



Constructeur depuis 1953

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Stérilisateurs Vapeur

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Specifications



Bedpan Washers
LaVapor LD 21 & ECO 25

A.J. COSTA (IRMÃOS), LDA
since 1953





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1. Introduction

The Washer-disinfectors **LaVapor®** series was conceived to address the following topics:

- The new state of the art demands, regarding washing and disinfection processes of medical utensils,
- The new regulation and technical-standards demands, European and Worldwide, regarding construction technology, washing and thermal disinfection certification.

The Washer-disinfectors series, LaVapor® LD21 and LaVapor® ECO25 has breakthroughs in its design, its operation and use, with the aim of providing not only an effective cleaning and thermal disinfection, but also in handling the process in an efficient, simple and ergonomic way. The LaVapor® series presents characteristics of innovative operation that drastically reduce the spread of crossed contamination.

2. Available models

The available models in the Washer-disinfectors **LaVapor®** series are listed here:

BRAND	LINE	MODEL
AJC	LAVAPOR ®	LD 21
		ECO 25

3. Washing and thermal disinfection programs

The Washer-disinfectors **LaVapor®** series has the following available working programs, accessible to the operator, with configuration option:

LD 21:

- Urinals
- Economic
- Normal
- Intensive

ECO 25:

- Normal
- Intensive



The load washing and thermal disinfection programs follow, in general, these phases:

- Cold water pre-washing phase
- Mild water with detergent washing phase
- Hot water and detergent washing phase
- Hot water washing phase
- Thermal disinfection phase
- Final washing phase

The number of performed cycles is counted.

To each program is associated a wide range of eventual specific failures that will be displayed, in case of occurrence, to the operator.

4. Mechanical features

4.1 Dimensions

The available models in the Washer-disinfectors **LaVapor®** series are listed here:

BRAND	SERIES	MODEL	EQUIPMENT DIMENSIONS (height x width x depth) (cm)
AJC	LaVapor®	LD 21	150 x 70 x 60
		ECO 25	130 x 62 x 62

The chamber dimensions and capacities for each model of the washer disinfecter **LaVapor®** series are listed in the following chart:

BRAND	SERIES	MODEL	CHAMBER DIMENSIONS (height x width x depth) (cm)	CHAMBER CAPACITY (liters)
AJC	LaVapor®	LD 21	50 x 50 x 35	90
		ECO 25	38 x 44 x 28	48



4.2 Other mechanical features

Additionally, are also important the following mechanical characteristics of Washer-disinfectors LaVapor®:

- Automatic discharge of solid residues
- Water and energy consumption optimization
- Washing chamber and body in AISI 304 stainless steel
- Equipment fully built in stainless steel, free from ferrous materials
- High quality sealing gasket
- Fully automatic door (LD 21 model only)
- Pedal interface and door motion full control (LD 21 model only)
- Safety-stop system in case of door obstruction (LD 21 model only)
- Cold and hot water washing, followed by steam thermal disinfection
- Detergent dosing pump
- Utensils pre-washing

5. Electrical features

The main electrical features of the Washer-disinfectors **LaVapor®** series are the following:

- Cycle command by integrated micro-computer
- RS 232 communication port
- User friendly interface
- High accuracy temperature sensors
- Emergency stop button of the washer disinfecter operation.
- Ongoing information on the interface of the cycle that is underway and the correspondent phase

6. Equipment markings

The Washer-disinfectors **LaVapor®** series has been designed and built to comply with the following directives:

EUROPEAN DIRECTIVE	DIRECTIVE APENDIX OR MODULE	NUMBER OF THE NOTIFIED ORGANIZATION
93/42/CEE	II	0120
2007/47/CE	II	0120



The design of the Washer-disinfectors **LaVapor®** series is compliant with the following technical standards:

ISO 15883; Part 1 - 3
Washer-Disinfectors.

Electrical Safety:

- EN 61010-2-040:2005 Safety Requirements for electrical equipment for measurement, control and Laboratory use. Particular requirements for sterilizers and Washer-disinfectors used to treat medical materials.
- EN 61010-1:2001 Safety requirements for electrical equipment for measurement, control and Laboratory use. General Requirements.

Electromagnetic Compatibility

- EN 61326-1:2006 Electrical equipment for measurement, control and Laboratory use – EMC Requirements – Part 1: General Requirements.
- EN 61000-3-2:2006 Electromagnetic compatibility (EMC – Part 3-2: Limits – Limits for harmonic current emissions (Equipments input current ≤ 16 A per phase).
- EN 61000-3-3:1995 + A1:2001+ A2:2005. Electromagnetic compatibility (EMC) – Part 3: Limits – Section 3: Limitation of Voltage fluctuations and flicker in low voltage supply systems for equipments with rated current $t \leq 16$.

The production of the Washer-disinfectors **LaVapor®** series is covered by the quality management system implemented in our company and complies with the following standards:

- NP EN ISO 9001
Quality management systems
Requirements



- ISO 13485
Quality System
Medical Devices
Particular Requirements of ISO 9001

This certificate has been given to the manufacturer by the Certification Body SGS UKAS.

7. Network connections

7.1 Electrical supply

The electrical supply of the Washer-disinfectors **LaVapor®** series has the following specifications:

BRAND	SERIES	MODEL	ELECTRICAL SUPPLY	TENSION [V]	FREQUENCY [Hz]
AJC	LaVapor®	LD 21	THREE-PHASE	400 / 230	50/60
			MONOPHASE	230	50/60
		ECO 25	THREE-PHASE	400 / 230	50/60
			MONOPHASE	230	50/60

The electrical power of the Washer-disinfectors **LaVapor®** series has the following specifications:

BRAND	SERIES	MODEL	TENSION [V]	ELECTRICAL POWER [kW]
AJC	LaVapor®	LD 21	400 / 230	12
		ECO 25	400 / 230	3
			230	3

Other electrical power supply connections can be provided.



7.2 Water supply

The cold and hot, water supply to the Washer-disinfectors LaVapor® series has the following specifications:

- Maximum pressure: 6 Bar
- Minimum pressure: 3 Bar
- Connection: 3/4" BSP

7.3 Drain network

The connection of the Washer-disinfectors LaVapor® series to the drain network has the following specifications:

- Material resistant to: 80 °C
- Connection: 110 mm

8. Available accessories

The standard accessories available for the Washer-disinfectors **LaVapor®** series are as follows:

LD 21:

- Special Accessory for to use either saddle bedpans, slipper bedpans and wash basins
- Three support accessories for urine and suction bottles
- Support basket for washing and disinfecting small utensils (Optional)
- Dryer-dedicated pump (Optional)
- **Patented accessory to dump, clean and disinfect urine bag (Optional)**



ECO 25:

- Accessory for saddle bedpans (Optional)
- Accessory for slipper bedpans
- Support accessory for urine bottle
- Patented accessory for disposal, wash and disinfect catheter bags (Optional)
- Dryer-dedicated pump (Optional)
- Support basket to wash and disinfect small utensils (Optional)

The company may provide, under request, any other types or variations in accessories, to be manufactured.

11. Warranty

The Washer-disinfectors **LaVapor**® series have a warranty period of two years.