



# **CLIMATE CHAMBER**

## **TE-4001**

Used for shelf life tests to determine the shelf life of products. To verify how long the product retains its desired sensory, physical, chemical and functional characteristics, under the recommended storage conditions.

## Technical Characteristics

### TE-4001

- Temperature: 20°C to 60°C;
- Temperature controller: digital microprocessed with PID system and RBC calibration certificate;
- Temperature Sensor: PT-100;
- Control accuracy: 0.1 °C;
- Uniformity: ±2.0°C;
- Control stability: + / - 0.5 °C;
- Useful banner tracks: Temperature: 30°C.....humidity: 60% Temperature: 30°C..... humidity: 75% Temperature: 40°C..... humidity: 75% Temperature: 60°C..... humidity: 90%;
- Humidity: 25% to 95%;
- Humidity Controller: digital microprocessed with PID system and RBC calibration certificate;
- Humidity Sensor: Vaisala INTERCAP;
- Control accuracy: 1% UR;
- Control Stability: + / -2% UR;
- Uniformity: ±5% UR;
- Boiler: borosilicate glass, drain, electronic buoy and water shortage protection system;
- Compressor: airtight 1 / 3HP, with CFC-free R-134-a gas;
- Cooling capacity: 2200 BTU / hour at 5°C;
- Internal circulation: forced ventilation;
- Capacity: 07 trays with a distance of 120 mm between them;
- Safety over heating: safety thermostat with automatic shutdown in case of over temperature;
- Inner chamber: polished 304 stainless steel;
- Inner door: tempered glass;
- Door: in carbon steel with external lock, safety key and resistance to prevent condensation;
- Rotation: swivels with locking system;
- Cabinet: in carbon steel with anti-corrosion treatment and electrostatic painting;
- Inner dimensions: width=535 X depth=475 x Height=1000 mm;
- Volume: 250 Liters;
- External dimensions: width = 705 X depth = 850 x Height=1745 mm;
- Weight: 185kg;
- Power: 2800 Watts;
- Voltage: 220v+ / -5% / 60Hz;
- ACCOMPANY: 01 Reverse osmosis, which has the characteristics of retaining the physical, organic, chemical and microbiological concentrations of water, avoiding the concentration of mineral salts inside the boiler of the moisture system - 07 Stainless steel shelves - Instruction Manual with Warranty Term;
- Optional: RS-485 serial communication for software monitoring for temperature and humidity;

## Benefits and Advantages

- Large area for sample accommodation, which provides practicality
- Precise temperature / humidity control
- Internal stainless steel construction, ensuring longer equipment life
- High stability
- Easy asepsis
- Easy installation
- Water treatment (reverse osmosis)
- Quick Control return after opening the door
- CFC-free cooling system
- Thermal insulation that allows for low heat dissipation
- Protection system against: lack of water, freezing, internal overheating and overheating of the boiler resistance
- Inner glass door to see the samples
- Door resistance system against condensation, for easy viewing
- Molded rubber seal with magnet to prevent temperature loss
- External door with key, ensuring safety
- Possibility of RS485 communication outputs (software)
- Easy variable programming
- PID control that ensures stability and accuracy with decimal resolution

- Easy mobility thanks to the wheel system
- Automatic fueling, providing agility
- Strict quality control with which checks and tests guarantee the perfect operation of the equipment, providing safety and customer satisfaction
- Customer service to clarify doubts and provide explanations about the equipment and methodologies
- Possibility of adaptations according to the needs of the customer makes a special line equipment return to the equipment.