



# ***SYSTEM FOR DETERMINATION OF PROTEIN / NITROGEN BY TE-008/50-SE***

Used for nitrogen determination in the most diverse types of samples, such as plants, foods, beverages, rubbers, effluents, among others, for subsequent nitrogen/protein analysis.

## Technical Characteristics

### TE-008/50-SE

- Temperature: ambient + 7°C to 450°C;
- Temperature controller: Digital microprocessed with PID system and RBC calibration certificate;
- Sensor: Type 'J';
- Accuracy:  $\pm 2^{\circ}\text{C}$ ;
- Uniformity:  $\pm 5^{\circ}\text{C}$ ;
- Safety: Shielded resistance avoiding contact with sulfuric acid;
- Block: in Cast Aluminum with hole depth of 85mm;
- Cabinet: 304 stainless steel;
- Dimensions: L = 600 x d=150 x H=360 mm;
- Weight: 18kg;
- Power: 1700 Watts;
- Voltage: 220 Volts;
- ACCOMPANY: - 01 Stainless steel Gallery - 01 Digital temperature controller - 08 360 mL borosilicate glass macro tube ( $\varnothing 50 \times 250$  mm) with thread already adapted for use with the exhaust gallery; - Instruction Manual with Warranty Term;
- Application: used to digest the most diverse types of samples, such as plants, foods, beverages, rubbers, effluents, among others, for subsequent nitrogen/protein analysis.;
- EXHAUST GALLERY WITH CAPACITY FOR 08 MACRO TESTS MODEL TE-008/50-GE FOR WORK WITH THE SCRUBBER TE-152 COMPOSED OF \*;
- Capacity: 8 macro tubes  $\varnothing 50 \times 250$  mm divided into 1 borosilicate glass manifold;
- Header: Borosilicate glass for suction with flange;
- Sealing rings: Teflonized for threaded pipes;
- Structure: 304 stainless steel;
- Dimensions: L = 680 X D=155 x H=435 mm ;
- Weight: 3.8 kg;
- ACCOMPANY: - Instruction Manual with Warranty Term;
- Application: used for exhaust and suction of gases for micro tubes in acid digestion process with digester block;
- NITROGEN DISTILLER BRAND TECNAL, MODEL TE-0364 \*;
- Temperature control: analog;
- Weight: 10kg;
- Power: 1500 Watts;
- Voltage: 220 Volts;
- ACCOMPANY: - 01 Micro tube  $\varnothing 25 \times 250$  mm with borosilicate glass rim - 02 Extra fuses - Instruction Manual with Warranty Term;
- Application: equipment used for ammonia nitrogen distillation, total volatile bases (BVT) and nitrogen/protein analysis by Kjeldahl method after digestion process;
- SCRUBBER BRAND TECNAL, MODEL TE-152 \*;
- Vacuum points: 2 independent PVC vacuum tubes;
- Vacuum: 700 mmHg;
- Pressure: 70 meters water column;
- Pump capacity: 45 liters / min;
- Water circulation: internal via electric pump;
- \* Lid and vat dye stainless steel;
- Cabinet: Fully stainless steel;
- Vat dyes dimensions: L = 150 x d=330 x H=150 mm;
- Volume: 6 liters;
- External dimensions: L = 255 x d=465 x H=440 mm;
- Weight: 17.3 kg;
- Power: 750 Watts;
- Voltage: 220 Volts;
- ACCOMPANY: - 01 Neutralizing Bottle - 02 Extra fuses - Instruction Manual with Warranty Term;
- \* \* \* NOTE: SCRUBBER IS NOT INDICATED FOR NITRO-PERCHLORIC DIGESTION;



## Benefits and Advantages

- Digester block with armored resistance that prevents degradation or accidents because there is no contact with solvents used in digestion
- Control box separated from the digester block, and can be left outside the chapel, causing longer service life to the equipment because it is more protected from acidic gases and vapors
- The digester block accompanies the shape of the tube base, avoiding breaks
- Exhaust gallery with fixing ring, the joints and the outlet connection in teflon, which is an inert material and resistant to acid gases, which ensures resistance
- Exhaust manifold made of 304 stainless steel that provides high resistance
- Presence of Bakelite handles in the galleries, material that supports high temperatures, ensuring longer service life to the equipment
- Gas neutralizer with 304 stainless steel vat dyes that provides high strength and also easy asepsis
- Gas neutralizer features high performance suction pump
- Gas neutralizer with automatic water exchange system that maintains the optimum water temperature of the dissolving vat dyes
- Comes with neutralizing bottle in borosilicate glass, material resistant to heat and chemical elements
- Nitrogen distiller has LED indication of heating and boiler water level, greatly increasing the safety levels of the equipment use
- Nitrogen distiller with built-in borosilicate glass boiler with semi-automatic filling and internal installation for added safety
- Nitrogen distiller contains separate boiler and condenser water intakes, there is the possibility of using thermostatic bath for cooling the condensers, providing water saving
- Nitrogen distiller has an acrylic protector on the front of the equipment, also improving the safety of the analyst
- Strict quality control, in which checks and tests ensure the perfect operation of the equipment, providing safety and customer satisfaction
- Customer service, to answer questions and provide explanations about the equipment and methodologies
- Possibility of adaptations according to the needs of the customer, makes the line equipment a special equipment.