FLAKE ICE MACHINE

TOMORI
TOTAL REFRIGERATING EQUIPMENTS
トータル リフリジレーティング イクイップメント

Flake ice features

- Irregular ice flakes with size about 40x40mm and thickness around 1.5 - 2mm.
- The thin ice can be directly used for stirring and mixing refrigerated materials.
- No accute edges and corners so it will not damage the surface of the cooled object.
- Large contact area and fast cooling speed.
- Easy to crush and mold.

Equipment features

- Internally-scaping ice skate can help reduce energy consumption and prevent leakage of refrigerant.
- Stainless steel materials, advanced processing equipment and heat treatment processing ensure the best heat transfer efficiency.
- The design of large water receiving plate can prevent water leaking at the bottom of evaporator.
- Photoelectric switch is directly installed at the bottom of evaporator to realize automatic control of full ice.
- Direct liquid feeding and dry evaporation, simple and safe to control.
- integrated modular design, convenient to install and maintain.

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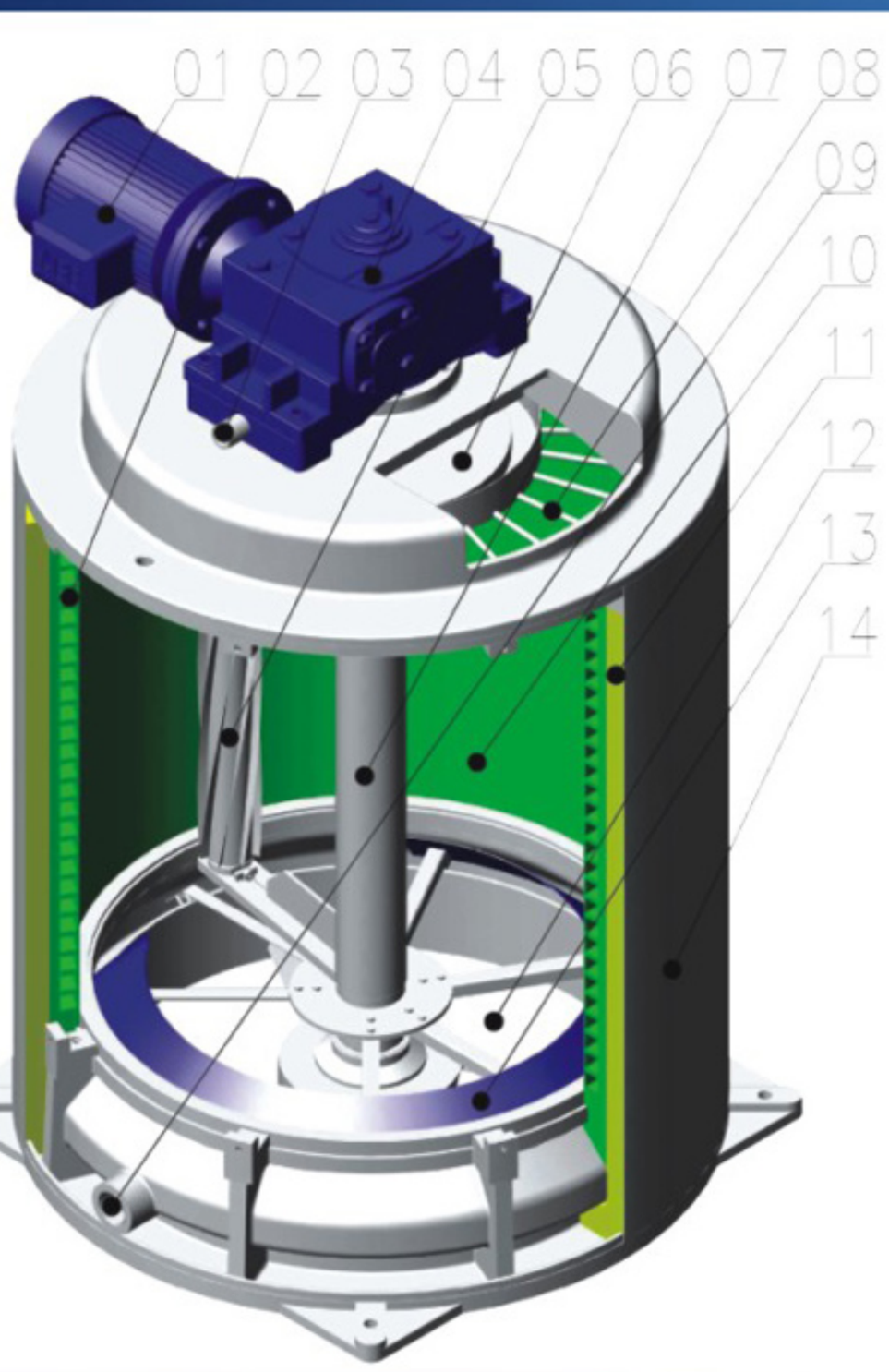
Ice making principle

Ice skate water sprinkling pan, priciple axis and low water pan are driven by reducer and run slowly counter clockwise. From the water inlet water flows into water distributor which then sprinkles water on inner wall evenly, herein a film of water is formed.

Water film has heat exchange with refrigerant and its temperature quickly decreases till a layer of thin ice is formed on ice freezing surface. Under the extrusion of ice skate, the thin ice layer turns into ice flake and then falls into ic bin from ice outlet. And the partial unfreezing water returns to the cold water tank through low water pan from water return outlet, waiting for cycle use by means of cold water circulating pump.



Legend :
01 Electro Motor
02 Refrigerant Runner
03 Water Inlet
04 Speed Reducer
05 Ice Skates
06 Water Sprinkling Pan
07 Principle Axis
08 Water Sprinkler
09 Water Return Pipe
10 Inner Wall
11 Insulation Layer
12 Ice Outlet
13 Low Water Pan
14 Stainless Steel Wrapped Sheet

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Technical parameter for small air cooling flake ice machine

Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H))
TMF-04K	0.4T	R22/R404A	1.955 kw	2.0 kw	205kg	1200×740×550mm
TMF-05K	0.5T	R22/R404A	2.255 kw	2.5 kw	208kg	1200×740×590mm
TMF-08K	0.8T	R22/R404A	3.135 kw	3.5 kw	235kg	1200×740×650mm
TMF-10K	1.0T	R22/R404A	4.195 kw	4.2 kw	380kg	1200×740×780mm
TMF-12K	1.2T	R22/R404A	4.835 kw	4.9 kw	420kg	1400×960×780mm
TMF-16K	1.6T	R22/R404A	5.865 kw	5.9 kw	450kg	1560×1200×880mm
TMF-20K	2.0T	R22/R404A	6.780 kw	7.2 kw	480kg	1560×1200×960mm
TMF-25K	2.5T	R22/R404A	7.9 60kw	9.5 kw	550kg	1560×1200×1150mm
Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H)

Technical parameter for medium capacity water cooling flake ice machine

Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H) ¡)
TMF-30K	3.0T	R22/R404A	8.940kw	10kw	950kg	1700×900×1200mm
TMF-40K	4.0T	R22/R404A	13.89kw	15kw	1000kg	1700×900×1200mm
TMF-50K	5.0T	R22/R404A	17.72kw	21kw	1250kg	2200×1050×1550mm
TMF-60K	6.0T	R22/R404A	20.25kw	23kw	1400kg	2200×1050×1600mm
TMF-80K	8.0T	R22/R404A	25.55kw	27kw	1800kg	3400×1550×1800mm
TMF-100K	10T	R22/R404A	34.31kw	37kw	2200kg	3550×1550×2100mm
TMF-150K	15T	R22/R404A	49.35kw	56kw	3200kg	4000×1850×2400mm
TMF-200K	20T	R22/R404A	60.41kw	75kw	3600kg	4200×2000×2914mm
TMF-250K	25T	R22/R404A	78.85kw	95kw	4500kg	4200×2000×3050mm
Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H)

Technical parameter for large capacity water cooling flake ice machine

Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H) ¡)
TMF-300K	30T	R22/R404A	102.45kw	125kw	(unit)：2800kg (evaporator)：4500kg	2800×2200×2200mm 2400×2000×3000mm
TMF-350K	35T	R22/R404A	115.35kw	140kw	(unit)：2800kg (evaporator)：4600kg	2800×2200×2200mm 2400×2000×3200mm
TMF-400K	40T	R22/R404A	147.35kw	180kw	(unit)：3000kg (evaporator)：5500kg	2800×2200×2200mm 2800×2400×3600mm
TMF-500K	50T	R22/R404A	176.3kw	220kw	(unit)：3200kg (evaporator)：6500kg	2800×2200×2200mm 3000×2500×4500mm
TMF-600K	60T	R22/R404A	214.9kw	280kw	(unit)：4500kg (evaporator)：6500kg	3400×2200×2200mm 3000×2500×4500mm
Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H)

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SEA WATER FLAKE ICE MACHINE

SPECIAL FLAKES ICE MACHINE FOR FISHERY VESSEL

Power supply

Standard power supply is 380V, 3 phase, 50Hz. Can be customized to other voltage according to the request.

Structure

The structure design according to classification standard, use deeper oil groove piston compressor, and the seawater condenser also marine use standard. Also connection parts are welded, compact design. It can works properly even the vessel are swing at 30 degree.

Feature

Special design for Vessel ice maker. Avoid seawater corrosion, vessel swing, and other problems in vessel. Use seawater to make flakes ice.

Regardless of the vessel's pitching and rolling, the unique surface of drum that is made of stainless steel has been combined with pressureized water injection which can steadily keep making ice on-board of ensuring the water is forced into the cylinder wall and not drop into the ice storage.

Onboard ice machine operates automatically, which doesn't require any staff to control or maintain it regularly, therefore it can save labor costs tremendously. This kind of machine can produce ice in 3-5 minutes and the quality of ice has reached the world standard.

PERFECT SEAWATER FLAKES ICE FOR FISHERY

Technical parameter for seawater flake ice machine

Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H))
TMV-08K	0.8T	R22/R404A	3.665kw	4.5kw	560kg	1200×780×650mm
TMV-10K	1.0T	R22/R404A	4.295kw	5.5kw	620kg	1200×735×782mm
TMV-20K	2.0T	R22/R404A	7.150kw	9.0kw	680kg	1560×1200×880mmm
TMV-30K	3.0T	R22/R404A	11.33kw	14kw	720kg	1590×1200×1017mm
TMV-40K	4.0T	R22/R404A	14.94kw	18kw	780kg	1670×880×1180mm
TMV-50K	5.0T	R22/R404A	17.28kw	22kw	860kg	1700×880×1180mm
TMV-60K	6.0T	R22/R404A	21.24kw	26kw	950kg	2460×1000×1500mm
Model	Daily capacity	Refrigerant	Power consumption	Installed power	Operating weight	Dimension (L * W * H)

The given parameter is subject to be changed without further notice due to technical upgrading and innovation. For more accurate data, please refer to our engineering and sales group.