

# **GIRTON KING ZEERO**

## **‘E’ SERIES ICE BUILDER STAINLESS STEEL CONSTRUCTION**

1      Girton King Zeero Ice Builder with a capacity from 3,145 to over 80,000 Lbs.

### **Specifications:**

**TANK CONSTRUCTION** - The basic tank shall be constructed of stainless steel.

**INSULATION** - The King Zeero Ice Builder shall be insulated with a minimum of 2" rigid foam.

**COVERS** – Stainless steel sheet metal covers are supplied as standard and are of overlapping, drip-proof design. Covers can be insulated with 2" foam insulation.

**EXTERIOR COVERING** - The exterior of the King Zeero Ice Builder shall be sheathed in stainless steel for permanent weather resistance.

**REFRIGERANT CIRCUIT** - The King Zeero Ice Builder shall be equipped with stainless steel, vertical pipe coils. All coils shall be connected to liquid and suction headers with a single liquid and a single suction connection. Units with 18 coils or more shall have dual connections. The coil construction shall be so configured as to assure proper refrigerant distribution over the internal surfaces of the coil. Each coil shall be equipped with an oil drain valve. A Phillips Float Valve shall be provided to maintain the full flooded ammonia charge. Each coil shall be mounted on a stainless steel sheet to provide a secondary refrigeration surface, promote accelerated ice growth between the coil pipes during the storage phase, and to serve as a rigid coil support to eliminate possibility of fracture during shipment.

**WATER CIRCUITRY** - The King Zeero Ice Builder shall have a fully controlled water flow circuit to provide long passage and long dwell time of water to ice. The design of this circuit shall be such that water flow over all ice surfaces is positive, assuring that there are no "dead" spots where the ice can bridge across. There shall be a minimum of 4" between the ice surfaces with the ice at rated thickness. The water circuit shall also be so constructed as to provide agitation to the water. This agitation shall not require auxiliary devices requiring energy input other than those normally in the hydronic circuit. The water circuit shall be designed to provide for progressive ice melt-off so that effective utilization may be made of increasing amounts of the evaporator surface in a load-leveling installation.

**AUTOMATIC ICE THICKNESS CONTROL** - The automatic ice thickness control shall be securely mounted to the frame of the storage King Zeero Ice Builder. It will be externally adjustable to provide for ice thickness of 1" - 3", as required.

# ***King Zeero 'E' Series Ice Builder***

