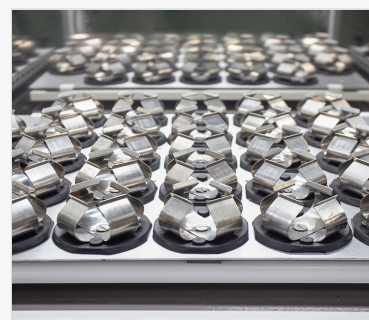




# ***SHAKER INCUBATOR***

## ***TE-424/1***

Used for incubation of samples requiring orbital shaking, temperature control, illumination, and photoperiod management, such as culture media for microorganism growth and biochemical analysis.

## Technical Characteristics

### TE-424/1

- Temperature range: 15°C to 50°C;
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- Temperature controller: Through 4.3" touch screen HMI, digital microprocessed with PID system ;
- Control accuracy:  $\pm 0.2^{\circ}\text{C}$  ;
- Homogeneity:  $\pm 1^{\circ}\text{C}$ ;
- Shaking range: Orbital from 30 to 220 RPM ;
- Shaking control: Through 4.3" touch screen HMI;
- Shaking motor: 0.16 HP induction motor;
- Compressor: Hermetic 1/5HP, with CFC-free 134-A gas ;
- Circulation: Forced air ventilation ;
- Safety: Automatic shaking shutdown when opening the door ;
- Lighting: ON-OFF through photoperiod;
- Photoperiod control: Through 4.3" touch screen HMI;
- Lighting type: 12W 6500K LED lamp;
- Number of lamps/LEDs: 4 LED lamps located at the top of the internal chamber;
- Photoperiod: ON-OFF activation through HMI programming;
- Timer: Shaking time control through 4.3" touch screen HMI;
- Time scale: HH:MM;
- Door: Double glass door with gas filling for thermal insulation ;
- Internal chamber: Fully stainless steel with lighting;
- Maximum lighting intensity: 5000 Lux at 250mm;
- Cabinet: Carbon steel with anti-corrosion treatment and electrostatic painting ;
- Internal dimensions: W=650 x D=460 x H=440 (mm);
- External dimensions: W=915 x D=620 x H=810 (mm) ;
- Weight: 175Kg ;
- Power: 1200W ;
- Voltage: 220V  $\pm 5\%$  60Hz;
- Includes one platform to choose from: 31 clamps for 125 ml Erlenmeyer flasks or 20 clamps for 250 ml Erlenmeyer flasks or 13 clamps for 500 ml Erlenmeyer flasks or 06 clamps for 1000 ml Erlenmeyer flasks or 02 clamps for 3000 ml Erlenmeyer flasks;
- Note: This model can be stacked with one additional TE 424/1 machine. When stacked, the machine reduces the maximum speed to 150RPM.;

## Benefits and Advantages

- Stackable with another unit of the same model, allowing increased capacity without expanding laboratory space
- Suitable for studies requiring light intensity and photoperiod control, such as microalgae cultivation, photosensitive cultures, and biological assays requiring light exposure
- Microprocessor controller with PID system and RBC certification, providing greater thermal stability and reduced variation during testing
- PT-100 temperature sensor with high sensitivity and reading accuracy
- Temperature uniformity contributing to improved repeatability of results
- Flexibility for different sample volumes and tray configurations
- Double-glazed glass door that minimizes heat loss and allows sample observation without interfering with the process
- Forced air circulation system that improves temperature distribution inside the chamber
- Internal lighting system allowing visual monitoring of samples during testing
- Programmable photoperiod control enabling simulation of light and dark cycles
- Integrated timer for precise shaking time control
- Test programming without the need for constant operator intervention
- Automatic shaking shutdown when opening the door, increasing operational safety
- Touch-sensitive interface for easier operation and parameter adjustment
- Strict Quality Control, with inspections and testing ensuring optimal equipment performance, delivering safety and customer satisfaction
- Customer support available to answer questions and provide guidance regarding equipment operation and methodologies.