Email: sales@naugralabequipments.com

Product Name:

Mechanical Heat Pump

Product Code:

NLAB-ENGINEERINGLB34005



Description:

Mechanical Heat Pump

Technical Specification:

PRODUCT DESCRIPTION:

All the components of heat pump

Test Rig are displayed on powder coated fabricated stand. The primer consists of a hermetically sealed compressor, heat rejection chamber, drier-filter, expansion device, and heat absorption chamber. Hot vapours from the heat absorption chamber in the tank are sucked by the compressor, are compressed & sent to the heat rejection chamber. Liquid emerging out from the heat rejection chamber passes through the expansion device; it is throttled to low pressure & temperature & sent to heat absorption device where it boils. A drier filter is in the way to throttling device. Separate pressure gauges are provided to measure heat absorption device & heat rejection device Pressures at various locations. Energy meter is provided to measure energy consumed by compressor. Rotameter in the liquid line is incorporated to measure the refrigerant flow. Digital temperature indicator displays temperatures at various locations as per the selection viz. temperature before & after compressor and before & after expansion.

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SPECIFICATIONS OF THE HEAT PUMP TEST RIG:]
BURAW RUM PORROTS SCHEAT REJECTION AT RATED TEST CONDITIONS	
emerson climate technologies make INDIA LTD.OR EQ. MAKE	
HAM ERECECUED PROVIDED CHAMBER	
priœviditedr	
EXPANSIONIDESECE	
HEATABOORPEI(BREFRIGERANT GRADE COPPER TUBE) CHAMBER DIRECT EXPANSION TYPE PROVIDED	

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REIBAIGSERANT		
BEARSCEREAN ROJAMETER. neasurement		
DenGept Addictatelp. INDICATOR	provided	
DIAL TYPE PRESSURE GAU pressure INDICATION	GES: 2 NOS	
PRORODENDEMOR THE COMPI	RESSOR	
\$\$JPPOKTS, 1 PH, 50 HZ AC		

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LIST OF EXPERIEMNTS:

- To evaluate the COP of the system of heating & cooling cycle.
- To calculate CARNOT COP.
- To plot the actual Refrigeration Cycle on P-H chart.
- To study various components and controls used in heat pump.

Naugralabequipments

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