

## Flake Ice Machine

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**Flake Ice** irregular, thin scale shape ice at the size of around 40x40mm, thickness is between 1.5~2.5mm. (Note: flake ice has two ice forms. Scale ice and granular ice, Linsky flake ice machine series mostly refer to the scale ice, granular ice machine is available on request). Flake ice can be made from fresh water and seawater.

### Flake Ice Features

- white attractive appearance;
- sub-cooled, fast product cooling. Temperature approx.  $-8^{\circ}\text{C}$ , with greater cooling efficiency. Fit for perishable product immediate cooling;
- completely dry, it won't rapidly freezing together in a low-temperature storage bin or clog screw conveyors or pneumatic delivery systems, easier for storage and distribution;
- large contact area, good mobility, which means large heat exchange surface area, faster and better cooling effect than other types of ice and its flat shape won't damage the delicate or fragile seafood products;
- thin piece, easy to melt rapidly and dissipate heat, add moisture to mixtures and assist the mixing process;
- the thin ice is easy to crush, mold, and shovel.

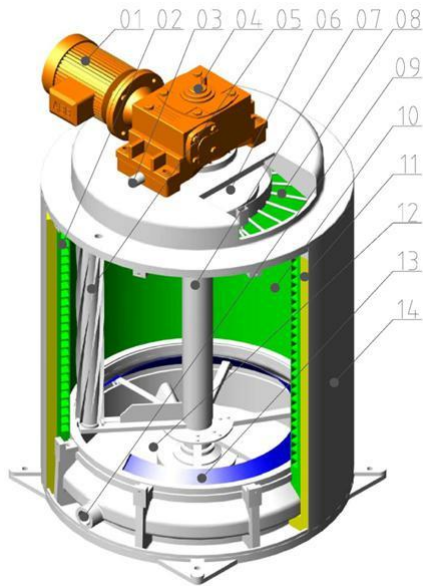
**Flake Ice Applications** Fish industry, food processing industry, supermarkets, retail shops, bakery, laboratory, chemical and pharmaceutical industry, hospitals, medical offices, concrete mixing plants, skiing ground and other entertainment services etc.,

### Flake Ice Machine Features

- Internally-scraping ice remover helps to reduce energy loss, guarantee the supply of refrigerant, and prevent leakage of refrigerant;
- Stainless steel materials, advanced processing equipment and heat treatment to ensure the best heat transfer efficiency;
- The large-area design of low water pan prevents the leakage of water from the bottom of the evaporator;
- Install photoelectric switch at the bottom of the evaporator instead of ice bin;
- Directly liquid feeding, dry-type evaporation make simple, safe and reliable control;
- Integrated modular equipment to facilitate installation and maintenance on the spot;
- Make ice from fresh water or seawater, installs on land or onboard vessels;
- Ice thickness can be varied by changing the speed of the rotor;
- Warranty period

Complete Package	12~15 months
Compressor	3 years
Evaporator	3 years
Condenser	3 years
Cooling Tower	15 months

## How does a flake ice machine work?



- 01. Motor
- 02. Refrigerant runner
- 03. Water inlet
- 04. Speed reducer
- 05. Ice skate
- 06. Water distribution pan
- 07. Principle axis
- 08. Water sprinkler
- 09. Water return pipe
- 10. Ice freezing surface
- 11. Insulation layer
- 12. Ice outlet
- 13. Drain pan
- 14. Stainless steel wrapper sheet

\* The diagram of flake ice machine working principle

As shown, motor (01) drives speed reducer (04) running. Ice skate (05), Water distribution pan (06), principle axis (07), water sprinkler (08) and drain pan (13) are driven by reducer and run continuously. From water inlet (03), water flows into water distributor pan (06) then sprinkles water on Ice freezing surface (10) evenly, herein a film of water is formed. While the ice machine is running, refrigerant evaporate in refrigerant runner (02). The temperature of water decreases quickly till a layer of thin ice is formed on ice freezing surface. Under the extrusion of ice skate (05), the thin ice layer turns into ice flake and then falls from ice outlet (12) below evaporator. And the partial unfreezing water returns to the cold water tank through drain pan from water return pipe (09).

### Small Capacity Flake Ice Machine

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- Linsky small capacity flake ice machine is compact and space-saving. It is extensively used in supermarket, retail shop, hospitals, medical offices, and laboratory;
- There are standard 6 models in Linsky small capacity flake ice machine category. The default cooling mode of each model is air-cooled;
- Customization can be made according to client's different requirements;
- Compatible ice bins are available to supply, you can contact Linsky sales for the details.

**Note:** Click the model number for details.

Model	Capacity	Refrigerant	Operating Power	Install Power	Operating weight	Dimension
<a href="#">LIF-05K</a>	500kg/day	R22/R404A	1.98kw	2.8kw	195kg	L1180×W720×H540mm
<a href="#">LIF-08K</a>	800kg/day	R22/R404A	2.20kw	3.2kw	228kg	L1180×W720×H650mm
<a href="#">LIF-10K</a>	1000kg/day	R22/R404A	4.18kw	4.4kw	375kg	L1180×W720×H775mm
<a href="#">LIF-15K</a>	1500kg/day	R22/R404A	5.76kw	6.3kw	455kg	L1550×W1180×H875mm

<a href="#">LIF-20K</a>	2000kg/day	R22/R404A	7.12kw	7.8kw	465kg	L1550×W1180×H950mm
<a href="#">LIF-25K</a>	2500kg/day	R22/R404A	9.35kw	9.8kw	535kg	L1550×W1180×H1100mm

Standard condition: dry bulb temperature is 35℃ and inlet water temperature is 25℃.

### Brief Introduction

Information and data of flake ice plant have been collected and analyzed to be used for the product development and design improvement to suit the working condition.

- Power supply: standard electrical is 380V/3P/50Hz, we accept different electrical. Please inform us the change when place the order;
- Configuration: Danfoss scroll compressor, air-cooled condenser, ready to use on-site after water and power plug in;
- Refrigerant: R22/R404A is available to use, the standard refrigerant we use is Eco-friendly R404A;
- Carbon or stainless steel ice drum options;
- Ice bin: the standard models of small capacity don't equip with ice bin. Please ask for it in your inquiry if you need one. Linsky offers different looks [ice bin](#) for various applications.

### Medium Capacity Flake Ice Machine

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- The medium capacity flake ice machine, which capacity ranges from 3 ton/24hrs to 20 ton/24hrs;
- All equipment is installed on one steel frame except the cooling tower so it's very convenient to install on spot and it can be put into use immediately after connecting it with the water and electricity resource;
- The default cooling mode of each model is water-cooled, air-cooled or evaporative-cooled is available if clients ask for;
- Compatible ice bins are available to supply, you can contact Linsky sales for details.

**Note:** Click the model number for details.

Model	Capacity	Refrigerant	Operating Power	Install Power	Operating weight	Dimension
<a href="#">LIF-30K</a>	3ton/day	R22/R404A	8.8kw	10.5kw	Ice Machine: 938kg	L1680×W880×H1180mm
					Cooling Tower: 260kg	∅1170x1940mm
<a href="#">LIF-40K</a>	4ton/day	R22/R404A	13.65kw	15.5kw	Ice Machine: 980kg	L1680×W880×H1380mm
					Cooling Tower: 260kg	∅1170x1940mm
<a href="#">LIF-50K</a>	5ton/day	R22/R404A	17.55kw	20.8kw	Ice Machine: 1150kg	L2050×W1250×H1605mm
					Cooling Tower: 460kg	∅1380x2170mm
<a href="#">LIF-80K</a>	8ton/day	R22/R404A	23.55kw	28kw	Ice Machine:	L2480×W1644×H1600mm

					1780kg	
					Cooling Tower: 540kg	Ø1580x2205mm
<a href="#"><u>LIF-100K</u></a>	10ton/day	R22/R404A	32.25kw	41kw	Ice Machine: 2180kg	L4150×W1406×H1760mm
					Cooling Tower: 540kg	Ø1580x2205mm
<a href="#"><u>LIF-150K</u></a>	15ton/day	R22/R404A	48.75kw	58kw	Ice Machine: 3080kg	L4311×W2150×H2050mm
					Cooling Tower: 670kg	Ø2000x2410mm
<a href="#"><u>LIF-200K</u></a>	20ton/day	R22/R404A	58.75kw	78kw	Ice Machine:3490kg	L4900×W1680×H2490mm
					Cooling Tower:1120kg	Ø2175x2565mm
Standard condition: dry bulb temperature is 35℃ and inlet water temperature is 25℃.						

### Brief Introduction

Information and data of flake ice plant have been collected and analyzed to be used for the product development and design improvement to suit the working condition.

- Power supply: standard electrical is 380V/3P/50Hz, we accept different electrical. Please inform us the change when place the order;
- Configuration: Bitzer compressor, Danfoss valves, Siemens PLC, Schneider Electrical etc world famous brand components. Neat and simple operation design makes it hassel-free machine;
- Refrigerant: R22, R404a, R507A;
- Ice maker freezing surface: chrome-plated, carbon or stainless steel available;
- Steel base foundation on request;
- Ice storage: usually flake ice machine needs to be equipped with [ice storage](#) , Linsky offer [non-refrigerated ice bin](#), [refrigerated ice storage](#), and [automatic ice storage](#) for different operating conditions.

### Large Capacity Flake Ice Machine

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- The large capacity flake ice machine, which capacity ranges from 25 ton/24hrs to 60 ton/24hrs;
- The default cooling mode of each model is water-cooled, air-cooled or evaporative-cooled is available if clients ask for;
- Customization can be made according to client's different requirements;
- Large capacity flake ice machine is widely used in chemical industry, food processing, concrete cooling etc.,

**Note:** Click the model number for details.

Model	Capacity	Refrigerant	Operating Power	Install Power	Operating weight	Dimension
<a href="#">LIF-250K</a>	25ton/day	R22/R404A	76.55kw	102kw	Unit:1800kg	L2250×W1550×H1600mm
					Evaporator:2650kg	L2400×W1680×H2450mm
					Cooling Tower:1120kg	∅2175x2565mm
<a href="#">LIF-300K</a>	30ton/day	R22/R404A	100.55kw	122kw	Unit:2750kg	L2750×W2200×H2200mm
					Evaporator:4450kg	L2640×W2145×H2598mm
					Cooling Tower:1300kg	∅2650x2645mm
<a href="#">LIF-400K</a>	40ton/day	R22/R404A	145.65kw	178kw	Unit:2950kg	L2950×W2200×H2200mm
					Evaporator:5480kg	L2780×W2390×H3027mm
					Cooling Tower:2730kg	∅3300x2785mm
<a href="#">LIF-500K</a>	50ton/day	R22/R404A	171.8kw	215kw	Unit:3150kg	L3050×W2200×H2200mm
					Evaporator:6380kg	L3056×W2390×H3327mm
					Cooling Tower:3640kg	∅3770x3490mm
<a href="#">LIF-600K</a>	60ton/day	R22/R404A	210.45kw	275kw	Unit:3680kg	L3350×W2200×H2200mm
					Evaporator:6380kg	L3056×W2390×H3577mm
					Cooling Tower:3640kg	∅3770x3490mm

Standard condition: dry bulb temperature is 35℃ and inlet water temperature is 25℃.

### Brief Introduction

Information and data of flake ice plant have been collected and analyzed to be used for the product development and design improvement to suit the working condition.

- Power supply: standard electrical is 380V/3P/50Hz, we accept different electrical. Please inform us the change when place the order;
- Configuration: Bitzer compressor, Danfoss valves, Siemens PLC, Schneider Electrical etc world famous brand components. Neat and simple operation design makes it hassel-free machine;
- Refrigerant: R22, R404a, R507A;
- Ice maker freezing surface: chrome-plated, carbon or stainless steel available;
- Steel base foundation on request;
- Ice storage: usually flake ice machine needs to be equipped with ice storage , Linsky offer non-refrigerated ice bin, refrigerated ice storage, and automatic ice storage for different operating conditions.

## Seawater Type Flake Ice Machine

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- The standard models of seawater type flake ice machine, also called onboard flake ice machine which capacity ranges from 800 kg/24hrs to 6ton/24hrs;
- More options for daily capacities from 6 tons to 20 tons. The capacity above 6 ton/day machines fit for on-land use;
- Linsky seawater flake ice machine adopts anti-corrosion & anti-pitching design suitable for rough condition, particularly corrosive marine environment, the cooling mode is water-cooled;
- Customization can be made according to client's different requirements;
- Widely applied in fishing vessels, pier, coastal area fresh keeping, coastal area chemical, concrete industry etc.

**Note:** Click the model number for details.

Model	Capacity	Refrigerant	Operating Power	Install Power	Operating weight	Dimension
<a href="#">LIF-08S</a>	800kg/day	R22/R404A	3.55kw	4.4kw	550kg	L1180×W720×H635mm
<a href="#">LIF-10S</a>	1000kg/day	R22/R404A	4.275kw	5.5kw	600kg	L1180×W720×H775mm
<a href="#">LIF-20S</a>	2000kg/day	R22/R404A	6.535kw	8.7kw	668kg	L1550×W1180×H950mm
<a href="#">LIF-30S</a>	3000kg/day	R22/R404A	9.21kw	12kw	950kg	L1680×W880×H1180mm
<a href="#">LIF-40S</a>	4000kg/day	R22/R404A	13.83kw	16kw	980kg	L1680×W880×H1380mm
<a href="#">LIF-50S</a>	5000kg/day	R22/R404A	16.58kw	20kw	1250kg	L2050×W1250×H1605mm
<a href="#">LIF-100S</a>	10000kg/day	R22/R404A	34.3kw	46kw	2180kg	L4150×W1406×H1760mm

Standard condition: dry bulb temperature is 35℃ and inlet water temperature is 25℃.

### Brief Introduction

Information and data of flake ice plant have been collected and analyzed to be used for the product development and design improvement to suit the working condition.

- Power supply: standard electrical is 380V/3P/50Hz, we accept different electrical. Please inform us the change when place the order;
- Configuration: Bitzer compressor, Danfoss valves, Siemens PLC, Schneider Electrical etc world famous brand components. Neat and simple operation design makes it hassle-free machine;
- Refrigerant: R22, R404a, R507A;
- Stainless steel base foundation and electrical box on request;
- Ice storage: usually flake ice machine needs to be equipped with [ice storage](#), Linsky offer [non-refrigerated ice bin](#), [refrigerated ice storage](#), and [automatic ice storage](#) for different operating conditions.

## Containerized Type Flake Ice Machine

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- To realize easy move, Linsky provides containerized type flake ice machine, also called mobile flake ice plant;

- Linsky can provide customized containerized flake ice machine respond to different power supply, refrigerant and daily capacity requirement;
- Widely applied in concrete cooling, fishery and food processing, artificial skiing ground, dye chemical industry etc.

### Specification of Containerized Type Flake Ice Machine

Model	Capacity	Refrigerant	Operating Power	Install Power	Operating weight	Dimension
<a href="#">LIF-50C</a>	5ton/day	R22/R404A	17.55kw	20.8kw	5815kg	L6058×W2438×H2591mm
<a href="#">LIF-80C</a>	8ton/day	R22/R404A	23.55kw	28kw	7000kg	L6058×W2438×H2591mm
<a href="#">LIF-100C</a>	10ton/day	R22/R404A	32.25kw	41kw	7500kg	L6058×W2438×H2591mm
<a href="#">LIF-150C</a>	15ton/day	R22/R404A	48.75kw	58kw	8000kg	L6058×W2438×H2591mm
<a href="#">LIF-200C</a>	20ton/day	R22/R404A	58.55kw	78kw	12000kg	L6058×W2438×H2591mm
<a href="#">LIF-250C</a>	25ton/day	R22/R404A	76.55kw	92kw	13500kg	L6058×W2438×H2591mm
<a href="#">LIF-300C</a>	30ton/day	R22/R404A	100.5kw	122kw	15000kg	L12192×W2438×H2896mm
<a href="#">LIF-400C</a>	40ton/day	R22/R404A	145.65kw	178kw	16000kg	L12192×W2438×H2896mm
<a href="#">LIF-500C</a>	50ton/day	R22/R404A	171.8kw	225kw	17000kg	L12192×W2438×H2896mm

Standard condition: dry bulb temperature is 35℃ and inlet water temperature is 25℃.

**Note:** Click the model number for details.

### Brief Introduction

Linsky containerized flake ice machine is specially designed to fit in 20 feet container and 40 feet container. The containerized ice machine is usually combined to use with containerized automatic ice storage and ice conveyor system to realize an easy mobile flake ice plant. It simplifies transport, installation and commissioning process, as compressor, condenser, electrical control cabinet, evaporator and other assembled accessories are fixed, pre-piped and wired in the container, all you need to do is prepare water source and electricity;

We provide the following chart for you to better understand how our containerized flake ice machine composed of.

Capacity	Container Type	Remark
5 Ton/Day	20 feet	Integral
8 Ton/Day	20 feet	Integral
10 Ton/Day	20 feet	Integral
15 Ton/Day	20 feet	Integral
20 Ton/Day	20 feet	cooling system installed outside



25 Ton/Day	20 feet	cooling system installed outside
20 Ton/Day	40 feet	Integral
25 Ton/Day	40 feet	Integral
15*2 Ton/Day	40 feet	Integral, dual systems
20*2 Ton/Day	40 feet	cooling system installed outside, dual systems
25*2 Ton/Day	40 feet	cooling system installed outside, dual systems

\*The chart of containerized flake ice machine

