



CLIMATE CHAMBER

TE-4004

Climate Chamber with humidity, temperature, and photoperiod control. Used in various research fields, such as entomology, microbiology, plant pathology, plant nutrition, genetic improvement, and others. A versatile and customizable equipment, used for tissue culture, seed germination and storage, and other biological materials, as well as the growth of fungi, algae, and insects, among other applications in the field of science.

Technical Characteristics

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- Temperature range: 15 to 35°C (for other ranges, please check availability);
- Temperature controller reading accuracy: $\pm 0.1^{\circ}\text{C}$;
- Temperature uniformity: $\pm 3^{\circ}\text{C}$;
- Humidity range: 60% to 85% (for other ranges, please check availability);
- Humidity sensor reading accuracy: $\pm 1\%$;
- Humidity uniformity: $\pm 10\%$;
- Lighting range: 0 or 100% for metal halide and fluorescent lighting, or dimmable for LED lighting;
- Lighting types: Metal halide lamp / LED / Fluorescent;
- Intensity: According to the culture to be incubated;
- Photoperiod: ON-OFF switching;
- Circulation type: Forced air;
- Airflow: 500 m³/h at 0 Pa;
- Water supply / material: Automatic via reverse osmosis (R-TE 4008);
- Safety: Alarm systems with overheating protection;
- Data acquisition system: USB output;
- Total power: 4000 W;
- Power supply: Three-phase 220 VAC;

Benefits and Advantages

- Equipment customizable according to the needs and available space in the customer's laboratory
- Eliminates interference caused by environmental factors and/or contamination sources, increasing the accuracy of experiments and eliminating sources of error
- Simulates specific environmental conditions according to research needs
- Large area for sample accommodation, optimizing test performance
- Sensor adapted to extreme conditions
- Precise temperature and humidity control
- Strict quality control, with checks and tests ensuring the equipment's proper operation, providing customer safety and satisfaction
- Customer service to answer questions and provide explanations about the equipment and methodology.