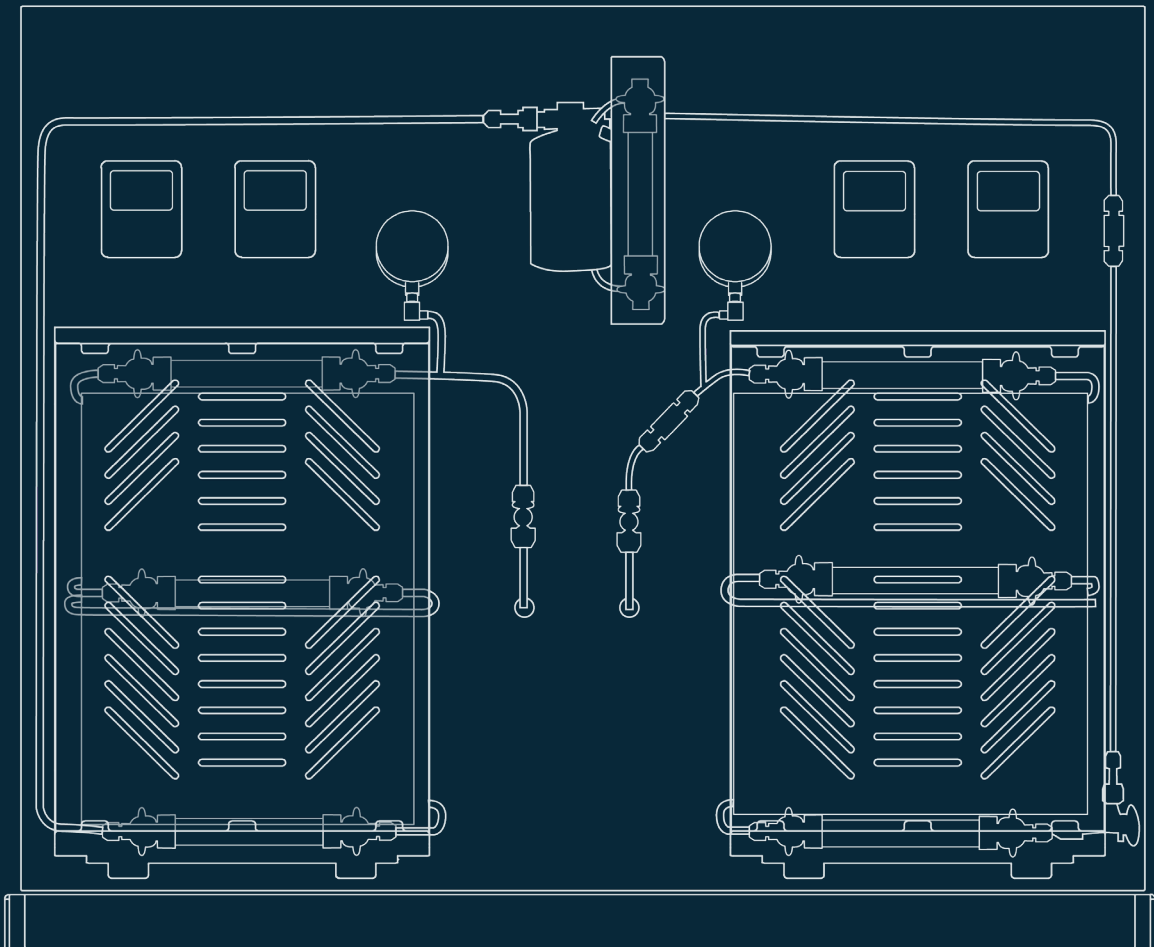




# Air conditioning system trainer with TXV





The Consulab EM-2000-TXV Air Conditioning trainer is a complete A/C system with unique features designed to enhance the instruction of air conditioning physics. 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 trainer utilizes a hermetically sealed and internally protected compressor. Operates on a 120V 15A 60Hz circuit.

## EDUCATIONAL ADVANTAGES

- Trainer has all major components required for an automotive air conditioning system.
- Fully operational with typical component layout and organization.
- Provides clear understanding of the TXV (thermostatic expansion valve) air conditioning refrigeration cycle.
- Allows student observation of refrigerant changes of state (liquid/vapor) at the evaporator and condenser.
- Students can see refrigerant liquid level at the receiver/dryer.
- Trainer can be connected to any A/C Recycling/Recovery equipment using R134a service ports.
- Provides pressure and temperature measurement displays of evaporator and condenser.
- Allows the introduction of system restrictions and blockages for diagnostic learning.
- Removable magnetic component identification labels and refrigerant flow arrows for student learning.
- Equipped with high pressure cut-out switch and internal compressor protection.
- High and low side ball valves can be adjusted to demonstrate various system restrictions resulting in abnormal operation.
- Trainers condenser, evaporator and compressor cycling switches can be adjusted to demonstrate various abnormal symptoms.

## FEATURES

- OEM R134a service ports.
- High and Low side A/C pressure gauges.
- Adjustable temperature control switch for evaporator temperature levels.
- Digital thermometers (4) at inlet and outlet of evaporator and condenser.
- Internally protected hermetically sealed A/C compressor.
- A/C compressor has manual starter with internal thermal protection.
- High pressure (300psi) safety switch shuts off compressor.
- Adjustable 3-speed evaporator (1) and condenser (2) fans.
- Cycling switch bypass toggle switch.
- Stainless steel condensate drip pan with drain.
- Power "ON" indicator light.
- Removable magnetic component name and refrigerant flow arrow labels.
- Operation Manual and Curriculum with student assignments included.

## TECHNICAL INFORMATION

- Operates on a 120V 15A 60Hz circuit.
- Refrigerant: R134a (24 oz) (680 g).
- Refrigerant oil: Ester 100 ISO, viscosity at 100.
- Sturdy powder coated metal stand with two locking swivel and two fixed casters.
- Dimensions: 46" x 30" x 67" (116.8 x 76.2 x 170.1 cm) / 48" x 40" x 69" (121.9 x 76.2 x 170.1 cm) (w/packaging).
- Weight: 250 lb (113.6 kg) / 395 lb (179.5 kg) (w/packaging).

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