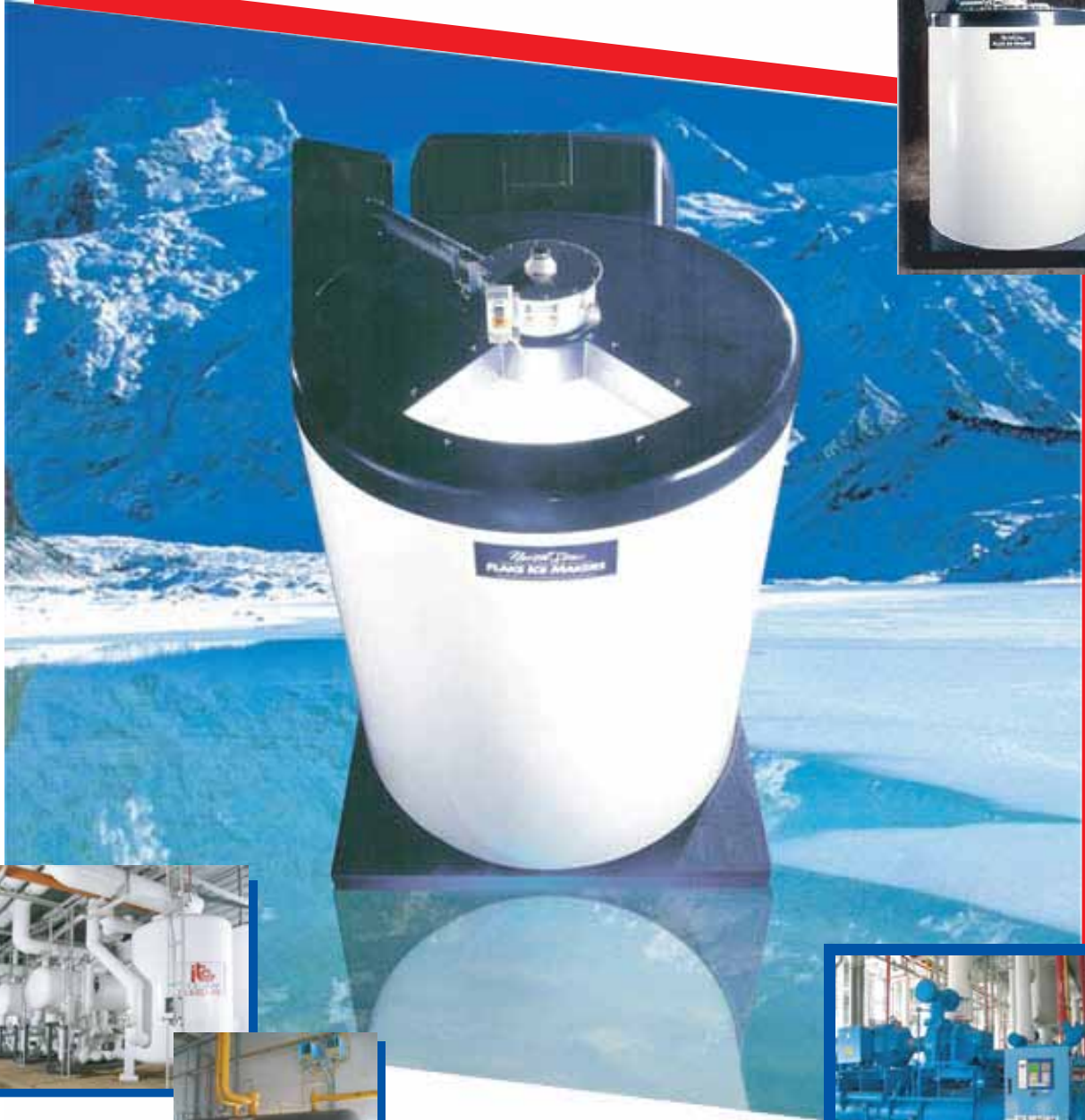


Flake Ice Makers

North Star. By 



**I.T.C. (1993) CO., LTD.**

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# Flake Ice Makers

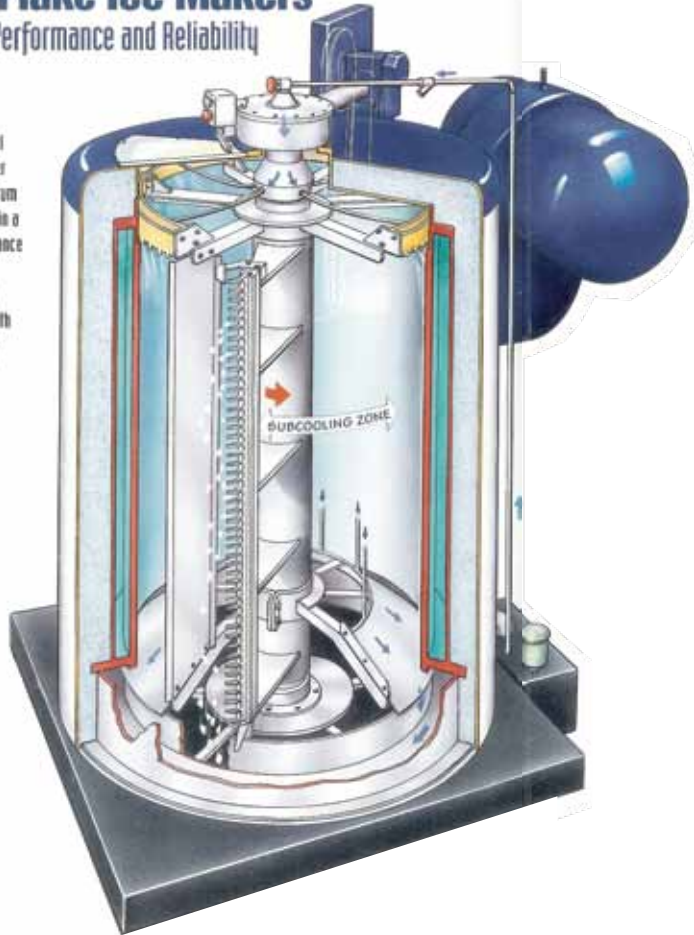
North Star By 



## North Star® Flake Ice Makers

Proven Design, Performance and Reliability

Since 1951, North Star Ice Equipment has led the world in the design and manufacture of high-capacity industrial flake ice makers. Often copied but never equaled, North Star's simple, vertical drum design and expert construction results in a low stress, low wear, and low maintenance ice maker that is simple to install and operate. The compact, economical unit produces totally subcooled flake ice with efficiency and reliability unmatched by other ice machines.



## Built For Years of Trouble-Free Operation

Six North Stars models produce between two and 56 tons of ice continuously with no defrost cycles to interrupt the supply.

To begin the ice-making process, water is pumped from the stainless steel recirculating water tank to the top of the rotor. It is then distributed to the freezing surface via high-density plastic water rings.

The water freezes immediately on contact with the freezing surface, then is thoroughly subcooled to make dry flake ice with superior cooling power. The temperature of the ice can be easily adjusted by changing the subcooling zone located ahead of the ice removal tools.

After subcooling, the ice is sheared from the surface by the ice removal tools and falls out of the bottom of the ice maker.

Any water that does not freeze returns to the water tank for recirculation.



### Ice Maker Specifications

Model numbers indicate the square feet of freezing surface for each model. "CS" designates a carbon steel freezing surface; "SS" indicates a stainless steel freezing surface.

Product Specifications			Dimensions			Shipping Information			
Model	Motor Drive	Pump	Capacity	Height	Width	Length	Domestic Wt	Export Wt	Volume
5SS/—	1/4 hp dc .19 kw	1/30 hp .03 kw	3.0 / — tons* 2.7 / — MT	44 in 1,118 mm	25 in 635 mm	38 in 965 mm	550 lbs 250 kg	650 lbs 295 kg	60 ft <sup>3</sup> 1.7 m <sup>3</sup>
10SS/CS	1/2 hp .25 kw	1/20 hp .04 kw	4.7 / 6.0 tons* 4.3 / 5.4 MT	45 in 1,143 mm	32 in 813 mm	48 in 1,219 mm	1,350 lbs 614 kg	1,500 lbs 682 kg	70 ft <sup>3</sup> 2.0 m <sup>3</sup>
20SS/CS	1/2 hp .38 kw	1/2 hp .38 kw	11.4 / 14.0 tons* 10.3 / 12.7 MT	51 in 1,295 mm	56 in 1,422 mm	83 in 2,108 mm	3,800 lbs 1,727 kg	4,000 lbs 1,818 kg	240 ft <sup>3</sup> 6.8 m <sup>3</sup>
40SS/CS	3/4 hp .56 kw	1/2 hp .38 kw	19.7 / 22.8 tons* 17.9 / 20.7 MT	75 in 1,905 mm	56 in 1,422 mm	83 in 2,108 mm	5,200 lbs 2,364 kg	5,700 lbs 2,591 kg	326 ft <sup>3</sup> 9.2 m <sup>3</sup>
60SS/CS	1.00 hp .75 kw	1/2 hp .38 kw	29.8 / 38.0 tons* 27.0 / 34.5 MT	81 in 2,057 mm	76 in 1,930 mm	107 in 2,718 mm	8,100 lbs 3,632 kg	8,500 lbs 3,864 kg	510 ft <sup>3</sup> 14.4 m <sup>3</sup>
90SS/CS	1 1/2 hp 1.13 kw	1/2 hp .38 kw	41.0 / 53.5 tons* 37.2 / 48.5 MT	105 in 2,667 mm	76 in 1,930 mm	109 in 2,769 mm	10,500 lbs 4,773 kg	11,200 lbs 5,091 kg	645 ft <sup>3</sup> 18.3 m <sup>3</sup>

\* Capacity in 2,000 pound tons (909 kg) per 24 hours with -25° F (-32° C) evaporator and 60° F (16° C) water supply temperatures. 1/16" (1.5 mm) ice thickness and ammonia refrigerant. For other requirements and conditions consult North Star or refer to our capacity guidance curves (IMC-2-SS or -CS). Specifications subject to change without notice.



- 1.) Other capacity and dimension are available please Contact manufacturer
- 2.) Specifications subject to change without notice

