



# ***SYSTEM FOR DET. OF PROTEIN/ NITROGEN***

## ***TE-040/25-SE***

Used for nitrogen determination in many different types of samples such as plants food rubber among others for subsequent nitrogen/protein analysis.

## Technical Characteristics

### TE-040/25-SE

- Digester block TE-040/25: Temperature: Ambient +7°C to 450°C; Temperature Controller: Digital microprocessor with PID system and RBC calibration certificate; Sensor: 'J' type; Accuracy:  $\pm 1^\circ\text{C}$ ; Uniformity:  $\pm 3^\circ\text{C}$ ; Safety: Shielded resistance avoiding contact with sulfuric acid; Block: In cast aluminum with 45 mm hole depth; Cabinet: In 304 stainless steel; Dimensions: W=320 x D=430 x H=330 mm; Weight: 18 kg; Power: 2200 Watts; Voltage: 220 Volts; Accompanying: - 01 Gallery in aluminum; - 01 Microprocessed digital temperature controller; - 40 Micro tube in borosilicate glass of 100 ml Ø25 x 250 mm; - Instruction manual with guarantee term;
- Exhaust Gallery TE-040/25-GE: Capacity: 40 micro tubes Ø 25 x 250 mm divided into 5 borosilicate glass manifolds; Head: Borosilicate glass for aspiration with Teflon flange; Valves: In teflon for selection of manifolds; Structure: In 304 stainless steel; Dimensions: W=285 x D=355 x H=175 mm; Weight: 2 kg; Comes with: Instruction manual with warranty term;
- Nitrogen distiller TE-0364: Temperature control: Analog; Control panel: With visual indicators for heating and boiler level; Boiler: Built-in borosilicate glass with semi-automatic filling; Sensor: For indication of boiler level; Safety: Acrylic protector on the front; Glassware: Kjeldahl type connection with measuring cup and Stop-flow valve in borosilicate glass; Distillation capacity:  $\pm 18$  ml/minute; Cabinet: 304 stainless steel; Dimensions: W=290 x D=330 x H=730 mm; Weight: 10 kg; Power: 1500 Watts; Voltage: 220 Volts; Accompanying: 01 Micro tube of Ø25 x 250 mm with borosilicate glass rim; 02 extra fuses; Instruction manual with guarantee term;
- Scrubber TE-152: Vacuum points: 2 independent PVC vacuum tubes; Vacuum: 700 mmHg; Pressure: 70 meters of water column; Pump capacity: 45 liters/min; Water circulation: Internal through electric pump; Lid and vat: Stainless steel; Cabinet: Totally in stainless steel; Tank dimensions: W=150 x D=330 x H=150 mm; Volume: 6 liters; External dimensions: W=255 x D=465 x H=440 mm; Weight: 17.3 kg; Power: 750 Watts; Voltage: 220 Volts; Comes with: 01 Neutralizer bottle; 02 extra fuses; Instruction manual with guarantee term;

## Benefits and Advantages

- Digester block with shielded resistance that prevents degradation or accidents because there is no contact with solvents used in the digestion
- Control box separated from the digester block which can be left outside the chapel providing longer useful life to the equipment because it is more protected from acid gases and vapors
- The digester block follows the shape of the base of the tube preventing breakage
- Exhaust gallery with fixing ring the joints and the teflon outlet connection which is an inert and resistant material to acid gases which ensures resistance
- Exhaust gallery made of 304 stainless steel which provides high resistance
- Bakelite handles in the galleries material that supports high temperatures ensuring longer equipment life
- Gas neutralizer with a 304 stainless steel vat that provides high resistance and also easy asepsis
- Gas neutralizer with high performance suction pump
- Gas neutralizer with automatic water exchange system that maintains the ideal water temperature in the dissolution vat
- Comes with a neutralizing bottle made of borosilicate glass material resistant to heat and chemical elements
- The nitrogen distiller has LED indicators for heating and boiler water level greatly increasing the equipment's safety levels
- Nitrogen distiller with built-in borosilicate glass boiler with semi-automatic filling and internal installation for greater safety
- Nitrogen distiller has separate water inlets for the boiler and condenser there is the possibility to use a thermostated bath for cooling the condensers providing water saving
- Nitrogen distiller has an acrylic protector on the front of the equipment also improving the analyst's safety
- Rigid Quality Control in which verifications and tests guarantee the perfect functioning of the equipment providing safety and satisfaction to the customer
- Customer service to answer questions and provide explanations about the equipment and methodologies
- Possibility of adaptations according to the client's needs making the equipment already on the line a special equipment.