

COOKING - CONCENTRATION



Experimental capabilities

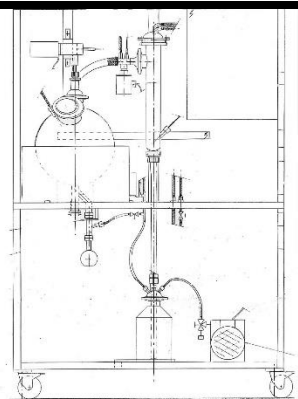
- Identification of the components of a concentration and cooking unit
- Cooking or concentration of fruit juices, vegetables, jams, etc ...
- Work under vacuum or atmospheric pressure
- Thermal balance of the installation

Operating principle

The GPACC1 bench allows the study of the cooking - concentration.
Fruits are cut into pieces and then added to the flask. Water is added and we heat by doing the vacuum in the flask.

The robust design of this equipment makes it perfectly suited for school use.
Its anodized aluminum structure on wheels makes it very robust as well as great flexibility of integration into your premises.
The manufacture of this equipment meets the European machine directive.

Technical details



The bench is installed on an aluminium profile structure equipped with four directional brake casters.
It has an electrical box with general power disconnecter and 30mA differential circuit breaker.

- 1. Round bottom flask**
 - Material: borosilicate glass
 - Total volume: around 20 L
 - Useful volume: around 10 L
 - DN100 mm quick opening for product charging
 - Valve for taking samples in a balloon
- 2. flask heater**
 - electrical heating
 - integrated controller

- 3. Condenser**
 - Borosilicate glass shell
 - stainless steel heat exchanger
 - Water cooling
- 4. Vacuum pump**
 - membrane pump
 - Distillate recovery flask
- 5. Stirrer**
 - Adjustable rotational speed
 - stirring blade with scraper

Instrumentation:

All measurements are displayed on a 7' colour touch screen.
- 7 temperature probes: product, steam product, steam condenser inlet, condenser outlet liquid, distillate, cooling water inlet, cooling water outlet
- Cooling water flow
- Pressure sensor 0-2 bar absolute on condenser input

Services required

- Electrical supply: 230 V - 50 Hz - 20 A
- Electrical supply type: 1-Phase + Neutral + Earth.
- Dimensions (LxWxH mm): 1200 x 600 x 1780

Weight (Kg): 130

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Technical documentation of the components
- Lab exercises
- Wiring diagram
- Fluidic diagram
- Certificate of conformity CE