

Flake Ice Makers for Concrete Cooling

North Star Ice Equipment leads the world in ice equipment for concrete cooling. Our industrial flake ice makers have been used on hundreds of mass pour and large-scale concrete projects, such as the Itaipu Dam, the Panama Canal expansion, and other dams and nuclear power plants worldwide. North Star is also the preferred ice equipment supplier for ready-mix plants around the world. While providing the most efficient means of concrete cooling, North Star flake ice makers are also known for their dependability and high capacities, ensuring that time sensitive projects can be completed on schedule and without interruption.

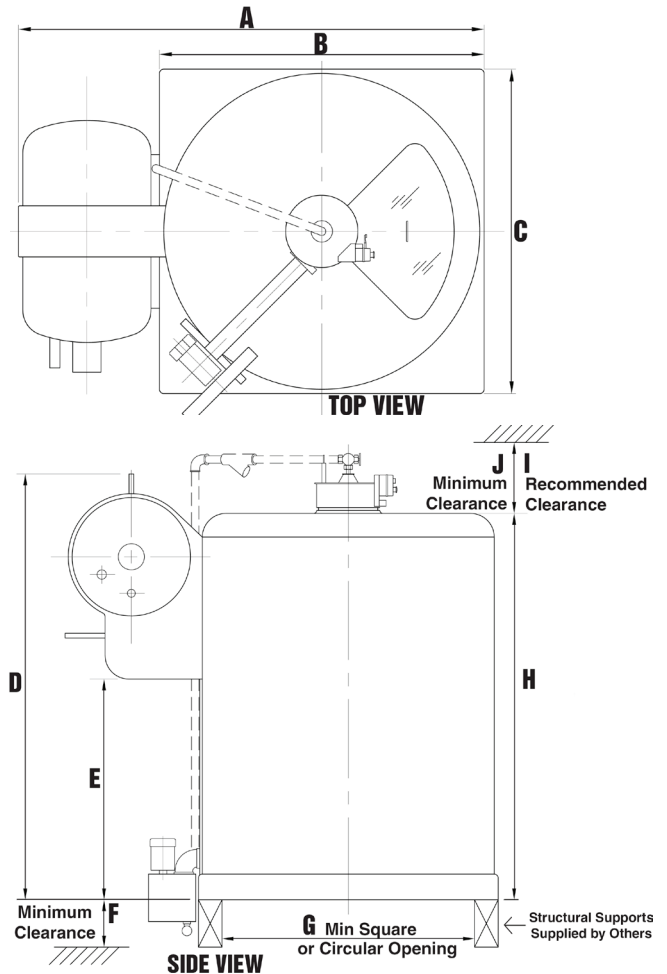
Feature	Benefit
<i>Makes sub-cooled flake ice</i>	<ul style="list-style-type: none">• Superior ice for mass pour concrete applications -- the greatest surface area coverage for faster, more efficient cooling.
<i>Solid carbon steel freezing surface</i>	<ul style="list-style-type: none">• Will not chip, flake or pit. Superior heat transfer versus other freezing surfaces.
<i>Double-walled, stationary evaporator design</i>	<ul style="list-style-type: none">• No refrigerant seals to leak.
<i>Operates continuously with no defrost cycle</i>	<ul style="list-style-type: none">• All energy goes to making ice.
<i>North Star drip shield</i>	<ul style="list-style-type: none">• Complete separation of water and ice. 100% water to ice conversion.
<i>Simple installation and operation</i>	<ul style="list-style-type: none">• Easy to use with minimal maintenance requirements.
<i>High R-Value polyurethane insulation and reinforced fiberglass exterior</i>	<ul style="list-style-type: none">• Energy efficient and durable.
<i>North Star's lifetime evaporator warranty</i>	<ul style="list-style-type: none">• The best warranty in the business.
<i>Constructed to ASME or PED codes</i>	<ul style="list-style-type: none">• Meets international safety requirements for pressure vessels.



Flake Ice Makers for Concrete Cooling

Ice Maker Dimensions

	Model 40	Model 60	Model 90
A	83.5" (2121 mm)	106.6" (2708 mm)	109" (2770 mm)
B	56" (1422 mm)	76" (1930 mm)	76" (1930 mm)
C	56" (1422 mm)	76" (1930 mm)	76" (1930 mm)
D	72" (1829 mm)	80" (2032 mm)	107" (2718 mm)
E	38" (965 mm)	38" (965 mm)	56" (1422 mm)
F	12" (305 mm)	12" (305 mm)	12" (305 mm)
G	44" (1118 mm)	64" (1626 mm)	64" (1626 mm)
H	68" (1727 mm)	72" (1829 mm)	96.5" (2451 mm)
I	48" (1219 mm)	48" (1219 mm)	48" (1219 mm)
J	18" (457 mm)	18" (457 mm)	18" (457 mm)



Ice Maker Capacities

The chart below shows the capacities in tons (metric tons) of ice per 24 hours for each model using the indicated evaporator temperatures.

Evap. Temp. - °F - °C	0 -18	-5 -21	-10 -23.5	-15 -26	-20 -29	-25 -32	-30 -34.5	-35 -37
Model 40 CS								
1.5mm Ice Thickness	13.0 (11.9)	15.2 (14.1)	17.4 (15.9)	19.7 (17.8)	21.5 (19.6)	22.7 (20.7)	23.3 (21.1)	23.7 (21.5)
2.0mm Ice Thickness	11.0 (10.1)	13.0 (12.1)	15.0 (13.7)	17.0 (15.3)	18.9 (17.2)	20.0 (18.2)	20.8 (18.9)	21.5 (19.3)
Model 60 CS								
1.5mm Ice Thickness	20.2 (18.6)	23.9 (22.2)	27.5 (25.1)	31.2 (28.2)	34.7 (31.6)	38.0 (34.7)	39.9 (36.2)	40.9 (37.0)
2.0mm Ice Thickness	17.5 (16.1)	20.6 (19.2)	23.9 (21.8)	27.1 (24.4)	30.2 (27.5)	32.6 (29.8)	34.1 (30.9)	35.0 (31.7)
Model 90 CS								
1.5mm Ice Thickness	29.3 (26.9)	34.3 (31.8)	39.3 (35.9)	44.1 (39.8)	48.9 (44.5)	53.0 (48.5)	56.1 (50.5)	58.3 (52.8)
2.0mm Ice Thickness	23.9 (22.0)	28.3 (26.3)	32.6 (29.8)	36.9 (33.4)	41.2 (37.5)	44.9 (41.2)	48.0 (43.6)	50.3 (45.5)

Above capacities based on 60°F (15.5°C) make-up water and oil-free ammonia refrigerant. For different operating conditions including halocarbon refrigeration, please visit the North Star Website and use our Ice Maker Selector Tool at: www.northstarice.com.

North Star Ice Equipment Corporation

8151 Occidental Avenue South
P.O. Box 80227
Seattle, WA 98108 USA
Tel: 206-763-7300

Toll-free in USA: 1-800-321-1381
Fax: 206-763-7323
Email: info@northstarice.com

North Star

www.northstarice.com