

FLAKE ICE MACHINE

Our flake-ice machines are of European design and are manufactured for the most strict technical requirements.

Our machines are equipped with an evaporator which is a stainless steel insulated double wall cylinder mounted in a vertical position. Water is pumped into the top tray and then distributed on the inner drum surface as a continuous water screen. The low temperature refrigeration inside the double wall will allow the water to freeze to the surface. A spiral knife removes the ice without actually touching the inner wall of the ice drum. Due to the fact that the drum itself is static, there is no risk of refrigerant emission resulting from leaking seals. It also enhanced the simplicity of operation and serviceability.

Only the best quality mechanical and electrical parts like relays and safety devices are used for our machines.

Standard design of our ice makers means an ambient temperature of +25°C, fresh or sea water inlet of +16°C and an evaporating temperature of -20°C/-25°C. The ice temperature will be approx -7°C.

Tropical design of our ice makers means an ambient temperature of +40°C, fresh or sea water inlet of +25°C and an evaporating temperature of -20°C/-25°C. The ice temperature will be approx -7°C.

Ice thickness: The ice thickness can be adjusted between 1,8 – 2,2 mm

When using colder water inlet (for example coming from a Water Chiller of another system), the ice production capacity can be increased up to 20%

All units thru 2,5 ton/24hr. are furnished with Maneurop hermetic compressors. Above 2,5 ton/24hr. the units are furnished with one or more Bitzer semi-hermetic compressors. On request we can supply the ice maker also with Bitzer screw compressors or other brands.

For ease of installing and starting up, the machine is completely 'plug and play', assembled with all the required components like frame, compressor(s), condenser, switch board, piping, cabling etc. On request the units can be quote with separate condensers.

Also it is possible to deliver the ice-drum without compressor unit but including;

- water reservoir and water pump
- salt mixing pump
- heavy gear motor for the ice-knife

Installation and commissioning;

Optionally we can arrange for the following on-site services to assure proper workin of the machine;

- interconnecting copper piping between condenser and flake ice machine
- interconnecting cabling
- connecting to water feed
- pressure testing and charging with refrigerant
- commissioning of the entire plant

Technical data of Flake Ice Machines

Type:	HOS30AT-5
Ice production capacity:	3 ton per 24/hr
Power supply (V / ph / Hz):	400 V / 3 ph / 50 Hz
Refrigeration capacity:	16,5 kW
Power consumption:	11,5 kW
Design outside air temperature:	+40°C
Design entering water temperature:	+25°C
Evaporating temperature:	-23°C
Compressor (type / brand / qty):	Piston / Bitzer / 1
Condenser:	Air-cooled build as a package
Refrigerant:	R 404A
Measurements:	1800x1200x1100 mm (LxWxH)
Weight:	± 1.000 kg.
Materials;	Piping: Copper
	Drum: Non corrosive, high heat transfer alloy
	Ice Knife: Stainless steel
	Switch board: Painted steel
	Frame: Galvanized steel

Delivery condition

Delivery time: direct available (1 piece)

Included:

- P&ID drawings
- Electrical diagrams
- Packing

Excluded:

- Custom clearance and documents
- Transport
- Refrigerant

Warranty: One (1) year. This warranty covers the replacement of defective parts, including the labour costs.