

**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:**

<b>Ice Production Capacity.</b>	
	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
Coil/ Hose type	
Evaporator (Refrigeration grade copper tube); Direct expansion type; 3/8" OD x 35'	
Drier/ filter	Molecular sieve type
Expansion device	
Insulation	15 mm thick, Polyurethane foam (PUF)
Refrigerant	R404a
Temperature indicator with 6 no. of selector points provided	
Pressure suction and discharge	
Brine Solution	Glycol + Water
Supply	230 Volts, 50 Hz, 1 phase.
Capacity	400 Watts
Refrigerant	
Started Motor	

For compressor provided.	
Orter by CRCA	
By PWC	

**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

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