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PROFESSIONAL / REFRIGERATION



TUBE ICE MACHINE
管冰机
FLACK ICE MACHINE
片冰机

ICE MACHINE



FRIGOESPACIOS®

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Dalian Bingshan Engineering & Trading Co., Ltd. (Hereafter referred to as BSET) is jointly funded professional trading company by Dalian Bingshan Group Co., Ltd and Dalian Refrigeration Co., Ltd. in 1988. Concentrating on consulting, design, sales, installation, commissioning and maintenance of the refrigeration equipment, oriented toward machining the requirement of clients, supported from Dalian Bingshan Group Co., Ltd. the largest industrial refrigeration products manufacturing base of China, combining refrigeration technology, engineering and trading, BSET provides quality products to different application fields including fruit and vegetable, meat and poultry, seafood, beverage etc processing and freezing & refrigerating field etc. BSET has undertaken hundreds of turnkey projects in Asia, Africa, America etc. more than 60 countries and regions, as well as offer customized energy optimization and sustainable cold chain solutions.



Our competent professionals focus on providing clients one-stop solution, as well as the concerns on service of environmental protection and clients' benefits.

FLACK ICE



TUBE ICE



FLAKE ICE MACHINE

FLAKE ICE MACHINE FEATURES

1. Design of low energy consumption

The evaporator is made of alloys with special high heat conduction performance and fabricated precisely, which leads us on the top of the same kind of products in energy-saving.

2. High-quality flake ice

Adopt scientific design to overcome traditional disadvantage of ice easy to agglomeration and form chips. Increase flake ice available rate.

3. Low-fault protection device

We design an ideal protection device among all motors of ice-making system to reduce the unit fault rate of running.

4. No water dripping design

Water dropping from the bottom of flake ice drum will cause ice melting inside cold storage and influence ice cold storage efficiency. Our special drum structure design completely stops the dropping.



5. Inner scraping way

The reducer drive ice blades rotation and peel ice from drum inner wall. The ice drum does not rotate and avoid any leaking from axial seal.

6. Full-automatic microcomputer control

Adopt full-automatic PLC control and realize one-button operation. The system can be stop as ice is in full level and start again as it is in the low level. No need any look after. Saving labor costs as well as being safe and convenient.

7. Modular design

As select ice making unit, it should not only consider its cost but also how to avoid the unpredictable potential cost for installation and disassembly. Our modular design facilitates installation and commissioning, shortens the period up to one week. Undoubtedly, it is also shrink the disassembly period and cost. Furthermore, modular design simplify maintenance work. Any wearing parts can be easy to disassemble and replace a new one.

8. Personalized design

Our normal model products can take a good running and performance under the environmental temperature of 5~40°C and 40~60°C .

9. After-sales service

We are ready to provide professional technical and equipment selection consultation free of charge at any time.

Our commissioning staff will train and explain to the operator on site and let them master the capability to operator the system individually.

FLAKE ICE MODEL



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STANDARD CONDITION	Ambient temp. 25°C
	Water temp. 16°C
APPLICABLE CONDICTION	Ambient temp. 5°C -40°C
	Water temp. 0°C -40°C
ICE THICKNESS	1.5-2.2mm
REFRIGERANT	R717, R22, R404A



Model	Design Capacity (kg/day)	Evaporating Temp (°C)	Reducer Power (KW)	Circulating Pump Power (KW)	Water Pipe	Overflow Pipe	Drain Pipe	Net Weight (kg)	Dimension(mm)		Necessary Ref Capacity (kcal/h)
									Diameter Ø	Height	
BSF050S	500	-20	0.18	0.014	1/2"	1/2"	1/2"	96	478	599	2374
BSF075S	750	-20	0.18	0.014	1/2"	1/2"	1/2"	104	478	644	3560
BSF10S	1000	-20	0.18	0.014	1/2"	1/2"	1/2"	108	478	785	4747
BSF12S	1200	-20	0.18	0.014	1/2"	1/2"	1/2"	108	478	785	5696
BSF16S	1600	-20	0.37	0.025	1/2"	1/2"	1/2"	208	650	894	7595
BSF20S	2000	-20	0.37	0.025	1/2"	1/2"	1/2"	220	650	969	9494
BSF25S	2500	-20	0.37	0.025	1/2"	1/2"	1/2"	230	650	1029	11868
BSF30S	3000	-21	0.37	0.025	1/2"	1/2"	1/2"	240	650	1084	14241
BSF40S	4000	-22	0.37	0.025	1/2"	1/2"	1/2"	240	650	1084	18988
BSF50S	5000	-22	0.37	0.125	1/2"	3/4"	3/4"	550	920	1331	23735
BSF60S	6000	-22	0.37	0.125	1/2"	3/4"	3/4"	550	920	1331	28482
BSF80S	8000	-22	0.55	0.25	3/4"	3/4"	3/4"	830	1160	1586	37976
BSF100S	10000	-22	0.75	0.25	3/4"	3/4"	3/4"	980	1160	1846	47470
BSF150S	15000	-23	0.75	0.4	3/4"x2	1-1/4"	1-1/4"	1690	1462	2080	71205
BSF200S	20000	-23	1.1	0.4	3/4"x2	1-1/4"	1-1/4"	2634	1600	2744	94940
BSF250S	25000	-24	1.1	0.75	3/4"x2	1-1/4"	1-1/4"	3588	1990	2887	118675
BSF300S	30000	-24	1.1	0.75	3/4"x2	1-1/4"	1-1/4"	3980	1990	3027	142410
BSF350S	35000	-25	1.5	0.75	3/4"x2	1-1/4"	1-1/4"	4500	2337	3071	166145
BSF400S	40000	-25	1.5	0.75	3/4"x2	1-1/4"	1-1/4"	5400	2337	3371	189880
BSF450S	45000	-25	1.5	0.75	3/4"x2	1-1/4"	1-1/4"	5400	2337	3371	213615
BSF600S	60000	-25	1.5	0.75	3/4"x2	1-1/4"	1-1/4"	6700	2337	3787	284820

FLAKE ICE PACKAGE MODEL

STANDARD CONDITION	Ambient temp. 25°C
	Water temp. 16°C
APPLICABLE CONDICTION	Ambient temp. 5°C -40°C
	Water temp. 0°C -40°C
ICE THICKNESS	1.5-2.2mm
REFRIGERANT	R22, R404A



Model	Design Capacity (kg/day)	Refrigeration Capacity (kcal/h)	Evaporating Temp (°C)	Reducer Power (KW)	Circulating Pump Power (KW)	Compressor (HP)	Net Weight (kg)	Dimension (LxWxH) (mm)
BSF050	500	2374	-20	0.18	0.014	3	200	1200x735x639
BSF075	750	3560	-20	0.18	0.014	4	228	1200x735x684
BSF10	1000	4747	-20	0.18	0.014	4	242	1200x735x825
BSF12	1200	5696	-22	0.18	0.014	5	256	1410x955x825
BSF16	1600	7595	-22	0.37	0.025	5	378	1490x1180x934
BSF20	2000	9494	-22	0.37	0.025	6	418	1490x1180x1069
BSF25	2500	11868	-22	0.37	0.025	8	398	1490x1180x1069
BSF30	3000	14241	-22	0.37	0.025	12	1022	2000x1650x1382
BSF40	4000	18988	-22	0.37	0.025	20	1117	2100x1700x1382
BSF50	5000	23735	-22	0.37	0.125	25	1168	2350x1675x1471
BSF60	6000	28482	-22	0.37	0.125	30	1168	2350x1675x1471
BSF80	8000	37976	-22	0.55	0.25	40	1506	2600x1740x1851
BSF100	10000	47470	-22	0.75	0.25	50	1742	3267x1950x2006
BSF150	15000	71205	-23	0.75	0.4	60	3200	3350x1750x2260
BSF200	20000	94940	-23	1.1	0.4	75	5200	3500x2100x2954
BSF250	25000	118675	-24	1.1	0.75	100	7000	4500x2050x3137
BSF300	30000	142410	-25	1.1	0.75	120	7500	4500x2050x3277
BSF350	35000	166145	-25	1.5	0.75	150	9600	5200x2360x3331
BSF400	40000	189880	-25	1.5	0.75	210	11000	5500x2360x3661
BSF600	60000	284820	-25	1.5	0.75	280	14000	6400x2360x4307



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TUBE ICE MACHINE

Tube Ice Machine Application Fields

- Edible ice factory
- Port ice plant
- Coffee shop, bar and hotel etc
- Supermarket, convenience shop and restaurant etc
- Aquatic products and food fresh preservation
- Logistic fresh preservation
- Chemical and concrete projects

Tube Ice Features

- Special ice making method to remove water impurity. The ice is hard and powderless.
- The tube ice, in hollow tube shape, is transparent, sanitary and environment friendly.
- Several dimensions for your option.
Outer diameter: $\phi 22$, $\phi 29$, $\phi 38$, $\phi 41$ mm and custom to your requirement.
- Compared with flake ice, tube ice has longer melting time.
- Suitable for stroing and transporting and applicable for several fields.



TUBE ICE MODEL

Model	BST10	BST30	BST50	BST100	BST150	BST200	BST250	BST300	BST400	BST500	BST700	
Nominal Output -Ø22(Tons/day)	1.04	3.12	5.2	10.4	15.6	20.8	26	31.2	41.6	52	72.8	
Nominal Output -Ø29(Tons/day)	1	3	5	10	15	20	25	30	40	50	70	
Nominal Output -Ø38(Tons/day)	0.9	2.7	4.5	9	13.5	18	22.5	27	36	45	68	
Ambient Temp(°C)	33											
Water Supply Temp(°C)	20 (Water quality should be pure. Water filter and water softening is suggested for place with hard water quality)											
Necessary Refrigeration Capacity(KW)	6	18	30	60	90	120	150	180	240	300	420	
Evaporator and Compressor Unit Connection Type	Integrated				Integrated/Separate				Separate			
Compressor Brand	Bingshan/Panasonic/Bitzer											
Compressor Normal Horsepower	6	15	25	50	70	100	120	150	200	250	350	
Condenser Type	Air cooling	Air cooling or Water cooling				Water cooling or Evaporative cooling						
Install Power(KW)	6.5	15	25	46	65	85	105	125	165	200	260	
Runner Power(KW)	4	9	16	32	45	64	80	96	125	150	210	
Water Consumption (Tons/hr)	0.046	0.138	0.230	0.460	0.690	0.920	1.150	1.380	1.840	2.300	3.220	
Water Cooling or Evaporative Cooling Condenser Water Recharge(Tons/hr)	-	0.2	0.3	0.6	1	1	1.3	1.6	2	2.5	3.5	
Main Shaft Power(KW)	0.25	0.37	0.55	0.75	1.1	2.2	2.2	2.2	3	4	5.5	
Water Pump Power(KW)	0.25	0.55	0.75	1.5	2.2	2.2	2.2	2.2	3	4	5.5	
Running Weight(kg)	1240	2000	3500	4500	7000	10000	11500	13000	15000	17000	20000	
Water Cooling Compressor Unit Dimension(mm)	-	1600x1250x2405 (Ice maker included)	1680x1280x2565 (Ice maker included)	2400x1550x3105 (Ice maker included)	2320x1480 x3040	2960x2100 x2880	3380x2250 x2880	3960x2250 x3074	4810x2250 x3074	3945x2000x2650 (Liquid receiver excluded)		
Air Cooling Compressor Unit Dimension(mm)	1320x984 x2093 (Ice maker included)	1600x1250x2405 (Ice maker included)	1680x1280x2565 (Ice maker included)	2400x1550x3105 (Ice maker included)	2320x1480 x2200	-						
Evaporative Cooling Compressor Unit Dimension(mm)	1680				-	2960x2100x2100	3380x2250x2343	3960x2250x2343	4810x2250x2343	3945x2000x2650 (Liquid receiver excluded)		
Tube Ice Specification	Ø22,Ø29,Ø38 standard tube ice outer diameter, inner diameter 3mm-15mm,Besides. Ø35 and Ø41 could be accepted for non-standard design.											
Power Supply	Full electric system complying with the general international standard											
Limit Work Conditions (variable work conditions)	Ambient temp.: 5°C -40°C , water supply: 0.5°C -30°C											
Refrigerant	R22,R404A,R507,R717											
Machine Structure Description	Except TIM10F, all air cooling condenser units are placed outside; the water cooling tower of water cooling system and the evaporative cooling unit of evaporative cooling system are placed outside. All machines larger than TIM100, for convenient transportation, is designed into separate types.											
Series and Model Description	T means tube ice maker, the number behind is the tonnage x 10, condensing type(A for air cooling, W for water cooling, and E for evaporative cooling), refrigerant (F for freon, A for ammonia)											

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