



## FEATURES

- Compact, comprehensive, sturdy design
- Smooth and silent operation
- Total instrumentation for complete heat balance
- Direct flow measurement of refrigerant
- Study of refrigeration effect/process

### DESCRIPTION

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An invaluable aid in the effective understanding of the refrigeration process. The trainer highlights constructional details and operational features of domestic refrigerator. The trainer also facilitates study of thermodynamics of vapour compression refrigeration cycle by way of demonstration and experimentation. It has a facility to measure various parameters for experimentation.

### INSTRUCTION MANUAL

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Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

### LIST OF EXPERIMENT

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1. To study the actual Refrigeration effect against varying load
2. To study the construction of domestic Refrigerator
3. To study the refrigeration control using thermostat
4. To determine the coefficient of performance
5. Logical trouble shooting of various faults (only if fault trainer is opted for)

### COMPONENTS

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1. Domestic Refrigerator
2. Temperature Indicator Digital type, with sensors
3. Arrangement to load the system
4. Pressure gauges

### OPTIONAL ADDITIONAL

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1. Computerised refrigeration trainer  
An advanced personal computer based model. This system has facility of data acquisition, plotting on-line and historical trends. It carries out complete calculations to determine performance. A comprehensive HELP menu makes the system user friendly.
2. Refrigeration fault trainer
3. Refrigeration components cut away model board.

*Note: Details of attachments can be made available on request.*

### SERVICES REQUIRED

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- Electric supply 230 V AC, 50 Hz

### WEIGHT

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- 50 Kg

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