

DRAK

Refrigeration Industry

**Manufacturer Of Flake Ice Machine
Forst Maker , Cold Machine**



Technical Specification

Production of Drum Freezer

Petro ofogh Fanavaran is the first company in Iran Producing Flake Ice Machines. Drums as main core in flake ice machine used to be imported to Iran and other machine part used to be assembled. Such production cause non competitive market and was troublesome to be guaranteed, Now Petro- Ofogh Fanavaran is producing Drum Freezers entirely in Iran and guarantee his machine for 18 months. Utilizing the best methods for leak testing has created such ability for our company. Our production has a wide range of capacities from 0.5T to 50T per days. The Drums are produced in 2 types of Carbon and Carbon Steel.



Ice Storage

As this machine produce ice in -7°C , they are not adhered and maintenance duration will rise. Flake ice should be kept in 0° but to keep them more than 24 hours, you ought to convert flake ice to block ice by using hydraulic compactor.

Storage and Transportation of Perishable Materials

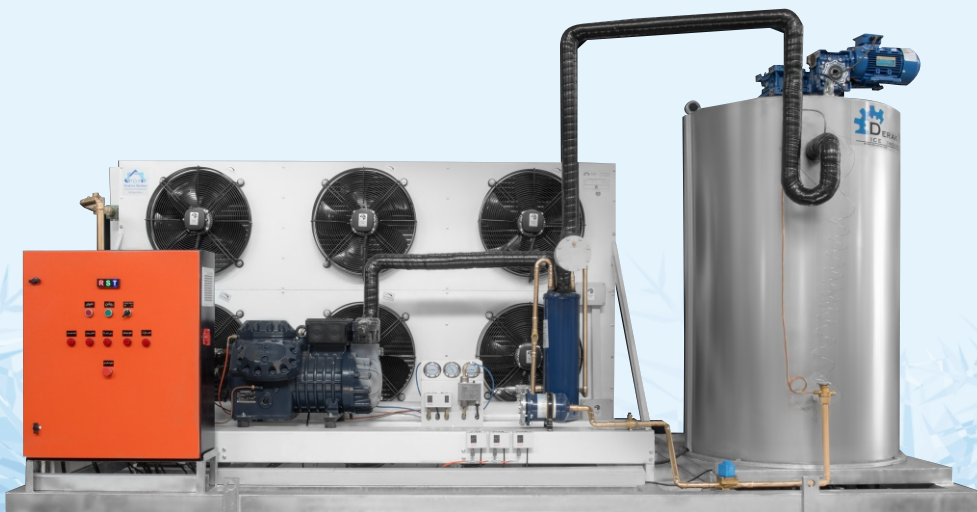
Using flake ice has had a significant role in storage of perishable materials. This hygienic and non-adhesion Flake ice is able to maintain foods and perishable materials in favorable temperature.



Technical Specification

Aquatic and Fishery industry

The most Significant usage of flake ice is in Fishery industry according to the high sensitivity to maintain freshness. Producing hygienic and non-adhesion ice, keeping the fisheries in a favorable temperature and being affordable are features of this machine. Different shapes of ice producing by our Flake Ice Machine can be used in all transportation, packing, storage and distribution stages. The flake ice machine can easily be set on ships, using sea water instead of fresh water.



Chemical Industry

In all chemical industries, using flake ice is considerable in products quality assurance. Using flake ice for a rapid temperature decrease is crucial due to large surface heat exchange in pharmaceutical and chemical industries which needs high accuracy.

Meat products

In order to maintain sanitation, lower infection and rapid temperature decrease in food industry and meat production using Ice Flake is more affordable according to high speed of output and economy usage of water and energy.



Ice has been a cooling method from way back. The very first Ice maker machine and refrigeration Industry founded in 1851 and had a significant progress and efficient usage since then. Ice machine has made an evolution by covering food and industry demands. These days more than 30 types of ice in different shapes and temperatures are being produced. Jelly ice & flake ice are most commonly used. Continuous Ice production comparing to old methods provide low power consumption along with more efficiency.

By using the latest technology Flake Ice Machine is designed and being produced by P.O.F (Petro Ofogh-e Fanavaran) for the first time in Iran in different capacities.

Flake Ice Advantages

- ★ **Dry and clean ice:** Comparing to the old methods of producing ice, the current method is more hygienic.
- ★ **Non-adhesion ice:** As this machine produce ice in -7°C , they are not adhered and preservation duration will rise. Flake ice should be kept in 0°C but to keep them for more than 24 hours, you ought to convert flake ice to block ice using hydraulic compactor.
- ★ **Hygienic Ice:** Technology used in this machine make human factors less involved. Using stainless Steel in order to have conformity to the World Food Standards put the machine in the hygienic category.
- ★ **No sharp corners** to prevent damage to delicate objects & foodstuffs package; so it can be applied for food needs to remain fresh.
- ★ **Ease of transfer:** Usually ice are produced far away from where it need to be used; but flake ice should easily be loaded to the transportation vehicles or there is a chance of using flake ice machines right at the place where ice is needed.

Ice Maker Machine Specifications

- ✦ Continuous Ice production.
- ✦ Feasible to design and produce in air and water condensers.
- ✦ Main Ice Machine parts are made of Stainless steels, SUS300 and pure aluminum alloy.
- ✦ Best Drum evaporator design, efficient Refrigeration cycle.
- ✦ Fixed drum & movable blades.
- ✦ High strength and less erosion comparing to old technology.
- ✦ chassis for ease of transportation.
- ✦ Power: single phase & three phase according to the type of Machine.
- ✦ Flake Ice convertibility to block ice by hydraulic ice compactor.

Concrete Refrigeration System and Batching Equipments

In order to control concrete temperature in hydration time due to chemical interactions it is vital to keep them in specific temperature to prevent fraction. As construction and oil and gas industry are spotlights in Iran nowadays, we have faced more usage of concrete; so using flake ice is affordable since it can be used on project sites in every weather conditions. also producing block ice and then performing crushing process leads to loss of time and energy.

For batching plants, you can easily produce ice in a favorable amount while using concrete in the construction sites. In this situation you don't need to produce ice in the factory and transfer them to the project site which leads to loss of time and energy.

In this process we face a considerable energy and time waste reduction and enhancing efficiency which are significant achievements.



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+98 912 888 33 14
+98 917 712 49 81



pofiran_co



www.drakmachine.com

 Head Of Fice:705 , 1166 , Saman Bldg., Kargar Ave., Tehran, Iran