



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

MECHANICAL HEAT PUMP TRAINER-



MECHANICAL HEAT PUMP TRAINER

[CAPACITY: 500 WATT, REFRIGERANT: R-134 a]

List of Experiments:

1. To study various components and controls used in heat pump.
2. To evaluate gross heat rejection of the heat pump.
3. To calculate actual & theoretical C.O.P. of the system.
4. To plot system performance on p-h chart.

The heat pump test rig is a self-contained unit. All the components are mounted such that its operation and working can be easily understood. The required controls for Temperature, pressure, and overload are provided. It uses a hermetically sealed Compressor, heat rejection chamber, heat absorption chamber, and apparatus to measure the heat gain and heat loss.

- Rating 500 Watts gross heat rejection at rated test conditions
- Compressor Hermetically sealed. Emerson / Tecumseh / Danfoss or equivalent make.
- Heat rejection calorimeter Water cooled provided
- Heat absorption Calorimeter Immersed tube; Direct expansion type
- Calorimeter Insulation Nitrile rubber foam Provided.
- Drier/ filter Provided
- Expansion device Capillary Tube
- Refrigerant R-134 a
- HP / LP Cut-out Danfoss/Alco/ Castle or equivalent make.
- Thermostat with Indication & 6 channel digital display
- Dial pressure gauges provided
- Refrigerant Flow Glass tube Rota meter
- Water flow Glass tube Rota meter
- Supply 230 Volts, 50 Hz, 1 phase.
- input power 600 Watts.
- Rated current 3.5 Amps.
- Fan motor Induction type
- Energy meters Provided for compressor
- Fabricated from 1.2 mm thick CRCA

- Outer finish Powder coating
- Size : 1000 x 600 x 1100 (L X B X H) mm

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