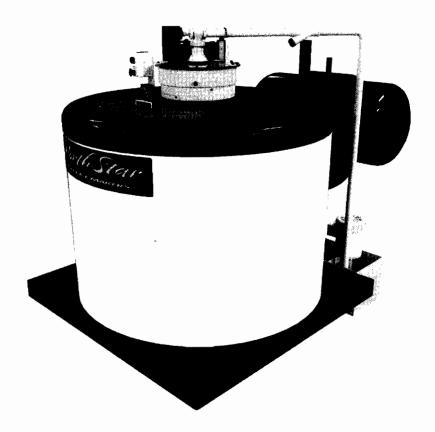
North Star.

MODEL 20 FLAKE ICE MAKER SPECIFICATION SHEET



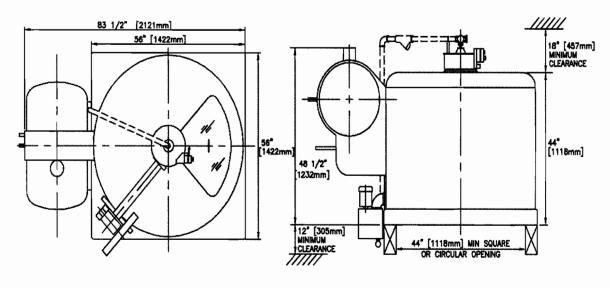
STANDARD FEATURES

- Double walled, stationary evaporator. No refrigerant seals to leak.
- Available with either a solid carbon or stainless steel freezing surface.
- Protection and safety features include mechanical load limit switch, emergency stop switch, jog switch, inspection hatch safety switch and a drive belt guard.
- Machine available for shipboard installation to produce seawater ice.
- Polyurethane insulation enclosed in molded fiberglass covers.

- Attached accumulator for complete gas-liquid refrigerant separation. (Flooded operation)
- Patented drip shield to insure complete waterice separation.
- Stainless steel water make-up tank and ice removal tools are standard. Other stainless steel options are available.
- Economical, compact, simple to install and operate with minimal maintenance.
- LIFETIME WARRANTY on North Star evaporators and PERFORMANCE GUARANTEE.

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North Star Model 20 Operating Data



TOP VIEW

SIDE VIEW

Refrigerant Control: Sporlan Levelmaster or RFS (Refrigerant Float Switch)

WEIGHT: 3,800 lbs - 1,705 kg **OIL DRAIN LINE:**

1/2" MPT **VOLUME:** 240 cu ft - 7.79 cu mtr **WATER LINE:**

DRIVE MOTOR: 0.50 HP Tank Inlet: 1/2" FPT **PUMP MOTOR:** 0.50 HP Tank Drain: 1 1/4" FPT **SUCTION LINE:** 2 1/2" Sch 40 **Pump Outlet:** 1 1/4" FPT **LIQUID LINE:** 1 1/4" Sch 40 **Flow Control Valve Inlet:** 1 1/4" FPT

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Freon R-134a	175 lbs	Freon R-404a	166 lbs	Water Temperature	40	50	60	70	80
Freon	(79 kg) 159 lbs	Ammonia	(75 kg) 80 lbs	Tons of					
R-22	(72 kg)	R-717	(36 kg)	Refrigeration	1.20	1.25	1.30	1.40	1.50

ICE MAKING CAPACITY RANGE GUIDELINE

	4.5							26
Stainless Steel Model	<i>5.0</i> 6.1	6.0 7.2	<i>7.0</i> 8.3	<i>7.8</i> 9.4	<i>8.7</i> 10.3	<i>9.3</i> 11.0	<i>9.6</i> 11.4	<i>9.6</i> 11.4
Carbon Steel Model	<i>5.7</i> 6.9	<i>6.9</i> 8.2	<i>8.0</i> 9.6	<i>9.2</i> 10.8	<i>10.2</i> 12.2	11.1 13.2	11.8 13.9	<i>12.0</i> 14.0

^{*}Capacity based on tons (2,000 pounds) per 24 hours, 1.5 to 2.0mm ice thickness, 60°F make-up water, and oil-free ammonia refrigerant. For other operating conditions and specific capacities, refer to our capacity curves or visit the Ice Maker Selection Tool on our web site at www.northstarice.com. Capacities in italics are 2.0mm ice thickness.

WATER REQUIREMENT: 0.167 GPM PER TON OF ICE PER 24 HOURS

THERE'S ONLY ONE NORTH STAR



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

^{*} 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, \(^1/16^c\) (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.

North Star: The World Leader In Flake Ice Technology

Since 1950, North Star Ice Equipment Corporation has been known the world over for its line of flake ice makers and ice handling systems. The company's product line includes ice rakes and storage systems, ice delivery systems, containerized ice plants and other related products. North Star ice systems are now operating in over 90 countries in a wide variety of applications.

Seafood	Meat & Poultry	Chemical	Grocery
Fishing, aquaculture, at-sea & land-based processing, holding, transportation & display	Processing & value-added products	Dye & chemical manufacturing	Perishable food holding & display
Produce	Bakery	Construction	Recreation
Perishable cooling & transport	Dough cooling	Concrete cooling	Ski resort snow-making



North Star Ice Equipment Corporation P.O. Box 80227 • 8151 Occidental Ave. S. Seattle, WA 98108-0227 USA Telephone: (206) 763-7300

Toll-free in USA: 1-800-321-1381 Fax: (206) 763-7323

E-mail: info@northstarice.com Web Site: www.northstarice.com