



# Autoclaves for sterilization "Autester ST DRY PV III"

**MICROPROCESSOR PROCESS CONTROL.**  
**AUTOMATIC VACUUM DRY AND PURGE "PREVACUUM"**  
**PROGRAMMABLE TEMPERATURE FROM 105 °C TO 134 °C (0.21 TO 2 bar).**  
**CONFORMS TO APPARATUS PRESSURE REGULATION DIRECTIVES.**  
**VERTICAL FLOOR STANDING MODEL: 50, 80 AND 150 LITRES.**



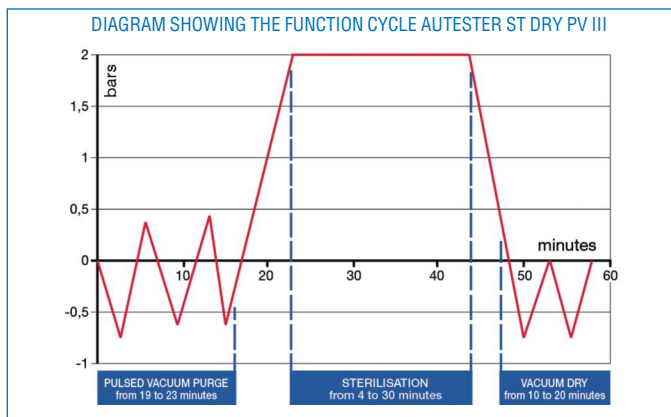
CONFORMITY	
EN 61010-1	SAFETY FOR EQUIPMENT FOR LABORATORY USE
EN 61010-2-040	SAFETY FOR STERILIZER EQUIPMENT FOR LABORATORY USE
EN 61326	ELECTROMAGNETIC COMPATIBILITY FOR EQUIPMENT FOR LABORATORY USE.

## FEATURES

- Stainless steel exterior and top.
- Stainless steel lid.
- Lid, six closure point system.
- Pulsed vacuum system and atmosphere purge.
- External steam generator (except 150 litres autoclave).
- Water reservoir for clean water for the steam generator boiler.
- External water connection if required.
- 6 function modes.
- RS 232 for PC parameters printing (back side).
- Printer output.
- USB output for PEN-DRIVE data logging.
- Connection for a second temperature sensor.
- 10 customer set programs.
- Lateral external probe port (except 150 litres autoclave).

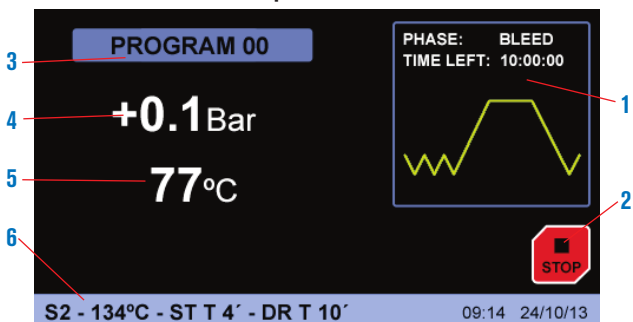
## SAFETY

- Safety:** The lid cannot be opened if the chamber is under pressure.
- Safety valve:** Prevents over pressure over the maximum limit.
- Safety pressure switch:** switches the heater power off to if over pressure.
- Safety Lid:** insulated lid protection.

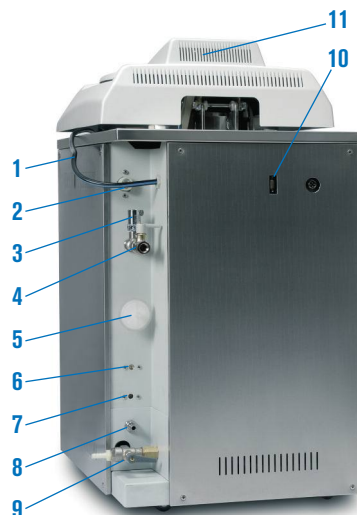


## CONTROL PANEL

TFT touch screen with virtual pushbuttons.



- Graphical representation of real time process
- Start/Stop virtual pushbutton.
- Running program.
- Press indicator.
- Temperature indicator.
- Running program parameters.



## BACK VIEW

- Mains input.
- External water supply.
- Safety valve.
- Vacuum vapour valve.
- Air in filter valve.
- Safety thermostat.
- Safety thermostat.
- Empty tank valve.
- Drain tank valve.
- RS232 connector.
- USB connector.

## MICROPROCESSOR FEATURES

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 thermostat 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.

### MESSAGES:

- |                     |                           |                      |
|---------------------|---------------------------|----------------------|
| 1. E 2PROM          | 7. VACUUM                 | 13. LEVEL 1          |
| 2. RTC FAULT        | 8. PRESSURE               | 14. LEVEL 2          |
| 3. SENSOR PRECISION | 9. BOILER TEMPERATURE     | 15. DOOR             |
| 4. HEATER PROBE     | 10. TEMPERATURE LOW FAULT | 16. PRINTER NO PAPER |
| 5. CHAMBER PROBE    | 11. INPUT ERROR           | 17. PAPER JAM        |
| 6. OVER PRESSURE    | 12. STERILIZATION         | 18. ELECTRICAL FAULT |

### MODELS

	Part No.	Dry	Capacity litres	Ø / Height (usables) cm	Height / Width / Depth (exterior) cm	Temp. °C	Water Reservoir H <sub>2</sub> O capacity.	Basket size	Power W	Weight Kg
<b>AUTESTER ST DRY PV III 50</b>	<b>4002516</b>	Yes	50	30 63	117 48 62	105 to 134	10	3	3000	108
<b>AUTESTER ST DRY PV III 80</b>	<b>4002519</b>	Yes	80	40 60	119 58 72	105 to 134	10	2	4850	136
<b>AUTESTER ST DRY PV III 150*</b>	<b>4002518</b>	Yes	150	50 70	118 80 95	105 to 134	20	3	7500*	250

Comes without baskets and drums.\* The part number 4002518 due to its power rating is only manufactured for three phase 230V or 400V. Specify preference when ordering.

### COMPLEMENTS: Factory fitted options.



**Printer** of continuous paper roll with print out of program, temperature, pressure, time and phase. Part No. **4002417**  
**Pt100 Sensor** (See page 63).

### COMPLEMENTS FOR "PRESOCLAVE III", "PRESOCLAVE PLUS" AND "AUTESTER ST DRY PV III"

#### Loading and unloading crane

Baskets elevator for loading and unloading of autoclaves of 50, 80 and 150L  
 With adapter for handling baskets without deforming.  
 Axial rotation for placing baskets to a trolley.  
 Total lift height: 2.35 m (autoclave assembled)  
 Bottom part made of epoxy coated steel and upper part made of stainless steel.  
 Maximum crane load: 40 Kg.  
 Power: 230V 300W  
 UP/DOWN pushbutton.  
 Part No: **1002426**



### PARAMETERS AND PROGRAMS PRE INSTALLED IN THE AUTOCLAVE MICROPROCESSOR

(Note: All these parameters are adjustable by the user)

Nº Programme	Description	Temperature Sterilization	Time Sterilization	Time Dry	Purge
0	Free	-	-	-	-
1	Unwrapped instruments	134 °C	4 min	15 min	2 (1)
2	Wrapped instruments	134 °C	12 min	30 min	3 (2)
3	CJD	134 °C	20 min	20 min	3 (2)
4	Delicate unwrapped	121 °C	15 min	15 min	2 (1)
5	Delicate wrapped	121 °C	30 min	30 min	3 (2)
6	Disinfecting	105 °C	25 min	15 min	1 (3)
7	Liquids	121 °C	30 min	-	1 (3)
8	Solids	121 °C	15 min	30 min	1 (3)
9	Solids	134 °C	4 min	30 min	1 (3)

(1) Double Vacuum purge. (2) Triple Vacuum purge.

(3) Atmospheric purge (No vacuum).

### ACCESSORIES: AISI 304 Stainless steel wire baskets and drums.

For **Autester ST DRY PV-II 50**, Part No: 4002516.  
 Capacity, 3 baskets Ø 25,5 and 20 cm. height. Part No: **1000495**  
 For **Autester ST DRY PV-II 80**, Part No: 4002519.  
 Capacity, 2 baskets Ø 36 and 28 cm. height. Part No: **1000496**  
 For **Autester ST DRY PV-II 150**, Part No: 4002518.  
 Capacity, 3 baskets Ø 44,5 and 22 cm. height. Part No: **1000780**  
 Sterilization **drum** made from AISI 304 stainless steel.  
 For **Autester ST DRY PV-II 50**, Part No: 4002516.  
 Capacity, 3 drum Ø 25 and 18 cm. height. Part No: **1002418**  
 For **Autester ST DRY PV-II 80**, Part No: 4002519.  
 Capacity, 2 drum Ø 35 and 27 cm. height. Part No: **1002419**  
**Detergent Bio-Sel.** (see page 63)  
**Water distillation** unit especially for autoclaves. (see page 63).  
**Purge microfilter.** Part No. **4001221**