# AES Range Digital Without Drying

Multipurpose vertical sterilizer

**AES Range** – Solids and liquids sterilizer with multipurpose uses indicated for laboratories and industry.

## Operating Principal

AES vertical range provides a single solution for the multiples sterilization needs on laboratories including liquids, culture media, biological waste, contaminated media, instruments, glassware and other laboratory items.

Load has to be placed into the vessel's baskets and, after manual filling with distilled water, device starts to heat up and purge until set temperature is reached. In case of solid objects, discharge can be manually forced during cooling stage to reduce cycle time.

**Digital Microprocessor** – Digital microprocessor for an easy programming and parameters selection for sterilization process.



**Programs** – Microprocessor has 10 programs, from P0 to P9, and the first four are pre-defined and protected.

| Program Nº | Temperature (ºC) | Pressure (bar) | Sterilization time (min.) | Sterilization mode |
|------------|------------------|----------------|---------------------------|--------------------|
| P0 | 115 | 0,6 | 60 | SOLIDS-1 |
| P1 | 121 | 1,1 | 30 | SOLIDS-1 |
| P2 | 133 | 2,1 | 20 | SOLIDS-1 |
| P3 | 121 | 1,1 | 20 | LIQUIDS-1 |

The rest of the programs are user-defined with the following parameters setting:

- Sterilization temperature
- Sterilization time
- Heart probe selection

# Sterilization Process

**Heating Stage** – Fast saturated steam production by means of powerful heating elements.

**Sterilization Control** – A PT-100 temperature probe controls the chamber temperature, with the possibility of installing another flexible PT-100 temperature probe for liquid programs.

**Cooling Stage** – In solid program, discharge can be manually forced during cooling stage to reduce the cycle time.

**Security** – All safety standards are covered with safety valve, safety thermostat and safety pressure switch, door opening prevention system in case of overpressure, open door.

EU Directive and Standards:

**2014/35/UE** *Low Voltage*
**2014/30/UE** *Electromagnetic Compatibility*
**2014/68/UE** *Pressure Equipment*

**EN-61010-1**
**EN-61010-2-040**
**EN-61326**
**AD 2000 Merkblatt**

# Communications and Documentation

**RS-232 Port** – For live monitoring of sterilization cycle directly to PC. It is needed the customized software SOFT-S7000W.

**Integrated Printer** – For quality printouts after each cycle. Intervals can be adjustable. Printer has to be requested before ordering.
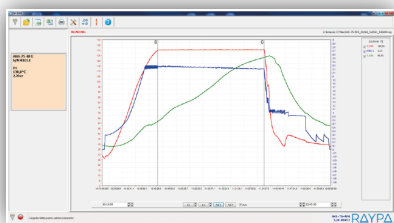
# Technical Data

| REFERENCE | USEFUL CAPACITY (L) | Ø x H (cm) | FxAxH (cm) | TEMP. (ºC) | MAX. PRESSURE (bar) | POWER (W) | WEIGHT (Kg) | TIME (min.) |
|---|---|---|---|---|---|---|---|---|
| AES-8 | 8 | 22 x 18 | 34 x 34 x 43 | 100 - 127 | 1,5 | 1000 | 11 | 0-500 |
| AES-12 | 12 | 25 x 27 | 50 x 49 x 65 | 100 - 134 | 2,1 | 1000 | 35 | 3 - 180 |
| AES-28 | 28 | 30 x 40 | 56 x 51 x 112 | 100 - 134 | 2,1 | 3200 | 90 | 3 - 180 |
| AES-50 | 50 | 30 x 70 | 56 x 51 x 130 | 100 - 134 | 2,1 | 3200 | 110 | 3 - 180 |
| AES-75 | 75 | 40 x 60 | 73 x 62 x 119 | 100 - 134 | 2,1 | 3200 | 140 | 3 - 180 |
| AES-110 | 110 | 40 x 85 | 73 x 63 x 144 | 100 - 134 | 2,1 | 6000 | 180 | 3 - 180 |
| AES-150 | 150 | 50 x 75 | 85 x 76 x 140 | 100 - 134 | 2,1 | 9000 | 265 | 3 - 180 |

# Accessories

PC connection RS-232
(Ref. SOFT-S7000W)



Integrated Printer
(Ref. IT)



Basket Crane (Ref. ELEV-CLAV)



Baskets (Ref. CV)