

FERMENTER - STERILIZER



Non contractual photo

SERVICE: POWER SUPPLY: 11 KW / 380 V THREE-PHASE / 50 HZ DIMENSIONS:

ENSEM

DIMENSIONS: 1600 X 500 X 1800

REFERENCE: MP320

- "Biological" construction, clamp fittings, 316L stainless steel
- Stainless steel tank with viewing porthole
- Sterilizable in situ
- Operates with a 140 ° C (MP320A) boosted water heater or with a steam generator (MP320B)
- Magnetic stirrer (without wall penetration)

Technical specifications:

- Stainless steel cylindrical tank with a diameter of 250 mm inside (200 mm), 340 mm high (300 mm), with double and triple jacket on the shell
- Minimum working capacity: 3 liters (or 1.5 L)
- Maximum working capacity: 10 liters (resp. 5 L)
- A Pt100? temperature sensor, mounted on a clamp
- · A sample taking.

Bottom bottom: It is made of stainless steel and supports the stirring system. It is equipped with a drain valve. The bottom plate allows magnetic coupling between the motor and the shaker shaft.

Condenser: Condenser with stainless steel inner coil, removable.

Air injection circuit: It consists of a pressure reducer - regulator, a pressure gauge, a float gas flowmeter, an autoclave filter.

Lid: This is bolted to the ferrule and can be removed occasionally.

He understands:

- An air inlet with a dip tube and an annular diffuser delivering air bubbles directed towards the stirring turbine for good dispersion.
- A nozzle for the air outlet. This outlet is equipped with a sterilizable filter in place and a condenser
- A valve calibrated at 2.8 bar and an electronic pressure gauge
- An inoculation tube for injecting the culture medium
- A guilting allowing the introduction of acid and base
- · A quilting for injecting the antifoam

Tank: it is equipped with 3 connections are provided for implantation of pH, oxygen or Red-Ox probes. and CO2 depending on the options chosen.

Additional equipment:

- From 1 to 4 peristaltic pumps (depending on options), silicone fittings and tubing
- 1 filter for compressed air
- 1 condenser outlet filter
- 1 removable condenser (water circuit with turns)
- 1 gas flow meter with needle valve.

Electrical cabinet: Made of stainless steel, it includes the

following elements: • Regulator with timer for sterilization time management • Two temperature controllers for temperature management during fermentation (cascade control) • An oxygen transmitter / regulator (option) • PH transmitter / regulator (option) • Red-Ox transmitter / controller (option) • Co2 transmitter / controller (option) • The control, protection and timer of the antifoam pump • The electronic speed controller of the agitator • Compressor control and protection • The control and protection of the acid pump, base, pump inoculum, anti-foam pump with programmer (optional) • Emergency stop • Power LED • The lockable disconnector Agitator and compressor are controlled by Oxygen or RedOx measurement (depending on options)