Product name:	Product code:
Ice Plant Trainer	RLE-0018



Description

Ice Plant Trainer

Technical specification

The trainer uses Hermetic Compressor, Air Cooled Condenser, Capillary Tube & coiled evaporator immersed in the brine tank. Ice cans are placed in brine tank on a steel frame. The low-speed stirrer is fitted to the brine tank to maintain uniform brine temperature. The brine tank is insulated & inner tank is made of stainless steel.
CFC free refrigerant R-134a is used in the system & is precharged in the system.
Instruments to measure Cycle Pressure, Temperatures at different points, Power Consumption is fitted on Instrument panel. The flow of refrigerant is measured on Glass tube Rotameter fitted with the calibrated scale. High & Low-Pressure cutoff switch & thermostat are provided for safety devices.

EXPERIMENTAL CAPABILITIES:

- To demonstrate the 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.

Product Details:

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Compressor	Hermetically Sealed
Condenser	Finned Copper Tube Condenser with condenser fan & motor
Evaporator	Coiled Evaporator immersed in brine
Pressure gauge	0 to 300 PSI
Compound gauge	-30 to 150 PSI
Temperature Sensors	100 temperature sensors
Frame	Made of M.S. Square Tubes & Sheets, Welded & Powder coated
Usage	Industrial Use

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.