



# SYSTEM FOR DETERMINING FAT

## TE-045/5

Used in the hot solvent extraction of fatty residues, lipids and fats, and can be used in the areas: environmental, food, beverages, concentrates, biofuels and water and effluents.

## Technical Characteristics

### TE-045/5

- Temperature: Ambient +7°C to 200°C;
- Temperature control: Digital microprocessor with PID system;
- HMI: 4.3 touch screen;
- Alarm system: Against overheating through programming via HMI;
- Sensor: Type J;
- Control accuracy:  $\pm 1^{\circ}\text{C}$ ;
- Uniformity:  $\pm 3^{\circ}\text{C}$ ;
- Extraction/recovery system: Extractor/recuperator coupled with a serpentine condenser, made of borosilicate glass, immersion rod for moving the basket with sample, teflon locking system for solvent recovery and acrylic protection against air circulation in the extractor;
- Safety: Armored resistance avoiding contact with solvents;
- Cabinet: 304 stainless steel;
- Dimensions: W = 470 x D = 215 x H = 900 mm;
- Weight: 20 kg;
- Power: 1400 Watts;
- Voltage: 220 Volts Optional: - RBC Certificate of calibration - Ramps and landings system;
- ACCOMPANIES: - 05 Reboiler in borosilicate glass of 190ml - 05 Teflonized 304 stainless steel basket - Instruction Manual with Warranty Term;

### Benefits and Advantages

- Compact equipment
- User-friendly touch screen display
- It has date and time on the display
- It has a microprocessor temperature control (PID), which causes less temperature variations and therefore avoids sample degradation
- High efficiency in solvent recovery. Usually 90% recovery can be achieved and with a thermostated bath (where we suggest the use of a TE-2005 or TE-184), practically 99% of the solvent
- Faster extraction, increasing efficiency and decreasing analysis time
- It has shielded resistances in the equipment itself, preventing solvent contact with the heating system, preventing accidents in the laboratory
- Water distribution system evenly between the glassworks, providing a more homogeneous refrigeration and greater efficiency in the solvent recovery process
- Fully stainless steel cabinet, considerably increasing the useful life of the equipment.