



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

DOMESTIC REFRIGERATOR TRAINER-



Refrigeration Trainer enables students to study and understand Vapour Compression Cycle, its components, principle and working. All the components are mounted on rigid steel frame. The trainer consists of a hermetically sealed compressor; natural convection air-cooled condenser, filter / drier, expansion device and evaporator. Separate pressure gauges are provided to record suction and discharge pressures and digital temperature indicators for various temperatures. The refrigerant used is R-134a which is environment friendly.

- CAPACITY 165 LITERS MINIMUM
- Refrigerator Standard make.
- Power Source 220- 240 V ; 50HZ; 1 Phase, AC
- Freezer Ice Trays Provided Component Shelf provided
- Freezer door rack.
- Storage Shelves Provided (2 Shelves)
- Shelf-half adjustable/full folding provided
- Shelf Eggs provided
- Shelf Bottle provided
- Crisper Provided
- Glass Shelf Provided
- Heater for load Provided.
- Energy Meter Compressor Provided
- Energy Meter Heater Provided
- HP/LP Cutout Provided
- Pressure Gauges 2 Nos Provided - 1 No. for suction gas pressure, 1 No for discharge gas pressure
- Digital Temperature Indicator with selector to display refrigerant temperatures at salient points.
- Refrigerant R-134 a non CFC & Environment friendly.

SET OF EXPERIMENTS :

- To study construction and working of domestic refrigerator
- To evaluate cooling capacity of the refrigerator at the ambient temperature.

- To evaluate the actual Coefficient of Performance of the refrigeration system.
- To evaluate the theoretical Coefficient of Performance of the refrigeration system.
- To plot the cycle on P-H chart.

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