

Turbo Ice Machine

Mfg: Turbo

Model: IGC225SCER

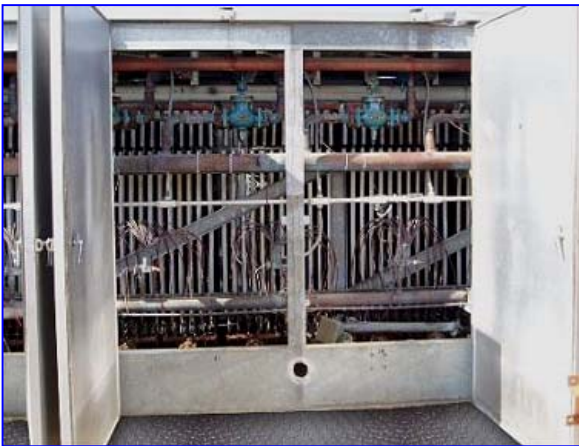
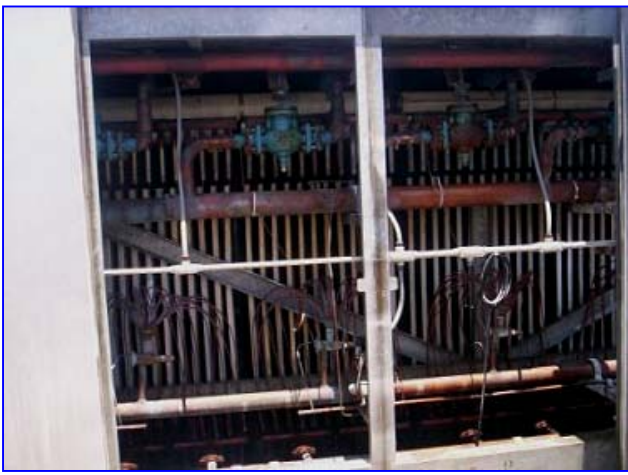
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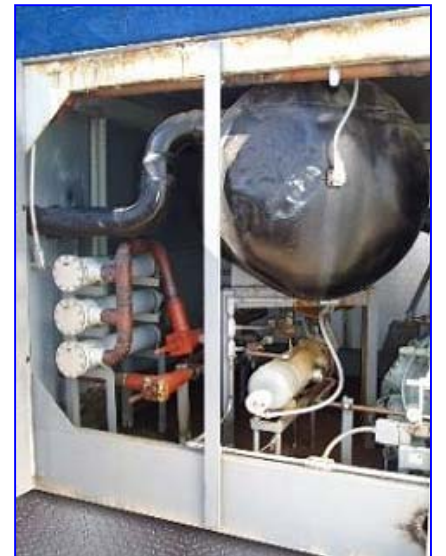
Serial No. 925460

Turbo Ice Machine. Model IGC225SCER. S/N 925460. Ice generation 217 tons ice at 95 degree condensing and 32 degree water to the plate. As chiller 341 tons chilling. 45 degrees water in and 33 degrees water out. (3) Royce C120 compressors each with 125 hp motor. Overall dimensions: 45 ft. L x 9 ft. 2 in. W x 7 ft. 7 in. H. Includes freon, all starters, disconnects, pumps, motors, and tanks.









DATA SHEET

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| UNIT MODEL: | IGC-225 SCER |
| SERIAL NUMBER: | 925460 |
| UNIT DIMENSIONS*: | 42'10"L x 9'W x 8'3"H |
| SHIPPING WEIGHT: | 45,000 LBS |
| MAXIMUM DESIGN WEIGHT: | 93,000 LBS |
| COMPRESSOR: | 3 EACH OPEN INDUSTRIAL RECIP. COMPRESSORS |
| MAIN VOLTAGE: | 460V/3PH/60HZ |
| CONTROL VOLTAGE: | 115V/1PH/60HZ BY CONTROL TRANSFORMER |
| EST. REFRIGERANT CHARGE: | 3550 LBS. R-22 (BY OTHERS) |

*APPROXIMATE DIMENSIONS

ENGINEERING SPECIFICATION

DYNAMIC ICE HARVESTING THERMAL STORAGE EQUIPMENT

EQUIPMENT SCHEDULE: MODEL IGC-225 SCER

| OPERATING MODE | H2O ONTO PLATES (F) | NET CAP TONS | SCT (F) | NET KW/TON | COMP BHP | MOTOR HP |
|-------------------|------------------------|-----------------|------------|---------------|-------------|----------------|
| Ice Generation | <u>32</u> | <u>217</u> | <u>95</u> | <u>1.06</u> | <u>293</u> | <u>125 (3)</u> |
| Super Chiller | <u>45</u> | <u>341</u> | <u>98</u> | <u>0.75</u> | <u>326</u> | <u>125 (3)</u> |

EQUIPMENT:

The ice making/chilling equipment shall be a factory assembled and tested TURBO REFRIGERATING COMPANY ice harvesting thermal storage unit. The unit shall be designed to chill entering water to a lower temperature and/or to form ice on the (evaporator) heat transfer plates. Ice, once formed, shall reside on the heat transfer surface for a period not to exceed thirty (30) minutes prior to being shed into a separate ice/chilled water storage tank. Heat liberated from the refrigeration effect on the water shall be rejected through the unit's mechanical refrigeration cycle to a refrigerant condenser. During the ice-making mode, a portion of this heat shall be directed to each evaporator section in sequence to remove the ice from the plates.

PROCESS:

The Turbo Refrigerating Company ice harvesting thermal storage unit shall be comprised of an evaporator section, a compression (high side assembly) section, and a controls/power wiring section constructed within a heavy duty structural steel frame and encased by a panelled enclosure.

EVAPORATOR SECTION:

The evaporator section shall be comprised of a series of stainless steel (ASTM 269 TP 304) plates and the evaporator chilled water distribution system.

EVAPORATOR PLATES

The heat transfer plates shall be constructed of two sheets of stainless steel which have been seam welded, then pneumatically expanded to form a proprietary refrigerant circuit design capable of optimum heat transfer in chilling and ice making mode(s) of operation.

The evaporator section plates and refrigerant circuit shall be designed and manufactured in accordance with American National Standards Institute/American Society of Heating, Refrigerating, and Air Conditioning (ANSI/ASHRAE) Standard 15 "Safety Code for Mechanical Refrigeration" for cyclic operating pressures to 150 psig and for static conditions of 250 psig.