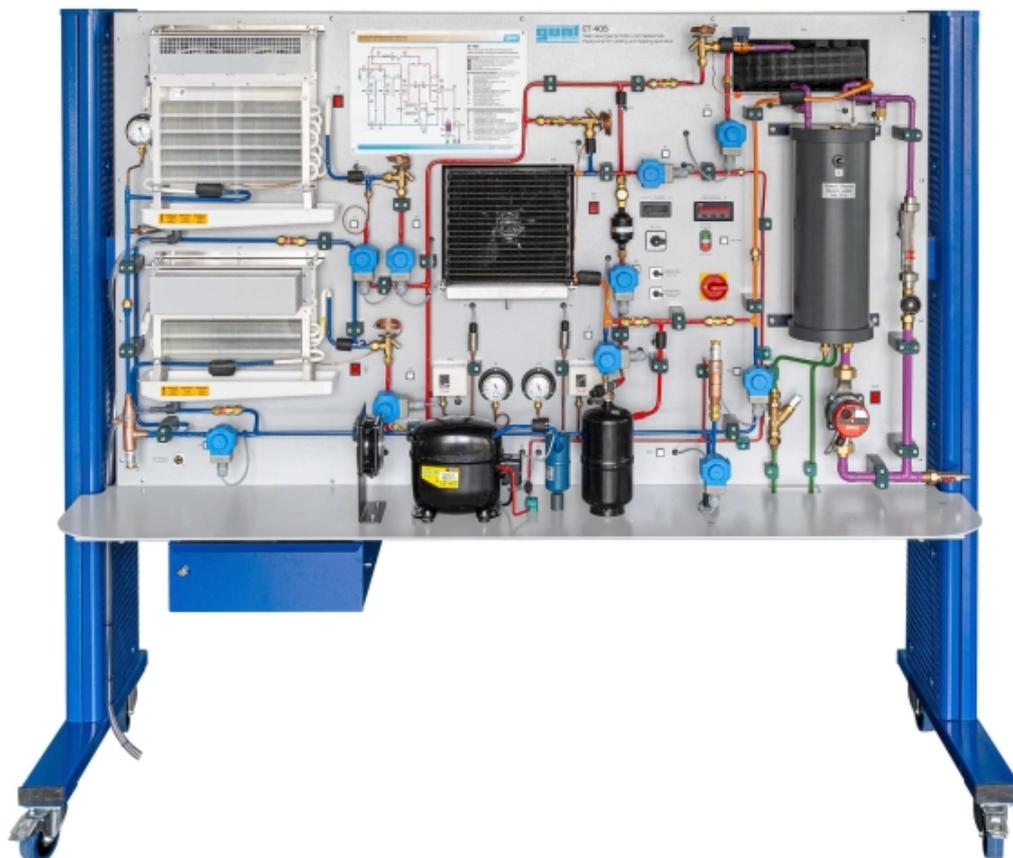


## ET 405 Heat pump for cooling and heating operation

Order code: 5201.06140500



Information about product price on demand

Parameters

Quantitative unit

ks

### GUNT ET 405

System provides hands-on experience with heat pump and refrigeration technology.

Users can set different operating modes via solenoid valves controlled through the GUNT software.

The refrigeration circuit includes a compressor, a condenser (heat exchanger with fan), and two evaporators with fans for refrigeration and freezing stages.

A glycol-water circuit with a tank, pump, and coaxial coil heat exchanger is integrated.

The coaxial coil heat exchanger and heat exchanger with a fan can function as either a condenser or an evaporator within the refrigeration

circuit.

Each heat exchanger and evaporator is equipped with a thermostatic expansion valve.

Additionally, an evaporation pressure controller and a capillary tube are included for the refrigeration stage evaporator.

The GUNT software displays temperature, pressure, flow rate, and compressor power consumption, and precisely calculates the refrigerant mass flow rate.

Data acquisition is available via USB on Windows 10.

## Technical Data & Specifications

- **Compressor:**
  - Refrigeration Capacity: 1561W at 5/40°C
  - Power Consumption: 759W at 5/40°C
- **Heat Exchanger with Fan:**
  - Transfer Area: 1.25m<sup>2</sup>
  - Volumetric Air Flow Rate: 650m<sup>3</sup>/h
- **Evaporators with Fan:**
  - Refrigeration Stage:
    - Transfer Area: 1.21m<sup>2</sup>
    - Volumetric Air Flow Rate: 80m<sup>3</sup>/h
  - Freezing Stage:
    - Transfer Area: 3.62m<sup>2</sup>
    - Volumetric Air Flow Rate: 125m<sup>3</sup>/h
- **Refrigerant:**
  - Type: R513A
  - GWP: 631
  - Filling Volume: 1.5kg
  - CO<sub>2</sub> Equivalent: 0.9t
- **Measuring Ranges:**
  - Temperature: 11x -50...150°C
  - Pressure:
    - 2x -1...15bar
    - 1x -1...24bar
  - Mass Flow Rate (Refrigerant, Calculated): 2.5...65g/s
  - Power: 0...1150W

### Power Supply

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase
- 120V, 60Hz, 1 phase
- UL/CSA (optional)

### Dimensions & Weight

- **LxWxH:** 2210x800x1900mm
- **Weight:** ~330kg

### Required for Operation

- Water connection and drain
- PC with Windows recommended