

## PASTEURIZER 100 L/h



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### Experimental capabilities

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- Discovery of a three stages pasteurization installation
- Calculation of thermal balances on the exchangers
- Influence of the parameters on product quality

## Operating principle

The bench GPA PA0 allows the study of three stages pasteurization. The liquid to be treated (fruit juice, milk...) is sent into the tubular exchanger using a pump. In the exchanger circulate heating water against the current what will heat up the liquid to be pasteurized by thermal transfer.

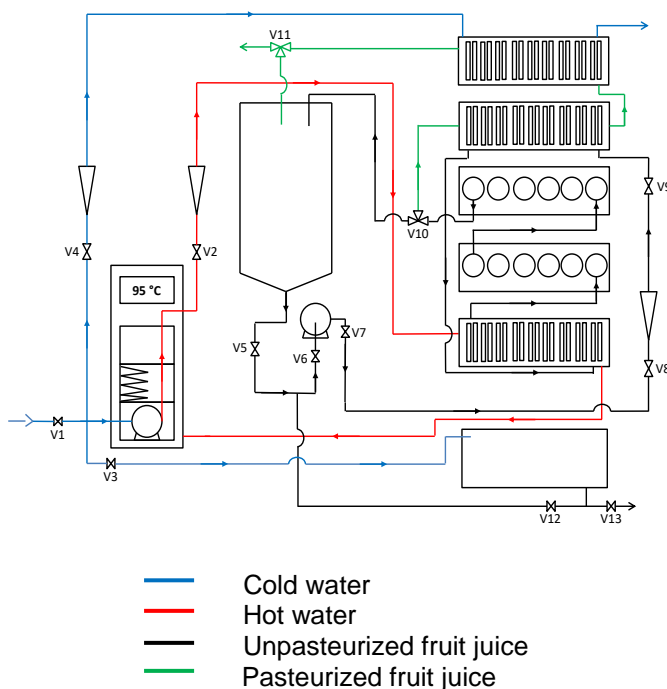
At the exchanger exit, the juice leaves pasteurized

The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.

The manufacture of this equipment complies with the European standard for machinery manufacturing.

## Illustrations



## Technical details

1. Thermoregulator (heat transfer fluid)
  - Heating power= 9kw
2. Centrifugal pump
  - Stainless steel 316L
  - Q= 100l/h
3. Supply tank
  - Stainless steel 316L
  - Volume: 240l
  - Low level sensor
  - Unpasteurized juice recycling system
4. Tubular pasteurization exchanger
  - Stainless steel 316L
  - Preheating
  - Heating
  - Cooling
5. Heat treatment circuit insulated
  - Heat treatment duration:30''
6. Rinsing tank
  - Stainless steel 316L
  - Volume: 30l
7. Cold system (cooling exchanger)
  - Mixer valve with regulator
  - Circulator for the cold water circuit
  - insulated circuit valve
  - buffer tank cold water 50l
8. Temperature measurement by thermocouple
  - Inlet/outlet heating system (at the heat transfer fluid)
  - Inlet/outlet of the exchanger(

## Services required

- Electrical supply : XXX Vac – 50 Hz – XX A
- Electrical network : X phase(s) + Neutral + Earth.
- Water supply : XX L/min – XX bars
- Compressed air supply: 6-8 bars (dry air)
- Water drain : on the floor

## Documentation

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Configuration files (PLC, controller)

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 As part of the continuous improvement of our products, this technical specification may be modified without previous notifying

# GPAPA0



- Smoke exhaust: diameter XXX mm
- Fuel supply : natural gas, propane gas, diesel fuel,
- Water tank volume: XX L
- Fuel tank volume: XX L
- Other volume: XX L
- Dimensions: (LxWxH mm): LONGUEUR x LARGEUR x HAUTEUR
- weight (Kg): POIDS\_MACHINE
- Software :
- Certificate of conformity CE

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

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## Options

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- Exemple : Kit outillage de maintenance
- Ref : AAAYYY

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## Recommended equipment

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- Exemple : Module d'utilité
- Ref : UTL 050