Phone: +91-9896600003

Email: sales@naugralabequipments.com

#### **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

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MBALLERSCTØA®LZENOLTAS OR Equivalent MAKE	
<b>MONTERRS</b> TORAGE	
WALFERNS ORAGE	
REIBAIGERANT	
STATERESSONTE INUNER	
TANK	
HEERWHERESSORY SEALED; EN	MERSON CLIMATE TECHNOLOGIES OR
EQUIVALENT	
EONOEDISEONVECTION AIR	COOLED
COOLDENSER FRIRM, ON DIC	TION TYPE
PROEVADIEDLTER	
EXAPALISAGM DEBIECE	
EXAMPLICATION DUBBLE	
PRESSURE (BADUCAEBOANOS	PROVIDED
	NOATOR FOR REEDIGES !!!
IDEM PAIRALMIRE RATURE INL INTEM CATAONURES AND WATE	ICATOR FOR REFRIGERANT
INTERNATIONES AND WATE	R TEMPERATURE.
ENERCOMPRESSOR: PROV	DED
THE REPOSITOR PROMIDEDL	
OF THE WATER COOLER	
\$ <b>\$60PPOY</b> TS, 50HZ, 1 PHASE,	AC.
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# LIST OF EXPERIEMNTS

- To evaluate the cooling capacity of water cooler.
- To evaluate actual and theoretical C.O.P. of Vapor Compression Cycle.

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- To plot the actual Refrigeration Cycle on P-H chart.
- To study various components and controls used in Vapor Compression Cycle.

# **Naugralabequipments**

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