

Product Name :
Ice Plant Trainer

Product Code :
NEGEMG149



Description :

Ice Plant Trainer

The Ice Plant Trainer is designed to demonstrate ice manufacturing process & to analyze Refrigeration Cycle at low temperatures. The ice plant capacity is 10 Kg/day.

The trainer uses Hermetic Compressor, Air Cooled Condenser, Capillary Tube & coiled evaporator immersed in brine tank. Ice cans are placed in brine tank on a steel frame. Low speed stirrer is fitted to the brine tank to maintain uniform brine temperature. Brine tank is insulated & inner tank is made of stainless steel.

CFC free refrigerant R-134a is used in the system & is pre charged in the system.

Instruments

to measure Cycle Pressure, Temperatures at different points, Power Consumption are fitted on Instrument panel. Flow of refrigerant is measured on Glass tube Rotameter fitted with calibrated scale. High & Low Pressure cutoff switch & thermostat are provided as safety devices.

EXPERIMENTAL CAPABILITIES:

- To demonstrate working of Ice Plant working on Vapor Compression Refrigeration Cycle.
- To draw refrigeration cycle on P-h Diagram & calculate enthalpy at different points.
- To calculate COP of Refrigeration Cycle.
- To calculate Ice Making capacity of the Plant.

SPECIFICATIONS:

- Compressor: Hermetically Sealed, 230 V AC.
- Condenser: Finned Copper Tube Condenser with condenser fan & motor
- Evaporator: Coiled Evaporator immersed in brine.
- Brine Tank: Insulated tank, inner tank made of Stainless Steel.
- Expansion Device: Capillary Tube
- Stirrer: Low Speed Motorized Stirrer for Brine solution
- Flowmeter: Glass Tube Rotameter for Refrigerant Flow
- Pressure gauge: 0 to 300 PSI
- Compound gauge: -30 to 150 PSI
- Temperature Sensors: Pt 100 temperature sensors – 6 Nos.
- Temperature Indicator: 8 Channel Indicator with Selector Switch, Range 0-199.9 °C
- Frame: Made of M.S. Square Tubes & Sheets, Welded & Powder coated.

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