

OMEGA

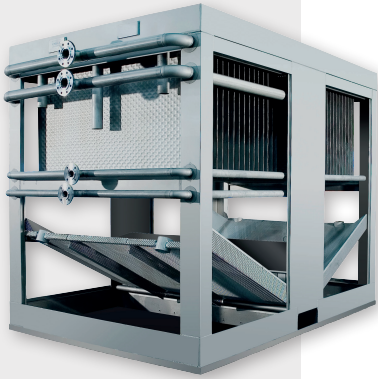


THERMO PRODUCTS

ICE
MACHINES

WWW.OMEGATHERMOPRODUCTS.COM

LEADING IN HEAT TRANSFER TECHNOLOGY



LARGE ICE QUANTITIES WITH OMEGA ICE MACHINE

Omega Ice Machines can be used in various industries. Our Ice Machines are the ideal solution if you require large amounts of ice for your application. The Omega Ice Machine is designed with efficiency in mind, they take up less space and are easy to maintain due to utilisation of laser welded Omega Laser Plates which functions as the evaporator.

The Omega Ice Machine works as follows: Water is pumped to a distribution pan, from here it flows down to the top of the evaporator and then film on the exterior of the Laser Plates. A refrigerant is pumped on the interior of the evaporator which results in a uniform ice buildup on the exterior of the Laser Plates. Once the ice reaches a thickness of between 5mm and 10mm, which is depending on the application requirements, there is a hot gas cycle applied to the inside of the evaporator so the ice buildup is released from the exterior of the Laser Plates to fall down into a reservoir. Once the ice falls down it breaks into smaller pieces which then allows it to be pumped out or transported by a screw conveyor to where the ice is required.

Why should you use an Omega Ice Machine?

- ▶ Capacities from 1 ton up to >100 tons/day ice per unit
- ▶ Low energy consumption due to high refrigerant evaporating temperature and low volume
- ▶ No moving parts which results in low maintenance requirements
- ▶ Large ice production due to efficient laser welded evaporator Laser Plates
- ▶ Units are easily cleanable due to the accessibility from all sides of the evaporator and large spaces between the Laser Plates
- ▶ Large heat transfer area compared to the footprint required
- ▶ Custom designed and manufactured to your specification requirements

Applications

In the beverage industry for cooling drinks

In the fishing industry for cooling fish

In the concrete industry for mixing and cooling concrete

Ice production for thermal storage

Ice for the mining industry

In the poultry and meat production process

Specifications

All of our Ice Machines are custom-made. Please consult an Omega Thermo Products Sales Engineer so we can discuss your requirements for cooling or heating and determine which solution is best suitable for you. Below are some of the service medium and material options:

Cooling or heating medium

Numerous cooling or heating mediums can be used with our Ice Machines, such as R717, CO₂, Propylene Glycol, Ethylene Glycol, and Freon refrigerants.

Materials

Omega Ice Machines can be made of stainless steel types such as 304, 316, SMO-254 and Duplex 2205.

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Omega Thermo Products Certifications



ASME U-stamp, Canadian Registration Number, PED

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