

## TU-100 BASIC REFRIGERATION TRAINER

*This training unit demonstrates domestic refrigerator and freezers, self-contained air conditioning units and reverse cycle or heat pump systems.*

### Specifications

1/3 HP hermetically sealed reciprocating compressor.

Panels are 1/4" thick HDPE with steel reinforced component shelf

Uses HFC 134A refrigerant

Electrical requirements: 120VAC; 50/60 Hz; 10A

Overall size: 36" L x 18" W x 73" H

### Features

- Sight glass tubes at inlet and outlet of evaporator and condenser constructed of explosion-proof, tie-bolt design
- Drip pans with drains located under each evaporator and condenser
- Uses popular, brand name components
- Color-coded valves, gauges, and hand valves to bypass various components and change from cooling to heating (heat pump operation)
- Conditions of refrigerant and oil can be observed under various methods of operation
- Pressure gauges located at each point in which pressure variation is likely to occur
- Refrigerant flow to evaporator metered either by capillary tube, automatic expansion valve (AXV), or thermostatic expansion valve (TXV)
- Evaporator and condenser copper tube coils with aluminum fins and variable speed fans
- A combination low pressure control and high pressure cutout and a thermostatic control with a range of -30°F to 100°F furnished
- High pressure cutout in the circuit at all times to prevent damage to the compressor
- Includes Lab Manual and Instructor Guide



**Shipping Weight: 450 lbs.**

**Shipping Dimensions: 49" L x 45" W x 87" H**

This Training Unit includes an iManifold Kit for full diagnostic testing and troubleshooting of system components. The kit comes complete with the award-winning iManifold wireless digital refrigeration manifold, (1) 902M Thermistor Air Probe, (3) 901M Thermistor Pipe Strap Surface Probes, and (1) iManifold backpack.

Additional accessories such as hoses, wireless probes, and the iConnect hub are also available.



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TRAINING