Product Name : Water Cooler Test Rig

Product Code : NLAB-ENGINEERINGLB34010



Description :

Water Cooler Test Rig

Technical Specification :

PRODUCT DESCRIPTION

'THE WATER COOLER' Test Rig

enables students to study and understand Vapor Compression Cycle, its components, principle and working. All the components are mounted on rigid steel frame. The trainer consists of a hermetically sealed compressor, forced convection air-cooled condenser, filter / drier, flow meter, expansion device and coil wound type evaporator. Separate pressure gauges are provided to record suction and discharge pressures and digital temperature indicators for various temperatures. The refrigerant used is R-134 which is environment friendly. The water cooler consists of an insulated stainless steel tank around which evaporator tubes are wound and soldered. The tubes are made of refrigerated grade annealed copper tubes. This is a direct expansion type evaporator. The heat absorbed by the refrigerant is passed through water which is continuously flowing.

TECHNICAL SPECIFICATIONS OF WATER COOLER TEST RIG

WELLTERSTOR
2041 HERRSSTORAGE
REIERANT
STATIER ESSESTE ENNER
HERRIC SEALED; ENTERSON CLIMATE TECHNOLOGIES OR
CONCERNSERNVECTION AIR COOLED
COOLENENSER FRIMIONDECTION TYPE
EXTRANSION DEBECE
PRESSURE (BADUCAETS) ONNOS PROVIDED
DEMPERAEVIRE RATURE INDICATOR FOR REFRIGERANT
ENERCED MARES SOR : PROVIDED
TELERER STURE BOMIDEDL
OF THE WATER COOLER
SUPPOYTS, 50HZ, 1 PHASE, AC.

LIST OF EXPERIEMNTS

• To evaluate the cooling capacity of water cooler.

• To evaluate actual and theoretical C.O.P. of Vapor Compression Cycle.

• To plot the actual Refrigeration Cycle on P-H chart.

• To study various components and controls used in Vapor Compression Cycle.

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