

MODEL 40 FLAKE ICE MAKER Specification sheet



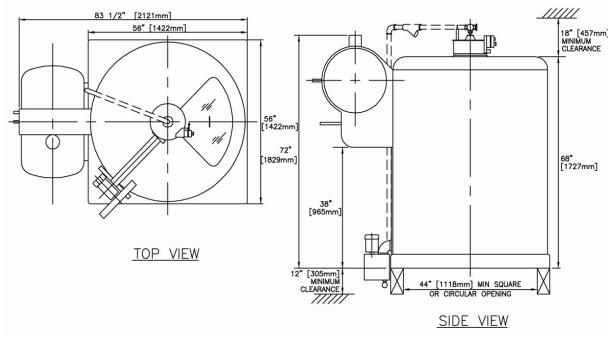
STANDARD FEATURES

- 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.



Morth Star. North Star Model 40 Operating Data



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

| WEIGHT: VOLUME: | 5,200 lbs - 1,905 kg 326 cu ft - 9.23 cu mtr | OIL DRAIN LINE: WATER LINE: | 1/2" MPT |
|--------------------|---|--------------------------------|------------|
| DRIVE MOTOR: | 0.75 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 |

| REFRIGERANT CAPACITY (Volume 5.55 Cubic Feet16 Cubic Meters) | | | | REFRIGERATION REQUIREMENT (Tons of Refrigeration Per Ton of Ice) | | | | | |
|--|---------------------|------------------|---------------------|--|------|------|------|------|------|
| Freon R-134a | 458 lbs (208 kg) | Freon R-404a | 436 lbs (198 kg) | Water Temperature °F | 40 | 50 | 60 | 70 | 80 |
| Freon R-22 | 418 lbs (190 kg) | Ammonia R-717 | 210 lbs (95 kg) | Tons of Refrigeration | 1.20 | 1.25 | 1.30 | 1.40 | 1.50 |

ICE MAKING CAPACITY BANGE GUIDELINE

| Evaporator Temperature (°F) | +5 | 0 | -5 | -10 | -15 | -20 | -25 | -30 |
|--------------------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Stainless Steel Model | 7.7 | <i>9.1</i> | <i>10.5</i> | <i>12.0</i> | <i>13.4</i> | <i>14.9</i> | <i>16.1</i> | <i>17.0</i> |
| | 9.7 | 11.4 | 13.0 | 14.9 | 16.6 | 18.3 | 19.7 | 20.2 |
| Carbon Steel Model | <i>9.0</i> | <i>11.0</i> | <i>13.0</i> | <i>15.0</i> | <i>17.0</i> | <i>18.8</i> | <i>20.0</i> | <i>20.7</i> |
| | 10.8 | 13.0 | 15.2 | 17.4 | 19.7 | 21.5 | 22.7 | 23.2 |

*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