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**FUJIAN SNOWMAN GROUP CO., LTD.**

Address: No. 8 Dongjiang West Road, Changle District, Fuzhou, Fujian, China.

Tel: +86 (591) 2870 1111

Fax: +86 (591) 2870 9222

E-mail: info@snowman.cn

www.snowman.cn/en



Snowman Group reserves the right to change its products without notice in advance.
The technical parameters shall be subject to order contract or technical appendix of the contract.


Snowkey

# Ice Machines


Global Service Hotline
**400-109-6660**

2000 SNOWKEY founded, 1st commercial flake ice machine launched.

2001 1st industrial flake ice machine 35 T/day launched.

2002 1st factory in Binhai Industnal District put into use, 1st fully automatic ice storage and delivery system launched.

2003 Enter chemical, food, mining and hydraulic industry market.

2004 Modular concrete cooling system launched and enter Middle East market.

2005 Became China largest commercial and industrial ice maker manufacturer, and participated in the construction of Burj Khalifah Tower in Dubai (The world's tallest building).

2006 Awarded the honor of National Torch Plan Project & Fujian high- tech enterprise.

2007 Unique supplier of concrete cooling products for national nuclear power projects.

2008 Awarded as the organizing and compiling team for national ice maker standard.

2009 Restructuring into joint stock enterprise, became one of the largest suppliers for concrete cooling system in Mid-east.

2010 Launched the vertical marine seawater flow ice machine and participated in the construction project of the new port in Doha, Qatar.

2011 SNOWKEY rated as China Famous Trademark and public listed on the Shenzhen Stock Exchange in December.

2012 Won the bid for the Hong Kong-Zhuhai-Macao Bridge concrete cooling equipment project, and participated in the construction projects of Riyadh University City and Jeddah Airport in Saudi Arabia.

2013 Factory in Liren Industrial District put into use, Postdoctoral Scientific Research Workstation founded and got ASME certification.

2014 Flake ice machine and tube ice machine got PED certification. Ice making systems ranked top in the global sales.

2015 The new compressors assembly line was put into use, and the $CO_2$, propane flake ice machines were launched.

2021 To be continue..... Snowkey

# CONTENT

Supermarket,
fruit & vegetable
preservation
(Flake ice, slurry ice)

Dye & pigment chemical
engineering
(flake ice, tube ice,
plate ice, chilled water)

Concrete cooling
(flake ice, tube ice,
chilled water)

Mine cooling
(flake ice, chilled water)

Edible ice
(plate ice, tube ice)

Ski resort
(flake ice)

Agricultural processing
(flake ice, chilled water)

Environmental engineering,
Pipe cleaning
(flake ice, slurry ice)

Medical engineering
(flake ice, tube ice)

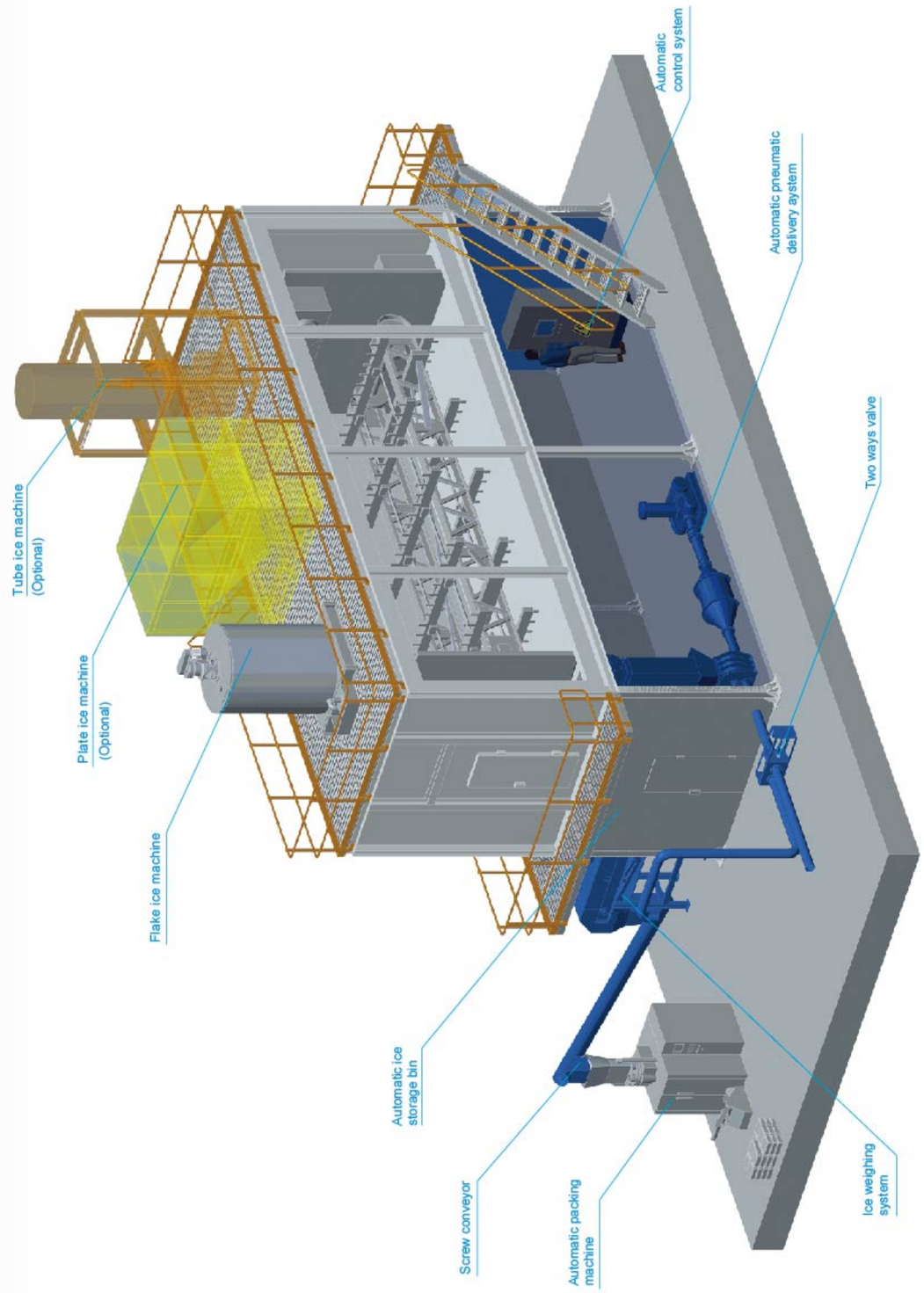
Cold storage project
(plate ice, slurry ice)

Bakery
(flake ice)

Meat processing
(flake ice, chilled water)







## Flake Ice Machine

- Designed and manufactured under the pressure vessel standard, thus making this product durable, safe and reliable.
- Produce flake ice continuously at low temperature. Low temperature ice and high efficiency.
- Optimized system design ensures the machine work stably with a low failure rate.
- Environment friendly refrigerant achieves environment protection and energy efficiency.
- Complete product series to meet different application requirement.
- High supercooling, dry ice, even thickness and ultra-high output.
- Unattended operation.
- CE(PED)\ ASME certified, high quality level.
- Containerized design for extreme working conditions and stable operation.
- Beautiful appearance, reasonable overall layout, comprehensive details, keep improving to the best.


## Model Code

F xxx W P I J — 1

Power
1 380V/3P/60Hz 9 220V/3P/50Hz
2 400V/3P/50Hz 10 440V/3P/50Hz
3 400V/3P/60Hz 11 230V/1P/50Hz
4 415V/3P/50Hz 12 240V/3P/60Hz
5 415V/3P/50Hz 13 240V/3P/50Hz
6 440V/3P/60Hz 14 230V/3P/60Hz
7 460V/3P/60Hz 15 220V/3P/50Hz
8 220V/3P/60Hz 16 230V/1P/60Hz
0 380V/3P/50Hz, "-0" is omitted and not written

Ice blade type（J-Rake blade, None-Spiral blade）

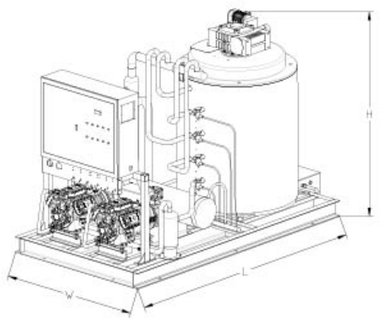
Layout （I-Integrated type. A-Split type）

Refrigerant（P-R507A；A- 717；S-R404A；Z-Others, None-R22）

Condensing type（W: Water cooled，A: Air cooled，E: Evaporative condensing S-None）

Ice output code=nominal ice output (t/24h)*10 (adding 0 before ice output code volume code when the ice production is less than 1t/24h)

Type（F- fresh water flake ice macine. FIM - flooded type flake ice machine, SFM- seawater flake ice machine for ship environment , SF- seawater flake ice machine for land- using ,FIP- containerized ice machine.








## Technical Parameters for Fresh Water Ice Machine

| Unit | | Nominal Condition | | | Performance Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (℃) | Water Supply Temperature (℃) | Condensing Temperature (℃) | Nominal Production (t/24h) | Power (kW) | Ice Outlet Dimension (mm) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| F050API | Air cooled | 30 | 16 | 40 | 0.5 | 2.9 | Ø375 | 1200 | 735 | 684 | 210 |
| F075API | | | | | 0.75 | 3.2 | Ø375 | 1200 | 735 | 684 | 230 |
| F10API | | | | | 1 | 4.7 | Ø375 | 1200 | 735 | 825 | 250 |
| F12API | | | | | 1.2 | 5.6 | Ø375 | 1200 | 735 | 825 | 260 |
| F16API | | | | | 1.6 | 6.6 | Ø510 | 1490 | 1180 | 935 | 370 |
| F20API | | | | | 2 | 7.4 | Ø510 | 1490 | 1180 | 1009 | 450 |
| F25API | | | | | 2.5 | 9.1 | Ø510 | 1490 | 1180 | 1069 | 480 |
| F30API | | 33 | 20 | 43 | 3 | 11.8 | 554×554 | 1890 | 1560 | 1186 | 800 |
| F40API | | | | | 4 | 19.2 | 554×554 | 2165 | 1650 | 1180 | 1100 |
| F50API | | | | | 5 | 21.6 | 870×870 | 2700 | 1675 | 1605 | 1600 |
| F60API | | | | | 6 | 27.5 | 870×870 | 2700 | 1675 | 1605 | 1800 |
| F80API | | | | | 8 | 34.9 | 1034×1034 | 3135 | 1840 | 1746 | 2100 |
| F100API | | | | | 10 | 42.1 | 1034×1034 | 3683 | 1950 | 2006 | 2700 |
| F40WPI | Water cooled | 30 | 20 | 40 | 4 | 15.1 | 554×554 | 2100 | 1100 | 1550 | 1100 |
| F50WPI | | | | | 5 | 21.7 | 870×870 | 2700 | 1100 | 1602 | 1300 |
| F60WPI | | | | | 6 | 25.4 | 870×870 | 2685 | 1100 | 1602 | 1400 |
| F80WPI | | | | | 8 | 33.5 | 1034×1034 | 3135 | 1160 | 1746 | 1900 |
| F100WPI | | | | | 10 | 40.2 | 1034×1034 | 3566 | 1600 | 2006 | 2700 |
| F150WPI | | | | | 15 | 57.5 | 1322×1322 | 3942 | 1850 | 2281 | 4200 |
| F200WPI | | | | | 20 | 97.5 | 1450×1450 | 4255 | 1950 | 2954 | 5000 |
| F250WPI | | | | | 25 | 100.1 | 1854×1854 | 5116 | 2050 | 3137 | 7000 |
| F300WPI | | | | | 30 | 122.6 | 1854×1854 | 5150 | 2050 | 3277 | 7500 |
| F150EPA | Evaporative cooled | 33 | 20 | 40 | 15 | 58.5 | 1322×1322 | 4100 | 1850 | 2200 | 4200 |
| F200EPA | | | | | 20 | 96.5 | 1450×1450 | 4255 | 1950 | 2944 | 5000 |
| F250EPA | | | | | 25 | 96.6 | 1854×1894 | 5116 | 2050 | 3137 | 6600 |
| F300EPA | | | | | 30 | 159.8 | 2129×2129 | 5150 | 2050 | 3277 | 7000 |
| F400EPA | | | | | 40 | 190.5 | 2116×2116 | 6325 | 2280 | 3453 | 10000 |
| F500EPA | | | | | 50 | 192.5 | 2125×2125 | ①3300 | 2000 | 2280 | 5000 |
| | | | | | | | | ②3433 | 2275 | 3373 | 6500 |
| F600EPA | | | | | 60 | 305 | 2125×2125 | ①3300 | 2000 | 2280 | 5000 |
| | | | | | | | | ②3433 | 2275 | 3373 | 6500 |

Note: The flake ice evaporator can be sold separately.
Flake ice evaporator for $CO_2$ available.
Due to technndogy innovation, there might be no real-time notice if the data gets changed.
Standard Power: 380V/3P/50Hz
Application condition: ambient temp.: 5˚C~40˚C(When the air- cooled condenser is placed indoors, the ambient temperature ≤35˚C), water temp.: 5˚C~35˚C.
Refrigeration oil: must be provided or approved by Snowman.
Cooling water conditions: the quality of cooling water must meet the requirements of GB50050 Industrial Recycling Cooling Water Treatment Regulation.
Cooling water inlet temperature: 15˚C~32˚C.
Special conditions: please contact Snowman for detail.
Ice thickness: 1.5~2.2mm, special thickness can be customized.
Refrigerant: R717, R404A, R507A, R407F, R449.

## Seawater (Salt water) Flake Ice Machine

The seawater flake ice machine is divided into two types: on board and on shore.
The user draws seawater to make ice and circulate water for condenser directly from the sea.
The icing surface is made of stainless steel and equipped with plate blade and scraping blade, to ensure high efficient ice harvesting.
The design and manufacture of seawater flake ice machine on board had considered the corrosion of sea water, the sway of the ship, the long running life and the harsh climate etc.

## Seawater (salt water) Flake Ice Machine Characteristics

- The flake ice thickness is up to 2.5mm and dry. Ice temperature is -10˚C.
- The evaporator is made of stainless steel and anti-corrosion aluminum alloy, using life is up to 18 years.
- The special internal scraping method and ice blade enable the fishing boat to make ice normally even when the swing degree is 35 degrees in harsh environment .
- Compact design. The refrigeration system is simple and efficient.
- Unattended operation. One key control, automatic monitoring without regular maintenance.

## Model code

SF xxx W P I J 1

- 1 Electrical system
  - 1 380V/3P/60Hz 9 220V/3P/50Hz
  - 2 400V/3P/50Hz 10 440V/3P/50Hz
  - 3 400V/3P/60Hz 11 230V/1P/50Hz
  - 4 415V/3P/50Hz 12 240V/3P/60Hz
  - 5 415V/3P/60Hz 13 240V/3P/50Hz
  - 6 440V/3P/60Hz 14 230V/3P/60Hz
  - 7 460V/3P/60Hz 15 220V/3P/50Hz
  - 8 220V/3P/60Hz 16 230V/1P/60Hz
  - 0 380V/3P/50Hz, "-0" omit not write
- J Blade form (J-rake blade; Spiral blade is omitted)
- I Layout (I- Integrated type. A- Split type)
- P Refrigerant (A- ammonia, S- R404A, P- R507A, None- R22)
- W Water cooled (W- Water cooled, A- Air cooled, E- Evaporative cooled)
- xxx Capacity { ≥1T/D, CapacityX10 ; <1T/D, CapacityX100, and add 0 before capacity.
- SF Type: Flake Ice Machine (SF: Land use; SFM: Use)





## Technical Parameters for Seawater Flake Ice Machine

| Unit | | Nominal Condition | | | Performance Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (˚C) | Water Supply Temperature (˚C) | Condensing Temperature (˚C) | Nominal Production (t/24h) | Power (kW) | Ice Outlet Dimension (mm) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| SFM075WPI | Water cooled | 33 | 20 | 38 | 0.75 | 3.6 | 400×400 | 1400 | 950 | 1081 | 700 |
| SFM10WPI | | | | | 1 | 4.9 | 400×400 | 1400 | 950 | 1081 | 800 |
| SFM16WPI | | | | | 1.6 | 7.0 | 550×550 | 1500 | 1200 | 1293 | 900 |
| SFM20WPI | | | | | 2 | 9.8 | 550×550 | 1500 | 1200 | 1368 | 1000 |
| SFM30WPI | | | | | 3 | 14.2 | 550×550 | 1500 | 1200 | 1436 | 1300 |
| SFM50WPI | | | | | 5 | 23.4 | 800×800 | 1900 | 1520 | 1841 | 1800 |
| SFM60WPI | | | | | 6 | 30.9 | 800×800 | 2750 | 1350 | 2101 | 2200 |

## Flake Ice Machine For Ocean and Land Application Parameters

| Unit | | Nominal Condition | | | Performance Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (˚C) | Water Supply Temperature (˚C) | Condensing Temperature (˚C) | Nominal Production (t/24h) | Power (kW) | Ice Outlet Dimension (mm) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| SF80WPI | Water cooled | 33 | 20 | 38 | 8 | 32.3 | 1030×1030 | 3569 | 1600 | 1746 | 2600 |
| SF100WPI | | | | | 10 | 46.5 | 1030×1030 | 3569 | 1600 | 2226 | 3300 |
| SF150WPI | | | | | 15 | 91.7 | 1322×1322 | 4100 | 150 | 2515 | 5500 |
| SF200WPI | | | | | 20 | 92 | 1450×1450 | 4255 | 1950 | 3084 | 5500 |
| SF250WPI | | | | | 25 | 114.9 | 1854×1894 | 5113 | 2050 | 3277 | 8000 |

Note:
The seawater flake ice evaporator can be sold separately.
Parameters based on: 3P/380V/50Hz power supply, water supply pressure 1.5bar
Standard Power: 380V/3P/50Hz.
Application condition: ambient temp.:5˚C~40˚C(When the air- cooled condenser is placed indoors, the ambient temperature≤ 35˚C), water temp.:0˚C~35˚C.
Refrigeration oil: must be provided or approved by Snowman
Cooling water conditions: the quality of cooling water must meet the requirements of GB50050 Industrial Recycling Cooling Water Treatment Regulation.
Cooling water inlet temperature: 15˚C~32˚C
Special conditions: please contact Snowman for detail
Ice thickness:1.5~2.5mm, especial thickness can be customized
Brine concentration: at least 2.9%
Refrigerant: R404A, R507A, R407F, R449.

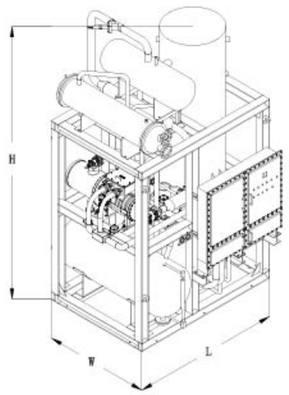
## Tube Ice Machine

- Special water system design ensures better ice quality, even thickness, transparency and purity of ice.
- The ice maker designed and manufactured according to the pressure vessel standard, it's solid, safe and reliable.
- Adopts heat transfer tube, optimizes the design of refrigeration system, stable operation, low failure rate.
- Dual loop hot gas ice peeling, fast ice harvest,less system impact, higher efficiency and safety.
- All components contact with ice are made of high-quaity stainless steel to meet safety and hygiene standards.
- Unattended operation.
- Several options for different application.
- CE(PED) and ASME certified, high quality level.
- Stainless steel buffer screw conveyor, automatic storage and packaging.
- Ice packing production line, for your option.
- Beautiful appearance, reasonable overall layout, comprehensive details, keep improving to the best.

## Model Description

T xxx W P I 29 — 1

- Power
  - 1 380V/3P/60Hz 6 440V/3P/60Hz
  - 2 400V/3P/50Hz 7 460V/3P/60Hz
  - 3 400V/3P/60Hz 8 220V/3P/60Hz
  - 4 415V/3P/50Hz 9 200V/3P/50Hz
  - 5 415V/3P/60Hz 10 440V/3P/50Hz
  - 380V/3P/50Hz omit not write
- Tube diameter (22, 29, 35, 38, 41) mm
- Layout (I-Integrated type; A-split)
- Refrigerant (S-R404A; P-R507A; A-R717; M-134a; N-R407C; C-R744; R-R290; other-Z; H-R22 (omit and do not write))
- Condensing type (A-air cooled; W-water cooled; E-evaporative cooled)
- Ice production code = nominal ice production (t/24h) * 10 (nominal ice production is less than 1 ton/day nominal ice production multiplied by 100, and 0 is added in front of the ice production code)
- Type (T-Tube Ice Machine)








## Technical Parameters for Tube Ice Machine

| Unit | | Nominal Condition | | | Performance Parameters | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (℃) | Water Supply Temperature (℃) | Condensing Temperature (℃) | Nominal Production (t/24h) | Power (kW) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| T10API | Air cooled | 30 | 16 | 40 | 1 | 5.6 | 1310 | 1017 | 1911 | 1000 |
| T30API | | | | | 3 | 13.7 | 1600 | 1670 | 2447 | 2000 |
| T50APA | | | | | 5 | 24 | 1731 | 1261 | 2655 | 3000 |
| T100APA | | | | | 10 | 45.5 | 2110 | 1550 | 3200 | 4000 |
| T30WPI | Water cooled | 33 | 20 | 40 | 3 | 13.6 | 1689 | 1250 | 2345 | 2100 |
| T50WPI | | | | | 5 | 22.4 | 1731 | 1280 | 2776 | 3100 |
| T100WPI | | | | | 10 | 42.9 | 2373 | 1566 | 3186 | 4150 |
| T150WPI | | | | | 15 | 60.4 | 2334 | 2222 | 4100 | 6000 |
| T200WPI | | | | | 20 | 83.8 | 2500 | 2188 | 4335 | 6500 |
| T250WPI | | | | | 25 | 93.7 | 2500 | 2086 | 4613 | 7500 |
| T300WPI | | | | | 30 | 119.7 | 2500 | 2210 | 5080 | 8500 |
| T400WPA | | | | | 40 | 166.2 | ①3085 | 1900 | 2500 | 6000 |
| | | | | | | | ②2175 | 2100 | 5800 | 5000 |
| T500WPA | | | | | 50 | 195.2 | ①3100 | 2000 | 2550 | 7000 |
| | | | | | | | ②2200 | 2100 | 6540 | 6000 |
| T150EPA | Evaporative cooled | 33 | 20 | 42 | 15 | 59.2 | 2234 | 2213 | 4100 | 6000 |
| T200EPA | | | | | 20 | 82.8 | 2500 | 2188 | 4319 | 6500 |
| T250EPA | | | | | 25 | 93.4 | 2850 | 2260 | 4680 | 7500 |
| T300EPA | | | | | 30 | 115.5 | 2500 | 2270 | 6075 | 8500 |
| T400EPA | | | | | 40 | 163.6 | ①1982 | 2300 | 2276 | 5500 |
| | | | | | | | ②2333 | 2100 | 5800 | 5000 |
| T500EPA | | | | | 50 | 192.6 | ①2177 | 2400 | 2176 | 6500 |
| | | | | | | | ②2365 | 2150 | 6751 | 6000 |
| T700EPA | | | | | 70 | 246.1 | ①2149 | 3500 | 2279 | 7500 |
| | | | | | | | ②3019 | 2320 | 7335 | 160000 |

Note:
The tube ice evaporator can be sold separately.
In the table, 40ton, 50ton and 70ton ice machine are split type.
①: compressor package size；②: liquid receiver size；③ice making evaporator size.
The parameters in the above table are based on: ambient temperature 33℃, wet- bulb temperature: 25℃, water supply temperature 20℃, water supply pressure 1.5 bar.
Power: standard 380V/3P/50Hz.
Applicable conditions: ambient temperature 5℃~40℃ (air- cooled condenser indoors when the ambient temperature ≤ 35℃)，water temperature should be 5℃~35℃
Refrigeration oil: must be provided or approved by Snowman
Cooling water conditions: the quality of cooling water must meet the requirements of GB50050 Industrial Recycling Cooling Water Treatment Regulation
Cooling water inlet temperature: 15℃~32℃
Special conditions: please contact Snowman for detail
Refrigerant: **R717, R404A, R507A, R407F, R449**.

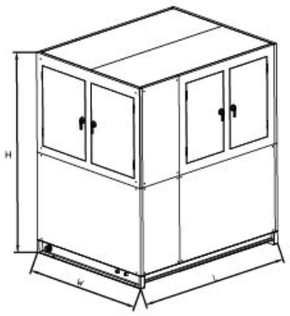
## Plate Ice Machine

- Stainless steel dual ice making surface plate, sufficient ice output .
- The ice thickness is adjustable from 3~20mm to meet different application occasions.
- Special flow channel design, compared with similar products with higher ice making efficiency and more energy-saving.
- Hot gas ice peeling, faster ice harvest,no secondary pollution.
- Open design of evaporator,the ice board,water tray,water tank easy to clean
- The materials in contact with the ice are made of stainless steel, complied with HACCP requirements.
- Unique refrigeration system design ensures stable operation under different working conditions.
- Simplified structure, less moving parts and convenient maintenance.
- The framework is made of steel welded hot dip galvanized structure, resistant to corrosion and long service life.
- Fully automatic control to achieve unattended operation.

## Model code

P xxx W P I D — 1

- Power
  - 1 380V/3P/60Hz
  - 2 400V/3P/50Hz
  - 3 400V/3P/60Hz
  - 4 415V/3P/50Hz
  - 5 415V/3P/60Hz
  - 6 440V/3P/60Hz
  - 7 460V/3P/60Hz
  - 8 220V/3P/60Hz
  - 9 200V/3P/50Hz
  - 10 440V/3P/50Hz
  - 380V/3P/50Hz omit not write
- Icing plate（D- Double- side icing, S- Single- side icing）
- Layout (I- Integrated type. A- Split type)
- Refrigerant type（P- R507A；A- R717；S- R404A；F- all freon, Z- Others, None- R22）
- Condensing type（W: Water cooled，A: Air cooled，E: Evaporative cooled S- None）
- Ice output code=nominal ice output (t/24h)*10 (adding 0 before ice output code volume code when the ice production is less than 1t/24h)
- Ice machine type: plate ice machine








## Technical Parameters for Plate Ice Machine

| Unit | | Nominal Condition | | | Performance Parameters | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (℃) | Water Supply Temperature (℃) | Condensing Temperature (℃) | Nominal Production (t/24h) | Power (kW) | Ice Outlet Dimension (mm) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| P10API | Air cooled | 33 | 20 | 43 | 1 | 5.5 | 1056×100 | 1600 | 1160 | 1845 | 1100 |
| P20API | | | | | 2 | 11.5 | 1069×116 | 1700 | 1400 | 1975 | 1400 |
| P30API | | | | | 3 | 18 | 1400×132 | 2000 | 2000 | 2420 | 2100 |
| P50API | | | | | 5 | 33 | 1400×132 | 2200 | 1800 | 2450 | 2500 |
| P80API | | | | | 8 | 43 | 1400×132 | 3010 | 2200 | 2500 | 3100 |
| P100API | | | | | 10 | 53 | 1400×132 | 3170 | 2200 | 2500 | 3300 |
| P150API | | | | | 15 | 85 | 1400×132 | 4250 | 2200 | 2500 | 5000 |
| P200API | | | | | 20 | 105 | 1400×132 | ①2500 | 1900 | 1750 | 1800 |
| | | | | | | | | ②3260 | 2200 | 2500 | 3800 |
| P30WPI | Water cooled | 30 | 20 | 40 | 3 | 18 | 1400×132 | 1800 | 1600 | 2240 | 1600 |
| P50WPI | | | | | 5 | 30 | 1400×132 | 2200 | 1800 | 2450 | 2500 |
| P80WPI | | | | | 8 | 46 | 1400×132 | 3010 | 2200 | 2500 | 3500 |
| P100WPI | | | | | 10 | 53 | 1400×132 | 3170 | 2200 | 2500 | 3700 |
| P150WPI | | | | | 15 | 75 | 1400×132 | 4250 | 2200 | 2500 | 5300 |
| P200WPI | | | | | 20 | 95 | 1400×132 | ①2500 | 1900 | 1750 | 2200 |
| | | | | | | | | ②3260 | 2200 | 2500 | 3800 |
| P250WPI | | | | | 25 | 117 | 1400×132 | ①2500 | 2100 | 1850 | 2500 |
| | | | | | | | | ②3500 | 2200 | 2500 | 4300 |
| P300WPI | | | | | 30 | 135 | 1400×132 | ①2700 | 2100 | 2000 | 3000 |
| | | | | | | | | ②4720 | 2200 | 2500 | 5500 |
| P150EPA | Evaporative cooled | 33 | 20 | 40 | 15 | 80 | 1400×132 | ①4250 | 2200 | 2500 | 5000 |
| | | | | | | | | ②3230 | 1700 | 2270 | 1540 |
| P200EPA | | | | | 20 | 92 | 1400×132 | ①2500 | 1900 | 1750 | 1800 |
| | | | | | | | | ②3260 | 2200 | 2500 | 3800 |
| | | | | | | | | ③3380 | 1700 | 2270 | 1770 |
| P250EPA | | | | | 25 | 117 | 1400×132 | ①2500 | 2100 | 1850 | 2200 |
| | | | | | | | | ②3500 | 2200 | 2500 | 4300 |
| | | | | | | | | ③3950 | 1700 | 2470 | 2175 |
| P300EPA | | | | | 30 | 136 | 1400×132 | ①2700 | 2100 | 2000 | 2500 |
| | | | | | | | | ②4720 | 2200 | 2500 | 5500 |
| | | | | | | | | ③3750 | 2200 | 2470 | 2480 |

Note:
The plate ice evaporator can be sold separately.
The parameters in the above table are based on: R507A/R404A system, plate ice thickness 10～12mm，water supply pressure1.5bar
①compressor condensing unit size.②plate ice evaporator size.③P300 plate ice machine ice outlet size 1410 *131，2pcs.
Power: standard 380V/3P/50Hz.
Applicable conditions: ambient temperature: 5℃~40℃(air- cooled condenser indoors when the ambient temperature ≤ 35℃),
water temperature should be 5℃~35℃.
Refrigeration oil: must be provided or approved by Snowman.
Cooling water conditions: the quality of cooling water must meet the requirements of GB50050 Industrial Recycling Cooling Water Treatment Regulation.
Cooling water inlet temperature: 15℃~32℃.
Special conditions: please contact Snowman for detail.
Refrigerant: R717, R404A, R507A, R407F, R449.

## Containerized Brine Block Ice Machine

- ISO standard 20 feet or 40 feet container, easy for transportation.
- No need plant construction,and smaller footprint.
- Plug-in and ready to start.
- Super compact structure owing to Integrated design of refrigeration and control system.
- Special evaporator coil structure with efficient heat exchange.
- Two-track ice-carrying crane with large load capacity is more stable and reliable.
- The ice-making brine tank is made of imported special galvanized plate, resistant to corrosion, long running life.
- Thick epoxy paint at the bottom of the working face, waterproof and corrosion resistant.
- Large-size ice machine can be customized.

## Containerized Brine Block Ice Machine Parameters

| Unit | | Nominal Condition | | | Performance Parameters | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (℃) | Water Supply Temperature (℃) | Condensing Temperature (℃) | Nominal Production (t/24h) | Power (kW) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| B50WPB | Water cooled | 33 | 20 | 38~43 | 5 | 29 | 12192 | 2438 | 2896 | 7500 |
| B75WPB | Air cooled | | | | 7.5 | 37.7 | 12192 | 2438 | 2896 | 8500 |
| B100WPB | Evaporative cooled | | | | 10 | 54.4 | 12192 | 2438 | 2896 | 9000 |

Note:
Block ice plant ＞15 ton/day can be customized.
Power: standard 380V/3P/50Hz.
Applicable conditions: ambient temperature: 5˚C~40˚C(When the air- cooled condenser is placed indoors, the ambient temperature ≤ 35˚C),
Water temperature should be 5˚C~35˚C.
Refrigeration oil: must be provided or approved by Snowman.
Cooling water conditions: the quality of cooling water must meet the requirements of GB50050 Industrial Recycling Cooling Water Treatment Regulation.
Cooling water inlet temperature: 15˚C~32˚C.
Special conditions: please contact Snowman for detail.
Refrigerant: R404A, R507A, R407F, R449.





## Direct-cooling Block Ice Machine

- Stable and energy-saving system design, simple operation and low failure rate.
- PLC control, automatic water supply, automatic ice removal and automatic ice production.
- High output, fast freezing time, high density, hard, and not easy to dissolve.
- Modular design, smaller footprint, less on-site installation working.
- No use of brine, no strong corrosive problems such as salt water.
- Clean and edible block ice.
- Can be equipped with automatic ice storage, ice delivery, crushed ice and ice packaging system to save manpower and improve efficiency.

## Containerized Direct-cooling Block Ice Machine

- ISO standard 20 feet or 40 feet container, easy for transportation.
- No need plant construction, smaller footprint.
- Modular type, contact constructure, and plug-in ready.
- Hygienic aluminum plate evaporators make the block ice clean and hygienic.
- Optimize the design of the refrigeration system, stable operation and less failure rate.
- Hot gas defrosting, efficient and fast, less system impact, and excellent safety.
- Unattended operation.
- 40 feet containerized direct-cooling block ice machine maximum daily production is 20T/day.

## Technical Parameters for Direct-cooling Block Ice Machine

| Unit | | Nominal Condition | | | Performance Parameters | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ambient Temperature (℃) | Water Supply Temperature (℃) | Condensing Temperature (℃) | Nominal Production (t/24h) | Power (kW) | L (mm) | W (mm) | H (mm) | Net Weight (kg) |
| BD50EA25 | Evaporative cooling | 33 | 20 | 38 | 5 | 33.7 | 5390 | 1610 | 2482 | 5300 |
| BD100EA25 | | | | | 10 | 54.3 | 7760 | 1880 | 2494 | 10000 |
| BD150EA25 | | | | | 15 | 99.6 | 8978 | 2230 | 2551 | 15000 |
| BD200EA25 | | | | | 20 | 136.2 | 9428 | 2655 | 2757 | 20000 |
| BD300EA25 | | | | | 30 | 192.6 | 12360 | 2655 | 2792 | 30000 |

Note:
The size of the ice maker will be varied, depends on the size of ice tube.
Standard power : 380V/3P/50Hz, non-standard can be customized.
Standard working condition: ambient temperature is 33˚C. The wet bulb temperature is 25˚C, and the inlet water temperature is 20˚C.
The refrigerant can be R404A, R507A.
Special working conditions: please consult Snowman for details.
Due to technological innovation, the above data are subject to change without prior notice.

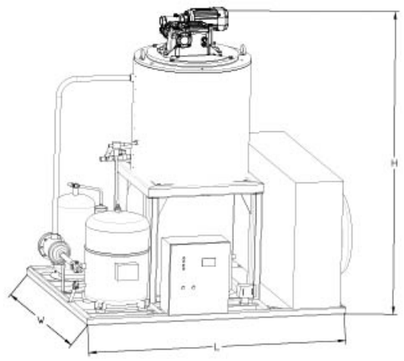
## Slurry Ice Machine

- Semi-hermetic ice maker with good visibility, easy to adjust, clean and maintainence to the machine.
- The ice maker designed and manufactured according to the pressure vessel standard , safe and reliable.
- Compared with similar products of other companies, Cargor evaporation surface.
- Applicable to almost all sea areas, from sea water or brine minimun 2.9% concentration, to realize sufficient output .
- Compared with similar products of other companies, the evaporation temperature is higher, better efficiency with better energy-saving.
- The ice maker is not easy to freeze stuck by adopting unique operating technology with high reliability.
- The whole machine is designed with corrosion-resistant components, longer service life.
- Compact structure, ideal for small spaces such as cabins on the ship.
- The control panel is made according to electrical standards, corrosion-resistant and safe.
- We can provide a comprehensive solution according to different occasions.
- Automatic control, unattended operation.

## Model Code

S xxx W P I 40 – 1

- Power
  - 1 380V/3P/60Hz
  - 2 400V/3P/50Hz
  - 3 400V/3P/60Hz
  - 4 415V/3P/50Hz
  - 5 415V/3P/60Hz
  - 6 440V/3P/60Hz
  - 7 460V/3P/60Hz
  - 8 220V/3P/60Hz
  - 9 200V/3P/50Hz
  - 10 440V/3P/50Hz
  - 380V/3P/50Hz omit not write
- Ice crystal rate (eg: 40 means 40%)
- Layout (I-whole; A-split)
- Refrigerant (S-R404A; P-R507A; A-R717; M-134a; N-R407C; C-R744; R-R290; other-Z; R22 (omit and do not write))
- Condensing type (A-air cooled; W-water cooled; E-evaporative cooled)
- Ice production code = nominal ice production (t/24h) * 10 (nominal ice production is less than 1 ton/day nominal ice production multiplied by 100, and 0 is added in front of the ice production code)
- Type: Fluid Ice Machine








## Technical Parameters for Slurry Ice Machine

| Unit | | | Standard Ice Crystal Rate | Performance Parameters | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Model | Condensing Type | Ice-making Media | | Nominal Production (t/24h) | Power (kW) | L (mm) | W (mm) | H (mm) | Running Weight (kg) |
| S50WI40 | Water cooled | Seawater or 2.9% brine | 40% | 5 | 9 | 1420 | 1200 | 1520 | 800 |
| S100WI40 | | | | 10 | 18.2 | 1600 | 1300 | 1757 | 1100 |
| S150WI40 | | | | 15 | 29.6 | 2640 | 1200 | 2971 | 1800 |
| S200WI40 | | | | 20 | 32.8 | 2750 | 1600 | 3086 | 3500 |
| S250WI40 | | | | 25 | 41.6 | 2750 | 1600 | 3086 | 3500 |
| S350WI40 | | | | 35 | 59.5 | 3640 | 1900 | 4058 | 3500 |

Note:

Based on: 3P/380V/50Hz power supply, R22 system, water supply pressure of sea water source is 1.5bar.

Optional refrigerant types: R404A, R507A, R407F.

Based on: ambient temperature 33˚C, wet bulb temperature 25˚C, water supply temperature 16˚C.

Based on water-cooled and integral series units, non-standard design and manufacture can be made into air-cooled and split units.

Based on the land application, with the hull ice storage bin, it can be designed and manufactured into a marine form by non-standard design.

All data are theoretical average data, and the actual value fluctuates by ±5%.

## Slurry Ice Storage Bucket

- It is much easier to store and deliver the ice by using the bucket and slurry ice machine together.
- With being stirred thoroughly inside the ice storage bucket, the slurry ice is evenly dispersed and not easy to freeze into chunks.
- It applies modular design, which means simple installation and easy operation.
- With Inner surface of PP plate material and reinforced external carbon steel frame, it is rust-proof and corrosion-proof.
- Fully automatic control and automatic shutdown of full ice make the operation unattended.

| Model | SIT1 | SIT2 | SIT4 | SIT7 |
|---|---|---|---|---|
| Nominal Storage | 1m³ | 2m³ | 4m³ | 7m³ |
| Dimension（mm） | Φ1200×1350 | Φ1200×2000 | Φ1500×2500 | Φ1500×4000 |
| Water(ice) Inlet Dimension | DN25 | DN40 | DN50 | DN50 |
| Ice Outlet Dimension | DN25 | DN40 | DN40 | DN40 |
| Insulation | Rubber in sulation | | Polyurethane foam in sulation | |
| Ice Pump Power | 0.4kW | 0.75kW | 0.75kW | 0.75kW |
| Mixer's Motor Power | 0.55kW | 0.75kW | 1.1kW | 1.5kW |
| Power Specification | 380V/50Hz/3P | | | |

Notes: The above is the standard ice storage bucket configuration. The whole unit includes the ice pump and mixing device.
The ice storage bucket could be supplied with the slurry ice machine according to the requirement of the user. Please call for service if the non-standard requirements are required.

## Falling Film Chiller

- No risk of freezing with ice water of 0.5℃.
- The equipment is easy to clean, repair and maintain.
- No seals enclosed design prevents product contamination.
- Water contact parts are made of stainless steel and materials that meet drinking water specifications and can be used in food processing.
- Special falling film chiller versions possible.

### Application scenario:

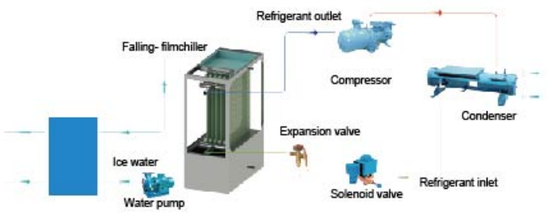
- Cooling mussels/shrimps.
- Blanching vegetables.
- Cooling water for spin chillers (for example in the poultry industry).
- Cooling water for milk cooling and cheese production.
- Fresh products.
- Bakery production.
- Meat processing industry.
- Fish processing industry.

### Standard configuration:

- Modular models can be customized according to the actual situation and demand on site.
- Evaporator is suitable for freon system and ammonia system.
- Refrigeration compressor, using semi-closed screw compressor or piston compressor.
- Evaporative condenser, fan for two-speed control.
- Perfect refrigeration system control and protection components.
- Internal waterway system with low level sensing protection device.
- Electrical control components and distribution box with fully automated control system for water temperature display monitoring.

### Working principle:

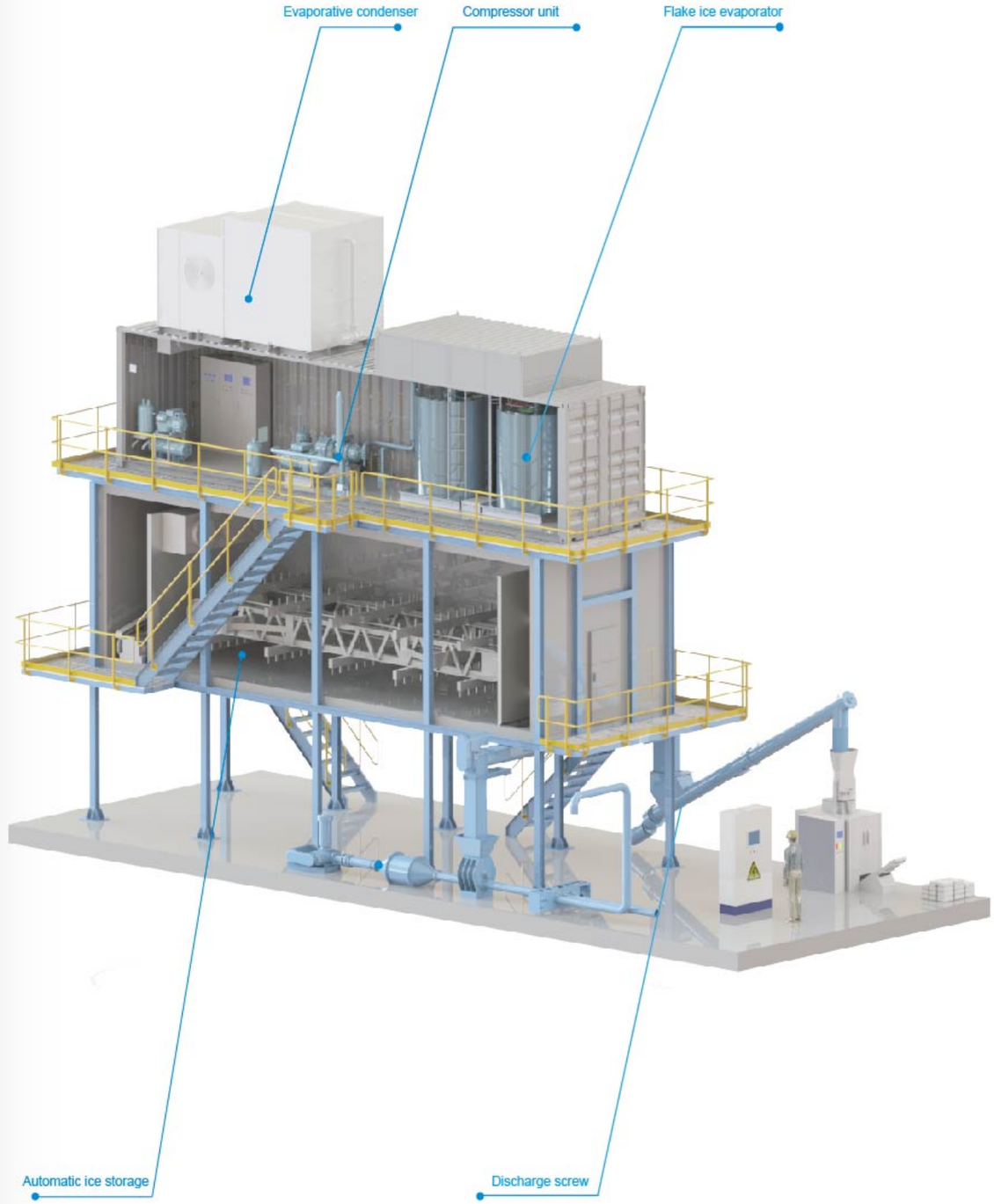
In the upper cabinet, there is a water distribution pan with multiple holes on the bottom that the water will exit the pan through and flow over our double embossed Plates hanging underneath. A thin layer of water falls over the plate and is cooled to the desired temperature. The water can be cooled to 0.5℃ with a Falling Film Chiller.
This cooled water falls off the plates into an optional tank and from there can be pumped and distributed to the next process whether that be another heat exchanger, process tank, or food product. The used water can be collected in a reservoir and pumped back to the top of the Falling Film Chiller for the process to start over again.




| | Model | Refrigeration capacity (kW) | Cooled water volume (t/h) | Water in temp. (℃) | Water out temp. (℃) | L (mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|---|---|---|
| Direct-expansion | CF48-14S2 | 14 | 2 | 8 | 2 | 1800 | 1280 | 2365 |
| | CF120-35S2 | 35 | 5 | 8 | 2 | 1800 | 1280 | 2365 |
| | CF240-70S2 | 70 | 10 | 8 | 2 | 1800 | 1460 | 2365 |
| | CF384-112S2 | 112 | 16 | 8 | 2 | 1800 | 1640 | 2365 |
| | CF480-140S2 | 140 | 20 | 8 | 2 | 1800 | 1870 | 2365 |
| | CF576-168S2 | 168 | 24 | 8 | 2 | 1800 | 2050 | 2365 |
| | CF768-224S2 | 224 | 32 | 8 | 2 | 1800 | 2570 | 2365 |
| | CF960-280S2 | 280 | 40 | 8 | 2 | 1800 | 2930 | 2365 |
| | CF1200-350S2 | 350 | 50 | 8 | 2 | 1800 | 3290 | 2365 |
| Flooded | CF672-229S1 | 229 | 28 | 8 | 1 | 3100 | 1040 | 3150 |
| | CF840-286S1 | 286 | 35 | 8 | 1 | 3100 | 1220 | 3150 |
| | CF1008-344S1 | 344 | 42 | 8 | 1 | 3100 | 1310 | 3150 |
| | CF1200-408S1 | 408 | 50 | 8 | 1 | 3100 | 1790 | 3150 |
| | CF1440-490S1 | 490 | 60 | 8 | 1 | 3100 | 2150 | 3150 |







## Containerized Ice-making System

- The container-type ice making system adopts a modular combination design, easy to move and maintain.
- The optimized design guarantees the continuous operation of the SNOWKEY internal scraping flake ice machine without any wasted energy.
- High efficient, low failure rate energy saving. The equipment can withstand more than 26,000 hours of trouble-free continuous operation.
- The equipment has excellent adaptability, keeping good operation and normal ice production at ambient temperature of 5℃~40 ℃.Specially designed models even can operate normally in the harshest conditions（-30℃~60℃）.
- Flake ice, plate ice and tube ice also can be container-style design, which facilitates the full automation of ice production, storage and delivery.

## Design Conditions

- Max ambient temperature:60℃
- wet-bulb temperature: 29℃
- Water inlet temperature: 5℃
- Ice outlet temperature: -7℃
- Voltage: 400V
- Phase: 3
- Frequency:50Hz
- Equipment running time: 24hrs
- Refriqerant: R717, R404A, R507A, R407F, R449.

## Standard Configuration of CF

1. Standard 20/40'new container,white paint outside,inside is decorated with air conditioner, illumination and aluminum alloy floor.
2. Refrigeration compressor unit is semi- hermetic screw or piston compressor.
3. Evaporative condenser with double speed fan.
4. Flake ice evaporator with water tank and water pump.
5. Necessary oil cooling system and oil return system.
6. Necessary refrigeration system control protective elements and refrigeration pipeline connection.
7. The interface with the ice storage for operation and alarm signal connection.
8. Electrical control components and electric box with full automatic control.
9. Factory test before delivery.

## Containerized Flake Ice Plant System (CF) Specifitions

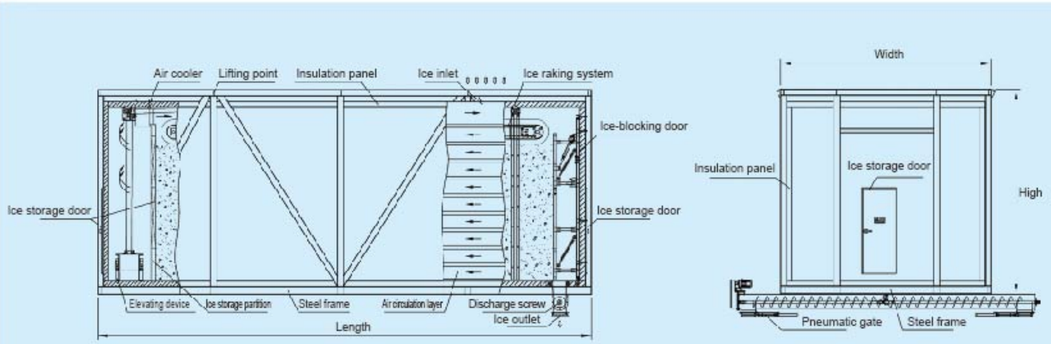
| Model | CF10E | CF15E | CF20E | CF25E | CF30E | CF35E | CF40E | CF40DE | CF50DE | CF60DE | CF70DE | CF80DE | CF90DE | CF100DE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Production (t/24h) | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Water Supply (t/hr) | 0.42 | 0.63 | 0.84 | 1.05 | 1.25 | 1.46 | 1.67 | 1.67 | 2.09 | 2.5 | 2.92 | 3.34 | 3.75 | 4.17 |
| Necessary Refrigeration Capacity(kW) | 55.2 | 82.8 | 110.4 | 138 | 165.6 | 193.2 | 220.8 | 220.8 | 276 | 331.2 | 386.4 | 441.6 | 496.8 | 552 |
| Installed Power(kW) | 44 | 68 | 72 | 93 | 123 | 142 | 164 | 136 | 179 | 239 | 276 | 321 | 401 | 443 |
| Water Consumption (L/h) | 417 | 625 | 834 | 1042 | 1250 | 1459 | 1667 | 1667 | 2084 | 2500 | 2917 | 3334 | 3750 | 4167 |
| Running Weight(t) | 12 | 13 | 14 | 16 | 18 | 20 | 22 | 25 | 28 | 31 | 33 | 36 | 38 | 42 |





## ① Automatic Rake-type Ice Storage

- The ice storage bin is specially designed with double insulated layers. There is an air circulation layer around the ice. Even when ice storage bin is full of ice there is a cooling device equipped to keep the ice storage temperature at -5 ℃~ -8℃, to keep the ice dry and crisp.
- SNOWKEY ice storage bin adopts heavy industrial components, which are all seriously selected, to ensure continuous run, long lifespan and low maintenance cost.
- Patented chain and wheel design, and special material and manufacture technology to ensure continuous fault-free running, under strong working conditions.
- The ice raker of auto ice storage bin, made from high strength special material has compact structure and stable continuous running.
- The hoister can adjust the height of ice raker automatically to ensure ice raker is always above the ice surface.
- The bottom is sealed with silica gel no dripping during long term running. It will prolong the service life of the equipment.
- All electronic devices inside the ice storage bin ＞IP55 protect grade, to ensure long term continuous running in low temperature conditions. Extremely low failure rate, simple operation and maintenance for long time using.




## Automatic Rake-type Ice Storage Parameters

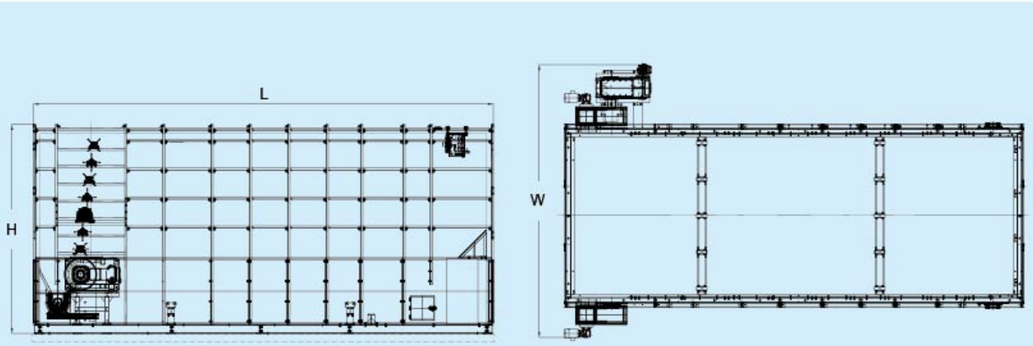
| Model | Nominal Ice Storage Volume ($m^3$) | Type | L(mm) | W(mm) | H(mm) | Net weight: Approximate (tons |
|---|---|---|---|---|---|---|
| AIS8 | 14 | Containerized | 6058 | 2438 | 2896 | 7.5 |
| AIS18 | 29 | Containerized | 12192 | 2438 | 2591 | 12.3 |
| AIS23 | 36 | Containerized | 12192 | 2438 | 2896 | 13.6 |
| AIS35 | 67 | Combined | 12192 | 3530 | 3715 | 20.4 |
| AIS40 | 81 | Combined | 12192 | 4130 | 3715 | 22.4 |
| AIS50 | 98 | Combined | 12192 | 5191 | 3565 | 23.3 |
| AIS50S | 98 | Combined | 12192 | 4130 | 4195 | 25.3 |
| AIS60 | 117 | Combined | 12192 | 5191 | 3965 | 26.1 |
| AIS65 | 128 | Combined | 12192 | 5191 | 4195 | 26.6 |
| AIS80 | 159 | Combined | 12192 | 5191 | 4865 | 28.3 |
| AIS70 | 155 | Combined | 15000 | 5191 | 4195 | 38.1 |
| AIS100 | 200 | Combined | 15000 | 5191 | 4965 | 41.5 |

## ② Track type automatic ice storage

Crawler ice storage is a kind of ice storage equipment combining crawler transmission system and low temperature storage technology, which is mainly used for efficient storage and transportation of ice, and is widely used in fine chemical industry, food processing, concrete engineering and other fields.

Design adopts professional design of high strength insulation material PU sandwich insulation layer, equipped with cold air circulation device to keep the ice storage temperature at 0 ~ -8℃, to ensure the internal low temperature environment is stable, through the track conveying system to achieve automatic ice access and circulation management.

The horizontal spiral conveying mechanism is equipped with a special ice breaker structure, which can break up the ice at the front of the ice pile, so that it can smoothly fall into the horizontal spiral mechanism and be transported to the outside of the warehouse to prevent the ice jam caused by the compaction of the ice pile. Its access speed is much faster than traditional manual or forklift operations, suitable for high frequency ice scenarios.




## Specification Model description:

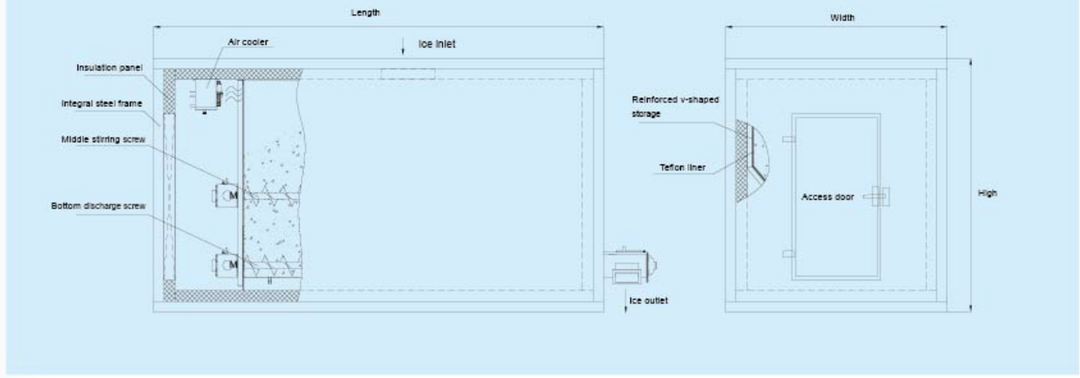
| Model | Nominal Ice Storage Volume($m^3$) | Type | L(mm) | W (mm) | H (mm) |
|---|---|---|---|---|---|
| AIS20T | 40 | Unilateral ice discharge | 7848 | 5965 | 4700 |
| AIS20T | 40 | Bilateral ice discharge | 7848 | 6115 | 4700 |
| AIS30T | 60 | Unilateral ice discharge | 10348 | 5965 | 4700 |
| AIS30T | 60 | Bilateral ice discharge | 10348 | 6115 | 4700 |
| AIS40T | 80 | Unilateral ice discharge | 11866 | 6007 | 4748 |
| AIS40T | 80 | Bilateral ice discharge | 11866 | 6157 | 4748 |
| AIS60T | 120 | Unilateral ice discharge | 11866 | 6007 | 5348 |
| AIS60T | 120 | Bilateral ice discharge | 11866 | 6157 | 5348 |





## ③ Automatic V-shape Ice Storage

- Integrated design, compact structure, and convenient transportation.It can be directly transported to the site after the assembly and commissioning in the factory, and the on-site construction period is greatly shortened.
- Insulation panels are used around the ice storage and the air cooler is installed to keep the temperature inside the ice storage at -5˚C~-8˚C, ensuring dry ice.
- Unique V-shaped design, and the inner surface is lined with Teflon plates, which can ensure that the ice are not easily consolidated on the inner surface of the bin at low temperature.
- The bottom discharge screw and the middle stirring screw are made of stainless steel, meeting the hygiene standards of the food industry and ensures that the ice flakes are clean and hygienic.
- The bottom of the ice storage is sealed with silicagel, no dripping during long term running. Energy saving and environment friendly.
- Automatic control system, including ice-full alarm, screw blocking alarm, etc., to ensure safe and reliable operation of the equipment.



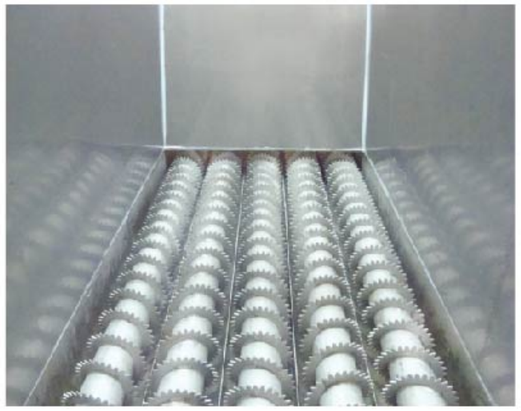

## Automatic V-shape Ice Storage Parameters

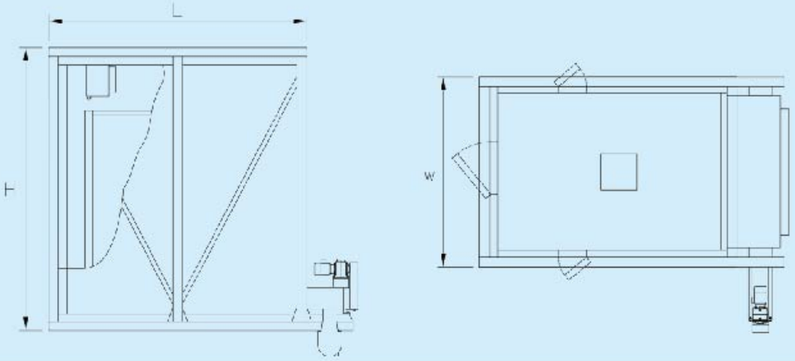
| Model | Nominal Ice Storage Volume($m^3$) | Type | L(mm) | W(mm) | H(mm) |
|---|---|---|---|---|---|
| AIS3V | 6 | Integral | 3956 | 1996 | 2405 |
| AIS5V | 10 | combined | 4300 | 4100 | 3000 |
| AIS8V | 16 | combined | 4300 | 4100 | 3650 |

Note: The ice storage can be specially customized for customers with medium and small ice storage requirements.

## ④ Automatic Screw Storage Bin

- Designed specially for small ice storage capacity, with high reliability.
- Unique screw ice crushing system, gurantee no ice jam.
- Even ice storage, real-time display of used and remained ice amount .
- Inside ice storage bin, all is made of stainless steel, no mechanical wear and contamination. Long service life.
- Modular structure with factory prefabrication,easy to install and test on site.
- Low failure rate and simple maintenance.
- Suitable for food, aquaculture and medical industry.






## Technical Parameter of Screw Automatic Ice Storage Bin

| Model | Nominal Ice Storage Volume($m^3$) | Type | L(mm) | W(mm) | H(mm) |
|---|---|---|---|---|---|
| AIS2L | 4 | Combined | 3925 | 2085 | 2535 |
| AIS3L | 6 | Combined | 3925 | 2085 | 3130 |
| AIS5L | 10 | Combined | 3925 | 2085 | 4020 |
| AIS10L | 20 | Combined | 3925 | 2895 | 4320 |

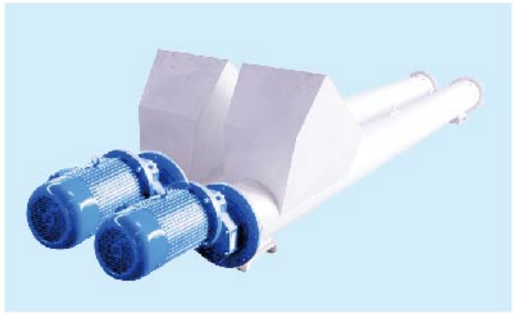
Note: The ice storage can be customized for medium and small ice storage requirements.





## Screw Delivery System

- The basic stucture is channel or round housing with screw blade and reducer. Screw delivery system is more economical for short distance delivery to max 2 destinations.
- The installation angle usually about 30°.
- There are feeding funnel and detection device at the ice inlet, which will avoid ice flake jam in time during delivery. There are galvanized and stainless steel material for your option, with insulation layer outside.
- SNOWKEY can provide open and tubular screw machines with hot-dip galvanized and stainless steel SUS304.



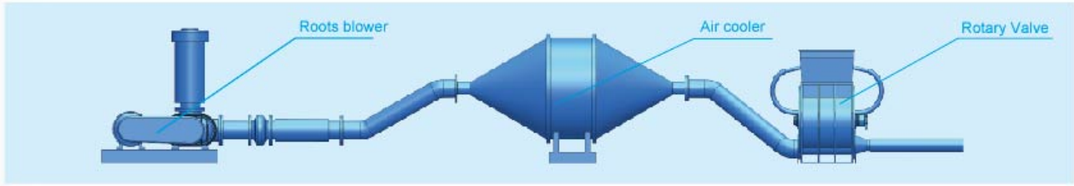
## Technical Parameter of Screw Delivery System

| Model | Delivery Capacity (Tons/hr) | Spiral Diameter(mm) | Helix Length(m) | Power(kW) |
|---|---|---|---|---|
| TSL16-4 | 16 | 323 | 4 | 5.5 |
| TSL16-6 | 16 | 323 | 6 | 5.5 |
| TSL16-8 | 16 | 323 | 8 | 7.5 |
| TSL16-10 | 16 | 323 | 10 | 11 |
| TSL16-12 | 16 | 323 | 12 | 11 |
| TSL16-14 | 16 | 323 | 14 | 11 |
| TSL16-16 | 16 | 323 | 16 | 15 |

Note: For the needs of different occasions, the delivery screw with capacity of 12- 25 tons/hour can be selected.
Power supply requirement: Full electric system complying with the general international standard.

## Pneumatic Delivery System

- Pneumatic delivery system can be adopted when ice destination is too far. Moreover, it can deliver ice to several ice destinations.
- Pneumatic delivery system consists of high capacity low pressure air blower, air cooling system, rotary valve, pipeline and control system, etc. The longest horizontal delivery distance can reach 200 meters, vertical height up to 20 meters.
- For directly used ice, we can equip the ice- gas separation cyclone according to user requirements.



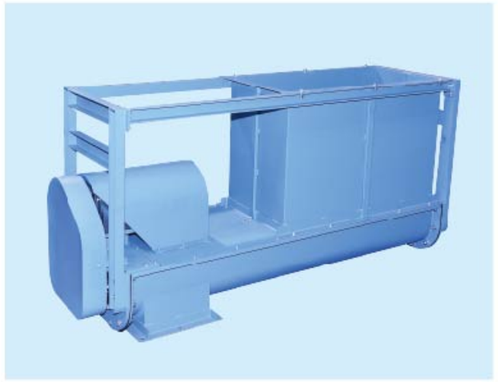

## Technical Parameter of Pneumatic Delivery System

| Model | Delivery Capacity（Tons/hr） | Max Horizontal(m) | Max vertical height (m) | Pipe diameter (mm) |
|---|---|---|---|---|
| ID6A | 6 | 200 | 20 | 100 |
| ID10A | 10 | 200 | 20 | 100 |
| ID12A | 12 | 200 | 20 | 125 |
| ID15A | 15 | 180 | 20 | 150 |
| ID18A | 18 | 160 | 20 | 150 |
| ID20A | 20 | 160 | 20 | 150 |
| ID25A | 25 | 150 | 20 | 150 |

Power supply requirement: Full electric system complying with the general international standard.

## ① Screw Ice Weighing Device

- The screw ice weighing device, specially designed for weighing flake ice, can deliver ice effectively and reliably. It is used for delivering ice to the belt conveyor,adjustable ice out put capacity and pneumatie ice delivery system.
- World famous weighing, control, signal adapter, highly accurate sensor and imported microcomputer control is to ensure stable performance and accurate computation.
- Modular structure makes it convenient to operate and maintain.



### Parameter table of screw weighing bucket

| Model | Maximum capacity(kg) | Power(kW) | Dimensions(mm) |
|---|---|---|---|
| LWT200 | 200 | 1.5 | 2291×640×1435 |
| LWT300 | 300 | 1.5 | 2291×640×1785 |
| LWT400 | 400 | 1.5 | 2541×640×1785 |
| LWT500 | 500 | 1.5 | 2538×716×1795 |

## ② Funnel-type Pneumatic Ice Weighing Device

- It is compact rectangular structure with ice inlet on the top, lock gate on the bottom, sealed tightly and acts reliably.
- The ice out gate is driven by the cylinder. Usually, it is used for delivering ice directly to the batching plant for fully using the ice cooling capacity.
- World famous weighing, control and signal adapter, highly accurate sensor and imported microcomputer control to ensure stable performance and compution.
- Independent weighing control and PC control system for your option.

### Parameter table of pneumatic weighing bucket

| Model | Maximum Capacity(kg) | External Dimensio (mm) |
|---|---|---|
| QWT150 | 150 | 782×782×1300 |
| QWT200 | 200 | 828×828×1300 |
| QWT250 | 250 | 920×850×1350 |
| QWT300 | 300 | 1050×850×1350 |
| QWT350 | 350 | 1150×954×1250 |
| QWT400 | 400 | 1150×954×1400 |
| QWT450 | 450 | 1220×1020×1400 |
| QWT500 | 500 | 1220×1020×1500 |

## Shunt Valve

The shunt valve is one-way inlet and multi- way outlet. By switching inlet position, the inlet corresponds to the specified outlet, to realize conveying ice pipeline switch, and meet user's demand of multiple ice points.

### Shunt Valve Specifications:

| Model | Number | Power (kW) | External dimensio (mm) |
|---|---|---|---|
| SV150-02 | 2 | 0.25 | 1195×501×808 |
| SV150-03 | 3 | 0.25 | 1432×501×959 |
| SV150-04 | 4 | 0.25 | 1662×501×959 |
| SV150-05 | 5 | 0.25 | 1892×501×959 |
| SV150-06 | 6 | 0.25 | 2122×501×959 |





## Automatic Packaging System

The ice is packaged into bagged ice in different specifications. It is mainly suitable for bagged ice production lines such as flake ice, tube ice, plate ice, and cube ice.

- The machine is made of stainless steel 304 and the bag is of OPP, which meets the hygiene standards of the food industry.
- Adopting double servo control system is to ensure the accurate measurement.
- Horizontally sealing servo control system, automatically sets parameters such as transverse seal pressure and transverse seal open stroke. The variety of packaging specifications 1-5Kg, to meet different packaging needs. Packing speed 5-20 bags/minute.
- Combined with ice making system, flake ice conveying system, etc., can it realize a complete set of automatic bagged ice production line.

## Buffer Bin

When the length of the screw delivery system is long, the ice sometimes cannot be transported to the specified place in time, and the user can continue to use the ice in a short period of time by equipping the buffer bin at the end.

### Buffer bin with air cooler parameter:

| Model | Nominal Ice Storage | Power(kW) | Dimensions |
|---|---|---|---|
| LHC500 | 500Kg | 7.9 | Warehouse body: 3250×1025×1714<br>Unit: 850×815×605 |
| LHC800 | 800Kg | 7.9 | Warehouse body: 3637×1308×1780<br>Unit: 850×815×605 |
| LHC1000 | 1000Kg | 7.9 | Warehouse body: 3637×1308×2060<br>Unit: 850×815×605 |

### Buffer bin without air cooler parameter:

| Model | Nominal Ice Storage | Power(kW) | Dimensions |
|---|---|---|---|
| LHC500 | 500Kg | 3.7 | 3250×1025×1714 |
| LHC800 | 800Kg | 3.7 | 3637×1308×1780 |
| LHC1000 | 1000Kg | 3.7 | 3637×1308×2060 |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