

## RAC-002 COLD STORAGE PLANT



### **RANGE OF EXPERIMENTS TO BE CARRIED OUT:**

1. To study all components used in refrigeration system.
2. To study the Vapor compression Refrigeration cycle.
3. To study the concept of Cold Storage.
4. To determine the Refrigeration Effect, Work Input, Actual C.O.P., Carnot C.O.P., Theoretical C.O.P., Relative C.O.P., Ton of Refrigeration, and Plant Efficiency.

### **TECHNICAL DESCRIPTION :**

The equipment consist of Storage Room of 4 Ft x 4 Ft x 4 Ft with double wall insulated. Suitable small door for the cold storage.

uses compression cycle system with Freon – 134a as the cooling media. The unit differs in many aspects than the commercial plants.

The equipments consists of control panel, condensing unit, cooling system, storage room. The compressor is mounted at one side of base with a condenser & fan. A liquid receiver is adopted in the circuit. The evaporator coil is held at top of storage room.

The panel consists of switches, energymeter, pressure gauges, HP/LP cutout

**DIMENSIONS AND WEIGHT :**

Size :2.5 m.(L)x 2.5 m(W) X 2.5m ( H )

Weight :Approx. 2500 Kg

**SERVICE REQUIRED :**

440 v Ac Supply 50 Hz

**SCOPE OF DELIVERY:**

1. Experimental Setup
2. Instructional Manual

**OPTIONAL FACILITY:** Data logging Facility