



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

ICE PLANT TRAINER-



Working Principle

The Ice Plant Test rig works on simple vapour compression refrigeration cycle and uses R134a or R 404 A as a refrigerant. These are environment friendly.

Details

The system is fabricated such that students can observe and study ice formation process. It is also useful to understand working of vapour compression system, its performance and controls used. The arrangement of parts such that, all the parts are visible and working can be easily understood.

Technical Specification

•Ice production Capacity	: 25 kg in a day of 24 hrs.
•After attaining brine temp of -5 C	: Ice cans will be loaded.
•Number of ice cans	: 4 nos.
•Ice qty per can	: 0.6 kg
•Ice production per batch	: 2.4 kg
•Cycle time per batch	: 2 hrs
•Compressor hermetically sealed	: Emerson/ Tecumseh/ Danfoss or equivalent make.
•Condenser	: Forced convection air cooled
•Condenser fan	: Axial flow type
•Evaporator Immersed	: (Refrigeration grade copper tube); Direct expansion type; 3/8" OD x 35'
•Drier/ filter Provided	: Molecular sieve type
•Expansion device	: Capillary tube

•Insulation	: 65 mm thick, Polyurethane foam (PUF)
•Primary Refrigerant	: R 134a
•Secondary Refrigerant	: Ethylene Glycol Solution
•Temperature Indicator	: with 6 no. of selector points provided
•Pressure	: 2 Nos. for suction and discharge
•Safety device	: Brine Thermostat Provided
•Supply	: 230 Volts, 50 Hz, 1 phase
•Input power	: 400 Watts
•Rated current	: 3.0 Amps
•Stirring	: Stirrer Motor Provided
•Energy Meter	: For compressor provided.
•Outer body	: Made from 1.2 mm thick CRCA sheet, which is powder coated
•Brine Tank	: SS 304
•Size	: 860 x 600 x 1165 mm (L x D x H)

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