

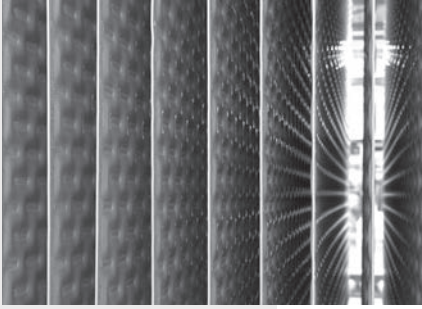
OMEGA  
  
THERMO PRODUCTS

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# ICE BANKS

[WWW.OMEGATHERMOPRODUCTS.NL](http://WWW.OMEGATHERMOPRODUCTS.NL)

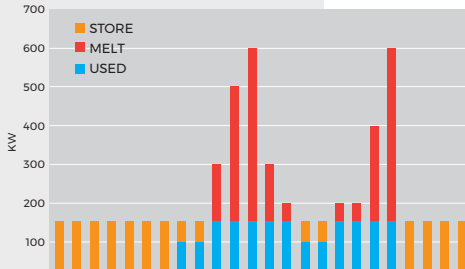
LEADING IN HEAT TRANSFER TECHNOLOGY



The Omega Static Ice Bank system is a technology based on storing cooling capacity at night and using it the following day to cool. At night when electricity is generated at a lower cost, chillers cool fluid and store it normally as chilled water or ice. During the daytime when electricity is more expensive the chiller is turned off and the stored capacity is used to meet the cooling load requirements. Lower temperatures at night allow refrigeration equipment to operate more efficiently than during the day, reducing energy consumption. Less chiller capacity is required, which means lower initial capital equipment cost. Using off-peak electricity to store cooling energy reduces peak daytime power consumption, forestalling the need for additional expensive power plants.

## Why should you use an Omega Ice Bank?

- › Excellent solution for thermal energy storage
- › Reduces peak daytime power consumption
- › Improved control characteristics due to low refrigerant volume
- › Compact design that can be used for various applications
- › Lower initial capital equipment cost because less chiller capacity is required
- › Available capacity is constant compared to tubular systems where capacity is decreasing in time
- › Large heat transfer area compared to the footprint required



# ICE BANKS THE SOLUTION FOR THERMAL STORAGE

## Applications

For air conditioning in large commercial or industrial buildings

Chilled water in dairy plants

For turbine inlet air cooling

For cooling in food processing

For emergency cooling as a back-up for chilling units

## Specifications

All of our Ice Banks 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 suited for you.

### Capacity

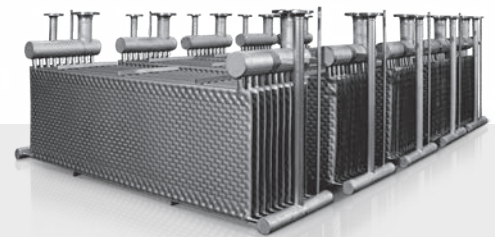
Omega Ice Banks are supplied in capacities > 1,500 kWh per unit. For each Pillow Plate an ice build-up of approx. 50 mm can be generated on both sides of the plate.

### Cooling or heating medium

Numerous cooling or heating mediums can be used with our Ice Banks, such as R717, CO<sub>2</sub>, Propylene Glycol, Ethylene Glycol, and Freon refrigerants.

### Materials

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



Do not hesitate to contact Omega with your process requirements.

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