



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.

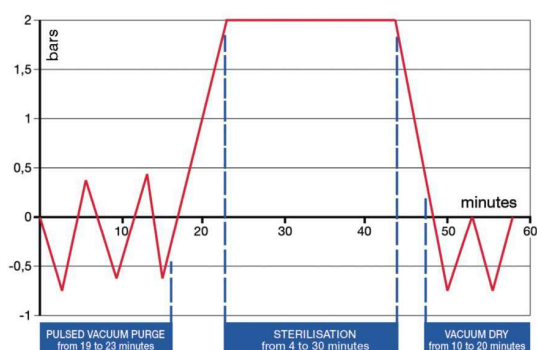
FEATURES

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

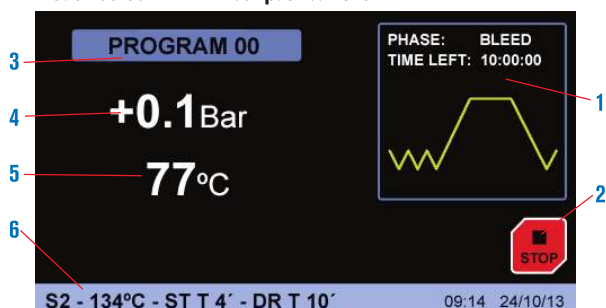
Safety: The lid cannot be opened if the chamber is under pressure.
Safety valve: Prevents over pressure over the maximum limit.
Safety pressure switch: switches the heater power off to if over pressure.
Safety Lid: insulated lid protection.

DIAGRAM SHOWING THE FUNCTION CYCLE AUTESTER ST DRY PV III

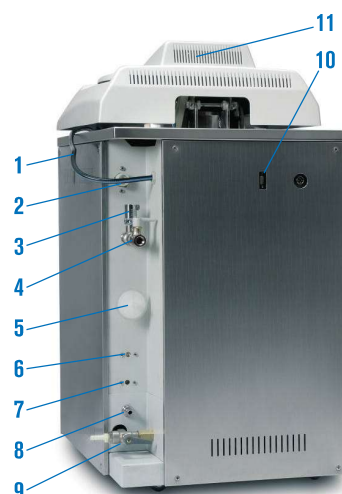


CONTROL PANEL

TFT touch screen with virtual pushbuttons.



1. Graphical representation of real time process
2. Start/Stop virtual pushbutton.
3. Running program.
4. Press indicator.
5. Temperature indicator.
6. Running program parameters.



BACK VIEW

1. Mains input.
2. External water supply.
3. Safety valve.
4. Vacuum vapour valve.
5. Air in filter valve.
6. Safety thermostat.
7. Safety thermostat.
8. Empty tank valve.
9. Drain tank valve.
10. RS232 connector.
11. 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 HzO capacity.	Basket size	Power W	Weight Kg
AUTESTER ST DRY PV III 50	4002516	Yes	50	30 63	117 48 62	105 to 134	10	3	3000	108
AUTESTER ST DRY PV III 80	4002519	Yes	80	40 60	119 58 72	105 to 134	10	2	4850	136
AUTESTER ST DRY PV III 150*	4002518	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 epoxi 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)

N° 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**