



### Key features

- Application Educational use in Thermodynamics / HVAC labs
- Cycle Type Air-to-Air Vapor Compression Cycle
- Refrigerant Type R134a or R1234yf (environmentally friendly)
- Power Supply 220-240V, 50/60Hz, single phase
- Compressor Type Hermetically sealed rotary compressor
- Compressor Power 300W – 500W (low power)
- Evaporator Type Finned-tube air heat exchanger with fan
- Condenser Type Finned-tube air-cooled condenser with axial fan
- Expansion Device Capillary tube or thermostatic expansion valve (TEV)
- Evaporator Air - Flow~100 – 300 m<sup>3</sup>/h with adjustable speed fan
- Condenser Air - Flow~100 – 300 m<sup>3</sup>/h with adjustable speed fan
- Working Pressure Range 1 to 12 bar (depending on refrigerant)
- Temperature Range -5°C to 50°C air temperature
- Instrumentation (Screen Display)
- Pressure sensors (P) at key points (evaporator inlet/outlet, condenser inlet/outlet)
- Temperature sensors (T) at same points Refrigerant flowrate sensor (optional)
- Airflow velocity sensor (optional)
- Power meter (compressor electrical input)
- Energy consumption (kWh counter)
- Date and time display
- Simple graphical screen (7–10") touch or digital with push buttons

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Control Interface Basic digital control (ON/OFF, fault reset, fan speed control)
- No Data Logging
- Safety Features High/low pressure cutouts, overheat protection, electrical fuse, refrigerant sight glass
- Frame/Structure Aluminum profile or powder-coated steel frame with casters Transparent acrylic guards for visibility
- Educational Use Ideal for visualization of refrigeration cycle, pressure-enthalpy analysis, energy balance
- Optional Features - Color-coded flow diagram on panel- Manual expansion valve for student experiment- Marker ports for pressure gauges



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