



# SAMPLE CONCENTRATOR

## TE-0195/1

Equipment used to concentrate samples that have solvent residues from the liquid-liquid or solid-liquid extraction process, through a gas injection system (nitrogen or compressed air), which promotes faster evaporation than conventional methods. This step becomes important for the evaluation of samples using more advanced techniques, such as liquid chromatography and elemental spectrometry, as it improves their detection limit.

## Technical Characteristics

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- Temperature range: Ambient +7°C to 70°C;
- Temperature controller: Digital microprocessor with PID system;
- Temperature sensor: PT-100;
- Control accuracy:  $\pm 1^\circ\text{C}$ ;
- Uniformity:  $\pm 2^\circ\text{C}$ ;
- Timer: Digital - programmable up to 99.59 minutes. Air flow ceases at the end of the programmed time.;
- Ambient operating temperature conditions: 5°C to 40°C;
- Ambient operating humidity conditions: 80%RH maximum non-condensing;
- Capacity: 1 gallery with 6 tubes;
- Injection system: With 6 teflon inclined needles in stainless steel, divided into 3 lines with 2 outputs driven by solenoid valves;
- Flow regulator: Manual valve with pressure gauge from 0 to 2.5 bar;
- Safety for gas leakage: Exhaust system built into the equipment;
- Thermostat tank: 304 stainless steel;
- Homogenization of the thermotizing vessel: By magnetic stirring;
- Cabinet: 304 stainless steel with anti-corrosive treatment and electrostatic painting;
- Bowl dimensions: H=190mm x W=270mm x D=150mm;
- Bowl volume: 7.5L;
- External Dimensions: H=405 mm x W=510 mm x D=375 mm;
- Weight: 35kg;
- Power: 800W;
- Supply voltage: 220VAC $\pm 5\%$  50/60Hz;
- This product comes with the items: 01 Gallery of 06 tests for tube  $\varnothing 50 \times 150\text{mm}$  - 01 Exhaust hose - 01 Silicone hose n°204 + Teflon hose for gas inlet - 02 extra fuses - 06 tubes of 200ml in borosilicate glass - 01 Needle for cleaning stainless steel nozzles - 01 magnetic bar Note: it is not possible to use different tubes in the same gallery in the same analysis \* Compatible with DR protection devices \* For RBC certification of the controller, the customer must purchase the part at an additional cost. ;

## Benefits and Advantages

- It has a high-precision digital microprocessor temperature control (PID), which causes fewer variations to occur, maintaining a more homogeneous temperature in the tubes and therefore avoids the degradation of the samples that will be evaluated
- Digital timer, programmable up to 99:59 minutes, the airflow stops at the end of the time programmed, providing savings and greater security for the analyst
- Optional galleries capability
- Agitation system in the vat which guarantees the homogenization of the water temperature
- Injection system with 2 needles inclined at 45 degrees in Teflon (inert material and resistant to high temperatures), divided into 3 lines with 2 outputs activated by solenoid valves
- Tangential air inlet system, allows the injected gas to reach the entire length of the tube, promoting a complete drying of the material to be worked
- Structure in stainless steel 304 with anti-corrosion treatment and electrostatic painting, increasing the useful life of the equipment
- Cuba and gallery in stainless steel 304
- Individual activation valve
- Flow/pressure adjustment manometer. Manual valve with pressure gauge from 0 to 2.5 bar
- Comes with silicone caps to seal needles, avoiding waste of used gas
- Armored resistance compatible with residual circuit breaker
- PT-100 sensor, the most accurate
- Individual control of each of the 3 lines and also by injector (using individual caps)
- Easily programmable
- Retractable and perforated gallery that facilitates the exit of water when removed
- Sample viewer on the lid
- Hinged lid for easy and safe access to samples

- Interchangeable power cable connector, allowing cable exchange
- Fast entry push-in
- Built-in exhaust system, provides security
- Compact and portable, saves space where it is used
- Easy installation
- Promotes a more efficient and exact concentration than conventional methods
- Rigid quality control, in which checks and tests guarantee the perfect functioning 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 customer's needs, makes the equipment already in line a special equipment.