English

Snowkey

Slurry Ice Machine

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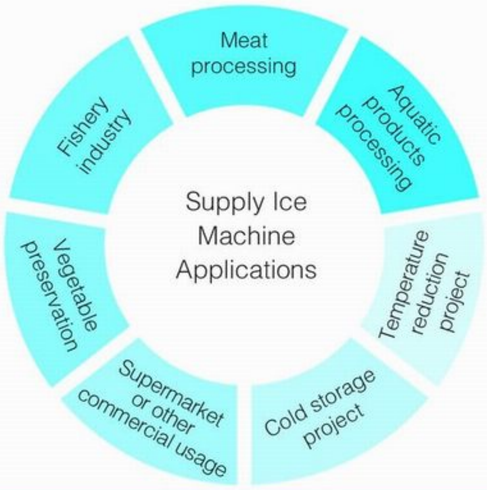
Slurry Ice

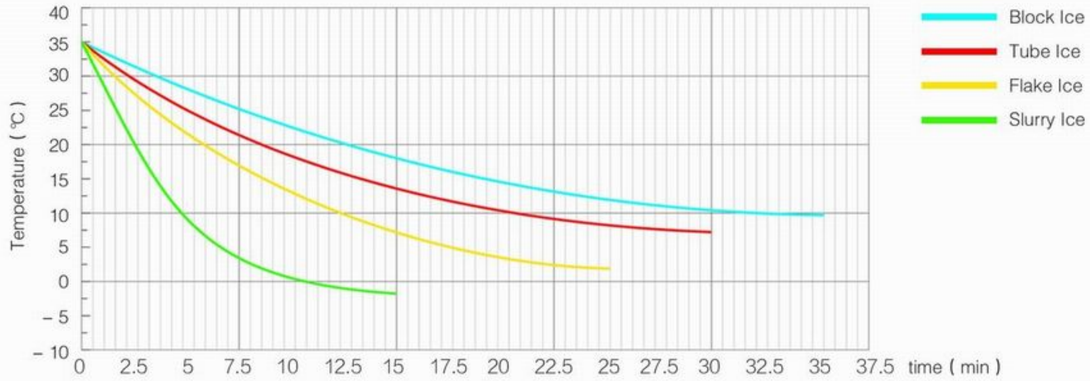
Slurry ice, flowable, is the mixture of ice crystal and water solution (usually sea water, brine, sweet water or glycol). It is also known as fluid ice, liquid ice and so on.



Slurry Ice Advantages

- Compared with solid ice, slurry ice requires less energy, space and cost. Usually, for 10~12kg ice,1kWH electricity is required, while slurry ice machine can produce 47kg under same electricity.
- Slurry ice has the best cooling efficiency.100% of its surface cooling area can be used. Compared with the mixture of flake ice and water, slurry ice demand less ice crystal.
- Slurry ice is extremely suitable for pump delivery through hoses or pipes and easy to store and use.
- Slurry ice can fully wrap the target products. Therefore, there is no air sink between the products and the slurry ice, maximize the contact and heat transmission surface. Absorb heat better, faster and more efficiently.
- Slurry ice is soft without sharp edge. No damage to the surface of target products.

Comparison Between Solid Ice and Slurry Ice



Note:The figure shows schematically the different features among slurry ice and other ices, as well as various experiments on 500g American gurnards freezing from initial temperature 35℃.

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Slurry Ice Machine Advantages

- Reliable and Adaptable
  From design, R&D to production, we are committed to creating stable and reliable products, which can applied to various working conditions.
- Efficient Heat Exchange and Min. Salinity
  Benefit from large surface area and high heat exchange efficiency, SNOWKEY slurry ice machine requires sea water with min. salinity 0.25%. Therefore, sea water can be used directly for ice making. No need to add brine to system. It can be applied to most of sea area, globally.
- High Refrigeration Efficiency
  Difference between evaporating and brine freezing temp should be kept at 7~12℃ for making ice, while other types of ice require 18~28℃. Thus, slurry ice machine can continuously make ice fast and stable.
- Hygienic Standards
  Evaporator and water line accessories are all made of stainless steel SUS and PE material.
- Compact and Pumpable
  SNOWKEY slurry ice machine boasts advantages of max. ice output and smallest installation space. Slurry ice can be pumped to any ice destinations with small hoses, which reduces labour cost and avoids ice contamination.
- Comprehensive Solution
  SNOWKEY slurry ice machine with high output, small footprint. Aquatic products are constantly maintained at low temp when surrounded with ice from storing, transporting and processing. Assembled by solid and anticorrosive components,it can be applied to harsh marine environment and provide comprehensive solutions.

Standard Slurry Ice Machine on–land Specifications

Machine Unit				Compressor			Specification			
Model	Type	Medium	Capacity (Tons/day)	Refrigeration Capacity (kW)	Type	Motor (HP)	Power Consume (kW)	Installed Power (kW)	Cold Water Circulating Flow (m^3/hr)	Length × Width × Height (mm)
S50WI	water cooled	sea water, salt water	5	9.4	piston	6	4.65	5.5	4	1420 × 1200 × 1500
S100WI	water cooled	sea water, salt water	10	18.3	piston	12	7.5	9.8	8	1600 × 1200 × 1650
S150WI	water cooled	sea water, salt water	15	26.9	piston	22	13.5	19.2	12	2350 × 1100 × 1470
S200WI	water cooled	sea water, salt water	20	35.8	piston	30	17	25	15	2720 × 1160 × 1650
S250WI	water cooled	sea water, salt water	25	46.8	piston	37	22.5	31.25	18	2800 × 1600 × 2000
S375WI	water cooled	sea water, salt water	37.5	64.2	piston	50	30.8	42.2	22	3050 × 1750 × 2260

Note：1、Standard conditions: 3P/380V/50Hz,R22 system, sea water supply pressure 1.5bar;
2、Standard conditions: ambient temperature 33℃,water supply temperature 10℃, standard ice crystal rate 40%;
3、Mainly design on water cooled completed unit, non–standard air cooling separated unit will be optional.
4、Mainly design on on–land type with ice storage bin on ship, on–board ship will be optional.
5、The data above is the theory of average, there will be ±5% changes for the actual value.