## **© LAB ENGINEERING**

Email:

purchase@elabengineeringequipments.com Phone: +91-9811375383

**Product Name:**REFRGERATION TEST RIG

**Product Code:**Conditioning0007



### **Description:**

REFRGERATION TEST RIG

### **Technical Specification:**

The Refrigeration Test Rig works on vapor compression cycle. The refrigeration (i.e. process of maintaining a closed space temperature below ambient temperature) is accomplished by continuously circulating, evaporating and condensing a fixed supply of refrigerant in a closed system. Evaporation occurs at a low temperature and low pressure while condensation occurs at a high temperature and pressure. Thus it is possible to transfer heat from an area of low temperature (in this case calorimeter) to an area of high temperature (the surroundings). The required instrumentation is provided to measure the various parameters at different points. This includes pressure gauges, temperature indicators and controller, energy-meters, heater for applying load and flow meter to measure the refrigerant flow **TECHNICAL SPECIFICATIONS OF REFRIGERATION TEST RIG** CA 500

PA WATTS
CIT AT
Y RATED
TEST CO
NDITION
S.
RE R-134 a
FRI
GE
RA
NT
C HERMET

OM PR ES SO R	ICALLY SEALED Make: E MERSO N CLIMATE TECHNO LOGIES LTD.OR EQUIVAL ENT.
	FORCED CONVEC TION AIR COOLED INDUCTI ON TYPE
ER / T R X A S O D S E	
R F G R A F C S M A C M A T	TUBE R OTAMET ER
EV AP OR AT	FORCED CONVEC TION AIR COOLED

hel	I
OR H	PROVID ED
	PRESSU RE GAU GES, 2NOS P ROVIDE D
N ERY GEER R	2 NOS P ROVIDE D. EACH ONE FOR CO MPRESS OR & HEATER
H M E K U E O F O F T E E C A B E	AUTOMA TIC BY T EMPERA TURE C ONTROL LER
SU PP LY	230 VOLTS, 50HZ, 1 PHASE, AC.
CO NS TR UC TIO N	MAIN BODY: 18 G CRCA, P OWDER COATED CALORI

METER: STAINLE SS STEEL

#### **LIST OF EXPERIEMNTS:**

- To evaluate the cooling capacity in Watts & in Tons of the system.
- 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.

# **© LAB ENGINEERING**

**Elab Engineering Equipments Manufacturers** 

4/4