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**Product Name :**  
Air Conditioning System Trainer Thermal Expansion Valve

**Product Code :**  
LBNY-0005-121000292



#### **Description :**

The trainer uses the TXV (Thermal Expansion Valve) design of refrigerant flow control. The trainer uses common automotive components and can be used in both classroom and shop environments. The Air Conditioning System Trainer Thermal Expansion Valve is a complete A/C system with unique features designed to enhance the instruction of air conditioning physics. The trainer utilizes a hermetically sealed and internally protected compressor. Operates on 120V 15A 60Hz circuit.

#### **Features:**

- Digital thermometers (4) at inlet and outlet of evaporator and condenser.
- Two rows of LEDs that help in viewing refrigerant flow in condenser and evaporator which allow for clearer viewing of refrigerant flow.
- OEM R134a service ports.
- High and Low side A/C pressure gauges.
- Adjustable temperature control switch for evaporator temperature levels.
- Stainless steel condensate drip pan with drain.
- Removable magnetic component name labels and refrigerant flow direction arrows.
- Internally protected hermetically sealed A/C compressor.
- A/C compressor has manual starter with internal thermal protection.
- Cycling switch bypass toggle switch.
- Operation and Student assignment manual included.

#### **Technical Specification :**

Refrigerant: R134a (20 oz) (568 g)

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Refrigerant oil quantity: 1.5 oz  
Operates on a 120V 15A 60Hz circuit.  
Dimensions: Height: 42 Width: 42 Depth: 48 (105 x 105 x 120 cm).  
Weight: 250 lb (113.6 kg).



**Laboratory Instrument India**