



Autoclaves for sterilisation "Autester ST DRY PV II"

MICROPROCESSOR TEMPERATURE AND CYCLE CONTROL AND PULSED VACUUM PURGE SYSTEM.
AUTOMATIC VACUUM DRY AND PURGE "PREVACUUM"
PROGRAMMABLE TEMPERATURE FROM 105 °C TO 134 °C (0.21 TO 2 bar).
CONFORMS WITH THE CURRENT REGULATIONS FOR PRESSURE VESSELS.
VERTICAL FLOOR STANDING MODEL: 30, 50, 75 AND 140 LITRES.



CONFORMITY

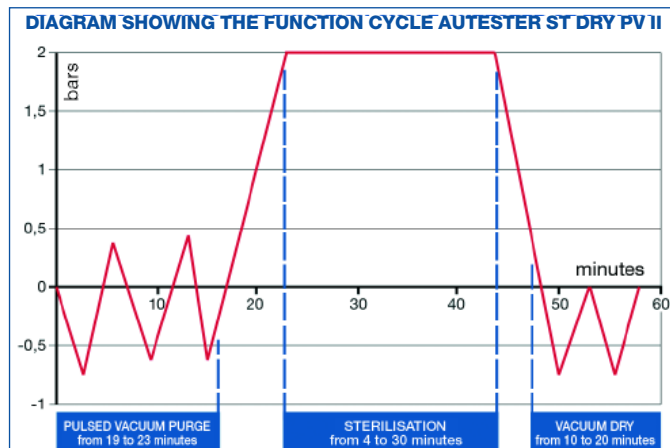
EN 61010-1	SAFETY FOR EQUIPMENT FOR LABORATORY USE
EN 61010-2-041	SAFETY FOR STERILISER EQUIPMENT FOR LABORATORY USE
EN 61326	ELECTROMAGNETIC COMPATIBILITY FOR EQUIPMENT FOR LABORATORY USE.

FEATURES

- AISI 304 stainless steel exterior and top.
- AISI 316 stainless steel lid
- Lid, six closure point system.
- Pulsed vacuum system and atmosphere purge.
- Incorporated steam generator, connected to the main chamber.
- Water reservoir for clean water for the steam generator boiler.
- External water connection if required.
- 6 function modes.
- Printer output. RS232 connection for download or to a printer.
- Connection for a second temperature sensor
- Memory for 9 customer set programs.

SAFETY

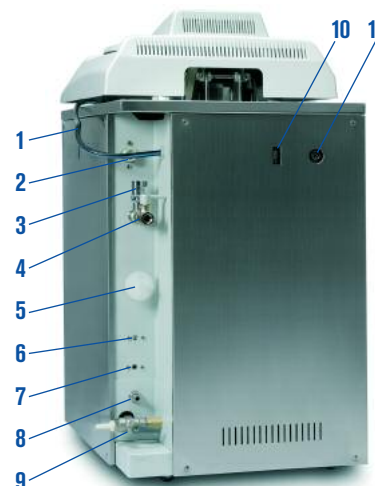
- Safety:** The lid cannot be opened if the chamber is under pressure.
- Safety valve:** Prevents over pressure over the maximum limit.
- Safety pressure switch:** switches power off to the heater if over pressure.
- Safety Lid:** insulated lid protection.



CONTROL PANEL



- LCD parameter indicator.
- MONO single button control multi-function processor.
- LED in operation.
- Push button Start / Stop.
- Printer (optional).
- Open Lid.



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 Printer connection.
- 2nd Temperature sensor connection.

CONFORMITY

The microprocessor controls the air extraction, sterilisation and dry process from preset values set by the operator. Controlled parameters are:

- Sterilisation temperature from 105 °C to 134 °C
- Sterilisation time from 3' to 60'
- Drying time from 20' to 60'
- Programs-0 to 9 user configurable
- Six pre-set functions:
 - Solids 1 fraction
 - Solids 2 fractions
 - Solids 3 fractions
 - Dry
 - Liquids
 - Liquids 2 temperature probes
- Verification tests
 - Vacuum
 - Bowie Dick
- Configuration
 - Units
 - Languages (Spanish, English, and French).
 - Printer
 - Timer: date/hour
 - Water connection external: on/off.
- Password
- Calibration
 - Temperature probe 1
 - Temperature probe 2
 - Water fill



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

MESSAGES:

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

MODELS

	Part No.	Dry	Capacity litres	Ø / Height (usables) cm	Height / Width / Depth (exterior) cm	Temp. °C	Water Reservoir H ₂ O capacity.	Basket size	Power W	Weight Kg
AUTESTER ST DRY PV-II 30	4002514	Yes	30	30 40	97 48 62	105 to 134	10	2	2800	90
AUTESTER ST DRY PV-II 50	4002515	Yes	50	30 70	117 48 62	105 to 134	10	3	3000	108
AUTESTER ST DRY PV-II 75	4002425	Yes	75	40 60	107 58 72	105 to 134	10	2	3600	136
AUTESTER ST DRY PV-II 140*	4002426	Yes	140	50 70	118 80 95	105 to 134	20	3	7500*	250

Comes without baskets.

* The part number 4002426 due to its power rating, only manufactured for three phase 220V or 380V, specify preference when ordering.

OPTIONS: Factory fitted options



Thermal printer continuous paper roll with print out of temperature, pressure, time and mode.
Part No. **4002417**

Pt100 Sensor
(See page 53).

ACCESSORIES

AISI 316 Stainless steel baskets.
Sterilisation **drum** made from AISI 304 stainless steel.
Detergent Bio-Sel.
Water distillation unit especially for autoclaves (see page 53).

PARAMETERS AND PROGRAMS PRE INSTALLED IN THE AUTOCLAVE MICROPROCESSOR

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

N° Programme	Description	Temperature Sterilisation	Time Sterilisation	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).

OPTIONS: for vertical autoclaves, need to be factory fitted.



Pt 100 Sensor. 2nd Probe for reading sample temperature.

To guarantee in all circumstances that the system has completed the cycle to the set time and temperature parameters, the Autester ST DRY PV II autoclave can be installed with a temperature probe that can be placed within the culture flask, residual packets etc. In this way proof that the programmed time and temperature for the run have been achieved.

When the probe is connected to the controller of the autoclave, it is automatically recognised by the micro-processor, whereby the real time and temperature values detected by the probe are displayed and printed. For autoclaves PRESOCLAVE II this Pt100 sensor only temperature reader.

Part No. **4001219**

ACCESSORIES FOR VERTICAL AUTOCLAVES



Perforated AISI 316 stainless steel **baskets.**

Part No.	Ø	Height cm	Suitable for autoclaves Part No.	Number of baskets
1004770	21.5	15	4001404	1
1000596	22.5	24	4047725	1
1000495	28	20	4002135 - 4002514	2
1000495	28	20	4001725 - 4002515	3
1000496	38	28	4002136 - 4002425	2
1000780	48	22	4002426	3



AISI 316 stainless steel wire dividers for autoclave baskets.

Part No.

1001217 4 divider compartments for basket part no. 1000495.

1001218 6 divider compartments for basket part no. 1000496.

1001222 7 divider compartments for basket part no. 1000780.



Sterilisation Drums.

Part No.	Ø	Height cm	Suitable for autoclaves Part No.	Capacity Drums
1002418	28	18	4002135 - 4002514	2
1002418	28	18	4001725 - 4002515	3
1002419	35	27	4002136 - 4002425	2



NEW

Water distiller, specially for autoclaves “DEST-4”.

Distillation capacity: 1.5 litres/hour. Internal capacity 4 litres.

Case made from thermo resistant plastic.

Internal stainless steel.

Cooling by forced air through a condenser. Without glass heater elements.

Easy to use. Safety cut out if over temperature due to insufficient water.

Comes complete with a 4 litre three way dispenser plastic bottle with filter.

Note: for daily use it is recommended that the filter be changed every 3 months.

No external additional water required

Part No.	Capacity Distillation litre/Hour	Conductivity µs/cm	Ø	Height cm	Power W	Weight Kg
4001729	1.5	5	29	39	750	3.5

Spare: Dispenser spout with filter. Part No. **4001730**



Detergent “BIO-SEL”

We recommend the use of BIO-Sel detergent for cleaning, it is also biodegradable and free from Phosphates.

Part No.

1000025 Capacity 1 litre.

1000026 Capacity 4 litres.

1000852 Box of 12 x 1 litre flasks.

1000853 Box of 4 x 4 litre flasks.