# Autoclaves for sterilization “Presoclave PLUS” 50, 80 and 150 litres.

**MICROPROCESSOR TEMPERATURE AND CYCLE CONTROL AND ATMOSPHERIC PURGE.**
**ELECTRONIC CONTROL OF TIME AND TEMPERATURE RANGE FROM 115 °C TO 134 °C. (0.62 TO 2 bar). MAXIMUM PRESSURE: 2.5 BAR CONFORMS TO APPARATUS PRESSURE REGULATION DIRECTIVES.**
**PROCESS REGISTRATION AND DOWNLOAD VIA USB. VERTICAL MODEL: 50, 80 AND 150 LITRES.**
**EXTERNAL PROBE. DISPLAY OF THE PROBE TEMPERATURE AT THE TOP OF THE SCREEN.**

**SAFETY:**

| | |
|---|---|
| SAFETY OVER PRESSURE VALVE: | PREVENTS OVER PRESSURE ABOVE THE MAXIMUM SET LIMIT. |
| SAFETY PRESSURE SWITCH: | DISCONNECTS POWER TO THE HEATER IF THE UNIT EXCEEDS THE MAXIMUM PRESSURE LIMIT. |
| SAFETY THERMOSTAT AND WATER LEVEL: | DISCONNECT POWER TO THE HEATER IF INSUFFICIENT WATER OR OVER TEMPERATURE. |
| SAFETY LID: | PREVENTS THE LID BEING OPENED IF THE CHAMBER IS UNDER PRESSURE. |
| SAFETY INSULATION: | THERMALLY INSULATED LID . |

## *An economic semi-automatic alternative*




### FEATURES

**Tank and lid in stainless steel (AISI 316L).**
INCOLOY stainless steel heater elements, hard waring, resistant to corrosion and high temperatures.
**Process registration and download via usb.**
External lateral probe port (only models 50 and 80 litres).
Sterilization chamber and door made from stainless steel.
Automatic purge to atmosphere.
10 programs configurable by the user.

### CONTROL PANEL




1. TFT touch screen with virtual push buttons.
2. Pressure gauge.
3. Push button open lid.

| MODELS | Part No. | Capacity litres | Ø Height (usables cm) | Height / Width / Depth (exterior cm) | Power W | Weight Kg |
|---|---|---|---|---|---|---|
| PRESOCLAVE III 50 | 4001770 | 50 | 30 70 | 117 48 62 | 3600 | 75 |
| PRESOCLAVE III 80 | 4001771 | 80 | 40 62 | 119 58 72 | 3600 | 100 |
| PRESOCLAVE III 150 | *4001772 | 150 | 50 70 | 118 80 95 | 7500 | 225 |

Does not include baskets and drums, order separately. Part No. 4001772 due to its consumption is manufactured for three-phase current at 230 V or 400 V to be specified.




### BACK VIEW:

1. Safety valve.
2. Mains power.
3. Safety thermostat
4. Steam empty valve and Drain selector valve.
5. USB connector.

**ACCESSORIES:** AISI 304 Stainless steel **wire baskets** and **drums.**
For **Presoclave III 50 Plus**, Part. no: 4001770.
Capacity, 3 baskets Ø 25 and 20 cm. height. Part No. 1000495
For **Presoclave III 80 Plus**, Part. no: 4001771.
Capacity, 2 baskets Ø 36 and 28 cm. height. Part No. 1000496
For **Presoclave III 150 Plus**, Part. no: 4001772.
Capacity, 3 baskets Ø 44 and 22 cm height. Part No. 1000780
Sterilization **drum** made from AISI 304 stainless steel.
For **Presoclave III 50 Plus**, Part. no: 4001770.
Capacity, 3 drum Ø 25 and 18 cm. height. Part No. 1002418
For **Presoclave III 80 Plus**, Part. no: 4001771.
Capacity, 2 drum Ø 35 and 27 cm. height. Part No. 1002419
**Detergent Bio-Sel.**
**Water distillation** unit especially for autoclaves.
**Purge microfilter.** Part No. 4001221
**Loading and unloading crane.** Part No. 1002426 (see page 64).

**COMPLEMENTS** That needs to be factory installed:
**Pt100** second sensor only temperature reader. Part No. 4001219 (see page 64).
**Printer:** Code 4002417. Must be installed at the factory.

## PLC FUNCTIONS

The microprocessor controls the performing of the air extraction process, sterilizing and drying, executing the selected procedures and commands by the user, adjusting the following parameters:

- Sterilization temperature from 105°C up to 134°C.
- Sterilization time from 3' to 59'.
- Drying time from 20' to 60'.
- Up to 10 user-configurable programs.
- Six operating modes:
- Solid 1 - Solid 2 fractions. - Solid 3 fractions
- Drying - Liquids - Liquids 2 probes
- Verification test
- Vacuum - Bowie Dick.
- Settings:
- Units – languages (Spanish, English, French).
- Printer module On/Off. - Clock: date/time.
- External water: on/off.
- Password for configuration.
- Calibration (adjustment offset)
- Temperature probe 1 - Temperature probe 2
- Water dosing. - Pressure
- Audible and visual alarm for overtemperature and insufficient temperature.
- Network failures detection and memorization
- Safety therrmostat by software
- Sterilization cycles data logging with capacity for over 500 cycles.
- Internal cleaning program
- Graphical representation of real time process

Error messages of functions and program execution are displayed and an acoustic alarm sounds. The vapour generator automatically cuts out.

| MODELS | Code | Connection GMP | Drying | Capacity liters | Ø / Height (usable) cm | Height / Width / Depth (external) cm | Temp. ° C | Tank Capacity | Basket Capacity | Consumption W | Weigth Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AUTESTER ST DRY USB-S 50 | 4002521 | NO | YES | 50 | 30 63 | 117 48 62 | 105 a 134 | 10 | 3 | 4850 | 108 |
| AUTESTER ST DRY USB-S 80 | 4002522 | NO | YES | 80 | 40 60 | 119 58 72 | 105 a 134 | 10 | 2 | 4850 | 136 |
| AUTESTER ST DRY USB-S 150* | 4002523 | NO | YES | 150 | 50 76 | 118 80 95 | 105 a 134 | 20 | 3 | 14000* | 250 |
| AUTESTER ST DRY GMP-S 50 | 4002524 | YES | YES | 50 | 30 63 | 117 48 62 | 105 a 134 | 10 | 3 | 4850 | 108 |
| AUTESTER ST DRY GMP-S 80 | 4002525 | YES | YES | 80 | 40 60 | 119 58 72 | 105 to 134 | 10 | 2 | 4850 | 136 |
| AUTESTER ST DRY GMP-S 150* | 4002526 | YES | YES | 150 | 50 76 | 118 80 95 | 105 to 134 | 20 | 3 | 14000* | 250 |

They are supplied without baskets and without drums. * Code 4002526 and 4002523 due to its power consumption, is manufactured for three-phase current at 230 V or 400 V, to be specified.

## SUPPLEMENTS for vertical autoclaves

**Pt 100 probe.** For temperature reading. In order to ensure that the time and temperature parameters are met under all circumstances, the autoclaves have a connector to install a temperature probe either inside a culture flask, waste packages, etc. and thus ensure that the time spent at a temperature is actually the programmed one.
When the external probe is connected, the controller must be selected in settings and the values detected by the probe appear on the display and in the recorder.
Note: For Presoclave Plus autoclaves, the probe is only used to read the temperature by means of an external thermometer or recorder.
Code 4001219

**Loading and unloading crane.**
Basket lifter for loading and unloading of 50, 80 and 150L autoclaves.
With adapter for handling baskets without deforming them.
Axial rotation to unload the baskets to a transport trolley.
Total height of the elevator: 2.35 m (mounted on the autoclave).
Epoxy coated steel lower part and stainless steel upper part.
Maximum load of the elevator: 40Kg.
Power supply: 230V 300W
UP/DOWN push button.
Code: 1002426



**Ink printer** (see page 64)
Code: 4120113

## ACCESSORIES:

**Wire baskets** in stainless steel. AISI 304.
For **St Dry GMP-S / St Dry USB-S,** 50.
Capacity, 3 baskets Ø 25,5 and 20 cm high.
Code: 1000495
For **St Dry GMP-S / St Dry USB-S** 80.
Capacity, 2 baskets Ø 36 and 28 cm high.
Code: 1000496
For **St Dry GMP-S / St Dry USB-S** 150.
Capacity, 3 baskets Ø 44,5 and 22 cm high.
Code: 1000780

**Drums** sterilization in stainless steel. AISI 304.
For **St Dry GMP-S / St Dry USB-S** 50.
Capacity, 3 drums Ø 25,5 and 20 cm high.
Code: 1002418
For **St Dry GMP-S / St Dry USB-S** 80.
Capacity, 2 drums Ø 35 and 27 cm high.
Code: 1002419

**Detergent Bio-Sel.** (see page 64)
**Water distillation** unit especially for autoclaves. (see page 64).
**Purge microfilter.** Part No. 4001221
**Installation and start-up.**
(Only in Spain)
Code 1003001