© LAB ENGINEERING

Email:

purchase@elabengineeringequipments.com Phone: +91-9811375383

Product Name :ICE PLANT TEST RIG 24 KG PER DAY

Product Code:Conditioning0004

© LAB ENGINEERING

Description:

ICE PLANT TEST RIG 24 KG PER DAY

Technical Specification:

The Ice Plant Test rig works on simple vapour compression refrigeration cycle and uses as a refrigerant. These are environment friendly. 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 SPECIFICATIONS:

| : Ice Production | : 24 kg in a day of 24 hrs. |
|------------------|---|
| Capacity | After attaining brine temperature of -5 deg C, ice cans |
| | will be loaded. |
| | Number of ice cans = 4 nos; Ice qty per can=0.5 kg |
| | ce production per batch = 2 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) |
| | |

| Refrigerant | : | R 134a/404a |
|----------------|---|---|
| Temperature | - | Temperature indicator with 6 no. of selector points |
| | | provided |
| Pressure | | 2 Nos. for suction and discharge |
| Brine Solution | : | Ethylene Glycol + Water |
| Supply | : | 230 Volts, 50 Hz, 1 phase. |
| Input power | | 400 Watts. |
| Rated current | : | 3.0 Amps |
| Stirrer Motor | : | Provided. |
| Energy-meter | - | For compressor provided. |
| Outer body | : | 1.2 mm thick CRCA |
| Brine Tank | : | SS 304/ PVC |

LIST OF EXPERIMENTS:

TO EVALUATE CAPACITY OF THE ICE PLANT.

TO CALCULATE C.O.P. OF THE SYSTEM.

TO PLOT SYSTEM PERFORMANCE ON P-H CHART.

© LAB ENGINEERING

Elab Engineering Equipments Manufacturers

2/2