

**Product Name :**  
Mechanical Heat Pump Test Rig

**Product Code :**  
Conditioning Lab0005



## Description :

Mechanical Heat Pump Test Rig

## Technical Specification :

This Laboratory scale working model housed on a M.S. Square tube frame and further mounted on a wheels (CI) with instrumentation panel is used i) To study the performance of vapour compression Refrigeration system using water cooled condenser / water cooled evaporator, ii) Co efficient of performance (COP) of the system.

01. Hermitically Sealed Compressor

Capacity : 1/3 HP

Make & Model : SHRIRAM/KIRLOSKAR

02. Condenser

Type : Shell and Coil with Refrigerant inside the tube

03. Evaporator Water Cooled

Type : Shell and Coil with refrigerant Inside the tube

04. ROTA METER : 1 No

Make : Eureka

05. Hand Shut Off Valves

Size : 1/4"

Make : Kim/vanaz/equivalent

06. Filter Drier

Make : Danfoss/equivalent

07. Energy Meters

Make : Bhel/indimeter/equivalent

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08. Thermostat

Make : Danfoss/equivalent

09. Compound Gauges : 1 NO

Range : -30 " Hg to +150 psi

Make : Fiebig/equivalent

10. Measuring Instruments

a) Digital Temperature Indicator

11. Sump Tank

a) Capacity : Suitable

b) Material : S.S

12. PUMP

a) Make : UP National Mfg. Co./ Equivalent

13. Rota Meter

Make : Eureka/ Equivalent

Optional : At Extra Cost Line Voltage Corrector

Capacity : 4KVA

Output : 230V+/- 10%

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