1100*1700		Automatic lift can be changed to manual forklift																							
	Bitzer 18.	18.95	7.04	water	1.1	0.25	1.1	4100*1280*17	00	Automatic lift can be changed to manual forklift																							
	BitZei	10.55	7.04	cooling	1.1			4000*1280*17	00	Automatic lift can be changed to manual forklift																							
	RefComp	18.7	6.9	water	1.1	0.25	1.1	4100*1280*17	00	Automatic lift can be changed to manual forklift																							
ABI20			0.5	cooling	1.1			4000*1280*17	00	Automatic lift can be changed to manual forklift																							
ABIZU	Frascold	18.57	7.025	water	1.1	0.25	1.1	4100*1280*17	00	Automatic lift can be changed to manual forklift																							
	riascolu	10.37	7.023	cooling	1.1	0.23	1.1	4000*1280*17	00	Automatic lift can be changed to manual forklift																							
	Copeland	16.2	7	water	1.1	0.25	1.1	4100*1280*17	00	Automatic lift can be changed to manual forklift																							
	Сорегани	10.2	,	cooling	1.1	0.23	1.1	4000*1280*17	00	Automatic lift can be changed to manual forklift																							
	Bitzer	23.9	23.9 9.44	water	1.1	0.55	1.1	4600*1380*19	00	Automatic lift can be changed to manual forklift																							
	BitZei	23.5	5.44	cooling	1.1	0.33	1.1	4860*1700*19	00	Automatic lift can be changed to manual forklift																							
ABI30	RefComp.	25	9.2	water cooling	1.1	0.55	1.1	4600*1380*19	00	Automatic lift can be changed to manual forklift																							
ADISO	RefComp							4860*1700*19	00	Automatic lift can be changed to manual forklift																							
	Frascold	25.14	9.43	water	1.1	0.55	1.1	4600*1380*19	00	Automatic lift can be changed to manual forklift																							
				cooling	1.1			4860*1700*19	00	Automatic lift can be changed to manual forklift																							
	Bitzer 48.2	18.9	water	1.5	0.55	1.5	4800*1860*19	00																									
	bitzei	40.2	10.5	cooling	1.5	0.55	1.5	5200*2140*22	50																								
ABI50	RefComp	45.7	18.7	, water cooling	1.5	0.55	1.5	4800*1860*19	00																								
ADISO								5200*2140*22	50																								
	Frascold	45.46	17.49	water	1.5	0.55	1.5	4800*1860*19	00																								
				cooling				5200*2140*22	50																								
	Hanbell	69.7	28.4																												7100*2140*23	00	
ABI80				water cooling	3	1.5	4	8580*2200*2300																									
								7660*2240*25	00																								
ABI100	Hanbell	98.3	39.1	water cooling	4		4	8100*2140*23	00																								
						1.5		10200*2200*2300																									
								9000*2240*25	00																								
ABI150	Hanbell	131.6	51.1	51.1 water cooling	5.5	1.5	5.5	11200*2200*2500 Evaporator	2500*2000*2300 Host																								
								10800*2200*2500 Evaporator	2500*2000*2300 Host																								
								11000*2240*2500 Evaporator	2500*2000*2300 Host																								
ABI200	Hanbell	196.8	72.6	water cooling	7.5	2.2	7.5	7800*2240*2500*2 Evaporator	2800*2000*2300 Host																								
ABI300	Hanbell	311.1	141.4	water cooling	5.5*2	2.2	7.5	11000*2240*2500*2 Evaporator	3200*2000*2500 Host																								

Remark:

- * Lifting operation: automatic
- * Daily output of more than 20 tons is non-standard, parameters can be determined according to customer demand.
- * Design parameters: refrigerant R22, voltage 380V/3P/50HZ.
- * Standard parameters: ambient temperature 28°C , water supply temperature 16°C .
- * Design conditions: condensation temperature 38°C , evaporation temperature: -15°C .
- *The above parameters are based on the corresponding ice mold size. If the ice mold size is different, please contact the technical department again to check the parameters



BLOCK ICE SIZE

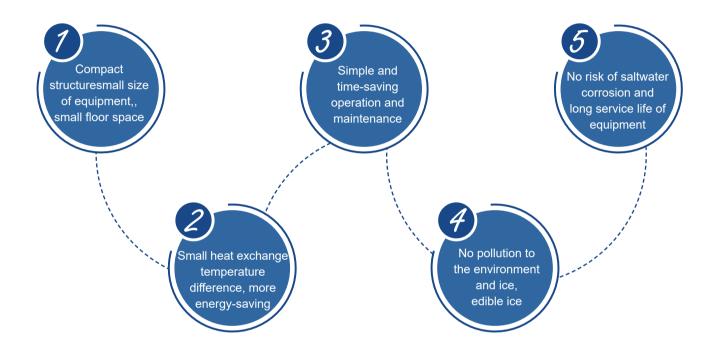
Parameters table

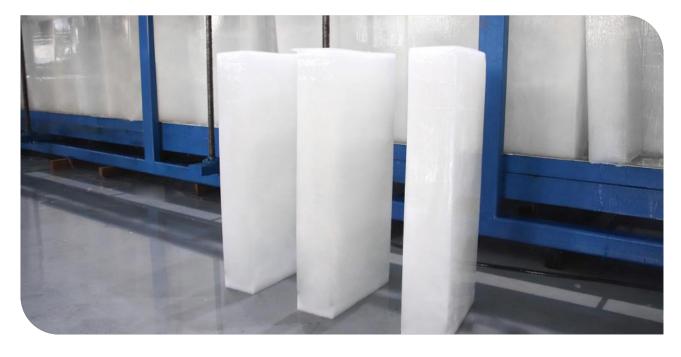
Node Ice weight (KG) Ice mold size L'W'H(mm) Ice size L'W'H(mm)					
ABI10 10 230°95′600 110°90°550 5 times 10 230°95′600 110°90°550 5 times 10 230°95′600 225°90°550 5 times ABI30 10 230°95′600 225°90°550 5 times ABI30 15 250°125′600 245°120°560 3 times 10 230°95′600 225°90°550 5 times ABI50 25 320°125′800 315°120°760 3 times 25 320°125′800 315°120°760 3 times ABI80 30 310°150°800 305°145°760 2 times ABI100 30 310°150°800 315°120°760 3 times 25 320°125′800 315°120°760 3 times 440°155°900 435°150°850 2 times ABI100 30 30 310°150°800 305°145°760 2 times ABI100 30 30 30°150°800 305°145°760 2 times ABI100 30 440°155°900 435°150°850 2 times ABI150 40 360°150°900 275°145°850 2 times 40 440°155°900 435°150°850 2 times ABI150 50 440°155°900 435°150°850 2 times 40 40 440°155°900 435°150°850 2 times ABI200 50 440°155°900 435°150°850 2 times 40 40 440°155°900 435°150°850 2 times 40 40 440°155°900 435°150°850 2 times 40 40 440°155°900 435°150°850 2 times	Model				
ABI20 10 230°95°600 110°90°550 5 times 5 115°95°600 110°90°550 5 times 10 230°95°600 225°90°550 5 times 10 230°95°600 225°90°550 5 times ABI30 15 250°125°600 245°120°560 3 times 10 230°95°600 225°90°550 5 times ABI50 10 230°95°600 225°90°550 5 times ABI50 25 320°125°800 315°120°760 3 times ABI80 30 310°150°800 305°145°760 2 times ABI100 30 310°150°800 315°120°760 3 times ABI100 30 310°150°800 315°120°760 3 times 435°150°850 2 times ABI100 30 310°150°800 305°145°760 2 times ABI100 30 30 310°150°900 305°145°760 2 times 40 440°155°900 435°150°850 2 times ABI150 40 360°150°900 275°145°850 2 times 40 440°155°900 435°150°850 2 times 40 440°155°900 435°150°850 2 times ABI200 50 440°155°900 435°150°850 2 times 40 40 440°155°900 435°150°850 2 times	ARI10	5	115*95*600	110*90*550	5 times
ABI20 10 230°95°600 225°90°550 5 times 10 230°95°600 225°90°550 5 times ABI30 15 250°125°600 245°120°560 3 times ABI50 10 230°95°600 225°90°550 5 times 25 320°125°800 315°120°760 3 times 25 320°125°800 315°120°760 3 times ABI80 30 310°150°800 305°145°760 2 times 40 440°155°900 435°150°850 2 times ABI150 ABI150 40 360°150°900 275°145°850 2 times ABI150 ABI200 50 440°155°900 435°150°850 2 times 40 440°155°900 435°150°850 2 times ABI200 50 440°155°900 435°150°850 2 times 40 440°155°900 435°150°850 2 times 40 440°155°900 435°150°850 3 times ABI200 50 440°155°900 435°150°850 3 times	ADITO	10	230*95*600	225*90*550	5 times
ABI30 10 230°95°600 225°90°550 5 times 10 230°95°600 225°90°550 5 times 15 250°125°600 245°120°560 3 times 10 230°95°600 225°90°550 5 times ABI50 10 230°95°600 225°90°550 5 times 315°120°760 3 times 25 320°125°800 315°120°760 3 times ABI80 30 310°150°800 305°145°760 2 times ABI100 30 310°150°800 315°120°760 3 times 440°155°900 435°150°850 2 times ABI150 ABI150 40 360°150°900 355°145°850 2 times ABI150 ABI150 40 360°150°900 355°145°850 2 times 40 440°155°900 435°150°850 2 times ABI200 50 440°155°900 435°150°850 2 times 40 440°155°900 435°150°850 2 times 40 440°155°900 435°150°850 3 times	API2O	5	115*95*600	110*90*550	5 times
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ABI100 ABI100		25	320*125*800	315*120*760	3 times
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ABI200 50 440*155*900 435*150*850 2 times	ABI150	40	360*150*900	355*145*850	2 times
ABI200 50 440*155*900 435*150*850 2 times		50	440*155*900	435*150*850	2 times
		40	440*125*900	435*120*850	3 times
50 390*180*900 385*175*850 2 times	ABI200	50	440*155*900	435*150*850	2 times
		50	390*180*900	385*175*850	2 times
ABI300 50 440*155*900 435*150*850 2 times	ABI300	50	440*155*900	435*150*850	2 times



ADVANTAGES

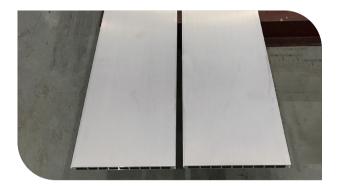
Automatic Block Ice Machine





Evaporator process

The aluminum evaporator is an important part of the ice machine for direct cooling. The refrigerant flows inside the aluminum plate and the ice is made by direct heat exchange with water outside. Aluminum has a high thermal conductivity, 4.5 times that of carbon steel and 12 times that of commonly used stainless steel. Fast ice making, low density and light weight of aluminum, 1/3 of the weight of the same volume of steel. Special zigzag runner design, greater contact area, higher heat exchange efficiency.



Joining together

The ice molds are spliced together at both ends of the gap and welded and strengthened in the middle, playing a role of stable balance.



Screw series

Each plate of the ice mold is connected by screw in series. The specially designed evaporator and the side evaporator are reinforced with ribs. The evaporator adopts screw + welding processing mode to ensure that it will never deform.



Welding process

The baffle plate is welded into a grid. The baffle plate is more firmly fixed than other manufacturers' slots, and will not move due to ice expansion force.

Water deicing system

The water deicing system of refrigeration system adopts single working condition design, and the system is stable. A water pump can remove ice with lower energy consumption and faster time. The evaporator is designed with serrated flow passage to increase heat transfer area and achieve high ice-making efficiency. The refrigerant is exchanged with water through an aluminum plate, the water in the aluminum plate evaporator is frozen into ice, and the block ice removal can be completely automated. No pollution, no environmental impact.

Schematic diagram of water deicing The water in the deicing circulation is pumped through a pump into the evaporator, separating the ice from the aluminum sheet, thus achieving a direct deicing effect. Cooling water pump Dewatering circulating tank



Aluminum plate

The aluminum plate is used as the evaporator, and the heat exchange between the refrigerant and the water is carried out directly, and the block ice removal can be completely automated.



Operation full automation

Fully automated and simple operation can realize intelligent cloud control of Internet of Things and real-time monitoring of mobile phones.



Serrated runner design

The evaporator is designed with serrated flow passage to increase heat transfer area and make ice more efficiently.



Port interface

The ice-making and de-icing systems are integrated and independent, and the ice-making and de-icing systems can also realize the recovery of cold volume.

The function of sealing strip

The sealing plate can be used for many times. The sealing plate is in contact with the sealing strip and pressed tightly, but does not contact with the bottom of the evaporator. A gap is reserved, so the ice molds are connected.



Sealing strip

Sealing tape, good sealing, can be used many times.

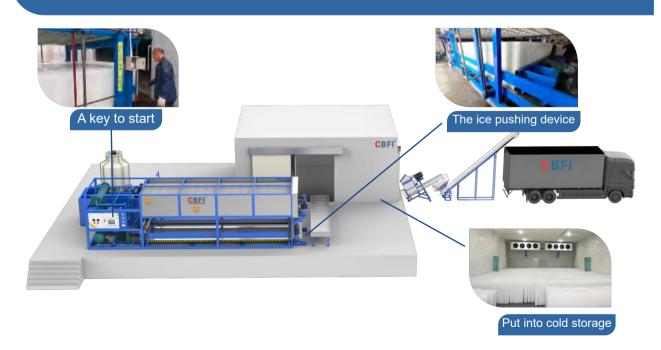


Water sealing plate and sealing strip

The sealing plate is in contact with the sealing strip and pressed tightly, but not with the bottom of the evaporator, leaving a gap, so that the ice molds are connected.

The ice pushing device

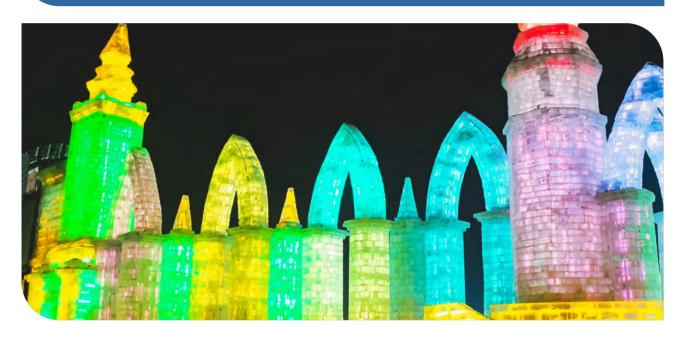
The volume of ice blocks of the automatic block ice machine is large, and the weight of the ice blocks varies from 8 to 40kg. The ice blocks can be transported to the cold storage with auxiliary tools such as ice pushing device.



TRANSPARENT ICE

Automatic Block Ice Machine

Transparent ice machine is an ice maker which is used to produce all transparent blocks of ice according to the special requirements of our customers. Clear block ice does not have any bubbles and impurities, it is as clear as crystal, the ice is hard,, not easy to melt, very suitable for artistic ice sculpture production, medical and laboratory ice and other occasions.





Ice making time

Production of transparent block ice, ice - making time of 48 hours.



The technical requirements

Advanced bubble ice - making technology

COLD ROOM

Guangzhou Icesource Co., Ltd.

- 1. The cold room looks like a container and is suitable for a wide range of applications. It can hold 5-100 tons of various kinds of food, such as ice, fruit, fish and vegetables.
- 2. Automatic intelligent control, with temperature setting; temperature control, automatic defrosting and other functions, automatic and accurate temperature control, energy saving and consumption reduction;
- 3. Convenient maintenance, safe and reliable operation, faultless operation within inches long, no special person is required to monitor;
- 4. Long shelf life, high economic efficiency and simple operation technology.









One-piece cold room



ICE CRUSHER

Guangzhou Icesource Co., Ltd.









Screw ice crusher

Ice crusher parameters

Ice crusher specifications	Material	Roller size	Size of crushed ice	About the weight of crushed ice	Machine size	Machine weight	Motor Power	Ice crushing capacity
A conventional ice cube crusher	304 stainless steel	Ф 219*385mm	Ice cubes within 380mm*120mm	Ice cubes within 50kg	860mm*620mm*1090mm	About 100kg	3kw	
B roller extended ice block ice crusher	305 stainless steel	Ф 219*480mm	Ice cubes within 470mm*120mm	Ice cubes within 60kg	860mm*710mm*1090mm	About 110kg	4kw	4 tons/hour
C roller thickening and lengthening ice block ice crusher	306 stainless steel	Ф 406*550mm	Ice cubes within 540mm*230mm	Ice cubes within 100kg	1450mm*780mm*1900mm	About 260kg	5.5kw	
Conventional tube ice, cube ice crusher	307 stainless steel	Ф60*290mm	All tube ice/cube ice	All tube ice/cube ice	540mm*475mm*920mm	About 80kg	1.5kw	2 tons/hour

Design parameters: voltage 380V/3P/50HZ, material 304 stainless steel.

Remarks: The ice crusher can crush the weight of ice cubes for reference only. The specific selection of the ice crusher depends on the size of the ice cubes to be crushed.

Ice Crusher

The ice breaker is a kind of ice equipment specially designed for large blocks of ice. It is easy to operate and reliable. The inside of the machine is equipped with anti-ice rebound baffle. The whole is made of 304 stainless steel with strong corrosion resistance and service life of more than 10 years.





APPLICATION

Block ice



Seafood preservation













Food preservation



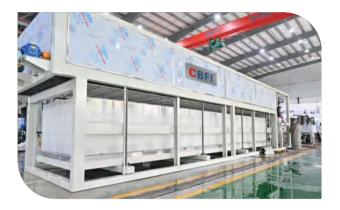








Equipment test



Commissioning site of 25t automatic ice block ice machine



Two 10t direct cooling block ice machines in the Philippines



Commissioning site of 10t automatic ice block ice machine



Commissioning site of 30 t automatic ice block ice machine



Commissioning site of 10t automatic ice block ice machine



Commissioning site of 160 t automatic ice block ice machine

ABOUT CBFI

Guangzhou Icesource Co., Ltd.

Guangzhou Icesource Co., Ltd. is a national high-tech enterprise based domestically and global oriented , we provide customers with advanced ice making equipment, complete ice making system, medium and high-end cold storage products and engineering. The company was founded in 2010 and started R&D in 2004. It is headquartered in the world-class city group - Guangdong-HongKong-MacauGreater Bay Area (China · Guangzhou). As one of the largest manufacturers in the domestic ice-making equipment industry, Icesource has a modern production base of 20,000 square meters and nearly 300 employees. After years of rapid development, with continuous technological innovation and excellent product quality, Icesource has covered all over the country and exported to more than 150 countries and regions around the world. Icesource has gained a certain brand awareness in the world.

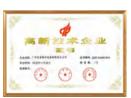
Awards & Certificates











Guangdong High-tech Enterprise



Vice President Unit of Guangdon Cold Chain Association



Excellent Enterprise in Guangdong Province



The most popular cold chain logistics provider



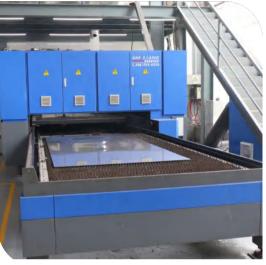
"Contract-honoring and Creditkeeping" Enterprise in Guangdong Province



Guangdong Engineering Technology Research Center for Ice-Making Equipment







OUR ENTERPRISE

Show of Power







- 16000 m² factory area
- Advanced production equipment
- 3 1 to 1 VIP professional service
- Professional team

