

Product Name :
General Cycle Air Conditioning Test Rig

Product Code :
NLAB-ENGINEERINGLB34003



Description :

General Cycle Air Conditioning Test Rig

Technical Specification :

PRODUCT DESCRIPTION:

The A.C. test rig works on simple vapour compression refrigeration cycle using R-134a as a refrigerant. The system is fabricated such that student can study all the air conditioning processes. It is also useful to understand working of all the components of system, their performance and control etc.

All the components are mounted on the display board, so that students can observe their working easily.

TECHNICAL SPECIFICATIONS:

1	APPROX	TEST CONDITIONS
2		
3	COMPRESSOR	SEAL. MAKE: EMERSON CLIMATE TECH.OR ANY EQUIVALENT MAKE.
4		
5	CONDENSER	CONVECTION AIR COOLED.
6		
7	CONDENSER FAN	
8		
9	EVAPORATOR	
10		
11	EXPANSION DEVICE	
12		
13	EVAPORATOR	CONVECTION AIR COOLED.
14		
15	EVAPORATOR FAN	AXIAL FLOW TYPE

DIFFERENTIAL HEATER.
REHEATER

REHEATER

REFRIGERANT

RECOPRODUC / OR INDOSS OR ANY EQUIVALENT MAKE.

TEMPERATURE FACILITY WITH DIGITAL DISPLAY.

PRESSURE TYPE PRESSURE GAUGES.

SEASIDE ROTOMETER PROVIDED.

TEMPERATURE MEASUREMENT BY SLING PSYCHROMETER.	
AIR FLOW MEASUREMENT METER.	
SUPPLY VOLTAGE, 50 HZ, 1 PHASE.	
INPUT POWER	
RATED CURRENT	
PROVIDED FOR COMPRESSOR AND HEATER.	
ENERGY CONSUMPTION PROVIDED FOR COMPRESSOR	
MATERIAL 12 MM THICK CRCA	

POWER RATING	
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LIST OF EXPERIMENTS:

- To evaluate the tonnage capacity of the air conditioning system by enthalpy difference method.
- To evaluate actual and theoretical C.O.P. of the system.
- To plot the refrigeration cycle on P-H & T-S charts.
- To plot the psychometric processes on psychometric charts.

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