

Order Code - 22235958.3 **Ice Plant Trainer** 



### **Technical Description:**

The unit enables the students to study the Basic Principals of ice plant cycle within a short period. The test rig is designed for the study of thermodynamics of vapour Compression refrigeration cycle by way of demonstration and experimentation. It has a facility to measure various parameters for experimentation. Ice cans are kept in liquid tank, which is cooled by the refrigerant evaporator. As conventional ice plants take 12-24 hours to complete the cycle, this ice plant is specially designed to demonstrate process of ice formation to be complete within period of 4 hours and hence it is most suitable for laboratory use.

## **Learning Objects/Experimentation:**

- To study the working of Ice Plant.
- To Study the refrigerator circuit.
- To Calculate Co-efficient of performance

#### **Requirment For Operation:**

Electric supply: Single Phase, 220V AC, 50 Hz, 10 Amp with earth connection.

 Water supply and drainage Floor area: 1.5 m x 1m Ethyl Glycole t: 25 Ltr.

#### **Technical Specification:**

• Compressor: Hermitically sealed compressor, Kirloskar make.

Tank: The inner tank shall be fabricated out of stainless steel

Condenser: Air cooled compatible to compressor

Condenser Cooling fan : Compatible capacity with permanent lubricated motor.

Evaporator: Made of Stainless Steel, Insulated with ceramic wool/puf.

Expansion Device: Capillary Tube Compatible capacity.

Pressure Gauges: 2 Nos.

Safety Control: overload and over current protectors for compressor and Time delay

Temperature Sensor: RTD PT-100 Type.

Control Panel comprises of:

Digital Voltmeter: 0-300 V

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

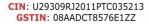


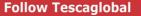
Export Sales: +91-9829132777 India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302022, India.















# Tesca Technologies Pvt. Ltd.



Order Code - 22235958.3 **Ice Plant Trainer** 

Digital Ammeter: 0-5 Amp.

- Temperature Measurement: Digital Temperature Indicator with multi-channel switch.
- Instruction Manual: An ENGLISH instruction manual will be provided along with the **Apparatus**
- All Other accessories like filter drier will be provided.
- All the accessories will be mounted on rigid base frame made of M.S. and it will be powder coated

#### **Control Panel:**

Standard make on/off switch, Mains Indicator etc

## **Scope of Delivery:**

- 1 Self-contained "ICE PLANT TRAINER" Apparatus
- 1 Instruction Manual consisting of experimental procedures, block diagram etc.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



CIN: U29309RJ2011PTC035213

**GSTIN**: 08AADCT8576E1ZZ

Export Sales: +91-9829132777 India Sales: +91-9588842361



