

# Аксессуары и принадлежности

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# LOAD CAPACITY OF VERTICAL FLOOR-STANDING AUTOCLAVES

## ISO ERLLENMEYER FLASKS

Autoclave model	Usable volume L	250mL (Ø85 x 143mm)				500mL (Ø105 x 183mm)				1000mL (Ø131 x 230mm)				2000mL (Ø166 x 280mm)			
		Total baskets	Units/basket	Total units		Total baskets	Units/basket	Total units		Total baskets	Units/basket	Total units		Total baskets	Units/basket	Total units	
				A	B			A	B			A	B			A	B
AES-28	31	2	7	14	=	1	4	4	8	1	1	1	=	1	1	1	=
AES-50	50	3	7	21	28	1	4	4	12	1	1	1	3	1	1	1	2
AES-75	75	3	12	36	48	2	8	16	24	2	5	10	=	1	3	3	6
AES-110	110	4	12	48	60	3	8	24	32	3	5	15	=	1	3	3	9
AES-150	153	4	21	84	105	4	14	56	=	3	8	24	=	1	5	5	=
AE-28-DRY	31	2	7	14	=	1	4	4	8	1	1	1	=	1	1	1	=
AE-50-DRY	50	3	7	21	28	1	4	4	12	1	1	1	=	1	1	1	2
AE-75-DRY	75	3	12	36	=	2	8	16	24	2	5	10	=	1	3	3	6
AE-110-DRY	110	4	12	48	60	3	8	24	32	3	5	15	=	1	3	3	6
AE-150-DRY	153	4	21	84	105	4	14	56	=	3	8	24	=	1	5	5	10
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
TLV-50	56	2	12	24	36	1	8	8	16	1	9	9	=	1	3	3	=
TLV-75	81	3	12	36	48	2	8	16	24	2	9	18	=	1	3	3	6
TLV-110	118	3	21	63	84	3	14	42	=	2	8	16	=	1	5	5	10
TLV-150	155	4	21	84	105	4	14	56	=	3	8	24	=	1	5	5	15
TLV-50PD	56	2	12	24	36	1	8	8	16	1	9	9	=	1	3	3	=
TLV-75PD	81	3	12	36	48	2	8	16	24	2	9	18	=	1	3	3	6
TLV-110PD	118	3	21	63	84	3	14	42	=	2	8	16	=	1	5	5	10
TLV-150PD	155	4	21	84	105	4	14	56	=	3	8	24	=	1	5	5	15
TLV-50FA	56	2	12	24	36	1	8	8	16	1	9	9	=	1	3	3	=
TLV-75FA	81	3	12	36	48	2	8	16	24	2	9	18	=	1	3	3	6
TLV-110FA	118	3	21	63	84	3	14	42	=	2	8	16	=	1	5	5	10
TLV-150FA	155	4	21	84	105	4	14	56	=	3	8	24	=	1	5	5	15
AES-8	6,8	1	4	4	=	0	0	2	=	0	0	0	=	0	0	0	=
AES-12	13	1	5	5	=	1	4	4	=	0	0	1	=	0	0	1	=

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.



## ISO BOTTLES

Autoclave model	Usable volume L	250mL (Ø70 x 143mm)				500mL (Ø80 x 185mm)				1000mL (Ø101 x 230mm)				2000mL (Ø136 x 260mm)			
		Total baskets	Units/basket	Total units		Total baskets	Units/basket	Total units		Total baskets	Units/basket	Total units		Total baskets	Units/basket	Total units	
				A	B			A	B			A	B			A	B
AES-28	31	2	9	18	=	1	7	7	14	1	4	4	=	1	1	1	=
AES-50	50	3	9	27	36	1	7	7	21	1	4	4	12	1	1	1	2
AES-75	75	3	20	60	80	2	14	28	42	2	8	16	=	1	4	4	8
AES-110	110	4	20	80	100	3	14	42	56	3	8	24	=	1	4	4	12
AES-150	153	4	33	132	165	4	24	96	=	3	15	45	=	1	8	8	24
AE-28-DRY	31	2	9	18	=	1	7	7	14	1	4	4	=	1	1	1	=
AE-50-DRY	50	3	9	27	36	1	7	7	21	1	4	4	=	1	1	1	2
AE-75-DRY	75	3	20	60	=	2	14	28	42	2	8	16	=	1	4	4	8
AE-110-DRY	110	4	20	80	100	3	14	42	56	3	8	24	=	1	4	4	12
AE-150-DRY	153	4	33	132	165	4	24	96	=	3	15	45	=	1	8	8	16
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
TLV-50	56	2	20	40	60	1	14	14	28	1	8	8	=	1	4	4	=
TLV-75	81	3	20	60	80	2	14	28	42	2	8	16	=	2	4	8	=
TLV-110	118	3	33	99	132	3	24	72	=	2	15	30	=	1	8	8	16
TLV-150	155	4	33	132	165	4	24	96	=	3	15	45	=	1	8	8	24
TLV-50PD	56	2	20	40	60	1	14	14	28	1	8	8	=	1	4	4	=
TLV-75PD	81	3	20	60	80	2	14	28	42	2	8	16	=	2	4	8	=
TLV-110PD	118	3	33	99	132	3	24	72	=	2	15	30	=	1	8	8	16
TLV-150PD	155	4	33	132	165	4	24	96	=	3	15	45	=	1	8	8	24
TLV-50FA	56	2	20	40	60	1	14	14	28	1	8	8	=	1	4	4	=
TLV-75FA	81	3	20	60	80	2	14	28	42	2	8	16	=	2	4	8	=
TLV-110FA	118	3	33	99	132	3	24	72	=	2	15	30	=	1	8	8	16
TLV-150FA	155	4	33	132	165	4	24	96	=	3	15	45	=	1	8	8	24
AES-8	6,8	1	4	4	=	0	0	2	=	0	0	0	=	0	0	0	=
AES-12	13	1	5	5	=	1	4	4	=	0	0	1	=	0	0	1	=

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.



## ACCESSORIES

### WIRE BASKETS

- Baskets suitable for the sterilization of all types of clean loads.
- Simple and lightweight handling.
- Suitable for heavy loads.
- Material: AISI-304 stainless steel.



References	CV-75S	CV-75	CV-150S	CV-150M	
Dimensions	External Ø x H mm	370 x 180	370 x 265	470 x 175	470 x 235
	Internal Ø x H mm	360 x 175	360 x 260	460 x 170	460 x 230
For autoclaves with the following chamber volumes	58 L	2	-	-	-
	83 L	3	2	-	-
	124 L	-	-	3	-
	169 L	-	-	4	3

### WIRE BASKET TRAY

- Tray for use in conjunction with wire baskets to collect liquids.
- Material: AISI-304 stainless steel.



References	TR-370	TR-470	
Dimensions	External Ø x H mm	320 x 50	420 x 50
	Internal Ø x H mm	318 x 48	418 x 48
For the following models of wire baskets	CV-75S and CV-75	✓	-
	CV-150S and CV-150M	-	✓

### UNPERFORATED BASKETS

- Baskets suitable for the sterilization of dirty loads and those at risk of spillage.
- Material: AISI-304 stainless steel.



References	CCI-75S	CCI-75	CCI-150S	CCI-150M	
Dimensions	External Ø x H mm	370 x 180	370 x 265	470 x 190	470 x 235
	Internal Ø x H mm	360 x 175	360 x 260	460 x 185	460 x 230
For autoclaves with the following chamber volumes	58 L	2	1	-	-
	83 L	3	2	-	-
	124 L	-	-	3	2
	169 L	-	-	4	3

### SCHIMMELBUSCH DRUM

- Drum suitable for the sterilization of instruments and biohazardous loads.
- Material: AISI-304 stainless steel.



References	TBE-34x24	TBE-48x24	
Dimensions	External Ø x H mm	340 x 240	480 x 240
	Internal Ø x H mm	330 x 230	470 x 230
For autoclaves with the following chamber volumes	58 L	1	-
	83 L	2	-
	124 L	-	2
	169 L	-	3

## HEIGHT ADJUSTABLE TRAY SUPPORT

- For sterilization of instruments, small bags and other small objects that must be placed straight up.
- Material: AISI-304 stainless steel.



References	SRA-R-400	SRA-R-500	
External dimensions Ø x H mm	350 x 180	450 x 180	
Maximum number of trays/support	4	4	
Trays	References	TRAY-SRA-R-400	TRAY-SRA-R-500
	Dimensions Ø x H mm	340 x 20	440 x 20
For autoclaves with the following chamber volumes	58 L	2	-
	83 L	3	-
	124 L	-	3
	169 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.

## FLEXIBLE PROBE



- TLV-S, TLV-FA and TLV-PD Series autoclaves can be equipped with a total of two flexible temperature probes. All TLV-FA models come equipped with one flexible probe.
- After installing this accessory, the temperature regulation of the sterilization cycle can be controlled either through the temperature probe of the main chamber or by using the flexible temperature probe.
- The use of the flexible probe is particularly beneficial for processes involving the sterilization of large volumes of liquids, as the process is regulated by the temperature reached at the center of the liquid sample, ensuring proper sterilization of the load.
- Additionally, since there is a significant time lapse between the temperature change of the chamber and the temperature change of a liquid load, installing this accessory significantly reduces the risk of burns for operators. This is because it avoids the handling of loads at high temperatures without the operator's knowledge and reduces the risk of spillage of hot liquids due to the *boilover* effect.
- Must be installed at our factory.

References: PT-2-TLV (TLV-S Series & TLV-FA Series) and PT-2-TLV-PD (TLV-PD Series)



## ACCESSORIES

### CONTROLLER ADAPTATION FOR FDA COMPLIANCE



- Controller adaptation in compliance with FDA 21 CFR Part 11. After this adaptation, a set of audit trail functions and security measures are activated to ensure the traceability and integrity of all processes performed in the autoclave.

Reference: GMP/FDA

### RAYPACLOUD LICENCES

- Licence to activate all cloud-based connectivity functions.
- The comfort licence is permanent and the professional licence is renewed annually and complies with FDA 21 CFR Part 11 standards.



References	CLOUD-B	CLOUD-P
Type of licence	Comfort	Professional
Validity of the account	One-off payment for permanent licence	Annual renewal
Free remote support for data cleaning	First year	✓
Free remote support for queries and breakdowns via TeamViewer® and email	First year	✓
Email notifications	Up to 200 per month	Unlimited
Notifications in the controller	Unlimited	Unlimited
Sterilization cycle log	Up to 100 simultaneous records	Unlimited
Audit trail function	-	✓
Real-time data and live cycle	-	✓
Advanced cycle and autoclave programming options	-	✓
Compliance with FDA 21 CFR Part 11: data management and storage	-	✓

### PRIVATE CLOUD SERVER



- The server communicates with the autoclave via the laboratory's local network.
- Automatic backup of all cycle data if RAYPacloud licence is active.

Reference: SERVER

## EMBEDDED THERMAL PRINTER



- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Must be installed at our factory.

Reference: IT/TLV  
Consumable: PAPER-IT for paper.

## EXTERNAL DOT MATRIX PRINTER



- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Connection: RS-232.
- Dimensions (LxDxH): 155x240x135mm.

Reference: ITS  
Consumables: PAPER-ITS for paper and 70934 for ribbon.

## EXTERNAL DOT MATRIX LABEL PRINTER



- Individual labels can be printed with barcodes and identification data for each processed load.
- Connection: RS-232.
- Dimensions (LxDxH): 115x230x175mm.

Reference: ITS-LAB  
Consumables: PAPER-LAB for label paper and 70933 for ink.

## BARCODE SCANNER



- Reads individual labels from each processed load and identifies each batch.
- Easy to use with step-by-step guidance on the autoclave controller.
- Connection: RS-232.
- Dimensions (LxDxH): 115x230x175mm.

Reference: BAR-SCAN



## ACCESSORIES

### INTEGRATED BASKET LIFT SYSTEM



- Stainless steel electric lift system built into the side of the autoclave with swivel arm to help load and unload heavy items up to 30Kg.
- Modern, ergonomic design.
- Push-button operation with opening up to 200°.
- Motor with auto brake system in the event of obstacles or overload.
- Can be factory fitted or retrofitted.

Reference	FIX-LIFT
Dimensions L x D x H mm	1000 x 85 x 2100
Power W	200
Voltage V	200
Frequency Hz	50/60
Weight Kg	40
Maximum load Kg	30
For autoclaves with the following chamber volumes	83 L ✓
	124 L ✓
	169 L ✓

### MOBILE BASKET LIFT SYSTEM



- 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.
- Push-button operation.
- Motor with auto brake system in the event of obstacles or overload.
- Compatible with any autoclave model.

Reference	MOB-LIFT
Dimensions L x D x H mm	420 x 800 x 2200
Power W	200
Voltage V	90 - 250
Frequency Hz	50/60
Weight Kg	70
Maximum load Kg	30

### TRANSPORT TROLLEY



- Auxiliary trolley to aid in the loading and unloading of equipment and containers.
- 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.

Reference: TR-TR

### 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.

- Must be installed at our factory.

Reference: PRENSACLAV

## ECO-EFFICIENT WATER PURIFIER



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

Reference	ECOPUR-500
External dimensions L x D x H mm	220 x 425 x 415
Purity (TDS) ppm	0,0005
Electrical conductivity $\mu$ S	>1
Hardness mmol/L	0,0125

## PACK OF BOWIE-DICK TESTS



- Class B indicator printed with non-toxic inks and laminated.
- Tests for a proper steam penetration in porous loads, recommended for TLV-PD Series autoclaves.
- Box of 20 tests.

Reference: TEST-BD

## PACK OF STERILIZATION TAPE



- Class 1 indicator for steam sterilization. The colour change indicates that the materials have been processed, but this is not a guarantee of a correct sterilization. Additional methods such as biological indicators are required (EN ISO 11138).
- Colour change after 20 minutes at 121°C.
- Pack of 5 rolls of tape 50m x 19mm.

Reference: TEST-CT

## EXTENDED WARRANTY



- RAYPA autoclaves are pieces of industrial machinery and come with a standard 12-month warranty. This standard warranty can be extended to a maximum of three years.

Reference: EW

## IQ/OQ DOCUMENTATION



- For customers requiring a third-party IQ/OQ qualification, we provide model-specific instructions and protocols for performing these qualifications.

Reference: IQ-OQ DOC

## IQ/OQ/PQ QUALIFICATION



- Qualification service subject to geographic availability for customers requiring a comprehensive IQ/OQ/PQ qualification.
- The qualification may include the autoclave, software and RAYPAcloud.

References: IQ/OQ/PQ, IQ/OQ SW, IQ/OQ SW-CLOUD

## SET OF ESSENTIAL SPARE PARTS



- A set consisting of a selection of original spare parts, components and consumables procured to fulfill the recommended maintenance plan with the aim of maximizing the lifespan of the equipment. Additionally, the timely procurement of this set benefits from discounted rates, savings on future transportation expenses and minimizes downtime in the event of equipment malfunction.

## ACCESSORIES

### WIRE BASKETS

- Baskets suitable for the sterilization of all types of clean loads.
- Simple and lightweight handling.
- Suitable for heavy loads.
- Material: AISI-304 stainless steel.



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
	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
For autoclaves with the following chamber volumes	33 L	2	-	-	-	-	-	-
	55 L	3	-	-	-	-	-	-
	79 L	-	4	3	2	-	-	-
	115 L	-	6	4	3	-	-	-
	175 L	-	-	-	-	6	4	3

### WIRE BASKET TRAY

- Tray for use in conjunction with wire baskets to collect liquids.
- Material: AISI-304 stainless steel.



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
For the following models of wire baskets	CV-28	✓	-	-
	CV-75S and CV-75	-	✓	-
	CV-150S and CV-150M	-	-	✓

### UNPERFORATED BASKETS

- Baskets suitable for sterilization of dirty loads and those at risk of spillage.
- Material: AISI-304 stainless steel.



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
	Internal Ø x H mm	260 x 180	360 x 175	360 x 260	460 x 185	460 x 230
For autoclaves with the following chamber volumes	33 L	2	-	-	-	-
	55 L	3	-	-	-	-
	79 L	-	3	2	-	-
	115 L	-	4	3	-	-
	175 L	-	-	-	4	3

## SCHIMMELBUSCH DRUM

- Suitable for sterilization of instruments and biohazardous loads.
- Material: AISI-304 stainless steel.



References		TBE-24x16	TBE-34x24	TBE-48x24
Dimensions	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
For autoclaves with the following chamber volumes	33 L	2	-	-
	55 L	4	-	-
	79 L	-	2	-
	115 L	-	3	-
	175 L	-	-	3

## STANDARD CYLINDERS

- Suitable for sterilizing pipette tips and other small consumables.
- Material: AISI-304 stainless steel.



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
	Internal Ø x H mm	60 x 250	60 x 390	90 x 240	130 x 340
For autoclaves with the following chamber volumes	33 L	11	11	6	6
	55 L	22	11	12	12
	79 L	42	21	20	10
	115 L	63	42	30	20
	175 L	90	30	51	34

## CYLINDERS WITH BASKET

- Suitable for sterilization of Petri dishes with a diameter of 80 or 120mm.
- Material: AISI-304 stainless steel.



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 of dishes/cylinder	10	18	10	18
	Diameter Ø mm	80	80	120	120
For autoclaves with the following chamber volumes	33 L	4	4	2	2
	55 L	8	4	4	2
	79 L	16	8	10	5
	115 L	24	16	15	10
	175 L	28	14	16	8

## ACCESSORIES

### HEIGHT ADJUSTABLE TRAY SUPPORT

- For sterilization of instruments, small bags and other small objects that must be placed straight up.
- Material: AISI-304 stainless steel.



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	
Maximum number of trays/support	4	4	4	
Trays	References	TRAY-SRA-R-300	TRAY-SRA-R-400	TRAY-SRA-R-500
	Dimensions Ø x H mm	240 x 20	340 x 20	440 x 20
	33 L	2	-	-
	55 L	3	-	-
For autoclaves with the following chamber volumes	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.

### FLEXIBLE PROBE



- After installing this accessory, the temperature regulation of the sterilization cycle can be controlled either through the temperature probe of the main chamber or by using the flexible temperature probe.
- The use of the flexible probe is particularly beneficial for processes involving the sterilization of large volumes of liquids, as the process is regulated by the temperature reached at the center of the liquid sample, ensuring proper sterilization of the load.
- Additionally, since there is a significant time lapse between the temperature change of the chamber and the temperature change of a liquid load, installing this accessory significantly reduces the risk of burns for operators. This is because it avoids the handling of loads at high temperatures without the operator's knowledge and reduces the risk of spillage of hot liquids due to the *boilover* effect.
- Must be installed at our factory.

References: PT-2 (AES Series & AE-DRY Series) and PT-2-B (AE-B Series)



## EMBEDDED THERMAL PRINTER



- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Must be installed at our factory.

References: IT (AES Series and AE-DRY Series) and IT/TS (AE-B Series).  
Consumable: PAPER-IT for paper.

## EXTERNAL DOT MATRIX PRINTER



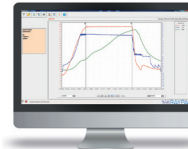
- It prints the program number, cycle number, temperature, time, date and time of each sterilization and error messages.
  - Selectable print frequency between 10 and 240 seconds.
  - Connection: RS-232
  - Dimensions (LxDxH): 155x240x135 mm.
  - AE-B Series models require a special factory adaptation.
- Reference: ITS  
Consumables: PAPER-ITS for paper and 70934 for ribbon.

## SW7000 SOFTWARE



- Communication software between the equipment and the PC for display and recording of each cycle. Cycles can also be printed or exported to Excel.
  - PC connection via RS-232 connection.
  - Supplied with RS-232 cable, USB memory stick with installation software and drivers, and RS-232 to USB adapter
  - Compatible with autoclaves in the AES and AE-DRY Series.
- Reference: SW7000

## 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.
  - Supplied with Ethernet cable, USB memory stick with installation software and drivers, and Ethernet to USB adapter.
  - Compatible with AE-B Series autoclaves.
- Reference: SW8000

## PACK OF BOWIE-DICK TESTS



- Class B indicator printed with non-toxic inks and laminated.
  - Tests for a proper steam penetration in porous loads.
  - Recommended for AE-B Series autoclaves.
  - Box of 20 tests.
- Reference: TEST-BD

## PACK OF STERILIZATION TAPE



- Class 1 indicator for steam sterilization. The colour change indicates that the materials have been processed, but this is not a guarantee of a correct sterilization. Additional methods such as biological indicators are required (EN ISO 11138).
  - Colour change after 20 minutes at 121°C.
  - Pack of 5 rolls of tape 50m x 19mm.
- Reference: TEST-CT

## ACCESSORIES

### INTEGRATED BASKET LIFT SYSTEM



- Stainless steel electric lift system built into the side of the autoclave with swivel arm to help load and unload heavy items. The device is built into the side of the autoclave. Push-button operation with opening up to 200°.
- Motor with auto brake system in the event of obstacles or overload.
- Available in two models: the standard lift system and reinforced lift system.
- It can be factory fitted or retrofitted.

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
For autoclaves with the following chamber volumes	79 L	✓
	115 L	✓
	175 L	✓

### MOBILE BASKET LIFT SYSTEM



- 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.
- Push-button operation.
- Motor with auto brake system in the event of obstacles or overload.
- Compatible with any autoclave model.

Reference	MOB-LIFT
Dimensions L x D x H mm	420 x 800 x 2200
Power W	200
Voltage V	90 - 250
Frequency Hz	50/60
Weight Kg	70
Maximum load Kg	30

### PREMIUM CASTERS



- Although all AES Series and AE-DRY Series autoclaves come equipped with casters, this accessory provides the option of upgrading to stronger, higher quality casters with brakes. AE-B Series autoclaves are equipped with casters as a standard feature.
- For more convenient equipment mobility.
- Must be installed at our factory.  
Reference: 4WHBR

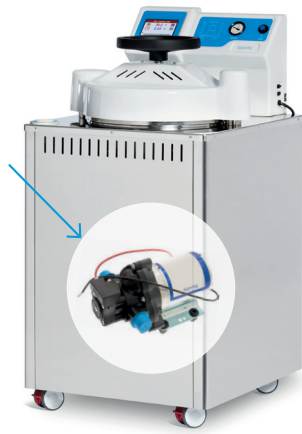
### TRANSPORT TROLLEY



- Auxiliary trolley to aid in the loading and unloading of equipment and containers.
- 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.  
Reference: TR-TR

## ACCESSORIES

### AUTOMATIC WATER FILLING



- Water pump for automating the supply of purified water to the integrated water tank of the autoclave.
- Compatible with installations with a purified water network or a purified water tank, or installations with a non-purified water network. In the latter case, the kit must be supplied with two other accessories: water purifier (ECOPUR-500) and purified water tank (TANK-KLL).
- Not compatible with AES Series autoclaves.
- Must be installed at our factory.

References: KLL (Series AE-DRY) and KLL-B (Series AE-B)

### 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 use of this accessory requires the joint installation of the TANK-KLL external tank and the KLL automatic water filling system corresponding to each model.
- Not compatible with AES Series autoclaves.

Reference	ECOPUR-500
External dimensions L x D x H mm	220 x 425 x 415
Purity (TDS) ppm	0,0005
Electrical conductivity $\mu$ S	>1
Hardness mmol/L	0,0125

### PURIFIED WATER TANK



- 25L tank for storing purified water for use with the water purifier and the automatic water filling kit.
- It includes an automatic filling system with water level control.
- Compatible with AE-DRY and AE-B Series autoclaves.

Reference: TANK-KLL

### CONDENSATES TANK



- Tank with tap to collect condensates during the purging phase and also collect water during cleaning of the sterilization chamber. For use in situations in which easy drainage is not available.
- Compatible with AES Series autoclaves.

Reference: TANK-AE

## CABLE GLAND

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- Installation of a Ø2mm or Ø4mm cable gland to provide access to as many as eight external temperature probes for calibration and validation procedures.
- Must be installed at our factory.  
Reference: PRENSACLAV

## EXTERNAL TEMPERATURE PROBE ADAPTER

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- 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.
- Must be installed at our factory.  
Reference: EXT-TP

## TEMPERATURE DATA LOGGER

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- A stainless steel AISI 316L disk-format temperature recorder, complete with a connection base and accompanying software.
- Recommended for autoclave validation procedures.
- Available in various sizes.  
Reference: VAL-DL

## EXTENDED WARRANTY

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- RAYPA autoclaves are pieces of industrial machinery and come with a standard 12-month warranty. This standard warranty can be extended to a maximum of three years.  
Reference: EW

## IQ/OQ DOCUMENTATION

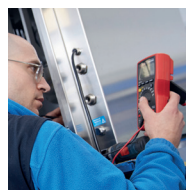
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- For customers requiring a third-party IQ/OQ qualification, we provide model-specific instructions and protocols for performing these qualifications.  
Reference: IQ-OQ DOC

## IQ/OQ/PQ QUALIFICATION

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- Qualification service subject to geographic availability for customers requiring a comprehensive IQ/OQ/PQ qualification.  
Reference: IQ/OQ/PQ

## SET OF ESSENTIAL SPARE PARTS

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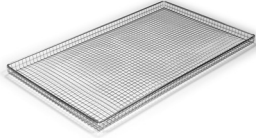


- A set consisting of a selection of original spare parts, components and consumables procured to fulfill the recommended maintenance plan with the aim of maximizing the lifespan of the equipment. Additionally, the timely procurement of this set benefits from discounted rates, savings on future transportation expenses and minimizes downtime in the event of equipment malfunction.

## ACCESSORIES

### WIRE TRAYS

- Trays designed for use with a tray support, suitable for sterilizing all types of loads.
- Material: AISI-304 stainless steel.

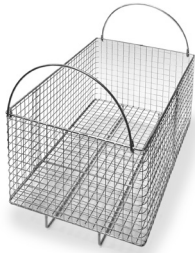


References	BAH-21	BAH-50-B	BAH-75-B
External dimensions L x D mm	190 x 350	315 x 330	315 x 530
For autoclaves with the following chamber volumes	22 L	4*	-
	55 L	-	5
	79 L	-	-
			5

\*Special tray rack compatible with up to five trays available on request.

### HORIZONTAL WIRE BASKETS

- Baskets recommended for the sterilization of heavy and bulky loads.
- Material: AISI-304 stainless steel.



References	RB-AH-21	RB-AHS-50	RB-AHS-75
External dimensions L x D x H mm	170 x 340 x 180	324 x 360 x 235	324 x 560 x 235
For autoclaves with the following chamber volumes	22 L	1	-
	55 L	-	1
	79 L	-	-
			1

### VERTICAL WIRE BASKETS

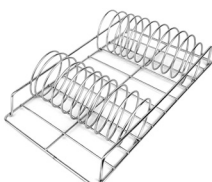
- Baskets suitable for the sterilization of all types of clean loads.
- Easier and lighter handling. Additionally, it allows for handling heavier loads.
- Material: AISI-304 stainless steel.



References	CV-8	CV-12	
Dimensions	External Ø x H mm	200 x 150	220 x 200
	Internal Ø x H mm	190 x 145	210 x 195
For autoclaves with the following chamber volumes	8 L	1	-
	15 L	-	1

### BAG HOLDER

- Accessory recommended for the sterilization of wrapped objects and thin bags such as pouches.
- Material: AISI-304 stainless steel.



References	BAP-21	BAP-75	
External dimensions L x D x H mm	400 x 180 x 80	300 x 180 x 95	
Available positions	20	20	
For autoclaves with the following chamber volumes	22 L	1	-
	55 L	-	4
	79 L	-	6

\*The number of positions and size of this accessory can be customized based on the needs of each customer. For more information, please contact us.

## CONTAINERS WITH FILTER ON THE LID

- Containers recommended for the sterilization of instruments and biohazardous loads.
- Material: AISI-304 stainless steel.



References	FC-215	FC-331	FC-338	
Dimensions	External L x D x H mm	285 x 185 x 65	300 x 300 x 110	300 x 300 x 85
	Internal L x D x H mm	275 x 175 x 55	290 x 290 x 100	290 x 290 x 75
For autoclaves with the following chamber volumes	22 L	2	-	-
	55 L	6	1	2
	79 L	9	2	4



## ACCESSORIES

### FLEXIBLE PROBE



- After installing this accessory, the temperature regulation of the sterilization cycle can be controlled either through the temperature probe of the main chamber or by using the flexible temperature probe.
- The use of the flexible probe is particularly beneficial for processes involving the sterilization of large volumes of liquids, as the process is regulated by the temperature reached at the center of the liquid sample, ensuring proper sterilization of the load.
- Additionally, since there is a significant time lapse between the temperature change of the chamber and the temperature change of a liquid load, installing this accessory significantly reduces the risk of burns for operators. This is because it avoids the handling of loads at high temperatures without the operator's knowledge and reduces the risk of spillage of hot liquids due to the *boilover* effect.
- Models AES-8 and AH-21-N2 cannot be equipped with this accessory.
- Must be installed at our factory.

References: PT-2 (AVS-N Series), PT-2-AH (AHS-N Series & AHS-DRY Series) and PT-2-B-AH (AHS-B Series)

### EMBEDDED THERMAL PRINTER



- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Models AES-8 and AH-21-N2 cannot be equipped with this accessory.
- Must be installed at our factory.

References: IT (AVS-N, AHS-N and AHS-DRY series) and IT/TS (AHS-B series).  
Consumable: PAPER-IT for paper.

### EXTERNAL DOT MATRIX PRINTER



- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Connection: RS-232.
- Dimensions (LxDxH): 155x240x135mm.
- AHS-B Series models require a special factory adaptation.
- Models AES-8 and AH-21-N2 cannot be equipped with this accessory.

Reference: ITS  
Consumables: PAPER-ITS for paper and 70934 for ribbon.



## SW7000 SOFTWARE

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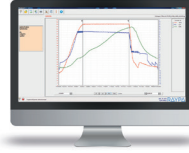
- Communication software between the equipment and the PC for display and recording of each cycle. Cycles can also be printed or exported to Excel.
- PC connection via RS-232 connection.
- Supplied with RS-232 cable, USB memory stick with installation software and drivers, and RS-232 to USB adapter.
- Compatible with AVS-N, AHS-N and AHS-DRY Series autoclaves.



Reference: SW7000

## SW8000 SOFTWARE

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- 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.
- Supplied with Ethernet cable, USB memory stick with installation software and drivers, and Ethernet to USB adapter.
- Compatible with AHS-B Series autoclaves.



Reference: SW8000

## PACK OF BOWIE-DICK TESTS

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- Class B indicator printed with non-toxic inks and laminated.
- Tests for a proper steam penetration in porous loads.
- Recommended for AHS-B Series autoclaves.
- Box of 20 tests.

Reference: TEST-BD

## PACK OF STERILIZATION TAPE

---



- Class 1 indicator for steam sterilization. The colour change indicates that the materials have been processed, but this is not a guarantee of a correct sterilization. Additional methods such as biological indicators are required (EN ISO 11138).
- Colour change after 20 minutes at 121°C.
- Pack of 5 rolls of tape 50m x 19mm.

Reference: TEST-CT

## TRANSPORT TROLLEY

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- Auxiliary trolley to aid in the loading and unloading of equipment and containers.
- 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.

Reference: TR-TR

## AUTOClave TABLE

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- Stainless steel table with four casters (with brakes on two).
- Designed to accommodate any model of benchtop autoclave, including larger models.
- Dimensions (LxDxH): 800x900x800mm.

Reference: TABLE-AHS

## ACCESSORIES

### AUTOMATIC WATER FILLING



- Water pump for automating the supply of purified water to the integrated water tank of the autoclave.
- Compatible with installations with a purified water network or a purified water tank, or installations with a non-purified water network. In the latter case, the kit must be supplied with two other accessories: water purifier (ECOPUR-500) and purified water tank (TANK-KLL).
- Not compatible with AVS-N or AHS-N Series autoclaves.
- Must be installed at our factory.

References: KLL-21 (models AH-21-DRY & AH-21-B) and KLL-AHS (models AHS-50-DRY, AHS-75-DRY, AHS-50-B & AHS-75-B)

### 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 use of this accessory requires the joint installation of the TANK-KLL external tank and the KLL automatic water filling system corresponding to each model.
- Recommended for AHS-DRY Series and AHS-B Series autoclaves.

Reference: ECOPUR-500

Reference	ECOPUR-500
External dimensions L x D x H mm	220 x 425 x 415
Purity (TDS) ppm	0,0005
Electrical conductivity $\mu$ S	>1
Hardness mmol/L	0,0125

### PURIFIED WATER TANK



- 25L tank for storing purified water for use with the water purifier and the automatic water filling kit.
- It includes an automatic filling system with water level control.
- Compatible with AHS-DRY and AHS-B Series autoclaves.

Reference: TANK-KLL

### WATER DISTILLER



- Forced air water distiller with stainless steel interior, 4L capacity and 1,5L/h distillation volume.
- Recommended for small autoclaves of the AVS-N and AHS-N Series.

Reference: DEM-4

## CABLE GLAND

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- Installation of a Ø2mm or Ø4mm cable gland to provide access to as many as eight external temperature probes for calibration and validation procedures.
- Must be installed at our factory.

Reference: PRENSACLAV

## TEMPERATURE DATA LOGGER

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- A stainless steel AISI 316L disk-format temperature recorder, complete with a connection base and accompanying software.
- Recommended for autoclave validation procedures.
- Available in various sizes.

Reference: VAL-DL

## EXTENDED WARRANTY

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- RAYPA autoclaves are pieces of industrial machinery and come with a standard 12-month warranty. This standard warranty can be extended to a maximum of three years.

Reference: EW

## IQ/OQ DOCUMENTATION

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- For customers requiring a third-party IQ/OQ qualification, we provide model-specific instructions and protocols for performing these qualifications.

Reference: IQ-OQ DOC

## IQ/OQ/PQ QUALIFICATION

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- Qualification service subject to geographic availability for customers requiring a comprehensive IQ/OQ/PQ qualification.

Reference: IQ/OQ/PQ

## SET OF ESSENTIAL SPARE PARTS

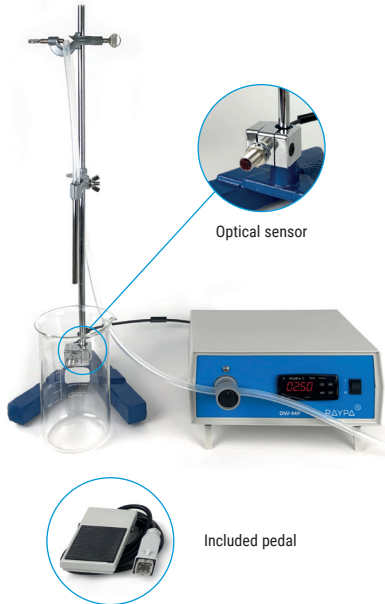
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- A set consisting of a selection of original spare parts, components and consumables procured to fulfill the recommended maintenance plan with the aim of maximizing the lifespan of the equipment. Additionally, the timely procurement of this set benefits from discounted rates, savings on future transportation expenses and minimizes downtime in the event of equipment malfunction.

## ACCESSORIES

### EXTERNAL DOSING STATION



Optical sensor

Included pedal

- Automation and acceleration of the dispensing phase in repetitive operations involving medium and large volumes.
- To use this accessory for dispensing, the Ø6,4mm dispensing line must be used and the CP-MP air compressor must be pre-installed in the media preparator.
- Depending on the pressure support selected, the dispensing speed in this mode ranges from 65 to 100mL/s.
- The execution of each dispensation can be carried out manually by pressing a pedal or in semi-automatic mode using an optical sensor.

Reference	DW-MP
Resolution sec	0,01
Controller dimensions L x D x H mm	250 x 285 x 100
Power W	75
Voltage V	230
Frequency Hz	50/60

### ECO-EFFICIENT WATER PURIFIER



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

Reference	ECOPUR-500
External dimensions L x D x H mm	220 x 425 x 415
Purity (TDS) ppm	0,0005
Electrical conductivity µS	>1
Hardness mmol/L	0,0125



## ADDITIONAL PERISTALTIC PUMP



- Add a second peristaltic pump to double the flow rate during dispensing. All models include a single peristaltic pump.
- Depending on the combination of the tube size and the number of peristaltic pumps installed, the dosing speed in this mode ranges from 7 to 33mL/s.
- Each dispensation can be executed manually by pressing a pedal or in semi-automatic mode with a delay function.
- This accessory can be installed at any time.

Reference: CAB-2

## DISPENSING LINES



- Silicone dosing tubes 2m in length with press-fit connection at one end and metal nozzle at the other. Diameters available: 3,2; 4; 4,8; 6,4 and 8mm.
- Acquiring additional tubing sets is recommended to increase dispensing speed when dispensing through peristaltic pump, to prevent halting production due to cleaning and to replace worn tubing.
- All media preparators include a standard set of two dosing tubes, Ø6,4mm and Ø8mm (in addition, a Ø4,8mm tube is included with the smallest models).

Reference: TUB-DOSIF

## COMPRESSED AIR SYSTEM



- Air compressor that provides additional pressure support during both cooling and dispensing phases.
- This accessory is required to enable external dispensing controlled through the external dosing station.
- Must be installed at our factory.
- The AE-60-MP, AE-80-MP and AE-100-MP models include this accessory as a standard feature.

Reference: CP-MP

## AUTOMATIC WATER FILLING



- Water pump for automating the supply of the sterilization chamber with purified water. The filling of the inner vessel will not be automated.
- Compatible with installations with a purified water network or a purified water tank, or installations with a non-purified water network. In the latter case, the kit must be supplied with two other accessories: water purifier (ECOPUR-500) and purified water tank (TANK-KLL).
- Must be installed at our factory.

Reference: KLL-MP

## ACCESSORIES

### TABLE FOR MEDIA PREPARATORS



- Stainless steel table with four casters (with brakes on two).
- AE-20-MP-10L and AE-20-MP models include this accessory as a standard feature.
- Dimensions (LxDxH): 700x700x600mm.  
Reference: TABLE-MP

### TRANSPORT TROLLEY



- Auxiliary trolley to aid in the loading and unloading of equipment and containers.
- 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.  
Reference: TR-TR

### EMBEDDED THERMAL PRINTER



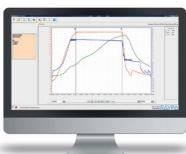
- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Must be installed at our factory.  
Reference: IT/TS  
Consumable: PAPER-IT for paper.

### EXTERNAL DOT MATRIX PRINTER



- It prints the program number, cycle number, temperature, duration, date and time of each sterilization, and error messages.
- Selectable print frequency between 10 and 240 seconds.
- Connection: RS-232.
- Dimensions (LxDxH): 155x240x135mm.
- A factory special adaptation is required.  
Reference: ITS  
Consumables: PAPER-ITS for paper and 70934 for ribbon.

### SW8000 SOFTWARE



- Communication software between the equipment and a 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.
- Supplied with Ethernet cable, USB memory stick with installation software and drivers, and Ethernet to USB adapter.  
Reference: SW8000

### EXTERNAL PROBE ADAPTER



- External adapter for continuous validation processes that provides access to an external probe (Ø3-5mm) to obtain temperature readings of the culture medium that are independent of the readings taken by the unit's flexible probe.
- The port is located on the door of the media preparator.  
Reference: CAP-MP

## EXTERNAL PROBE FOR QUALIFICATION



- Temperature sensor of specific length and width to be able to perform the qualification of media preparators. The joint installation of the external probe adapter CAP-MP is required.

Reference: TP-VAL-MP

## TEMPERATURE DATA LOGGER



- A stainless steel AISI 316L disk-format temperature recorder, complete with a connection base and accompanying software.
- Recommended for users that need to validate the chamber temperature of media preparators.
- Available in various sizes.

Reference: VAL-DL

## EXTENDED WARRANTY



- RAYPA media preparators are pieces of industrial machinery and come with a standard 12-month warranty. This standard warranty can be extended to a maximum of three years.

Reference: EW

## IQ/OQ DOCUMENTATION



- For customers requiring a third-party IQ/OQ qualification, we provide model-specific instructions and protocols for performing these qualifications.

Reference: IQ-OQ DOC

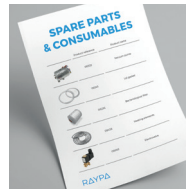
## IQ/OQ/PQ QUALIFICATION



- Qualification service subject to geographic availability for customers requiring a comprehensive IQ/OQ/PQ qualification.

Reference: IQ/OQ/PQ

## SET OF ESSENTIAL SPARE PARTS



- A set consisting of a selection of original spare parts, components and consumables procured to fulfill the recommended maintenance plan with the aim of maximizing the lifespan of the equipment. Additionally, the timely procurement of this set benefits from discounted rates, savings on future transportation expenses and minimizes downtime in the event of equipment malfunction.

## ACCESSORIES

### FUMES NEUTRALIZATION SYSTEM



#### Features

- Closed gas exhaust system with active aspiration.
- Manually adjustable vacuum pump with acoustic insulation and an adjustable absolute vacuum of 10-800mBar.
- High-performance Graham-type water cooling circuit that condenses the fumes produced during digestion.
- The condensate flask stores the vapors produced during digestion in liquid form.
- The washing solution flask neutralizes acidic or basic condensates.
- The adsorption flask filters and neutralizes fumes using an activated charcoal filter.
- External building made of AISI-304 stainless steel painted with epoxy resin. Borosilicate 3.3 glassware. Cristalflex®, silicone and Teflon® tubes. PPS, EPDM and FPM pump. Teflon® gasket set.
- Supplied with all necessary components, including flasks, gaskets, supports, activated charcoal and hoses.

#### Specifications

Reference	SCRUBBER	
Included processes	Aspiration	Adjustable vacuum pump
	Condensation	Water circulation through cooling circuit
	Neutralization	Alkaline and acidic solution washing
	Filtration and adsorption	Activated charcoal
Performance data	Maximum vacuum mBar	10
	Water consumption as a function of fumes produced L/min	3 - 5
Installation requirements	Dimensions L x D x H mm	375 x 310 x 540
	Weight Kg	13
	Power W	100
	Voltage* V	230
	Frequency Hz	50/60
	Ambient temperature °C	5 - 40
Ambient humidity %	30 - 80	

\*Other voltages and electrical configurations available on request.

## DIGESTION TUBES

- Glass digestion tubes for samples.



References	TB-100DNP	TB-250DNP	TB-250DNP-R*
Recommended sample volume mL	100	250	250
Material	glass	glass	reinforced glass
Dimensions Ø x H mm	26 x 300	42 x 300	42 x 300
Maximum number of sample tubes per model	MBC-6 TS	-	6
	MBC-12 TS	-	12
	MBC-20 TS	-	20
	MBCM-12 TS	12	-
	MBCM-24 TS	24	-
	MBCM-40 TS	40	-

\*Reinforced glass tubes for analysis of waste water and slurry.



## ACCESSORIES

### KIT FOR AUTOMATIC TITRATION



#### Features

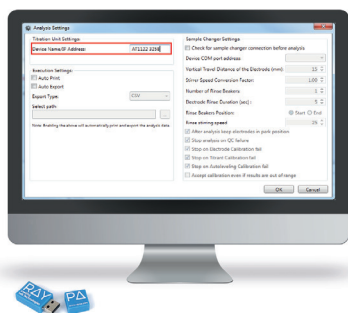
- Potentiometric titrator with colour display validated for use with Kjeldahl distillers.
- Features several titration programs and comes pre-installed with the most common distillation programs specific to DNP Series distillers.
- Results expressed as total nitrogen and protein percentage.
- Specific menus for maintenance, pH calibration, titrator calibration and automatic calibration of burettes.
- Equipped with two USB ports for copying analysis tests, extracting data and connecting a printer, keyboard or mouse.
- Equipped with user admin control and Ethernet port for optional software connection.
- Supplied with all necessary components, including reaction beakers, adapters, stirring bars, syringes and hoses.

#### Specifications

Reference		KIT-TITRA-RAY
Performance data	Resolution pH; mV	0,001; 0,1
	Reproducibility pH	±0,001
Installation requirements	Dimensions L x D x H mm	220 x 400 x 360
	Weight Kg	4
	Power W	80
	Voltage* V	230
	Frequency Hz	50/60
	Ambient temperature °C	15 - 35
	Ambient humidity %	20 - 80

\*Other voltages and electrical configurations available on request.

### EXTERNAL TITRATOR SOFTWARE

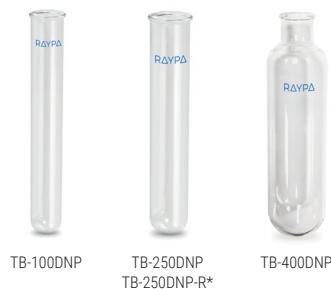


- Communication software between the titrator and a PC for display, management and export of real-time data directly from the workstation.
- An Ethernet connection cable is included with the purchase of this accessory.

Reference: SOFT-TITRA

## DISTILLATION TUBES

- Glass distillation tubes for samples.



TB-100DNP

TB-250DNP  
TB-250DNP-R\*

TB-400DNP

References	TB-100DNP	TB-250DNP	TB-250DNP-R*	TB-400DNP
Dimensions Ø x H mm	26 x 300	42 x 300	42 x 300	80 x 300
Volume mL	180	325	325	1200
Recommended sample volume mL	100	250	250	400
Material	glass	glass	reinforced glass	glass

\*Reinforced distillation tube for analysis of waste water and slurry.

## RACK FOR DISTILLATION TUBES

- Rack for distillation tubes.
- Material: AISI-304 stainless steel.



References	GRA-1220	GRA-640	GRA-680
Dimensions L x D x H mm	122 x 177 x 150	122 x 177 x 150	209 x 308 x 172
Positions	12	6	6
Compatible distillation tubes	TB-100DNP	TB-250DNP & TB-250DNP-R	TB-80300

## REACTION BEAKER



- Glass beaker for collecting distillates.

Reference	VR-75300
Dimensions Ø x H mm	80 x 95
Material	glass

## ADAPTATION FOR BÜCHI® TUBES



- Adaptation to use Büchi® tubes on DNP Series Kjeldahl distillers.

Reference: ADAP-BU





## DISTILLATION TUBE RACK

- Rack with six positions for distillation tubes.
- Material: AISI-304 stainless steel.



References	GRA-640	GRA-680
Dimensions L x D x H mm	122 x 177 x 150	209 x 308 x 172
Positions	6	6
Compatible distillation tubes	TB-100ENO	TB-250ENO

## DISTILLATION TUBES

- Glass distillation tubes for samples.



TB-100ENO



TB-250ENO

References	TB-100ENO	TB-250ENO
Dimensions $\emptyset$ x H mm	42 x 300	80 x 300
Volume mL	325	1200
Recommended sample volume mL	100	250
Material	glass	glass

## VOLUMETRIC FLASKS

- Glass volumetric flasks for collecting distillates.



References	MA-100	MA-200	MA-250
Dimensions $\emptyset$ x H mm	61 x 170	75 x 200	80 x 220
Maximum sample volume mL	100	200	250
Material	glass	glass	glass

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