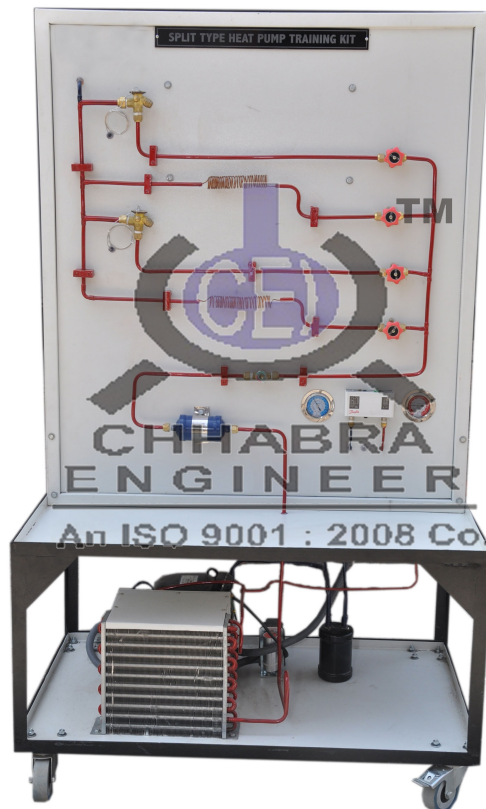


**Product Name :** " SPLIT TYPE HEAT PUMP TRAINING KIT "  
**Product Code :** " R.A.C 07 "

DEMO



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**Description :**

## **SPLIT TYPE HEAT PUMP TRAINING KIT:-**

### **AIM:-**

Familiarisation with the function of a Splittype heat pump:

- Familiarisation with the main components of a Splittype heat pump

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## **INTRODUCTION:-**

A heat pump extracts heat from a heat source and rejects heat to air or water at a higher temperature. During summer, the heat extraction, or refrigeration effect, is the useful effect for cooling. In winter the rejected heat alone, or rejected heat plus supplementary heating from a heater form the useful effect for heating.

A heat pump is a packaged air conditioner or a packaged unit with a reversing valve or other changeover setup. A heat pump has all the main components of an air conditioner or package unit: fan, filters, compressor, evaporator, condenser, and a throttling device.

The apparatus for changing from cooling to heating or vice versa is often a reversing valve, in which the refrigerant flow to the condenser is changed to the evaporator.

Alternatively, air passage through the evaporator may be changed over to passage through the condenser.

A supplementary heater is often provided when the heat pump capacity does not meet the required output during low outdoor temperatures.

R-22 and R-134a are the most widely used halocarbon refrigerants in new heat pumps.

## **TECHNICAL SPECIFICATION:-**

Hermetic compressor, evaporator, forced air cooled condenser, high and low pressure gauges, TEV valve, Type T thermocouples.

The unit is supplied with a mobile storage cabinet of code-gauge furniture stock steel with 4-inch swivel rubber-tired casters.