

Product Name :
 Ice Plant Test Rig 24 Kg Per Day

Product Code :
 NLAB-ENGINEERINGLB34004



Description :

Ice Plant Test Rig 24 Kg Per Day

Technical Specification :

PRODUCT DESCRIPTION:

The Ice Plant Test rig works on simple vapour compression refrigeration cycle and uses R134-a or R404-A 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 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	

Ice production per batch = 2 kg	
Cycle time per batch = 2 hrs.	
Compressor sealed.	
Emerson/ Tecumseh/ Danfoss or equivalent make.	
Condenser	Convection air cooled
Condenser type	
Evaporator	(Refrigeration grade copper tube); Direct expansion type; 3/8" OD x 35'
Evaporator type	
Drier/filter	Molecular sieve type
Expansion device	
Insulation	Thick, Polyurethane foam (PUF)
Refrigerant	R404a
Temperature indicator with 6 no. of selector points provided	
Pressure suction and discharge	
Refrigerant	Ethyl Glycol + Water
Supply	230 Volts, 50 Hz, 1 phase.
400 Watts	
Rated current	
Stroke Motor	

Compressor provided.	
Condenser CRCA	
Evaporator	
Refrigerant	

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.

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003