



# SYSTEM FOR DETERMINING FAT

## TE-044-5/50

Used in the extraction of fat and lipids, using a hot solvent, following the Goldfish method.

## Technical Characteristics

### TE-044-5/50

- Temperature: Ambient + 7 ° C to 200 ° C;
- Temperature control: Microprocessed digital with PID system and RBC calibration certificate;
- Sensor: Type "J";
- Control accuracy:  $\pm 1$  ° C;
- Uniformity:  $\pm 3$  ° C;
- Extraction / recovery system: Extractor / recuperator coupled with serpentine-type condenser, made of borosilicate glass, immersion rod for handling the sample basket, teflon latch 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;
- Include: - 02 extra fuses - 05 Reboiler in 190ml borosilicate glass - 05 Teflon-coated 304 stainless steel basket - Instruction Manual with Warranty Term ;

## Benefits and Advantages

- Compact equipment
- It has a microprocessed temperature control (PID), which causes less variations in temperature and less interference in the process, providing greater efficiency
- High efficiency in solvent recovery. Normally, 90% recovery can be achieved with a thermostatic bath (where we suggest using a TE-2005 or TE-184 bath)
- Faster extraction when compared to the Soxhlet method, increasing efficiency and decreasing time analysis
- It has shielded resistances in the equipment itself, avoiding the contact of the solvent with the heating, avoiding accidents in the laboratory
- Water distribution system evenly between the glassworks, providing more cooling homogeneous and greater efficiency of the solvent recovery process
- Cabinet completely made of 304 stainless steel, considerably increasing the service life of the equipment
- Acrylic protection both for the analyst's safety and to prevent drafts from interfering with the environment in the process
- Teflonized samples basket and sticks, avoiding attacks by the solvents used
- Straight-faced aluminum block for flat-bottomed trailer that provides even heat distribution homogeneous in the reboiler
- Compatible with electrical protection system DR (Residual Differential), providing security
- More energy-efficient (1400 Watts of power on the TE-044-5 / 50 and 1700 Watts on the TE-044-8 / 50) compared to a Soxhlet TE-188 system (2400 Watts of power), saving electricity
- Strict Quality Control, in which checks and tests guarantee the perfect functioning of the equipment, providing security and customer satisfaction
- Customer service, to answer questions and provide explanations about the equipment and methodologies
- Possibility of adaptations according to the customer's needs, makes the equipment already in line a special equipment.

## Related Products