

AUTOMATIC FLAKE ICE PLANTS



SURIA FLAKE ICE PLANT

SURIA ENGINEERING

Engineers And Turnkey Contractors

INTRODUCTION

Having determined to produce the best quality products through the introduction of modern technology on the designing and manufacturing, We have started manufacturing Flake Ice Plant Since 1998 to cater to the industrial needs.

Our honesty and sincerity to our clients including the complete after-sales service are the main ingredients of our credibility.

Suria Automatic Flake Ice Plants are in great demand in Pakistan for their robust construction, dependable machine, less space requirements and continuous & steady production of flake ice. These plants do not require accessories necessary for conventional ice plants such as huge brinetanks, ice cans, water filling apparatus, hoist, etc.

**NO OTHER ICE MAKER GIVES YOU
MORE THAN SURIA FLAKE ICE**

VERSATILE

- Available in five models producing from 2 to 10 tonnes of flake ice a day. (24 hours)
- Freezes fresh water and seawater.
- Can be installed on shore or aboard ship with a broad range power inputs.

ECONOMICAL

- Produces more ice than any other ice maker using a comparable compressor: 1.3 tons of refrigeration per ton of ice using 60°F. incoming water.
- Operation is simple No attendant is required.
- Features Simplified refrigeration controls and piping.
- Reduces refrigeration losses with totally insulated enclosure.
- Converts all water to ice with compact design.
- Minimum Maintenance required.

DEPENDABLE

Protects against leaks with a stationary evaporator design which does not require refrigerant seals.

WHY FLAKE ICE IS THE BEST ?

Companies using ice in their plants can choose from two types of ice: block and flake. If you want to make, store and distribute ice over many user points at low cost, there are several advantages which only flake ice can give you:

EFFECTIVE COOLING SURFACE

Flake ice has more than 17,000 sq. ft. of cooling surface per ton.

BETTER PRODUCT COVERAGE

Small but flat ice flakes flow more freely and provide greater contact area.

GREATER PRODUCT PROTECTION

Flake ice remains dry, packs well and cushions your product against damage during packing, storage and transportation.

EASILY STORED AND DISTRIBUTED

Flake ice is dry on both sides and does not congeal or form into clumps. It will not freeze-up in the bin, clog screw or pneumatic conveyors.

MORE ECONOMICAL

Flake ice can be manufactured with less energy than any other type of ice requires 1.3 tons of refrigeration per ton of ice using 60°F water.

APPLICATIONS

For these reasons, flake ice has become a preferred method of cooling in many diverse applications in industries such as Seafood Storage and shipment. Perishable produce Cooling and Transport, Poultry and Meat processing, Milk Plant Bakery dough cooling, Dyestuff and Chemicals manufacturing and Concrete cooling in Construction industry.

HOW THE SURIA FLAKE WORKS

All Suria models operate the same way. Only their physical size and consequent capacities differ.

Every Suria Flake Ice Maker is a vertical, double-walled, cylindrical evaporator. The Cylinder remains stationary, while the internal rotor, water rings and drip shield revolve.

Water is pumped into the top of the rotor and distributed through the water rings onto the inner freezing surface. A high-velocity, low - temperature refrigerant contained between the cylinder's walls freezes the water almost immediately.

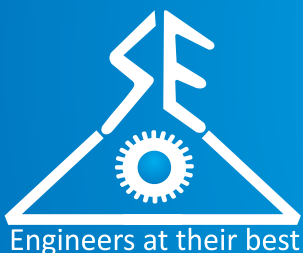
No water is delivered with the ice because the drip shield deflects the excess water into the tank recirculated to make more ice. Ice can be continually produced, even 24 hours a day, without an attendant. In case of power failure, all water drains into the water recirculation tank.

There is no danger of ice freezing up, in the system.

TECHNICAL DATA OF SE10 SURIA FLAKE ICE PLANT

ICE MAKING CAPACITY	: 10 US ton/24 hr
NECESSARY COMPRESSOR CAPACITY	: 50,000 kcals/hr
MAKE-UP WATER TEMP	: 30° C
CIRCULATING WATER REQUIRED FOR ICE MACHINE	: 650 L/hr
TOTAL ELECTRICAL LOAD OF PLANT	: 45 KW
SPACE REQUIRED FOR ICE MAKING MACHINE W x B x H in mm	: 2140 x 1550 x 1750

- I. The ice produced in flake ice plant is continuous and reaches its peak soon after switching on the machine.
- ii. It is a very compact unit and occupies only 60 sq.m. area against conventional ice plant.
- iii. Totally hygienic method of production.
- iv. Stores in sub-zero temperatures. The flake ice does not melt or freeze into a mass.



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