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广东凯利制冷设备科技有限公司

GUANGDONG KAILY REFRIGERATION EQUIPMENT TECH CO.,LTD

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百年凯利 专业冷机 Century-Old Kaily Professional Cooler

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公司简介

广东凯利制冷设备科技有限公司（简称凯利冷机），由东莞市源源凯利贸易有限公司、香港海菱制冷设备有限公司，共同组建。公司依托优势资源组合，与香港海菱制冷设备有限公司共同设立有专业的制冷产品研发部，在制造业发达的珠三角地区拥有先进的产品生产基地，自主研发中心、机械加工中心、完善的检验设备及售后服务团队，多年实践，培养出了一批高素质，高技能的工程师和技术人员，以及完善的售前、售后服务团队。

公司主要产品：淡水片冰机，淡水片冰机蒸发器，海水片冰机，海水片冰机蒸发器，片冰机组，冰砖机（盐水池冰砖机，直冷冰砖机）、管冰机、颗粒冰机（方冰机），混凝土降温系统，高温造雪系统、冷水机组，大型冷库系列及各类制冰、制冷设备与配件。

应用领域：超市冰鲜，海鲜酒店，蔬果肉类冷藏保鲜物流运输，鱼类食品加工，肉类与熟食食品加工，面包、饼干、水饺等食品加工、冰厂、造雪工程、渔业远洋捕捞渔船和渔港等行业的冷链、水利水电、建筑工程等行业在内的混凝土降温系统。

公司自创立秉承专业设计与技术生产，以优质服务为客户提供专业的制冰、制冷系统解决方案。立足国际制冷行业发展趋势，不断自我超越，以领先技术确立卓越品质，以企业高度使命感、责任感以及奉献精神为公司奠基“百年凯利、专业冷机”不懈努力。



Company Profile

Guangdong Kaily Refrigeration Equipment Technology Co., LTD. (Kaily Refrigeration Equipment Co., LTD.) is jointly established by Dongguan Yuanyuan Kaily Trading Co., LTD and Hong Kong Heling Refrigeration Equipment Co., LTD. Relying on the combination of advantageous resources, the company and Hong Kong Heling Refrigeration Equipment Co., Ltd. jointly set up a professional cooling product research and development department. In the Pearl River Delta region where the manufacturing industry is developed, the company has advanced product production base, independent research and development center, mechanical processing center, perfect inspection equipment and after-sales service team. Years of practice has cultivated a group of high-quality. Highly skilled engineers and technical personnel, as well as perfect pre-sales, after-sales service team.

The main products of the company are: fresh water ice machine, fresh water ice machine evaporator, sea water ice machine evaporator, sea water ice machine, ice machine unit, ice brick machine (salt pool ice brick machine, straight cold ice brick machine), tube ice machine, granular ice machine (square ice machine), concrete cooling system, high temperature snow making system, chiller, large cold storage series and all kinds of ice making, refrigeration equipment and accessories.

Application fields: supermarket ice fresh, seafood hotels, vegetables, fruits, fish and meat refrigerated preservation logistics transportation, fish food processing, meat and cooked food processing, bread, biscuits, dumplings and other food processing, selling ice, snow engineering, fishing pelagic fishing vessels and fishing port industries such as cold chain, water conservancy and hydropower, construction engineering, and other industries including concrete cooling system.

Since its establishment, the company has been adhering to professional design and technical production, and providing customers with professional ice making and cooling system solutions with high quality service. Based on the development trend of the international refrigeration industry, constantly surpass ourselves, establish excellent quality with leading technology, with a high sense of mission, responsibility and dedication for the company to lay the foundation of "100 years Kelly, professional cooling machine" unremitting efforts.



SourceKelly 源源凯利®

核心价值观

开拓进取

与时俱进、超越自我的精神

追求卓越

讲求品质、精益求精的态度

成就客户

始终以客户为第一、不断超越顾客期望的作风

实现梦想

在孜孜事业中实现人生价值



FOCUS ON QUALITY AND SERVICE
专注品质 服务全球

Customers list 凯利客户名录 >>>

公司依托优势资源整合，并与香港海凌制冷设备有限公司共同设立有专业制冷机械产品研发部，拥有先进机械加工设备与标准化工业厂房的生产基地。

秉承专业设计与技术生产，以优质服务为客户提供专业化的制冷系统解决方案，与星巴克、上岛、荣誉酒店、海鼎荟、吉之岛等企业建立了长期战略合作关系。

Companies rely on the advantages of the integration of resources and with Hong Kong Hailing refrigeration equipment Co., Ltd. jointly set up professional refrigeration machinery products R & D department, with the advanced mechanical processing equipment and standardized industrial workshop production base.

Adhering to the professional design and production technology, to high-quality service for customers to provide professional refrigeration system solutions, and Starbucks, on the island, the hotel of honor, Haiding Plaza, Jusco enterprises to establish a long-term strategic cooperative relations.

 星巴克	 上岛咖啡	 荣誉酒店	 海鼎荟	 吉之岛	 佳华
 百佳超市	 嘉华	 中铁五局	 中铁十一局	 中建	 建华管桩
 海益食品	 众喜食品	 中国百汇	 武商量贩	 好又多超市	 步步高超市
 寿康集团	 海源水产	 山东德百百货	 山东振华	佳顺水产 雄利水产 山东金孚隆 威海海纳 荣成运都食品 邦杰食品 烟台振华	广州长隆集团 海阳宏兴水产 吉天农业 云鹏集团 建华管桩 广州岭南船厂 等.....

小型片冰机及蒸发器(0.5-2T) >>>

Small-sized Flake Ice Machine and Evaporator(0.5-2T)



小型片冰机蒸发器

Small-sized flake ice evaporator

小型片冰机蒸发器主要配置

蒸发器内胆： 自制高效换热合金内胆
上 下 底座： 铸铝合金/304不锈钢
减 速 器： 工机牌蜗轮蜗杆
冰 刀： 304不锈钢螺旋刀
水 泵： 防腐蚀立式循环水泵
盐 水 泵： 防腐蚀脉冲计量水泵
水 箱： 304不锈钢带保温
电 源： 3N/380V/50Hz
供 水： 管径1/2" ，压力0.15-0.5兆帕斯卡

Configuration of small flake ice evaporator

Evaporator tank:Kaily efficient heat-exchanging alloy tank
Top and bottom base:Cast aluminium alloy/304 stainless steel
Reducer:KOKI (worm gear and worm wheel)
Ice blade:304 stainless steel spiral blade
Pump:Anti-corrosion vertical circulating water pump
Salt water pump: Anti-corrosion pulse-metering pump
Water tank:304 stainless steel insulated tank
Power supply:3N/380V/50Hz
Water supply:Diameter 1/2",Pressure 0.15-0.5Mpa

片冰机标准工况：

- 1.环境温度为25℃,水温为15℃.
- 2.电源： 3N/380V/50Hz, 供水压力： 0.15 ~ 0.5Mpa.
- 3.制冷剂： R22.R404A.
- 4.需冷量工况:冷凝温度为40℃,蒸发温度为-22℃.
- 5.片冰厚度： 1.5 ~ 3.0mm,冰温： -8℃.

小型片冰机

Small-sized flake ice machine

小型片冰机主要配置

压缩机： 丹佛斯全封闭涡旋
蒸发器： 自制高效换热合金内胆
冷凝器： 翅片式高效风冷凝
膨胀阀： ALCO牌TI系列
制冷剂： 环保R404A
控制器： LG牌PLC可编程控制器
电 源： 3N/380V/50Hz
供 水： 管径1/2" ,压力0.15-0.5兆帕斯卡

Configuration of small ice flake machine

Compressor:Danfoss hermetic scroll compressor
Evaporator:Kaily efficient heat-exchanging alloy tank
Condenser:High-efficient air cooling finned condenser
Expansion valve:ALCO(TIseries)
Refrigerant:Environmental R404A
Controller:LG PLC
Power supply:3N/380V/50Hz
Water supply:Diameter 1/2",Pressure 0.15 -0.5MPa



Standard operating Condition：

- 1.Ambient Temp:25;Water Temp:15℃
2. Power Supply:3N/380V/50Hz,Supply Water Pressure:0.15-0.5MPa
- 3.Refrigerant:R22.R404A
- 4.Necessary Refrigeration Capacity Condition:Condensation Temperature 40℃,Evaporation Temperature-22℃.
- 5.The thickness of flake ice:1.5-3.0mm,ice temperature:-8℃.



<<< 小型片冰机的应用(0.5-2T)

The Application of Small Flake Ice Machines(0.5-2T)

超市冰鲜

凯利片冰机产出的片冰, 适用于各大超市及卖场里的生鲜保鲜。片冰不仅使冷藏品不脱水, 保持原有的色泽, 而且确保了冷藏品的原有风味, 因为片状冰的光滑与无棱角, 不会刮坏冷藏品的表皮。

The flake ice produced by Kailycooler flake ice machine is widely applicable for all kinds of supermarkets,hotels and shopping malls to keep products fresh,Flake ice not only keep the frozen products from dehydration,maintain its original color,but also ensure the original taste of frozen products.Because flake ice is smooth and without obvious edges,which will not scratch the skin of frozen goods.

海鲜酒店

凯利片冰机产出的片冰,适用于各大海鲜酒店的海鲜,鱼类保鲜及冷藏,片冰可使海鲜色泽鲜艳,不损坏冷藏品的表皮,保持原有口味。

The flake ice produced by Kailycooler flake ice machine is widely applicable for all kinds of seafood in hotels and shopping malls to keep products fresh,Flake ice can maintain its original color and taste without damaging the epidermis of the frozen goods.

西兰花的保鲜加工方法要点:

- ①原料质量标准:花蕾新鲜紧实,花蕾球面平整,颗粒细小,无满天星,色泽鲜绿,无病虫害,无机械伤,无发霉,腐烂,变软,变色,畸形,株高14cm以上,花蕾 (以最短直径计) 11cm—13cm.
- ②工艺流程:原料进库预冷→去头→修叶→冰水浸泡→装箱,加冰 (7—8kg/箱) →冷藏→出库
- ③原料验收与预冷:按原料标准验收,剔出病虫害,病斑,机械伤等不合格的原料.西兰花宜带叶装在干净方整的塑料筐中,运输车须干净,无异味,验收好的原料及时进库预冷,库温在0-2℃
- ④去头修叶:合格品用不锈钢刀去头部,刀具洁净,锋利,头部切削平整,不得外斜.西兰花修叶时须再次剔除病虫害,机械伤等不合格品,修时刀口向外,防止伤及花杆.
- 修叶程度以下规格要求:
 - A、色泽鲜绿11—13cm,株高14cm,38入/CTN,枝叶全部去掉;
 - B、色泽鲜绿12—13.5cm,株高14cm,30入/CTN,留枝叶,叶子与花蕾相平,枝叶比花蕾高出2cm;
 - C、色泽鲜绿12—13.5cm,株高19cm,24入/CTN,留枝叶,叶子高出花蕾2cm,具体按客户要求.
- ⑤浸冰水,装箱,加冰,已加工的合格品进行冰水浸泡后及时进行装箱(钙塑箱),装时轻拿轻放,防止伤花蕾,并剔除不合格品,箱外打印生产日期,规格及包装组别,装后立即送冷库加冰屑,加冰时一定要塞满空隙,并加足箱面冰屑,立即送冷库冷藏,使用的冰须清洁无杂质,无不符合出口标准,温度不宜太低.
- 装箱要求:
 - 1、每箱花球大小均匀,摆放规范;
 - 2、每箱花球品种一致;
 - 3、冰7—8kg/箱,冷藏-库温0℃,冷藏时间24小时以上,出库存时须保证花球茎部温度在2℃左右(可存放1个月)。
- ⑥出库:产品装柜时,箱内必须再次加足冰屑,并确保做到先进库产品先出货,防止积压影响品质,品温,整个装柜时间不超过2.5小时,冷柜温度0—1℃。

Points of fresh keeping method for broccoli.

①Quality standards of raw materials : Flower buds,which have small particles,are fresh,bright green,tight,neat,no plant diseases/insect pests/deformity/mechanical injury.No signs of mould/rot/softening/color changing.Plant height is 14 cm or above,diameters of buds(calculated by minimum diameter)are between11 cm and 13 cm.

②Process: Raw materials enter the storehouse for pre-Cooling→Topping → Pruning the leaves → Ice water immersion →Packing & adding ice(7-8 kg/box)→The refrigeration →Warehouse-out.

③Acceptance of raw materials and pre-cooling:According to the raw material acceptance standards,get rid of all the substandard raw materials,it couldn't be better for broccolis with leaves enclosed and being placed in neat and clean plastic baskets,the transporter shall be clean without peculiar smell.The good raw materials must be placed into the storehouse for pre-colling with temperature in 0-2℃

④Topping and Pruning the leaves: Topping the quality products with the stainless steel cutters,which are clean and sharp.The heads should be cut smoothly and flat without slant,the substandard products need to be removed when we prune the leaves,putting the cutting edge outward to protect the rods.

Specifications about the different degrees of pruning leaves as below:

A,Fresh green 11-13cm, height of strains is 14cm,38 pcs /CTN, removing all the branches and leaves

B,Fresh green 12-13.5cm, height of strains is 14cm,30 pcs /CTN,keeping branches and leaves,

keeping leaves 2cm higher than the buds;

C,Fresh green 12-13.5cm, height of strains is 19cm,24 pcs /CTN, keeping branches and leaves,keeping leaves 2cm higher than buds.Depending on customers'specific requirements.

⑤Ice water immersion & Packing & Adding ice:After the ice water immersion,the qualified products need packing timely(calcium plastic box),we must handle them gracefully,otherwise it could damage the buds,and then eliminate the unqualified products.next, to print production dates ,specifications and packaging groups outside the boxes,finally sent to cold storage immediately after installation and plus pieces of ice,the gaps must be filled with ice,we should make sure the ice flakes covered the boxes'surfaces,and immediately sent them to cold storages for refrigeration,the used ice shall be clean and no impurities, and all in line with the export standard,but the temperature should not be too low.

Packing requirements:

The size of ball-flower is uniform in each box,which should be placed specifically,

The variety of ball-flower is consistent in Each box.

Ice: 7-8kg/box,temperature of cold storage need to be 0℃, they should be refrigerated for more than 24 hours,the temperature of the flower bulbs should be assured around 2 degrees(can deposit for 1 month)

⑥Warehouse-Out:There should be enough ice in the box when the products get out of the warehouse,obeying the FIFO method to keep first-class quality ,loading time should be less than 2.5 hours,refrigerator temperature need to be around 0-1℃



超市冰鲜 Supermarket



海鲜酒店 Seafood Hotels



蔬菜配送及保鲜

Fruits,Vegetables Distribution and preservation

中型片冰机及蒸发器(3-10T) >>>

Medium-sized Commercial,Industrial Flake Ice Machine (3-10T)



中型片冰机

Medium-sized flake ice machine

中型片冰机主要配置

压缩机：比泽尔半封闭活塞
蒸发器：自制高效换热合金内胆
冷凝器：壳管卧式水冷凝
膨胀阀：丹佛斯牌TES系列
制冷剂：环保R404A
控制器：LG牌PLC可编程控制器
操作方式：触摸屏操作
电 源：3N/380V/50Hz
供 水：管径1/2" ,压力0.15-0.5兆帕斯卡

Configuration of Medium flake ice machine

Compressor:Bitzer Semi-hermetic reciprocating compressor
Evaporator:Kaily efficient heat-exchanging alloy tank
Condenser:Horizontal shell and tube water cooling condenser
Expansion valve: Danfoss(TES series)
Refrigerant:Environmental R404A
Controller:LG PLC
Power supply:3N/380V/50Hz
Water supply:Diameter 1/2",Pressure 0.15-0.5Mpa

中型片冰机蒸发器

Medium-sized flake ice evaporator

中型片冰机蒸发器主要配置

蒸发器内胆：自制高效换热合金内胆
上下底座：铸铝合金/304不锈钢
减 速 器：工机牌蜗轮蜗杆
冰 刀：304不锈钢螺旋刀刃
水 泵：防腐蚀立式循环水泵
盐 水 泵：防腐蚀脉冲计量水泵
水 箱：304不锈钢带保温
电 源：3N/380V/50Hz
供 水：管径1/2"，压力0.15-0.5兆帕斯卡

Configuration of large flake ice evaporator

Evaporator tank:Kaily efficient heat-exchanging alloy tank
Top and Bottom base:Cast aluminium alloy/304 stainless steel
Reducer:KOKI (worm gear and worm wheel)
Ice blade:304 stainless steel spiral blade
Pump:Anti-corrosion vertical circulating water pump
Salt water pump:Anti-corrosion pulse-metering pump
Water tank:304 stainless steel insulated tank
Power supply:3N/380V/50Hz
Water supply:Diameter 1/2",Pressure 0.15-0.5Mpa

片冰机标准工况：

- 1.环境温度为25℃,水温为15℃.
- 2.电源：3N/380V/50Hz，供水压力：0.15~0.5Mpa.
- 3.制冷剂：R22.R404A.
- 4.需冷量工况:冷凝温度为40℃,蒸发温度为-22℃.
- 5.片冰厚度：1.5~3.0mm.冰温：-8℃.

Standard operating Condition:

- 1.Ambient Temp:25℃;Water Temp:15℃
- 2.Power Supply:3N/380V/50Hz,Supply Water Pressure:0.15-0.5MPa
- 3.Refrigerant:R22.R404A
- 4.Necessary Refrigeration Capacity Condition:Condensation Temperature 40℃.Evaporation Temperature-22℃.
- 5.The thickness of flake ice:1.5 ~ 3.0mm,ice temperature:-8℃.



<<< 中型片冰机的应用(3-10T)

The Application of Medium-sized Flake Ice Machine(3-10T)

海洋渔业/水产行业

Marine Fisheries and Aquatic Products Processing



凯利片冰机在新鲜海产品的冷藏，运输，加工过程中起到了必不可少的作用，片冰不仅能提供适宜的环境温度，还可提供湿润的环境，从而使海产品保持新鲜，潮湿。

Kailycooler flake ice machine plays a tremendous role in cold storage,transportation,processing of fresh seafood.Flake ice can not only provide appropriate environmental temperature,but also humid environment so as to keep seafood fresh and moist.

屠宰与熟食加工行业

Slaughtering industry



随着人民生活水平的提高，对食品卫生的要求也越来越严格。特别是对肉类食品出口企业，每个生产环节工艺都有着严格的要求。凯利片冰机为您解决保鲜难，保鲜时间短这些难题。

With the improvement of people's living standards,food safety requirements are becoming more and more strict.Particularly on meat products export enterprise,each production process has strict requirements.Kelly Flake ice machine is specially designed for your demand of maintaining food fresh.

食品加工行业

Food Processing



在面包，饼干，水饺，肉类食品的加工过程中，凯利片冰机起到了巨大的作用，生产加工过程中产生巨大的热量，需要利用片冰进行温度调节，以确保产品质量。控温就是人为地采用制冷的方法把温度控制在所需的温度。例如：面包的生产加工过程中用冰片快速降温以防止发酵。

Kailycooler flake ice machine has been playing a important role during the processing of bread,biscuits,dumplings,meat.There is a tremendous heat in the production process.Flake ice need to be used for temperature adjustment in order to ensure product quality.The method of temperature controlling is using ice flakes to control the temperature.For example,using ice flakes to quick lower the temperature to prevent fermentation during the bread production and processing.

大型片冰机及蒸发器(10T以上) >>>

Large-sized Commercial,Industrial Flake Ice Machine and Evaporator(10T above)



大型片冰机

large-sized flake ice machine

大型片冰机主要配置

压缩机：汉钟半封闭式螺杆式
蒸发器：自制高效换热合金内胆
冷凝器：壳管卧式冷凝
膨胀阀：丹佛斯牌TES系列
制冷剂：环保R404A
控制器：LG牌PLC可编程控制器
操作方式：触摸屏操作
电 源：3N/380V/50Hz
供 水：管径1/2"，压力0.15-0.5兆帕斯卡

Configuration of Larger flake ice machine
Compressor: Hanbell semi-hermetic screw compressor
Evaporator: Kaily efficient heat-exchanging alloy tank
Condenser: horizontal shell and tube condenser
Expansion valve: Danfoss (TES series)
Refrigerant: Environmental R404A
Controller: LG PLC
Operating method: Touch screen operation
Power supply: 3N/380V/50Hz
Water supply: Diameter 1/2", Pressure 0.15-0.5Mpa

大型片冰机蒸发器

Large-sized flake ice evaporator

大型片冰机蒸发器主要配置

蒸发器内胆：自制高效换热合金内胆
上下底座：铸铝合金/304不锈钢
减速机：工机牌蜗轮蜗杆
冰 刀：304不锈钢螺旋刀刃
水 泵：防腐立式循环水泵
盐 水 泵：防腐脉冲计量水泵
水 箱：304不锈钢带保温
电 源：3N/380V/50Hz
供 水：管径1/2"，压力0.15-0.5兆帕斯卡

Configuration of large flake ice evaporator
Evaporator tank: Kaily efficient heat-exchanging alloy tank
Top and bottom base: Cast aluminium alloy/304 stainless steel
Reducer: KIKO (worm gear and worm wheel)
Ice blade: 304 stainless steel spiral blade
Pump: Anti-corrosion vertical circulating water pump
Salt water pump: Anti-corrosion pulse-metering pump
Water tank: 304 stainless steel insulated tank
Power supply: 3N/380V/50HZ
Water supply: Diameter 1/2", Pressure 0.15-0.5Mpa



片冰机标准工况：

1. 环境温度：25℃，水温：15℃。
2. 电源：3N/380V/50Hz，供水压力：0.15~0.5Mpa。
3. 制冷剂：R22、R404A。
4. 需冷量工况：冷凝温度为40℃，蒸发温度为-22℃。
5. 片冰厚度：1.5~3.0mm，冰温：-8℃。

Standard operating Condition:

1. Ambient Temp: 25℃; Water Temp: 15℃
2. Power Supply: 3N/380V/50Hz, Supply Water Pressure: 0.15-0.5MPa
3. Refrigerant: R22, R404A
4. Necessary Refrigeration Capacity Condition: Condensation Temperature 40℃, Evaporation Temperature -22℃.
5. The thickness of flake ice: 1.5~3.0mm, ice temperature: -8℃.



混凝土降温系统由以下四大部分组成：

1. 制冰部分(大型片冰机)；
2. 集装箱储冰库部分；
3. 片冰输送部分；
4. 片冰称量部分。

Concrete cooling and ice-making system consist of the following four parts

1. Ice-making (large flake ice machine)
2. Ice-storage of Container
3. Delivery of ice flakes
4. Weighing of ice flakes

集装箱式冰库储冰型号(以公称容量为主参数) 10T.15T.20T.25T.30T.

Ice storage models for Containers (mainly taking nominal capacity as parameters): 10T.15T.20T.25T.30T.

预冷混凝土片冰库至少应有以下七部分组成:

1. 库体结构
2. 储冰槽
3. 库内冷风机
4. 耙冰机及其升降装置
5. 冰门及其启闭装置
6. 出冰螺旋机
7. 电气系统

Flake ice storage for concrete pre-cooling should consist of at least the following seven parts

1. The structure of storage
2. Ice storage tank
3. Condenser inside the storage
4. Ice raker machine and lifting devices
5. Blocking ice door and opening and closing device
6. Ice outlet screw machine
7. Electrical system

冰库的监测(视觉监测或仪表监测)应至少包括以下三个方面:

1. 冰库存冰量监测
2. 设备运行情况监测
3. 库内温度监测

Ice storage monitoring system(visual monitoring or instrumentation monitoring) should include at least the following three aspects

1. Ice inventory monitoring
2. Equipment condition monitoring
3. Interior temperature monitoring

<<< 大型片冰机的应用(10T以上)

The Application of Large-sized Flake Ice Machiner(10T above)

(15-40吨片冰机)混凝土搅拌工程

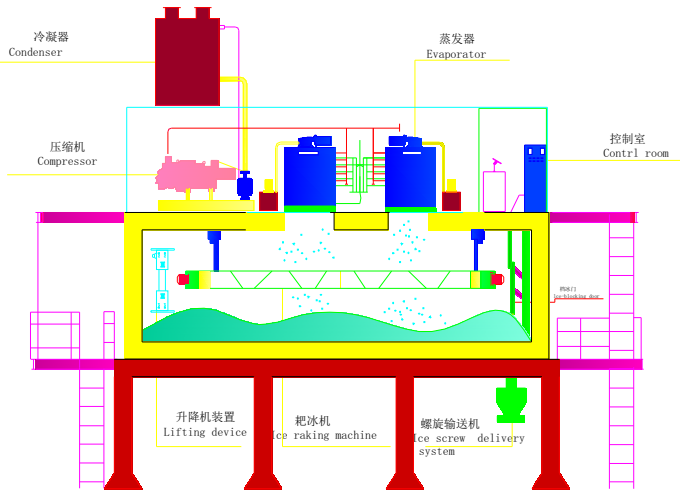
(15-40Tflake ice machine) Concrete Mixing engineering

世界各地大型水坝的建造和高层建筑基础的浇注需要采用温控混凝土。混凝土在养护过程中随着水化热的释放，混凝土内部强度逐渐增大，在养护期间，水化热使混凝土的温度升高25℃，导致混凝土体积增大，养护过后，混凝土温度下降，体积减小，这一过程通常会造成本坝出现裂缝。因此每个大型混凝土的基础浇注都需要配备完善的混凝土预冷系统。

The construction of large dams around the world and pouring concrete for the foundation of high-rise buildings need ice to control and maintain the temperature of mixing concrete. As heat evolution in the process of concrete hydration, the internal strength of concrete increases during the maintenance period. Hydration heat makes the temperature of concrete up to 25℃. After the maintenance, the concrete temperature drops, the volume reduces, as a result the cracks occur in the dam. Therefore, concrete pouring of the basis of every large concrete project needs a perfect pre-cooling system.

混凝土降温系统示意图

Concrete cooling and ice-making system diagram



冰库的设计工况：冰库外环境温度为32℃，冰库外环境相对湿度为80%，冰库内温度为-15℃。

Design conditions of ice storage: ambient temperature: 32℃, relative humidity: 80%, interior temperature: -15℃.

冰库正常运行时，库内各处的温度不均匀性不应超过3℃，库内最高温度不宜高于-12℃，片冰的出库温度不宜高于-7℃

When normal operation, the ice storage's interior temperature uniformity should be less than 3℃, the highest interior temperature should not be higher than -12℃, flake ice temperature should be less than -7℃ when they escape from the storage.

冰库在装冰前应先将空库冷却到设计温度，空库从设计环境温度冷却到设计库内温度的时间应不超过4.5h。

Cool the empty storage to design temperature before filling the ice into it. The time of temperature cooling for empty storage should be less than 4.5 hours.

淡水片冰机整机参数表 >>>

Fresh water Flake Ice Machine model

型号 Model	产冰量 (kg/24h) Daily output	储冰量 (kg) Bin capacity	制冷量 Ref. Capacity (kcal/h)	蒸发温度 Evaporating Temperature	总功率 (kw) Total power	电源 Power supply	制冷剂 Refrige rant	冷却方式 Cooling mode	机组尺寸 Unit Dimension 长*宽*高 L*W*H(mm)	储冰柜(库) 尺寸 Bin size 长*宽*高 L*W*H(mm)	重量 (不含储冰柜) Weight (exclude bin) (kg)
KC-0.2T	200	140	1400	-20	1.7	1P/50HZ/220V	R22/404A/507A	风冷/水冷 Air cooling/Water cold	900*700*600	900*850*800	230
KC-0.3T	300	180	1700	-20	1.8	1P/50HZ/220V	R22/404A/507A		1020*740*650	1020*850*800	260
KC-0.4T	400	180	2300	-20	2.3	3P/50HZ/380V	R22/404A/507A		1020*740*700	1020*850*800	300
KC-0.5T	500	300	2800	-20	2.6	3P/50HZ/380V	R22/404A/507A		1100*740*700	1100*950*900	320
KC-0.6T	600	300	3360	-20	3	3P/50HZ/380V	R22/404A/507A		1100*740*750	1100*950*900	330
KC-0.8T	800	300	4480	-20	3.6	3P/50HZ/380V	R22/404A/507A		1100*740*900	1100*950*900	350
KC-1T	1000	400	5600	-20	4.3	3P/50HZ/380V	R22/404A/507A		1270*900*900	1270*1130*1000	400
KC-1.2T	1200	400	6720	-20	5	3P/50HZ/380V	R22/404A/507A		1270*900*950	1270*1130*1000	420
KC-1.5T	1500	400	8400	-20	6.6	3P/50HZ/380V	R22/404A/507A		1270*900*1200	1270*1130*1000	480
KC-2T	2000	650	11200	-20	8.6	3P/50HZ/380V	R22/404A/507A		1500*1100*1100	1500*1400*1300	520
KC-2.5T	2500	650	14000	-20	10	3P/50HZ/380V	R22/404A/507A		1500*1100*1200	1500*1400*1300	550
KC-3T	3000	650	16800	-20	12.6	3P/50HZ/380V	R22/404A/507A		1500*1100*1350	1500*1400*1300	650
KC-4T	4000	The actual requirements of the customer prevail 以顾客实际需求为准	22400	-20	15.2	3P/50HZ/380V	R22/404A/507A	水冷/风冷 Water cold/Air cooling	1700*1500*1550	The actual requirements of the customer prevail 以顾客实际需求为准	800
KC-5T	5000		28000	-20	18	3P/50HZ/380V	R22/404A/507A		1800*1600*1700		1100
KC-8T	8000		44800	-20	25	3P/50HZ/380V	R22/404A/507A		2600*1800*1550		1500
KC-10T	10000		56000	-20	34	3P/50HZ/380V	R22/404A/507A		2600*1800*1700		1800
KC-15T	15000		84000	-20	50	3P/50HZ/380V	R22/404A/507A		3300*2200*1700		2300
KC-20T	20000		112000	-20	63	3P/50HZ/380V	R22/404A/507A		3300*2200*1800		2800
KC-25T	25000		140000	-20	78	3P/50HZ/380V	R22/404A/507A		3600*2250*2000		3100
KC-30T	30000		168000	-20	102	3P/50HZ/380V	R22/404A/507A		4200*2250*2000		3500
KC-40T	40000		224000	-20	124	3P/50HZ/380V	R22/404A/507A		4200*2300*2650		4000
KC-50T	50000		280000	-20	150	3P/50HZ/380V	R22/404A/507A		4800*2500*2700		5200

片冰机标准工况：

- 1.环境温度为25℃,水温为15℃.
- 2.电源：3N/380V/50Hz，供水压力：0.15~0.5MPa.
- 3.制冷剂：R22.R404A.
- 4.需冷量工况:冷凝温度为40℃,蒸发温度为-22℃.
- 5.片冰厚度：1.5~3.0mm,冰温：-8℃.

Standard operating Condition:

- 1.Ambient Temp:25℃;Water Temp:15℃
- 2.Power Supply:3N/380V/50Hz,Supply Water Pressure:0.15~0.5MPa
- 3.Refrigerant:R22.R404A
- 4.Necessary Refrigeration Capacity Condition:Condensation Temperature 40℃,Evaporation Temperature-22℃.
- 5.The thickness of flake ice:1.5 ~ 3.0mm,ice temperature:-8℃.

<<< 淡水片冰机蒸发器参数表

Fresh water Ice Flake Evaporator model

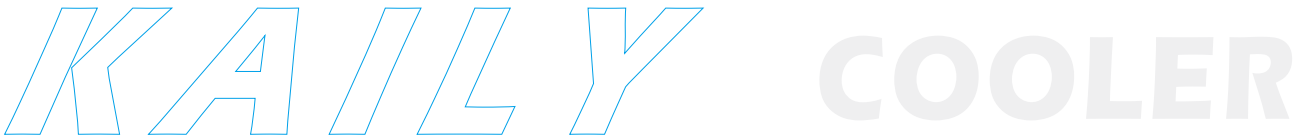
型号 Model	产冰量 (kg/24h) Daily output	制冷量 Ref.capacity (kcal/h)	蒸发温度 Evaporating Temperature	减速器功率 Reducer power (kw)	水泵功率 Pump power (kw)	电源 Power supply	制冷剂 Refrige rant	机组尺寸 (长*宽*高) Size(L*W*H)(mm)	重量 Weight (kg)
KCA-0.2T	200	1400	-20	0.18	0.003	1P/50HZ/220V	R22/404A/507A	600*400*600	100
KCA-0.3T	300	1700	-20	0.25	0.003	1P/50HZ/220V	R22/404A/507A	740*500*650	130
KCA-0.4T	400	2300	-20	0.37	0.009	3P/50HZ/380V	R22/404A/507A	740*500*700	140
KCA-0.5T	500	2800	-20	0.37	0.009	3P/50HZ/380V	R22/404A/507A	740*550*700	140
KCA-0.6T	600	3360	-20	0.37	0.009	3P/50HZ/380V	R22/404A/507A	740*550*750	150
KCA-0.8T	800	4480	-20	0.37	0.009	3P/50HZ/380V	R22/404A/507A	740*550*900	160
KCA-1T	1000	5600	-20	0.37	0.009	3P/50HZ/380V	R22/404A/507A	900*600*900	180
KCA-1.2T	1200	6720	-20	0.37	0.009	3P/50HZ/380V	R22/404A/507A	900*600*950	190
KCA-1.5T	1500	8400	-20	0.37	0.014	3P/50HZ/380V	R22/404A/507A	900*600*1200	210
KCA-2T	2000	11200	-20	0.37	0.04	3P/50HZ/380V	R22/404A/507A	1100*700*1100	340
KCA-2.5T	2500	14000	-20	0.37	0.04	3P/50HZ/380V	R22/404A/507A	1100*700*1200	360
KCA-3T	3000	16800	-20	0.37	0.12	3P/50HZ/380V	R22/404A/507A	1100*700*1350	420
KCA-4T	4000	22400	-20	0.55	0.18	3P/50HZ/380V	R22/404A/507A	1200*800*1550	550
KCA-5T	5000	28000	-20	0.55	0.18	3P/50HZ/380V	R22/404A/507A	1200*800*1700	650
KCA-8T	8000	44800	-20	0.75	0.25	3P/50HZ/380V	R22/404A/507A	1500*900*1550	850
KCA-10T	10000	56000	-20	0.75	0.25	3P/50HZ/380V	R22/404A/507A	1500*900*1700	1000
KCA-15T	15000	84000	-20	1.5	0.37	3P/50HZ/380V	R22/404A/507A	1800*1200*1700	1100
KCA-20T	20000	112000	-20	1.5	0.37	3P/50HZ/380V	R22/404A/507A	1800*1200*1800	1250
KCA-25T	25000	140000	-20	2.2	0.55	3P/50HZ/380V	R22/404A/507A	1800*1200*2000	1500
KCA-30T	30000	168000	-20	2.2	0.75	3P/50HZ/380V	R22/404A/507A	2200*1500*2000	2100
KCA-40T	40000	224000	-20	3	1.5	3P/50HZ/380V	R22/404A/507A	2200*1600*2650	2600
KCA-50T	50000	280000	-20	4	1.5	3P/50HZ/380V	R22/404A/507A	2600*1800*2700	3400

片冰机蒸发器标准工况:

- 1.环境温度为25℃,水温为15℃.
- 2.制冷剂：R717.R22.R404A.
- 3.需冷量工况:冷凝温度为40℃,蒸发温度为-22℃.
- 4.供水压力:0.15-0.5MPa.
- 5.电源:3N/380V/50Hz.

Standard Operating Condition:

- 1.Ambient Temp.25℃;Water Temperature15℃
- 2.Refrigerant:R717.R22.R404A.
- 3.Necessary Refrigeration:Condensation Temperature40℃.Evaporation Temperature-22℃.
- 4.Supply Water Pressure:0.15-0.5MPa.
- 5.Power Supply:3N/380V/50Hz.



海水片冰机及蒸发器 >>>

Seawater Flake Ice Machine Evaporator



大型海水片冰机
Seawater Flake Ice Machine



海水片冰机
Seawater Flake Ice Machine

海水片冰机组具有以下特点：

- 制出的冰为片状，厚度可达2.5mm，干燥无粉尘，冰温在-8℃
- 制冰机选用的材质为316不锈钢及防腐蚀合金铝，使用寿命可长达12年左右
- 特殊的内刮冰方式及已通过专利申请的冰刀使渔船在恶劣环境中摇摆度在35度左右也能正常制冰
- 无需人员操作，全自动监控，不必经常维护，大大节省人力物力
- 安全节能，可利用船舶自身动力在开机后3-5分钟出冰，产品质量达到国际同行业标准

It produced ice flakes with thickness of 2.5mm, dryness and no powder. Ice temperature is approximately -8℃
The material of ice flake is stainless steel and anti-corrosion aluminum alloy, its using life can reach to approximately 12 years.
Special interior ice scraping way and the patented ice blade allow the ice machine to make ice normally even when the boat is in hard conditions at 35 Degree of waving.
No person is needed to operate, the system adopts all-automatic control, no need for regular maintenance, labor cost is greatly saved.
Safe and energy-saving, it can use its shipping power to put out ice in 3-5 minutes. The quality of its product has reached the world's level.

<<< 海水片冰机的应用

The application of Large-sized Flake Ice Machine

海水片冰机，直接采用海水在海边或者渔船上制冰，针对海水的咸度高，腐蚀性强，远洋捕捞的航船航行时间长，天气不稳定等特点，凯利冷机在引进国外先进技术的基础上自主研发了具有高抗腐蚀性，抗摇摆的海水片冰机，为您的远洋捕捞之旅解决了后顾之忧。

The sea water flake ice machine uses the sea water directly to make ice on the seashore or the fishing boat .kelly cooler has independently developed high-tech ice making machines on the basis of foreign advanced technology for ships to help get over such difficulties as seawater erosion,ship shaking,long-time sailing and unpredictable weather.kelly seawater ice machine will help resolve your worries during ocean fishing.

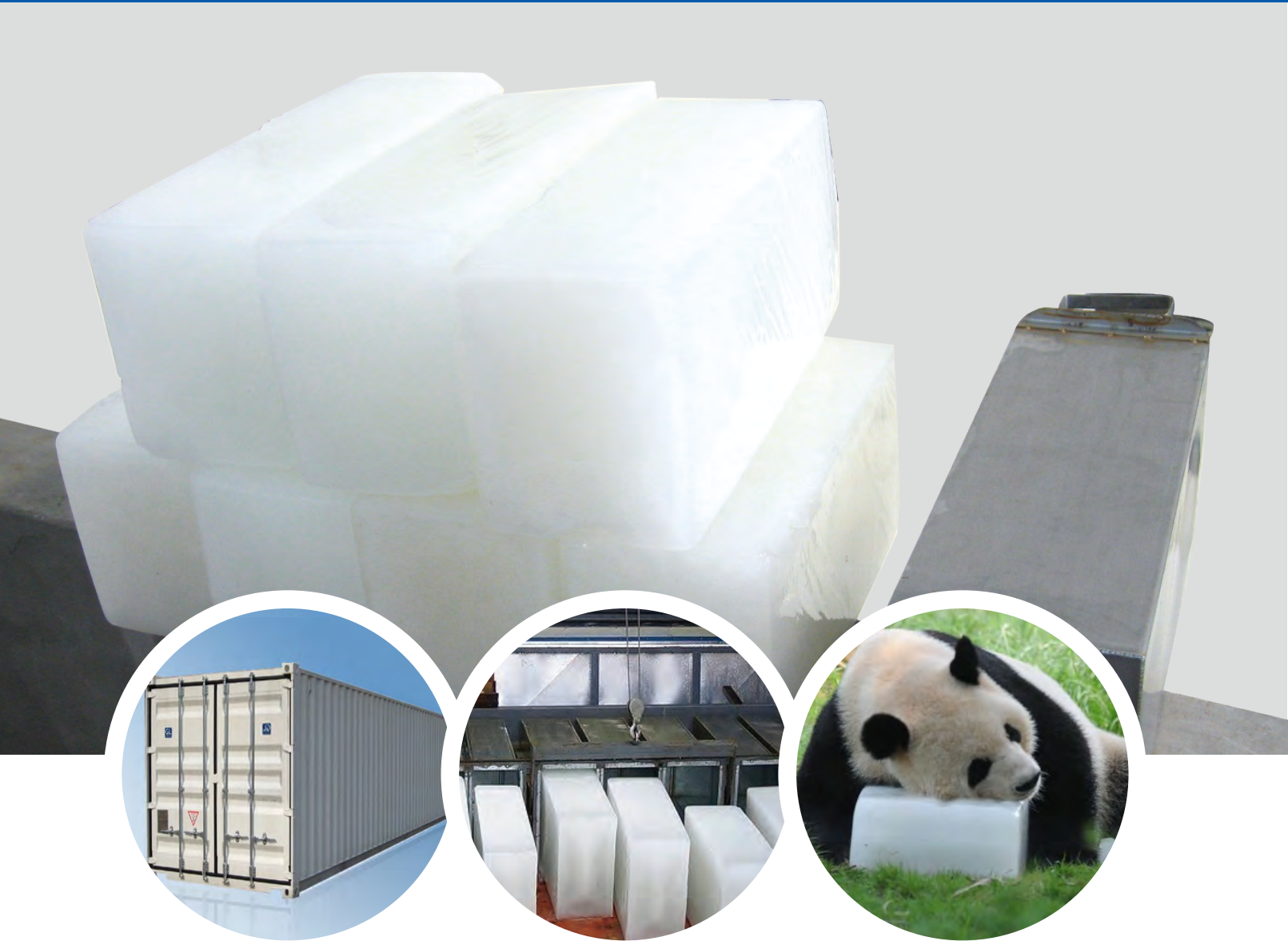


海水片冰机参数表 (Sea ice sheet machine indicator)

型号 Model	日产量 (KG/24H) Daily output	压缩机 Compressor	制冷量 Total power	总功率 (KW) Total power	蒸发温度 Evaporating Temperature	电源 (可以定制) Power supply (can be customized)	制冷剂 Refrige rant	冷却方式 Cooling mode	尺寸size (长*宽*高) mm L*W*H	重量 Weight (kg)
KCH-0.5T	500	博客 blog 比泽尔 Bitzer 莱富康 Leifacon	5600	4	-23	3P 50HZ 380V	R22 404A 507A	水冷 Water cold 风冷 Air cooling	1200*900*700	340
KCH-1T	1000		8400	5.6					1300*1000*950	420
KCH-1.5T	1500		11200	8					1300*900*1200	500
KCH-2T	2000		14000	10					1600*1200*1100	550
KCH-2.5T	2500		16800	12					1600*1200*1200	600
KCH-3T	3000	博客 blog 比泽尔 Bitzer 汉钟 Han Zhong	22400	15					1600*1200*1350	650
KCH-4T	4000		28000	20					1800*1600*1550	900
KCH-5T	5000		44800	22					1900*1700*1700	1000
KCH-8T	8000		56000	30					2600*2000*1550	1300
KCH-10T	10000		84000	42					2600*2000*1700	1500
KCH-15T	15000	博客 blog 比泽尔 Bitzer 汉钟 Han Zhong	112000	65					3300*2200*1700	1800
KCH-20T	20000		140000	80					3300*2200*1800	2100
KCH-25T	25000		168000	110					3600*2250*2000	2600
KCH-30T	30000		224000	130					4200*2250*2000	3300
KCH-40T	40000		280000	160					4200*2300*2650	4400
KCH-50T	50000		330000	180					4800*2500*2700	5800

海水片冰机蒸发器参数表 Evaporator parameters of seawater sheet ice machine

型号 Model	日产量 (KG/24H) Daily output	制冷量 Total power	总功率 (KW) Total power	蒸发温度 Evaporating Temperature	电源 (可以定制) Power supply (can be customized)	机组尺寸size (长*宽*高) mm L*W*H	重量 Weight (kg)
KCHB-0.5T	500	5600	0.5	-23	3P/50HZ/380V	1200*900*700	260
KCHB-1T	1000	8400	0.5	-23	3P/50HZ/380V	1300*1000*950	330
KCHB-1.5T	1500	11200	0.5	-23	3P/50HZ/380V	1300*900*1200	350
KCHB-2T	2000	14000	0.5	-23	3P/50HZ/380V	1600*1200*1100	500
KCHB-2.5T	2500	16800	0.5	-23	3P/50HZ/380V	1600*1200*1200	600
KCHB-3T	3000	22400	0.5	-23	3P/50HZ/380V	1600*1200*1350	450
KCHB-4T	4000	28000	0.75	-23	3P/50HZ/380V	1800*1600*1550	600
KCHB-5T	5000	44800	0.75	-23	3P/50HZ/380V	1900*1700*1700	750
KCHB-8T	8000	56000	0.9	-23	3P/50HZ/380V	2600*2000*1550	950
KCHB-10T	10000	84000	0.9	-23	3P/50HZ/380V	2600*2000*1700	1100
KCHB-15T	15000	112000	1.9	-23	3P/50HZ/380V	3300*2200*1700	1250
KCHB-20T	20000	140000	2.6	-23	3P/50HZ/380V	3300*2200*1800	1500
KCHB-25T	25000	168000	2.8	-23	3P/50HZ/380V	3600*2250*2000	1700
KCHB-30T	30000	224000	3	-23	3P/50HZ/380V	4200*2250*2000	2300
KCHB-40T	40000	280000	4.5	-23	3P/50HZ/380V	4200*2300*2650	2900
KCHB-50T	50000	330000	5.5	-23	3P/50HZ/380V	4800*2500*2700	3800



冰砖机应用于水产，制冰厂，渔港，码头等行业,集装箱式冰砖机，采用符合国际运输标准的集装箱为主体，采用40尺柜最大日产冰量为10吨，20尺柜最大日产量可达5吨。一般将主机、盐水池、融冰、倒冰、注水集为一体，安装，运输，制冰方便。

Block ice machine is used in such industries as aquatic products,ice factory,fishing ports,wharfs,etc,containerized block ice machine uses the container that meets the international transportation standards as main body,40-foot container's maximum daily ice output is 10 tons ,20-foot container's maximum daily ice output is 5 tons. It's a machine which are combined with the main engine、brine tanks、ice melting、ice pouring and water injection for convenience of the installment、the transportation and refrigeration.

特点：

 1、操作方便，任何一个没有操作经验的人都可以轻易操作。

 2、安装简单，移动方便，不需要特别建造房屋来放置机器。

 3、节约成本和运营费用，维护简单。无需专业技术人员维修，设备经久耐用。

Advantages:

 1、 Easy operation,anybody can operate the machine easily no matter he/she is experienced or not.

 2、 Simple installation, convenient movement, no requirement for a purpose-built housing to place the machine

 3、 Saving cost and operation expense,the maintenance is simple,the equipments are durable.



型号 Model	产量 Daily Output (T) (吨/24小时)	压缩机功率 (千瓦) Compressor Power(KW)	压缩机品牌 Compressor Brands	水泵功率 (千瓦) Pump power (kW)	冷却方式 Cooling mode	外尺寸 (长*宽*高) mm Size (L*W*H) mm
KCB-1T	1	3.8	丹佛斯/美优乐 DANFOSS/MANEUROP	0.55	水冷/风冷 Water/Aircooling	机组(Units):+盐水池(Saltpool): 2810*1470*1030
KCB-2T	2	7.5	丹佛斯/美优乐 DANFOSS/MANEUROP	1.5	水冷/风冷 Water/Aircooling	机组(Units):1620*710*1520 盐水池(Saltpool):2290*1420*1080
KCB-3T	3	9	比泽尔 BITER	1.5	水冷/风冷 Water/Aircooling	机组(Units):1650*850*1440 盐水池(Saltpool):2450*1540*960
KCB-4T	4	11.25	比泽尔 BITER	3	水冷 Water cooling	机组(Units):1620*720*1510 盐水池(Saltpool):3990*1346*890
KCB-5T	5	18.8	比泽尔 BITER	3	水冷 Water cooling	机组(Units):1620*820*1510 盐水池(Saltpool):3690*1440*1090
KCB-6T	6	18.8	比泽尔 BITER	3	水冷 Water cooling	机组(Units):1740*890*1690 盐水池(Saltpool):3090*1620*1410
KCB-8T	8	30	比泽尔 BITER	4	水冷 Water cooling	机组(Units):1990*840*1290 盐水池(Saltpool):5190*1840*1090
KCB-10T	10	37.5	汉钟/比泽尔 HANBELL/BITZER	4	水冷 Water cooling	机组(Units):2290*1740*1290 盐水池(Saltpool):5990*1740*1290
KCB-15T	15	56.3	汉钟/比泽尔 HANBELL/BITZER	6	水冷 Water cooling	机组(Units):2290*1740*1290 盐水池(Saltpool):7990*2090*1190
KCB-20T	20	75	汉钟/比泽尔 HANBELL/BITZER	11	水冷 Water cooling	机组(Units):2250*1340*1320 盐水池(Saltpool):9370*1760*1370
KCB-25T	25	90.3	汉钟/比泽尔 HANBELL/BITZER	11	水冷 Water cooling	机组(Units):2290*1490*1670 盐水池(Saltpool):8510*1970*1340 (2个double)

- 1.标准工况:环境温度25℃.进水温度:15℃.蒸发温度:-25℃，
 介质温度：-15℃， 冷凝温度：40℃

 2.制冷剂:R404A/R22

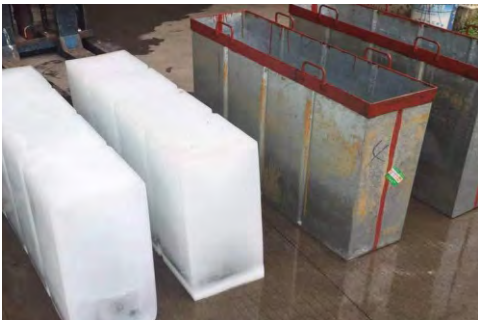
 3.电源:3N/380V/50Hz

 4.噪音:≤70dB
- 1.Standard operating condition:ambient temperature,25℃,inlet water temperature 15℃,
 evaporating temperature-25℃,the medium temperature,-15℃,the condensing
 temperature40℃

 2.Refrigerants:R404A/R22

 3.Power supply:3N/380V/50Hz

 4.Noise ≤70dB



直冷冰砖机 >>>

Straight ice brick machine



直冷冰砖机应用于水产、食品加工、制冰厂、渔港、码头、降温等广泛应用，产量从1吨到50吨单台不等，可以满足不同客户，不同场所用冰需求，

Straight ice brick machine is widely used in aquatic products, food processing, ice factory, fishing port, wharf, cooling and other applications, output from 1 ton to 50 tons per unit, can meet the ice needs of different customers, different places,

Straight ice brick machine occupies small volume in the air and can be moved. Direct ice brick machine practice occupied air volume than salt water occupied air volume reduced by nearly one-third. The size of the air space determines the investment cost of the user's site, and there is no need to dig three feet like the brine ice maker.

The evaporator of the straight ice brick machine adopts the upper icing structure, without the need to soak in the brine as the brine ice machine, so the system does not exist any corrosion phenomenon, the failure rate of the brine ice machine will be removed.

Because there is no corrosion phenomenon, so the evaporator uses fast conduction aluminum alloy material, saving a lot of cooling capacity, equipment energy consumption down, about 70% of the traditional brine ice, about the user, naturally saved a lot of electricity.

Straight ice brick machine intelligent completion of icing, just one key operation, ice with the drag plate slowly down, without the complicated process like the brine ice machine manual operation, that is, save a lot of labor costs, and exponentially improve the efficiency of operation.

Ice without any mechanical and artificial pollution, white jade; Because of the short operation time after the ice, there is no solution loss like brine ice machine. Straight ice brick machine high health standards.

Straight ice brick machine gives up high concentration of chemical agents sodium chloride, completely eliminate the possibility of harmful contact with the machine itself. The production workshop can be clean and tidy. It breaks the traditional impression that large ice cubes are not edible. After the straight ice brick machine out of the ice, as long as the water meets the edible norms, then the ice made out of the edible norms.

The service life of straight ice brick machine is high. Because the evaporator has no corrosion phenomenon of sodium chloride, the straight ice brick machine has entered the normal life cycle of the normal refrigeration product family, and the service life of the ordinary design is more than 12 years without major failure.

<<< 直冷冰砖机参数表

Straight ice brick machine parameter table

型号 Model	产量 Daily Output (T) (吨/24小时)	压缩机品牌 Compressor Brands	冷却方式 Cooling mode	脱冰模式 Compressor Brands	水泵功率 (千瓦) Pump power (KW)	外尺寸 (长*宽*高) mm Size (L*W*H) mm
KCB-2T	2000KG	莱富康	水冷 Water cooling	氟脱冰	420*150*900(50公斤)	5*4=20块,4000*1800*2650,1500公斤
KCB-3T	3000KG	莱富康	水冷 Water cooling	氟脱冰	420*150*900(50公斤)	6*5=30块,4200*2000*2650,2000公斤
KCB-4T	4000KG	莱富康	水冷 Water cooling	氟脱冰	420*150*900(50公斤)	7*6=42块,4800*2150*2650,2500公斤
KCB-5T	5000KG	莱富康	水冷 Water cooling	氟脱冰	420*150*900(50公斤)	7*7=49块,4800*2300*2650,3500公斤
KCB-8T	8000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	9*9=81块,7000*2600*2650,5500公斤
KCB-10T	10000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	10*10=100块,7500*2850*2650,6500公斤
KCB-15T	15000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	10*15=150块,9500*2850*2650,8500公斤
KCB-18T	18000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	12*15=180块,9500*3100*2650,8500公斤
KCB-20T	20000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	12*17=204块,10000*3100*2650,10500公斤
KCB-25T	25000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	14*18=252块,10500*3350*2650,11800公斤
KCB-30T	30000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	420*150*900(50公斤)	13*23=299块,11500*3250*2650,12500公斤
KCB-40T	40000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	380*150*1000(50公斤)	13*31=403块,15400*3300*2700,14500公斤
KCB-50T	50000KG	汉钟	水冷 Water cooling	氟、水脱冰可选	380*150*1000(50公斤)	14*36=504块,模15000*3450*2700,机组3000*2500*2200,17000公斤

- 1.标准工况:环境温度25℃,进水温度:15℃,蒸发温度:-25℃,介质温度:-15℃,冷凝温度:40℃
- 2.制冷剂:R404A/R22
- 3.电源:3N/380V/50Hz
- 4.噪音:≤70dB

- 1.Standard operating condition:ambient temperature,25℃,inlet water temperature 15℃,evaporating temperature-25℃,the medium temperature,-15℃,the condensing temperature40℃
- 2.Refrigerants:R404A/R22
- 3.Power supply:3N/380V/50Hz
- 4.Noise ≤70dB

混凝土降温系列 >>>

Concrete cooling series

大型水电大坝、核电、高速铁路、高层建筑基础大体积的浇注需要采用温控混凝土。混凝土在养护过程中随着水化热的释放，混凝土内部强度逐渐增大，此时水化热使混凝土的温度升高到25℃左右，导致混凝土体积增大，养护过后，混凝土温度下降，体积减小，为避免这增减过程通常会造成混凝土工程出现裂缝。所以每个大型混凝土的基础浇注都需要配备完善的混凝土预冷系统。

Large hydroelectric dam, nuclear power, high-speed railway, high-rise building foundation large volume pouring need to use temperature control concrete. In the curing process of concrete, with the release of hydration heat, the internal strength of concrete gradually increases. At this time, the hydration heat makes the temperature of concrete rise to about 25℃, resulting in the increase of the volume of concrete. After curing, the temperature of concrete decreases and the volume decreases. Therefore, every large concrete foundation pouring needs to be equipped with a perfect concrete precooling system.

第一部分、制冰部分(大型片冰机)

Part I, ice making part (large sheet ice machine)

型号 Model	产冰量 Daily output (kg/24h)	储冰量 Water quantity (kg)	制冷量 Cooling capacity (kcal/h)	蒸发温度 Evaporating Temperature	总功率 (kW) Total power	电源 Power supply	制冷剂 Refrige rant	冷却方式 Cooling mode	机组尺寸 Unit size 长*宽*高 (L*W*H) mm	储冰柜(库)尺寸 Size of freezer (storage) 长*宽*高 (L*W*H) mm	重量 Weight (kg)
KC-15T	15000	8000	84000	-20	50	3P/50HZ/380V	R22/404A/507A	水冷 Water Cooling	3300*2200*1700	以客户实际需求为准 The actual requirements of the customer prevail	2300
KC-20T	20000	10000	112000	-20	63	3P/50HZ/380V	R22/404A/507A		3300*2200*1800		2800
KC-25T	25000	13000	140000	-20	78	3P/50HZ/380V	R22/404A/507A		3600*2250*2000		3100
KC-30T	30000	15000	168000	-20	102	3P/50HZ/380V	R22/404A/507A		4200*2250*2000		3500
KC-40T	40000	20000	224000	-20	124	3P/50HZ/380V	R22/404A/507A		4200*2300*2650		4000
KC-50T	50000	25000	280000	-20	150	3P/50HZ/380V	R22/404A/507A		4800*2500*2700		5200

第二部分.集装箱耙式自动储冰库

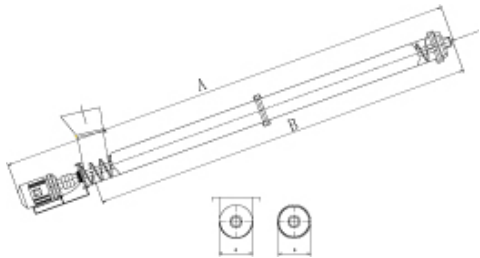
The second part. Container rake type automatic ice storage



储冰库选型参数表

Ice storage type selection parameter table

型号 Model	储冰容量 Water quantity (TON)	长X宽X高(mm) (L*W*H) mm	电源要求 Power requirements	集装箱式冰库储冰型号 (以公称容量为主参数) Container ice storage model (Nominal capacity as the main parameter)
KCK23	23	12192X2438X2896	3N/380V/50Hz	10T, 15T, 20T, 25T, 30T。
KCK40	40	12192X2438X4736		



第四部分.片冰称量部分(螺旋式称重机)：

可称重范围200~3000kg.

预冷混凝土冰库包含以下主要部分：

1. 库体
2. 储冰槽
3. 库内冷风机
4. 耙冰机及其升降装置
5. 冰门及其启闭装置
6. 出冰螺旋机
7. 电气系统

预冷混凝土冰库的监测包括以下三个方面：

1. 冰库存冰量监测
2. 设备运行情况监测
3. 库内温度监测

预冷混凝土冰库的设计工况：

冰库外环境温度为32℃，冰库外环境相对湿度为80%，冰库内温度为-15℃。

预冷混凝土冰库正常运行时：库内各处的温度不均匀性不应超过3℃，库内最高温度不宜高于-12℃，片冰的出库温度不宜高于-7℃。

预冷混凝土冰库在装冰前应先将空库冷却到设计温度，空库从设计环境温度冷却到设计库内温度的时间应不超过4.5h.

<<< 混凝土降温系列

Concrete cooling series

型号 Model	输送量 throughput (ton)	管径Φ Pipe diameter (mm)	倾角 Dip Angle	A (mm)	B (mm)	功率 power (kw)
Kc10	10	250	0°~+30°	16686	15000	7.5
				13686	12000	7.5
				9686	8000	7.5
KC15	15	300	0°~+30°	16686	15000	11
				13686	12000	11
				9686	8000	7.5
KC20	20	300	0°~+30	13686	12000	11
				9686	8000	7.5
Kc25	25	350	0°~+30	13686	12000	11
				9686	8000	7.5

Part IV. Sheet ice weighing part (spiral weighing machine)：

Weighing range of 200~3000kg.

The pre-cooled concrete ice house consists of the following main parts:

1. Library body
2. Ice storage tank
3. Air cooler in the warehouse
4. Ice rake and its lifting device
5. Ice door and its opening and closing device
6. Ice extractor
7. Electrical system

The monitoring of pre-cooled concrete ice storage includes the following three aspects:

1. Ice inventory ice volume monitoring
2. Equipment operation monitoring
3. Temperature monitoring in the warehouse

Design conditions of pre-cooled concrete ice storage:The ambient temperature outside the icehouse is 32℃, the ambient relative humidity outside the icehouse is 80%, and the temperature inside the icehouse is -15℃.

When the pre-cooled concrete ice warehouse is in normal operation, the temperature inequality in all parts of the warehouse should not exceed 3℃, the maximum temperature in the warehouse should not be higher than -12℃, and the exit temperature of sheet ice should not be higher than -7℃.

Before filling the pre-cooled concrete ice storehouse, the empty storehouse should be cooled to the design temperature, and the cooling time from the design ambient temperature to the temperature in the design storehouse should not exceed 4.5h.

高温造雪系统 >>>

High temperature snow making system

高温造雪系统，没有太多的天气要求，比常规造雪机适用的温度更高，对环境的要求更低。高温造雪机的压缩机和冷凝器等制冷设备与常规机器相同，但更加精细。制造出来的雪花更加干燥细腻，空气湿度对其影响很小，高温造的雪是纯雪花。无论是建设室外滑雪场，还是室内冰雪游乐园等，都可以使用。高温造雪机与常规相比，使用温度为10-15度以下，室内温度维持更好，室外施工非常方便，湿度为50%-60%，比常规机器低10%。同时机器会配备一条很长的管道，可以随时分发雪花散落的地方，快捷方便。尤其是在室外的滑雪场，效率非常好。对于环境温度的要求不高（15度以下就可以），在建设时省去制冷成本，对于冰雪乐园来说，高温代表的是更多的流量，填充了常规造雪机温度要求的弊端。

高温造雪机的机器。一台机器可以做出几百上千平方米的雪，特别适合大型滑雪场及室外人工飘雪。同时方便运输。长长的管道延伸了造雪面积，性价比远远高于常规造雪机。室内外冰雪公园，商场、学校、酒店、户外、居民区等区域都可以造雪。

High temperature snow making systems, which do not have many weather requirements, are applicable to higher temperatures and lower environmental requirements than conventional snow makers. The refrigeration equipment such as compressors and condensers in high-temperature snow makers is the same as in conventional machines, but more elaborate. The resulting snow is drier and finer, with little effect on humidity. Snow made at high temperatures is pure snow. It can be used for outdoor ski resorts and indoor ice and snow parks. Compared with the conventional high temperature snow making machine, the use temperature is below 10-15 degrees, indoor temperature maintenance is better, outdoor construction is very convenient, humidity is 50%-60%, 10% lower than the conventional machine. At the same time, the machine will be equipped with a very long pipe, which can be distributed at any time to the scattered places of snow, quick and convenient. Especially in the outdoor ski resort, the efficiency is very good. The requirement of ambient temperature is not high (below 15 degrees Celsius is acceptable), saving refrigeration cost in construction. For the snow park, high temperature represents more flow, filling the drawbacks of the temperature requirements of conventional snow makers.

High temperature snow machine machine. A machine can make hundreds of thousands of square meters of snow, especially suitable for large ski resorts and outdoor artificial snow. It is also convenient for transportation. The long pipe extends the snow making area, and the cost performance is far higher than conventional snow machines. Indoor and outdoor snow parks, shopping malls, schools, hotels, outdoor, residential areas and other areas can make snow.



高温造雪系统特点

- 产雪量大，根据客户的实际用雪需求，可以提供每日1吨-3000吨的人造雪。
- 摆脱自然条件限制，实现春夏秋冬四季不间断造雪。
- 人造雪输送距离远达200米，喷雪直线距离远达25米（输雪管与地面距离为45度角）。
- 设备为集装箱式成套系统，减少现场土建成本，同时起到减少设备噪音之作用。
- 配备远程智能监控安防系统，机器工作状态24小时临控。

Characteristics of high temperature snow making system

- Large snow production, according to customers' actual snow demand, can provide 1-3000 tons of artificial snow per day.
- Get rid of the limitations of natural conditions and realize continuous snow making in spring, summer, autumn and winter.
- The distance of artificial snow conveying shall be as far as 200 meters, and the distance of snow spraying shall be as far as 25 meters in a straight line (the distance between the snow conveying pipe and the ground shall be 45 degrees).
- The equipment is a complete set of containerized systems, which can reduce the cost of on-site civil construction and reduce the noise of the equipment.
- Equipped with remote intelligent monitoring and security system, the working state of the machine is controlled 24 hours.

<<< 管冰机

Tube ice machine



管冰机(Tube ice machine) 为制冰机的一种。因其所生产冰块形状为不规则长度中空管型而得名，其内孔在5mm~15mm的圆柱形空心管状冰，长度在25mm~42mm之间，有多种尺寸可供选择，冰的外径有：22、29、32、35mm等。所生产冰块名称管冰。接触面积为市场现有冰种类中最小，抗融性最好，适合饮品调制、装饰、食物冰藏保鲜等等，故大多为可食用冰。

可食用的管冰主要应用于饮品冷却、食品保鲜、渔船水产保鲜、实验室以及医药应用等

管冰机特点专利净水技术，生产的管冰可直接食用。-蒸发器采用高品质不锈钢304等材料加工，达到国际卫生水平标准。-机器采用一体化设计，结构紧凑，安装使用方便。-PLC电脑模块，制冰过程全自动化。

Tube ice machine is a kind of ice machine. Because of its production of ice shape is irregular length in the empty tube type named, its inner hole in 5mm~15mm cylindrical hollow tubular ice, length between 25mm~42mm, there are a variety of sizes to choose from, the outer diameter of the ice is: 22, 29, 32, 35mm, etc. The name of the ice produced is tube ice. The contact area is the smallest among the existing ice types in the market, and the melting resistance is the best. It is suitable for beverage preparation, decoration, food ice storage and preservation, so most of it is edible ice. Edible tube ice is mainly used in beverage cooling, food preservation, fishing boat aquatic preservation, laboratory and pharmaceutical applications. Tube ice machine features patented water purification technology, the production of tube ice can be directly edible. - The evaporator is made of high quality stainless steel 304 and other materials, which meet the international sanitary standards. - The machine adopts integrated design, compact structure, easy installation and use. -PLC computer module, full automation of ice making process.

管冰机参数表

型号	日产量 KG	机器重量 KG	机器尺寸 mm	功率 KW	电压	压缩机 品牌	冷媒	备注
KCG-1T	1000	600	1400*1050*2150	7.26	380V/50HZ/3P	莱富康	R404A/R22	风冷
KCG-2T	2000	780	1650*1550*2260	11.2	380V/50HZ/3P	莱富康	R404A/R22	风冷
KCG-3T	3000	1200	1700*1500*2150	15.8	380V/50HZ/3P	莱富康	R404A/R22	水冷
KCG-4T	4000	1500	1900*1500*2200	19	380V/50HZ/3P	莱富康	R404A/R22	水冷
KCG-5T	5000	1800	2000*1510*2450	21.9	380V/50HZ/3P	莱富康	R404A/R22	水冷
KCG-6T	6000	1800	2100*1510*2200	28.9	380V/50HZ/3P	莱富康	R404A/R22	水冷
KCG-8T	8000	3000	2000*1800*3200	43.5	380V/50HZ/3P	莱富康	R404A/R22	水冷
KCG-10T	10000	3600	2100*1800*3500	59	380V/50HZ/3P	比泽尔	R404A/R22	水冷
KCG-15T	15000	4500	2400*2050*4600	78	380V/50HZ/3P	比泽尔	R404A/R22	水冷
KCG-20T	20000	5100	蒸发器1750*1850*5050	87.2	380V/50HZ/3P	比泽尔	R404A/R22	水冷分体
			机组2800*2150*2450					
KCG-25T	25000	5500	蒸发器1800*1850*5077	122.6	380V/50HZ/3P	比泽尔	R404A/R22	水冷分体
			机组2900*2150*2350					
KCG-30T	30000	6500	蒸发器2000*2000*5300	141.8	380V/50HZ/3P	比泽尔	R404A/R22	水冷分体
			机组3200*2150*2100					
KCG-40T	40000	7500	蒸发器2100*2180*5800	162.4	380V/50HZ/3P	比泽尔	R404A/R22	水冷分体
			机组3500*2180*2400					

备注：管冰尺寸28*22,2吨以下优先选涡旋压缩机丹佛斯、谷轮，2-10吨优先选活塞压缩机莱富康、比泽尔、博客，10T以上选螺杆压缩机汉钟、比泽尔，具体型号找技术咨询
Note: Tube ice size :28*22,2 tons below the preferred scroll compressor Danfoss, valley wheel, 2-10 tons preferred piston compressor Lefukang, Bitzer, blog, 10T above the choice of screw compressor Hanzhong, Bitzer, specific type for technical consultation



特点：

领先技术的铜镍蒸发盘，制冰速度快，落冰迅速，省时省电。

合理的加大蒸发面积，既保证十足产量，又提高冰块质量。

微电脑探测系统，无需专人操作，使用安全可靠。

冷凝系统与冷凝感温的科学配置，能适应高低不同的环境温度。

储冰桶采用PE整体滚塑工艺，完全符合国家食品级准入标准筛选世界名牌部件，使用寿命长，高效节能（省水省电）

六面体冰块，接触面大，可使冰品迅速冷却。

不锈钢外壳（前面板特殊工艺处理，不粘油污）豪华大方，易清洗。

Advantages:

Copper nickel evaporation tray with advanced technology, ice faster, ice falling rapidly, energy saving.

Reasonable increase in the evaporation area, both to ensure full production, and improve the quality of ice.

Microcomputer detection system, without special operation, the use of safe and reliable.

The scientific configuration of condensation system and condensation temperature can be adapted to different environment temperature.

Ice storage tank with PE overall rotational molding technology, fully in line with the national food standards for admittance into screening of world famous brand components, the use of long life, high efficiency and energy saving (water saving and electricity saving)

Hexahedral ice, large contact surface, the ice cooled rapidly.

Stainless steel case (special technology of the front panel, non greasy dirt) is luxurious and easy to clean.

产品样式 Product style	型号 Model	日产量 Daily Output (KG/24小时)	日产量 Daily Output (IB/磅)	储冰量 (kg) Bin capacity	规格 W*D*H(cm) Bin capacity	功率/冰格数量 (电压频率220~240V/50HZ) Power / ice cell quantity	冷凝方式 Condensation mode
一体式	SK80P	36	80	15	45*50*82	单相220V、300W . 5*8=40	风冷 Air cooling
	SK100P	45	100	15	45*50*82	单相220V、300W . 4*11=44	风冷 Air cooling
	SK120P	54	120	18	59*50*82	单相220V、360W . 5*12=60	风冷 Air cooling
	SK160	72	160	36	68*66*90	单相220V、380W . 5*16=80	风冷 Air cooling
	SK210P	90	210	45	68*66*90	单相220V、420W . 5*18=90	风冷 Air cooling
	Sk280	126	280	63	68*66*90	单相220V、480W . 7*18=126	风冷 Air cooling
分体式	SK350P	140	350	120	81*57*158	单相220V、900W . 12*13=156	水冷/风冷 Water/Aircooling
	SK420P	189	420	120	81*57*158	单相220V、1100W. 13*14=182	水冷/风冷 Water/Aircooling
	SK500P	225	500	190	81*78*168	单相220V、1240W. 13*18=234	水冷/风冷 Water/Aircooling
	SK700P	310	700	190	81*78*168	单相220V、1460W. 13*20=260	水冷/风冷 Water/Aircooling
	SK800P	360	800	190	85*58*185	单相220V、1460W. 18*19=342	水冷/风冷 Water/Aircooling
	SK1000P	450	1000	190	81*78*185	单相220V、2300W. 19*20=380	水冷/风冷 Water/Aircooling
	SK1500P	675	1500	450	81*122*178	单相220V、2860W .13*18*2=468	水冷/风冷 Water/Aircooling
	SK2000P	900	2000	450	81*122*195	三相380V、3950. 19*20*2=760	水冷 water-cooling
雪花机	FK-100	100	220	50	66*67*98	单相220V、420W	风冷 Air cooling
	FK-200	200	440	75	66*67*125	单相220V、750W	水冷/风冷 Water/Aircooling
	FK-600	600	1300	500	76*85*179	单相220V、1460W	水冷 water-cooling
	FK-2200	一吨	4400	450	76*85*193	三相380V、3950w	水冷 water-cooling
家用台式	ZP-22BT	15	35	3	42*38*52	单相220V,200W	风冷 Air cooling
（★ 强力 推荐 ★） 专利新款带语音	CL-3I	31公斤		10公斤	46*45*81	4*10=40专利语音系统；全304外壳	风冷 Air cooling
	CL-4I	41公斤		20公斤	53*52*90	5*12=60专利语音系统；全304外壳	风冷 Air cooling
	CL-5I	51公斤		20公斤	53*52*90	6*12=72专利语音系统；全304外壳	风冷 Air cooling
	CL-8I	81公斤		30公斤	66*65*107	5*18=90专利语音系统；全304外壳	风冷 Air cooling
	CL-9I	91公斤		30公斤	66*65*107	6*18=108专利语音系统；全304外壳	风冷 Air cooling
	CL-10I	101公斤		30公斤	66*65*107	7*18=126专利语音系统；全304外壳	风冷 Air cooling

- 1.标准工况:环境温度25℃,进水温度:15℃,蒸发温度:-25℃,介质温度: -15℃, 冷凝温度: 40℃

2.制冷剂:R404A/R22

3.电源:3N/380V/50Hz

4.噪音:≤70dB
- 1.Standard operating condition:ambient temperature,25℃,inlet water temperature 15℃, evaporating temperature-25℃,the medium temperature,-15℃,the condensing temperature40℃

2.Refrigerants:R404A/R22

3.Power supply:3N/380V/50Hz

4.Noise ≤70dB



冷库-库体 Cold Storage

冷库板(聚氨酯)介绍

- 1、冷库板以良好隔热性能的轻质聚氨酯为内心材料，外面由SII、PVC彩钢板、不锈钢板构成的夹板式库板，可以降低由于内外温差而产生的传热，以达到冷冻、冷藏系统的最大效率。
- 2、冷库板厚度规格：80、100、120、150mm
- 3、冷库板库板尺寸规格：标准化的库板宽为960 mm，高度为2米至10米。（另：根据您的特殊要求还可特别定制）

Introduction of Polyurethane refrigerator board

- 1、The cold storage heat-insulated board take the greatest polyurethane as the innermost material, outer skin is made of the SII, the PVC colored steel plate and the stainless steel plate,so it can reduce the heat transference due to the temperature difference between inside and outside so as to achieve the maximum efficiency of the refrigeration and cold storage system.
- 2、Thickness of cold storage: 80, 100, 120, 150mm
- 3、The size of cold storage board : The width of the standardized storehouse board is 960 mm, the height ranges from 2 meters to 10 meters. (note: it can be customized to meet customers' particular requests)



冷库-制冷机组 Refrigerating units

制冷机组及选型参数表 Refrigerating units model

型号 Model	机组功率 Units power	制冷量 Refrigerating capacity	接管规格 Pipe standard		外型尺寸(mm) Size		
	KW	W	回气管 air-returning pipe	液管 Liquid pipe	A	B	C
KCD-40	3.34	6010	φ22	φ12	960	680	520
KCD-50	3.8	7400	φ22	φ12	1060	680	730
KCD-64	4.86	9780	φ22	φ12	1300	750	770
KCD-80	6.0	12380	φ28	φ16	1300	800	970
KCD-100	7.0	14340	φ28	φ16	1300	850	1170
KCD-125	9.32	19190	φ28	φ16	1300	850	1420

标准工况：

- 1、电源:3N/380V/50Hz
- 2、冷却方式:风冷
- 3、蒸发温度-18℃，冷凝温度35℃

Standard operating condition:

- 1、Power supply:3N/380V/50Hz
- 2、Cooling mode:Air cooling
- 3、Evaporating temperature:-18℃,condensing temperature:35℃



冷库-冷风机 Air Cooler

冷风机的应用

冷风机(又称空气冷却器)是一种用于各种冷库的冷却降温设备，凯利空气冷却器有KCL、KCD、和KCJ三种型式分别适用于不同库温的冷库。

KCL型适用于库温为0℃左右的冷库，如保存鲜鸡蛋或蔬菜的库；
KCD型适用于库温为-18℃左右的冷库，作为肉、鱼类等冷冻食品的冷藏用；
KCJ型适用于库温为-25℃或低于-25℃的冷库作为鲜肉或鲜鱼制品等冻结用。

The application of air cooler

The air cooler is a kind of cooling equipment applied to a variety of cold storage. D type series air cooler is classified in accordance with the cold storage temperature, which includes three types KCL、KCD、and KCJ .

KCL type is applicable for cold storage around 0℃, which is used for keeping fresh food such as vegetables and eggs;

KCD type is suitable for cold storage around -18℃,which is used for keeping food such as meat and aquatic products;

KCJ type is appropriate for -25 ℃ cold storage, which is used for freezing fresh meat and fish products .

冷风机的主要结构特点及性能

- 1.外壳采用注塑工艺，耐腐蚀，外观美观。
- 2.盘管以错排方式布置，传热效率高，通过机械管将铝翅片套在铜管上连接牢靠。
- 3.该产品为厂内配线，所有接线均置于一个接线盒内安装维修方便
- 4.排水盘中央最低处设有排水接头，排水可靠。
- 5.槽型吊架，安装方便。
- 6.U型管状不锈钢管及氧化镁填料的电热管，置于盘管中，融霜效果良好。
- 7.根据客户需要可采用长距离送风或防爆型电机。

Main structural characteristics and performance of air cooler

- 1.Sprayed surface ,corrosion resistance and beautiful in shape
- 2.Coil adopted staggered permutation ,and Aluminum fins are firmly connected with copper tubes to ensure heat exchange high efficiently
- 3.The wires of this product are equipped before leaving the factory □which are all put in a wiring closet so as to install and Maintain easily.
- 4.The lowest central part of the drainage pan is a outlet that helps drain efficiently
- 5.Slot-type hangers, easy installation
- 6.Stainless steel tubes used for the electric hot-melt frost system whose fin heating tube is directly placed into the inside
- 7.long distance air or explosion-proof motor can be installed to meet customer's requirements

冷风机的选型参数表 Air Cooler models

型 号 Model	蒸发温度 Evaporating Temperature	名义换热量 Nominal heat transmission	冷却面积 Cooling area	管容积 Tube volume	风 机 Cooling Fan				融霜电热器 Defrost heater		重量 Weight
		(Kw)	m2	dm3	风量 Air volume	直径 Diameter	射程 Range	电机功率 Motor power	功率 Power	电压 Voltage	
		△t=7℃			m3/h	Φmm	m	w	KW	V	
KCL-5.5/25	0℃	5.46	25	5.0	5100	330	10	3×90	2.4	220	59
KCL-8.0/40	0℃	8.02	40	8.3	6000	400	12	2×250	2.4	220	82
KCL-10.6/55	0℃	10.56	55	11.1	6000	400	12	2×250	2.4	220	98
KCL-16.3/80	0℃	16.3	80	16.5	12000	500	17	2×550	3.6	220	165
KCD-7.4/40	-18℃	7.44	40	11.1	6000	400	12	2×250	4.8	220	95
KCD-11.7/60	-18℃	11.72	60	16.5	12000	500	17	2×550	7.2	220	160
KCD-15.9/80	-18℃	15.88	80	22.7	12000	500	17	2×550	9.5	220	180
KCD-18.6/100	-18℃	18.6	100	26.3	18000	500	17	3×550	11.1	220	240
KCJ-7.7/40	-25℃	7.67	40	16.5	12000	500	17	2×550	7.2	220	157
KCJ-10.4/55	-25℃	10.41	55	22.7	12000	500	17	2×550	8.4	220	177
KCJ-12.8/70	-25℃	12.84	70	26.3	18000	500	17	3×550	13.2	220	232
KCJ-15.8/85	-25℃	15.79	85	33	18000	500	17	3×550	13.2	220	252

通常适用的库温范围:

KCL高温系列: 库温0~5℃;

KCD中温系列: 库温-20~0℃;

KCJ低温系列: 库温-31~-18℃;

悬挂式制冷蒸发器制冷量选择:

正确选择压缩机的蒸发温度和制冷量q0

当库房温度在0℃附近时，压缩机蒸发温度和库房温度的差值取8℃;

当库房温度在-18℃附近时，压缩机蒸发温度和库房温度的差值取7℃;

当库房温度在-25℃附近时，压缩机蒸发温度和库房温度的差值取6℃;

根据选定的蒸发温度，按照库房计算负荷的1.15倍选择压缩机制冷量。

选择冷风机翅片型式:

当库房温度在0℃附近时，片距取4.5;

当库房温度在-18℃附近时，片距取6;

当库房温度在-25℃附近时，片距取8。

根据选定压缩机的额定工况制冷量q0选择冷风机型号:

当库房温度在0℃附近时，按照1.0×q0选择冷风机;

当库房温度在-18℃附近时，按照1.1×q0选择冷风机;

当库房温度在-25℃以下时，按照1.27×q0选择冷风机。

Generally applicable cold storage temp range:

KCL high temperature series:cold storage temp 0 ~ 5℃

KCD medium temperature series:cold storage temp - 20 ~ 0℃

KCJ low temperature series:cold storage temp - 31 ~ - 18℃

The standards of refrigeration capacity about suspension refrigeration evaporator

Correct selection about compressor evaporating temperature and refrigeration capacity Q0

When the temperature of cold storage is around 0℃,the temp difference should be 8℃between Compressor

evaporating temperature and cold storage temperature

When the temperature of cold storage is around -18℃， the temp difference should be 7℃

between Compressor evaporating temperature and cold storage temperature

When the temperature of cold storage is around -25℃， the temp difference should be 6℃

between Compressor evaporating temperature and cold storage temperature

According to the selected evaporating temperature ,Compressor refrigeration capacity should be 1.15 times

as much as warehouse load

The fin model of air cooler

When the warehouse temperature is around 0℃,the fin spacing ought to be 4.5

When the warehouse temperature is around -18℃,the fin spacing ought to be 6

When the warehouse temperature is around - 25℃,the fin spacing ought to be 8

Selecting the model of air cooler according to the refrigeration capacity under rated

operating conditions of the selected compressor

When the temperature of cold storage is around 0℃，Select the cooling fan in accordance with 1.0 × q0

When the temperature of cold storage is around -18℃，Select the cooling fan in accordance with 1.1 × q0

When the temperature of cold storage is around-25 ℃，Select the cooling fan in accordance with 1.27 × q0