



### Structure and Design

- **Material:** Steel structure mounted on wheels, painted and treated in the oven for durability.
- **Dimensions:** 180 x 80 x 180 mm or 1500 x 750 x 1650 mm depending on the model.
- **Weight:** Approximately 235 kg.

### Power Supply

- **Voltage:** 230 VAC, 50 Hz, single-phase.
- **Power Consumption:** 1500 VA to 4 kW depending on the model.

### Key Components

#### Air Handling Unit

- **Air Circuit:** Includes inlet, return, and bypass ducts; cooling and dehumidification battery; steam humidification battery; and heating battery.
- **Fan:** Axial fan for airflow management.
- **Control Systems:** Proportional control, ON/OFF step control, and dampers for temperature control.

#### Refrigeration Circuit

- **Components:** Hermetic compressor, forced-air condenser, thermostatic expansion valve, and water evaporator.
- **Instrumentation:** High and low pressure gauges, thermometers, hygrometers, and digital multimeters for data acquisition.

#### Water Circuit

- **Components:** Centrifugal pump, on-off valves, and a flow switch.

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



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**Data Acquisition**

- **Interface:** PC control program with USB communication for real-time data monitoring.
- **Sensors:** Measure temperature, humidity, pressure, and flow rates, with digital displays for easy reading.

**Training and Learning Objectives**

- Use of psychrometric charts to study air transformations.
- Assessment of heat balances in air handling units.
- Analysis of temperature and humidity control mechanisms.
- Practical experiments on system supervision and control under varying thermal loads.

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