

GIRTON KING ZEERO

ICE BUILDER CABINET STAINLESS STEEL CONSTRUCTION

Girton King Zeero Ice Builder Cabinet with a capacity from 500 lbs. to over 100,000 lbs. of ice at 2-1/2" thick.

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. Insulated covers are available as an option with 2" foam insulation.

EXTERIOR COVERING - The exterior of the unit shall be sheathed in stainless steel for permanent weather resistance.

REFRIGERANT CIRCUIT - The King Zeero Ice Builder shall be equipped with stainless steel, serpentine pipe coils. There shall be an individual thermal expansion valve for each coil. All coils shall be connected to liquid and suction headers with a single liquid and a single suction connection. 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 internal oil return device. A suction strainer shall be provided for installation in the suction line. 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.

CONTROL COMPARTMENT - The King Zeero Ice Builder shall have an area on one end which shall contain the refrigerant connections, water connections, thermal expansion valves and driers and the automatic ice thickness controls.

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

End Of Specificaiton

King Zeero Cabinet

