

Vertical autoclaves with prevacuums and drying

AE-B Series CLASSIC LINE

Technical information



Why choose RAYPA?

Expert manufacturer, original design, global brand



With half a century of experience, we have a long list of satisfied customers around the world. Currently, we export 85% of our annual turnover and have a stable network of distributors with presence in over 100 countries.



EFFICIENT TECHNICAL SERVICE

Our team of highly qualified technicians and engineers is expert in our products. If you experience a technical issue, it will be our priority to rectify it. When you purchase a RAYPA unit, you're guaranteed top-level support and technical assistance.



EXPERT MANUFACTURER

After more than 45 years in the industry, RAYPA is a global leader in the manufacture of laboratory autoclaves. Each of our autoclaves is designed and manufactured entirely within our modern facility equipped with the latest technology.

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FULL AND CUSTOMIZABLE RANGE

We offer an extensive portfolio of laboratory autoclaves to cover multiple applications and market segments. Discover the combination of autoclave model and accessories that best fits your needs within our 11 series and 35 available models.



INNOVATION AND QUALITY

Our products feature advanced technology, ongoing innovation, superior construction quality, and are designed for a long service life. Our technical and engineering staff works tirelessly every day to optimize our products and exceed our customers' expectations.

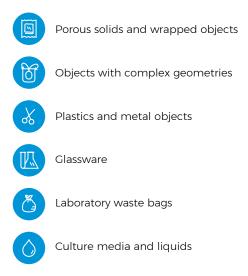


Our team of specialists assesses each project and provides guidance to clients on the option that best suits their requirements. After the sale, we offer training on the use and recommended maintenance of each unit to ensure its optimal operation and extend its lifespan.

Vertical autoclaves with prevacuums and drying

AE-B Series vertical floor-standing autoclaves with toploading access cover all laboratory sterilization needs in many industries and research facilities with the aim of increasing the productivity of the laboratory. A great chamber capacity, the independent integrated steam generator, the touchscreen display, the independent clean water tank, the initial prevacuum pulses, the vacuum drying and the direct water discharge results in an excellent autoclave to perform from the most simple to the most demanding applications.

RECOMMENDED APPLICATIONS





MAIN FEATURES

EXCELLENT PERFORMANCE

AE-B Series autoclaves offer excellent performance for several sterilization procedures. They are equipped with an integrated steam generator, a vacuum pump and a heating jacket to guarantee proper steam penetration on all types of loads and completely dry solid loads.

MULTIPLE TYPES OF STERILIZATION

A wide variety of options are available for sterilizing solids or liquids. Programmable parameters include automatic preheating, automatic start, number of initial prevacuum pulses, duration of vacuum drying, and the optional use of a flexible temperature probe for precise liquid sterilization.

GREAT EASE OF USE

AE-B Series autoclaves are equipped with a 5" color touchscreen and include an independent clean water tank that automatically supplies the steam generator. For added convenience, an optional upgrade allows full automation of water supply directly from a water network. Discharge is always directly sent to the drain.

SAFETY FIRST

AE-B Series autoclaves are designed with several features to ensure the safety of the operators. These include overpressure safety valve, overtemperature safety thermostats, water level detectors, an open door detection system and an independent safety pneumatic system that locks the main door while positive pressure is present in the sterilization chamber.

ADVANTAGES

	Immediate in integrated st
3	Adjustable n ensure optin

njection of steam thanks to the powerful eam generator.

umber of initial prevacuum pulses to nal steam penetration into complex , as well as porous or bulky objects, ensuring effective sterilization.





CE Autoclaves manufactured in full compliance with all applicable European Union quality, regulatory and safety standards.

control is optional.

Control by a PID microprocessor and a 5" touchscreen. It includes 50 customizable programs adjustable by time, temperature, number of prevacuums, drying

time and type of load (solids or liquids). Flexible probe



Compatible with both the vacuum test and the Bowie-Dick test, featuring dedicated programs for each.

- Suitable to sterilize all types of loads, including wrapped objects, porous objects, textiles, objects with complex geometries and bulky loads.
- Automatic purified water supply to the integrated steam generator from the independent water tank, with water level sensors at both locations. Optional upgrade for automatic supply from a water network.
- The discharge from each cycle is directly routed to the drain to minimize long-term corrosion and calcification of the sterilization chamber and water tank. An optional adaptation is available for using an external tank for discharge.

Automatic start-up and sterilization chamber preheating programmable by date and time.

- - User management with administrator hierarchy.
 - Optional software for sterilization data management.

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Seamless mobility, all models include casters.

Optional embedded printer.

WORKING PRINCIPLE

AE-B Series autoclaves meet the diverse sterilization needs of most laboratories, efficiently processing wrapped and unwrapped solids, fabric loads, porous and hollow items, plastics, metal instruments, laboratory waste bags, liquids, culture media, glassware, and other essential lab materials. The load has to be placed in baskets inside the chamber, and after manually filling the independent clean water tank with purified water, the equipment starts to create the initial prevacuum, automatically supplies water to the integrated steam generator, producing saturated steam that is directly injected into the sterilization chamber until the set combination of sterilization time and sterilization temperature is reached.





OPERATION OF A STERILIZATION CYCLE FOR SOLID LOADS

PREHEATING PHASE

• In this initial step, the user has the option to set up a preheating temperature up to 70°C to speed up the duration of the sterilization cycle.

PREVACUUM PHASE

 In this phase the equipment's vacuum pump mechanically removes air from the chamber and load through a single or multiple vacuum pulses of -0,75 Bargs. This process ensures steam can penetrate objects with complex geometries. Simultaneously, the steam generator is activated to inject steam into the sterilization chamber.

HEATING PHASE

• After completing the prevacuum phase, the powerful integrated steam generator assembled outside the sterilization chamber heats up dramatically and injects saturated steam in the chamber.

STERILIZATION PHASE

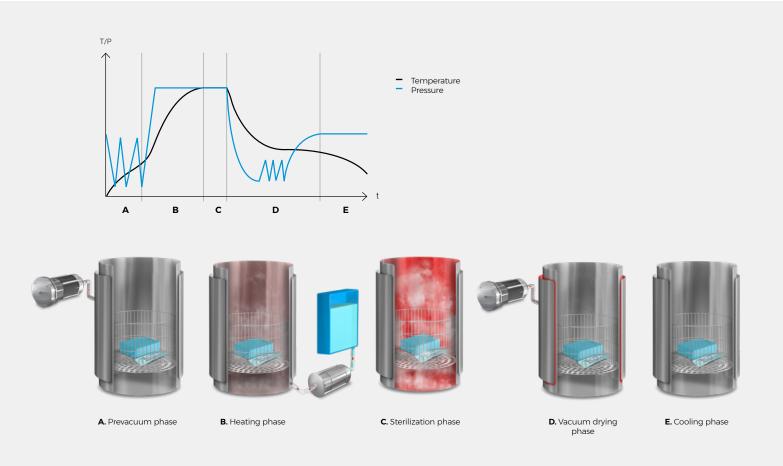
- Upon reaching the preprogrammed sterilization temperature inside the chamber, the sterilization phase begins, maintaining the temperature precisely for the programmed duration.
- This crucial step is controlled by a PT-100 Class A temperature probe located within the chamber. As an option for liquids sterilization processes, this phase can be regulated by a flexible PT-100 Class A temperature probe located inside a sample.

VACUUM DRYING PHASE

• After the sterilization phase finishes, in solid programs only, a vacuum drying phase begins, using a vacuum pump and a heating jacket to completely dry the load.

COOLING PHASE

• Finally, a natural cooling phase starts. A beep will sound upon reaching a safe temperature that allows the chamber to be opened.



PREDEFINED PROGRAMS

Program N⁰	Program name	Prevacuum pulses	Sterilization temperature °C	Sterilization time min	Drying time min	Program mode	Regulation by flexible probe
P1	BD	3	134	4'	4'	Solids	-
P2	Vacuum	1	-	-	-	Solids	-
P3	Porous-134	3	134	4'	15'	Solids	-
P4	Prion-134	3	134	18'	20'	Solids	-
P5	Poroso-121	3	121	20'	15'	Solids	-
P6	Hollow-134	3	134	4'	10'	Solids	-
P7	Hollow-121	3	121	20'	10'	Solids	-
P8	Wrapped-134	1	134	7'	20'	Solids	-
P9	Wrapped-121	1	121	20'	20'	Solids	-
P10	Solids-134	1	134	4'	10'	Solids	-
P11	Solids-121	1	121	20'	10'	Solids	-
P12	Flash-134	1	134	3'	1'	Solids	-
P13	Liquids	1	121	30'	-	Liquids	-
P14	Liquid probe	1	121	15'	-	Liquids	Yes

AE-B Series autoclaves have 50 programs, from P1 to P50, and the first fourteen are predefined and protected.

The remaining programs, P15 to P50, can be edited by setting the following parameters:

- Number of prevacuum pulses.
- \cdot Sterilization temperature.
- Sterilization time.
- Final drying time.
- · Sterilization mode (Solids or Liquids).
- Temperature control of the sterilization cycle can be performed by the chamber temperature probe or by the combined use of the chamber probe and the flexible probe.

DIGITAL MICROPROCESSOR WITH TOUCHSCREEN

Digital microprocessor with a 5" TFT - LCD touchscreen for an easy programming and parameters selection.

Sterilization parameters such as temperature and pressure, graphs, alerts and errors are displayed on the screen.



LOADING CAPACITIES

	ISO ERLENMEYER FLASKS
$\left(\begin{array}{c} \\ \end{array} \right)$	

		(250mL Ø85 x 143mi	m)		(6	500mL Ø105 x 183m	m)		((1000mL Ø131 x 230m	ım)		(6	2000mL Ø166 x 280m	ım)	
Autoclave	Usable volume	Total baskets	Units / basket	Tota	lunits	Total baskets	Units / basket	Tota	l units	Total baskets	Units / basket	Tota	l units	Total baskets	Units / basket	Tota	l units
model	L			А	В			А	В			А	В			А	В
AE-50-B	50	3	7	21	28	1	4	4	12	1	1	1	3	1	1	1	2
AE-75-B	75	3	12	36	48	2	8	16	24	2	5	10	=	1	3	3	6
AE-110-B	110	4	12	48	60	3	8	24	32	3	5	15	=	1	3	3	9
AE-150-B	153	4	21	84	105	4	14	56	=	3	8	24	=	1	5	5	10

A: Number of units using standard baskets. B: Number of units using specially designed baskets for the specific combination of autoclave model and container.



ISO BOTTLES

		(250mL Ø70 x 143mi	m)		(500mL Ø80 x 185mr	n)		(!	1000mL Ø101 x 230m	ım)		()	2000mL Ø136 x 260m	m)	
Autoclave	Usable volume	Total baskets	Units / basket	Total	units	Total baskets	Units / basket	Tota	l units	Total baskets	Units / basket	Tota	units	Total baskets	Units / basket	Tota	I units
model	L			А	В			Α	В			А	В			Α	В
AE-50-B	50	3	9	27	36	1	7	7	21	1	4	4	=	1	1	1	2
AE-75-B	75	3	20	60	80	2	14	28	42	2	8	16	=	1	4	4	8
AE-110-B	110	4	20	80	100	3	14	42	56	3	8	24	=	1	4	4	12
AE-150-B	153	4	33	132	165	4	24	96	=	3	15	45	=	1	8	8	24

A: Number of units using standard baskets. B: Number of units using specially designed baskets for the specific combination of autoclave model and container.

The data contained within these tables, regarding load capacities, serves as a non-binding guide to assist you in the selection of the most appropriate autoclave model.

INTEGRATED BASKET LIFT SYSTEM

References		CLASSIC-LIFT	CLASSIC-LIFT-R
Dimensions L x D x H mm		800 x 300 x 2100	800 x 300 x 2600
Power W		480	480
Voltage V		230	230
Frequency Hz		50/60	50/60
Weight Kg		40	45
Maximum load Kg		30	40
	79 L	✓	-
For autoclaves with the following chamber volumes	115 L	✓	~
	175 L	-	~

 Stainless steel electric lift system built into the side of the autoclave with swivel arm to help load and unload heavy items. Push-button operation with opening up to 200°

- $\cdot\,$ Motor with auto brake system in the event of obstacles or overload.
- \cdot Available in two models: the standard lift system and reinforced lift system.
- · It can be factory fitted or retrofitted.



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MOBILE BASKET LIFT SYSTEM

Reference	MOB-LIFT
Dimensions L x D x H mm	420 x 800 x 2200
Power W	200
Voltage V	115 - 230
Frequency Hz	50/60
Weight Kg	85
Maximum load Kg	30

 $\cdot\,$ Stainless steel electric lift system with casters to help load and unload heavy items up to 30Kg.

- · Equipped with long-life battery for cordless use.
- \cdot Push-button operation.
- $\cdot\,$ Motor with auto brake system in the event of obstacles or overload.
- · Compatible with any autoclave model.



VERTICAL AUTOCLAVES WITH PREVACUUMS AND DRYING - AE-B SERIES 9

ACCESSORIES

STAINLESS STEEL WIRE BASKETS FOR STERILIZING CLEAN LOADS OR HEAVY ITEMS

References		CV-28	CV-75-130	CV-75S	CV-75	CV-150-130	CV-150S	CV-150M
Dimensions	External Ø x H mm	270 x 185	370 x 130	370 x 180	370 x 265	470 x 130	470 x 190	470 x 235
Dimensions	Internal Ø x H mm	260 x 180	360 x 125	360 x 175	360 x 260	460 x 125	460 x 185	460 x 230
Maximum	33 L	2	-	-	-	-	-	-
capacity for	55 L	3	-	-	-	-	-	-
autoclaves with	79 L	-	4	3	2	-	-	-
the following chamber volumes	115 L	-	6	4	3	-	-	-
	175 L	-	-	-	-	б	4	3



STAINLESS STEEL LIQUIDS COLLECTOR TRAY FOR WIRE BASKETS

References		TR-270	TR-370	TR-470
Dimensions	External Ø x H mm	240 x 50	320 x 50	420 x 50
	Internal Ø x H mm	238 x 48	318 x 48	418 x 48
	CV-28	✓	-	-
For the following wire baskets models	CV-75S & CV-75	-	~	-
	CV-150S & CV-150M	-	-	 Image: A set of the set of the



UNPERFORATED STAINLESS STEEL BASKETS FOR STERILIZING DIRTY LOADS OR OBJECTS WITH RISK OF SPILLAGE

References		CCI-28	CCI-75S	CCI-75	CCI-150S	CCI-150M
Dimensions	External Ø x H mm	270 x 185	370 x 180	370 x 265	470 x 190	470 x 235
Dimensions	Internal Ø x H mm	260 x 180	360 x 175	360 x 260	460 x 185	460 x 230
Maximum	33 L	2	-	-	-	-
capacity for	55 L	3	-	-	-	-
autoclaves with	79 L	-	3	2	-	-
the following chamber volumes	115 L	-	4	3	-	-
	175 L	-	-	-	4	3



STAINLESS STEEL "SCHIMMELBUSCH" DRUM FOR STERILIZING INSTRUMENTS AND BIOHAZARDOUS LOADS

	TBE-24x16	TBE-34x24	TBE-48x24
External Ø x H mm	240 x 165	340 x 240	480 x 240
Internal Ø x H mm	230 x 155	330 x 230	470 x 230
33 L	2	-	-
55 L	4	-	-
79 L	-	2	-
115 L	-	3	-
175 L	-	-	3
	Internal Ø x H mm 33 L 55 L 79 L 115 L	Internal Ø x H mm 230 x 155 33 L 2 55 L 4 79 L - 115 L -	Internal Ø x H mm 230 x 155 330 x 230 33 L 2 - 55 L 4 - 79 L - 2 115 L - 3



STAINLESS STEEL CYLINDERS FOR STERILIZING PETRI DISHES

References		CEP-1027	CEP-1041	CEP-1427	CEP-1441
Dimensions	External Ø x H mm	100 x 270	100 x 410	140 x 270	140 x 410
Petri dishes	Maximum number dishes / cylinder	10	18	10	18
	Diameter Ø mm	80	80	120	120
	33 L	4	4	2	2
Maximum capacity for	55 L	8	4	4	2
autoclaves with	79 L	16	8	10	5
the following chamber volumes	115 L	24	16	15	10
	175 L	28	14	16	8



STAINLESS STEEL CYLINDERS FOR STERILIZING PIPETTES

References		CEPP-726	CEPP-740	CEPP-1025	CEPP-1435
Dimensions	External Ø x H mm	70 x 260	70 x 400	100 x 250	140 x 350
Dimensions	Internal Ø x H mm	60 x 250	60 x 390	90 x 240	130 x 340
Maximum	33 L	11	11	6	6
capacity for	55 L	22	11	12	12
autoclaves with	79 L	42	21	20	10
the following chamber volumes	115 L	63	42	30	20
chamber volumes	175 L	90	30	51	34



STAINLESS STEEL WIRE BASKET WITH HEIGHT ADJUSTABLE TRAYS

References			SRA-R-300	SRA-R-400	SRA-R-500
External dimensions Ø x H mm			250 x 190	350 x 180	450 x 180
Trovo	References	3	TRAY-SRA-R-300	TRAY-SRA-R-400	TRAY-SRA-R-500
Trays	Dimension	s Ø x H mm	240 x 20	340 x 20	440 x 20
Maximum capacity for autoclaves with the following chamber volumes		33 L	2	-	-
		55 L	3	-	-
		79 L	-	3	-
		115 L	-	4	-
		175 L	-	-	4



*The purchase of a tray support comes with a set of two trays and six fastening clips. Likewise, the purchase of a tray includes a set of three fastening clips.

 \cdot For sterilization of instruments, small bags and other small objects that must be placed straight up.

• Material: AISI-304 stainless steel.

ACCESSORIES



FLEXIBLE TEMPERATURE **PROBE PT-100 CLASS A**

After installing this accessory, the temperature regulation of the sterilization cycle can either be controlled by the main chamber temperature sensor or both the main chamber temperature sensor and the temperature sensor of the flexible temperature probe.

The temperature control by the flexible temperature probe is especially advantageous for processes involving the sterilization of large volumes of liquids, where the sterilization process is regulated by both the temperature achieved in the center of the liquid sample as well as the temperature achieved in the sterilization chamber. Furthermore, should the autoclave be opened at chamber temperatures higher than 80°C there is a risk of liquids boiling over which can be avoided if the temperature of the sample is controlled throughout the sterilization procedure.

Must be installed in our facilities.

Ref. PT-2-B

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EXTERNAL DOT MATRIX PRINTER

Prints program number, cycle number, temperature, pressure, date and hour of the run and error messages.

Selectable print frequency between 10 and 240 seconds.

Connection: RS-232.

Requires a special factory adaptation. Ref. ITS

Consumables: PAPER-ITS for paper and 70945 for ribbon.

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EMBEDDED THERMAL PRINTER

Prints program number, cycle number, temperature, pressure, date and hour of the run and error messages.

Selectable print frequency between 10 and 240 seconds.

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Must be installed at our factory.

Ref. IT/TS

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Consumable: PAPER-IT for paper

SW8000 SOFTWARE

Communication software between the equipment and the PC for display and recording in real time or display after each cycle. Cycles can also be printed or exported to Excel.

PC connection via Ethernet. Data can also be exported directly to a USB memory stick.

Ref. SW8000



CABLE GLAND

Installation of a Ø2mm or Ø4mm cable gland to provide access to as many as eight external temperature probes for calibration and validation procedures.

Ref. CG2MM & CG4MM

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EXTERNAL TEMPERATURE PROBE ADAPTER

External adapter for continuous validation processes that provides access to an external probe (Ø3-6mm) to take temperature readings that are independent of the equipment microprocessor.

It is located on the autoclave door.

Must be installed at our factory.

Ref. EXT-TP



TRANSPORT TROLLEY

Auxiliary trolley to aid in the loading and unloading of the autoclave. Made of chrome iron and plastic. The surface of each shelf is textured to prevent the load from moving. Equipped with rubber casters to reduce noise and prevent floor wear. Dimensions (LxDxH): 730x490x700mm **Ref. TR-TR**

AUTOMATIC WATER FILLING

Water pump for automating the supply of purified water to the tank.

Compatible with installations with a purified water network or a purified water tank, or installations with a nonpurified water network; in the latter case, a water purifier (ECOPUR-500) and a purified water tank (TANK-KLL) will be required.

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Must be installed at our factory. **Ref. KLL-B**

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ECO-EFFICIENT WATER PURIFIER

Eco-efficient direct-flow water purifier with LED display and no accumulation of water. Capable of filtering 1,3L/min.

The installation of this accessory requires the joint installation of the external tank (TANK-KLL) and the automatic water filling system (KLL-B).

Ref. ECOPUR-500



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PURIFIED WATER TANK

Alternative solution for the storage of up to 25L of purified water in the absence of a water network. **Ref. TANK-KLL**



DISCHARGE TANK

Discharge tank with a maximum capacity of 25L to collect autoclave drain water during the purge and cooling phases in the absence of a drain.

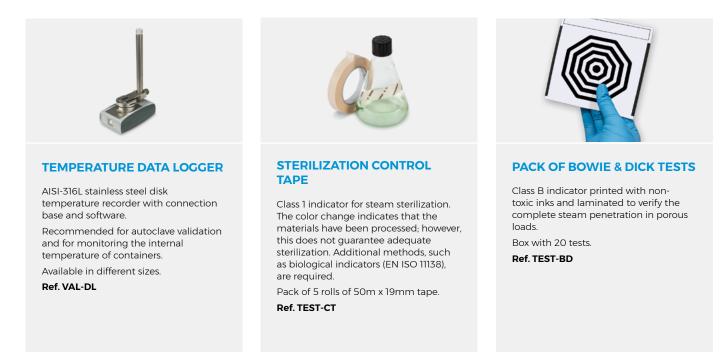
Ref. TANK-B

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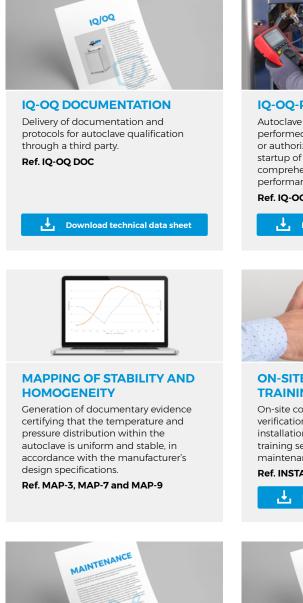


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SPECIFIC SERVICES



MAINTENANCE CONTRACT

Regular inspection plan that includes technical inspection, probe calibration and compliance with the preventive maintenance plan, in addition to tariff discounts.

Ref. MANT-1.2 and MANT-1.3



IQ-OQ-PQ QUALIFICATION

Autoclave qualification service performed by RAYPA technicians or authorized entities. It covers the startup of the equipment and the comprehensive qualification of its performance.

Ref. IQ-OQ-PQ

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ON-SITE COMMISSIONING & TRAINING

On-site commissioning, which includes verification of the correct operation and installation of the equipment and a training session for users on the use and maintenance of the equipment.

Ref. INSTAEB

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CALIBRATION CERTIFICATE FOLLOWING ENAC TRACEABILITY STANDARDS

Unitary certification of proper equipment calibration and performance in compliance with international standards.

Ref. MAPEO-ENAC



REMOTE COMMISSIONING & TRAINING

Guided remote startup including a training session for users on the operation and maintenance of the equipment.

Ref. INSTAEB-REM





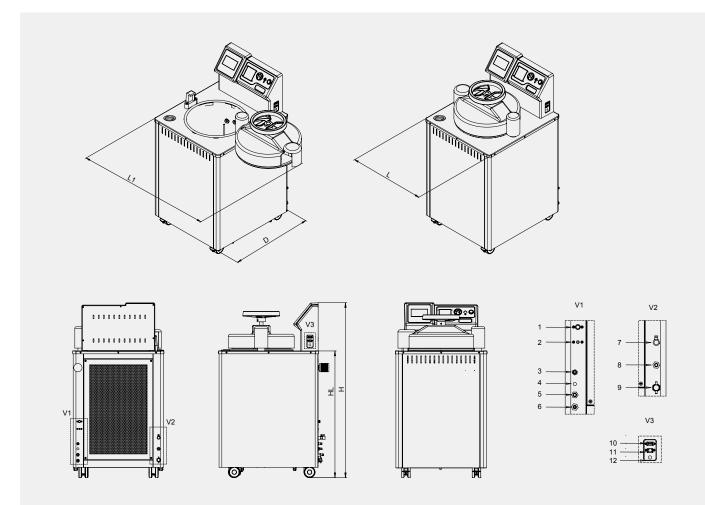
EXTENDED WARRANTY Extended warranty up to a total of 3 vears Ref. WE-CL



SET OF CONSUMABLES, **SPARE PARTS AND ESSENTIAL COMPONENTS**

Set of original spare parts, consumables and components, chosen specifically to adhere to each model's maintenance plan, intended to maximize equipment longevity and minimize downtime in the event of a malfunction.

TECHNICAL DRAWINGS OF THE AUTOCLAVE

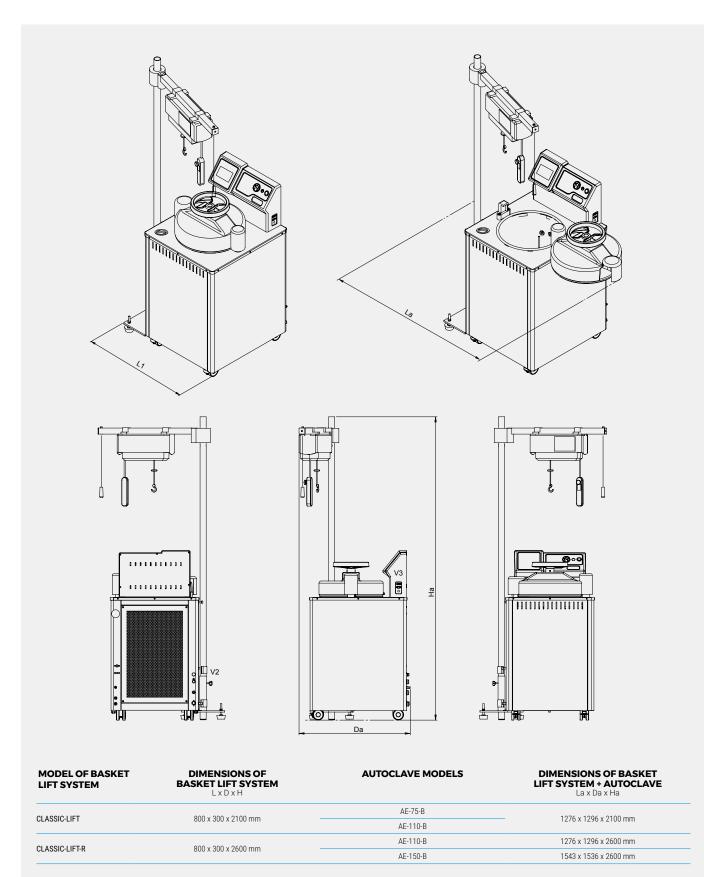


MODELS	L LENGTH with closed door	L1 LENGTH with maximum door opening	D DEPTH	H HEIGHT	HL LOAD HEIGHT	HD DIRECT DISCHARGE CONNECTION HEIGHT
AE-50-B	505 mm	900 mm	580 mm	1290 mm	939 mm	125 mm
AE-75-B	610 mm	1100 mm	700 mm	1185 mm	834 mm	125 mm
AE-110-B	610 mm	1100 mm	700 mm	1435 mm	1084 mm	125 mm
AE-150-B	750 mm	1380 mm	820 mm	1400 mm	1043 mm	125 mm

CONNECTIONS

1	Heating jacket safety thermostat		Independent clean water tank drain outlet		
2	Steam generator safety thermostat	8	Independent clean water tank overflow outlet		
3	Power supply cable (AE-110-B and AE-150-B models)	9	Access to the drain filter of the sterilization chamber		
4	Safety valve outlet	10	USB Port		
5	Automatic water supply inlet	11	Ethernet Port		
6	Direct discharge outlet	12	Power supply cable (AE-50-B and AE-75-B models)		

TECHNICAL DRAWINGS OF THE AUTOCLAVE + CLASSIC-LIFT



TECHNICAL SUMMARY

	General classification	Recommended setting	Industry and research laboratories
\odot		Equipment placement	Floor-standing
		Load direction	Top-loading
		Chamber profile	Round
		Porous solids and wrapped loads	++
		Objects with complex geometries	++
Ţ	Decommonded type of load	Plastic and metal objects	++
Re	Recommended type of load	Glassware	
		Laboratory waste bags	
		Culture media and liquids	++
		Method to generate steam	Integrated steam generator
5		Type of purge	Vacuum
ע ע	Sterilization technology	Prevacuum pulses by vacuum pump	✓
		Vacuum drying by heating jacket and vacuum pump	✓
)	Transfer of data	Ethernet & USB	✓
<u>],</u>	Batch printers	Integrated printer	0
		Sterilization chamber volume	55 - 175 L
		External building material	AISI-304
		Sterilization chamber material	AISI-316L
		Vacuum pump	Membrane
		Gasket material	Silicone rubber
	Sterilization chamber and door	Min max. sterilization temperature	105 - 134 °C
2	specifications	Maximum pressure (above atmospheric pressure)	2,1 Barg
		Mechanism to open the door	Manual wheel
		Direction in which the door opens	Lateral
		Automatic locking with pressure	~
		Thermally insulated door	~
		Screen display	TFT touchscreen
		Screen size	5"
ר[User interface and microprocessor	Total number of available programs	50
		User management with administrator hierarchy	~
		Automatic microprocessor control	~
		Timer start	~
		Auto-preheating	~
	Special cycles and process	Vacuum leak test	✓
?	Special cycles and process optimization	Bowie Dick test	×
		Final postvacuum drying (to completely dry solid loads)	×
		Temperature regulation by flexible probe	0
		Number of prevacuum pulses	1 - 3
		Temperature of sterilization phase	105 - 134 °C
		Duration of sterilization phase	1 - 250 min
ľ	Adjustable cycle parameters	Duration of drying phase	1 - 360 min
		Temperature regulation by flexible probe	On/Off
		Sterilization mode (solids or liquids)	v
		Air intake with bacteriological filter	• •
			9 - 20 L
(+) 0		Independent clean water tank capacity	
	Other specifications	Flexible probe	0
-		Premium casters with brakes	×
		Pressure gauge	×
		Electric customization (115-230M V/230-400T V)	0
	Services	Third-party qualification (IQ-OQ-PQ)	0

+: Recommended ✓: Standard 0: Optional

TECHNICAL DATA

Specifications				
References	AE-50-B	AE-75-B	AE-110-B	AE-150-B
Usable dimensions of the chamber \perp	55/50	79/75	115/110	175/153
Usable dimensions of the chamber $ {\ensuremath{\emptyset}} x {\ensuremath{H}} mm$	300 x 710	400 x 600	400 x 850	500 x 760
External dimensions L x D x H mm	505 x 580 x 1290	610 x 700 x 1185	610 x 700 x 1435	750 x 820 x 1400
Loading height mm	975	870	1120	1085
Net weight Kg	99	135	165	245
Available heating capacities W	3600	3600 or 6000	6000 or 9000	6000 or 9000
Standard voltage* V	230	230	400	400
Frequency Hz	50/60	50/60	50/60	50/60

*Other voltages and electrical configurations available on request. Special models with increased power may operate with other voltages.

Safety features

· Safety valve.

- · Safety thermostats with manual rearm for the heating jacket and the steam generator.
- Pneumatic door blocking system while positive pressure exists inside the sterilization chamber.
- Open door sensor.
- Thermally insulated door.
- · Water level detector in the integrated steam generator. • Water level detector (min./max.) in the independent clean water tank.
- Bacteriological filter for inlet air.
 Several visual and acoustic safety and warning alarms.

Regulations

All our AE-B Series autoclaves are designed to comply with the strictest international directives and standards, including the following regulations

- EN-61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements.
- EN-61010-2-040 Part 2-040: Requirements for laboratory autoclaves.
- EN-61326 Electrical equipment for measurement, control and laboratory use. EMC requirements.
 AD 2000 Merkblatt Pressure vessels

- 2014/35/UE Low voltage.
 2014/30/UE Electromagnetic compatibility.
 2014/68/UE Pressure equipment.

General features

General leatures	
Adjustable sterilization temperature	105 - 134 °C
Adjustable sterilization time	1 - 250 min
Adjustable prevacuum pulses	1-3
Adjustable drying time	1 - 360 min
Maximum pressure	2,1 Barg
Sterilization control system	Fully automatic microprocessor control using either a chamber temperature probe or flexible temperature probe
Air purge system	Mechanical displacement by vacuum pump
Heating system	Independent integrated steam generator
Vacuum drying system	Vacuum pump plus heating jacket
Prevacuum system	Vacuum pump
External building material	AISI-314 stainless steel
Sterilization chamber material	AISI-316L stainless steel
Gasket material	Silicone rubber
Connection to PC	Ethernet
Connection to printer	Embedded
Number of programs	50 (14 preset and 36 user free)
Programmable auto-start	Unlimited range
Screen type	5" TFT touchscreen
Opening door mode	Horizontal swiveling door with blocking wheel
Monitoring of sterilization parameters	Self-control of obtained values (T°, P & t) vs programmed values. Cycle is automatically interrupted if obtained values differ from programmed values
Pressure display	Pressure gauge on control panel, digital display on screen, registry on software and printed tickets
Water management	Independent manually fed clean water tank that automatically supplies the independent integrated steam generator. Optional upgrade for full automation of water supply directly from a water network
Drainage system	Drainage connections for the direct discharge, to drain the independent clean water tank and for the overflow of the independent clean water tank
Casters	Medical grade casters with brakes

MORE INFORMATION

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