



THERMOSTATIC BATH

TE-184/1

Used to promote controlled refrigeration in liquids with constant agitation, ensuring precision in temperatures, in addition to optimizing condensation in some equipment, cooling condensers of the Soxhlet, Goldfish types, rotary evaporators, reactors and refractometers and promoting closed water circulation systems.

Technical Characteristics

TE-184/1

- Working temperature: from -10°C to 85°C;
- Temperature controller: microprocessor-based digital with PID system;
- Temperature sensor: PT-100;
- Control accuracy: $\pm 0.1^{\circ}\text{C}$;
- Uniformity: $\pm 0.3^{\circ}\text{C}$;
- Compressor: Hermetic 1/3 HP, with CFC-free R-134-a ga;
- Cooling capacity: 2700 BTU/ha 0°C;
- Circulation pump: Internal and external with tbhx-br 100w bronze pump;
- Maximum flow capacity: 45 l/min;
- Maximum pressure: 6.5mca (pressure);
- Flow x pressure reference: 25l/min at 3.5mca;
- Tray and Bowl: In stainless steel 304;
- Cabinet: 304 stainless steel with electrostatic painting;
- Bowl dimensions: W=240 x D=240 x H=200 mm;
- Useful volume: 8 liters;
- Dimensions: W=510 x D=610 x H=460 mm;
- Weight: 30 kg;
- Power: 2100 W;
- Voltage: 220v \pm 5%/60Hz;
- Accompanies: - 01 resistance protective tray: internal gallery of the bowl - 01 stainless steel bowl lid, drip tray type - Instruction manual with warranty term;
- Note: For controller RBC certification, the client must purchase the part at an additional cost;
- Insulation of the thermostated vuba: In an elastomeric blanket;

Benefits and Advantages

- Clean design (no screws)
- Microprocessed digital control with PID system and RBC calibration certificate, which provides more precise control, with the final temperature being reached in a faster and more homogeneous way
- PT-100 sensor, the most accurate
- Tank insulation performed with an elastomeric blanket, which has a longer useful life and provides an increase in the equipment's thermal efficiency
- Internal and external cabinet in stainless steel 304, providing greater durability
- It has 1/3 HP hermetic compressor, with R-134-A gas, free of CFC
- Presence of standard electrical panel
- Easy maintenance
- Possibility of internal thermostating in the gallery or external to other equipment, that is, the samples can be placed in the gallery inside the bowl or the equipment can be used together with other equipment, providing practicality
- It has a specific button to turn the refrigeration on and off, which saves energy and increases the life of the compressor
- Definition of gallery types according to the needs of each client
- Provides less waste of water in processes where they are used as closed systems for cooling condensers, generating savings and greater process efficiency
- Recording at the pump pressure output that always leaves it flooded, avoiding cavitation due to air inlet in the pressure line and saves water and solutions used in the bowl, since it traps the same when there is an exchange of equipment to be cooled.