AH/AHS-DRY Range
Automatic autoclaves with drying

AH-21 L

AHS-50 DRY

AH/AHS-DRY Range

S Class: Suitable to sterilize: unwrapped and wrapped solids, small porous objects and hollow ware type B (slightly deep and broad cavities), glass, plastic, metallic objects, waste bags.
AH-21 L is suitable to sterilize liquids.

Operating Principal

AH/AHS-DRY table-top range provides a single solution for the multiples sterilization needs on laboratories including instruments, hollowware elements, glassware and other laboratory items that need a final drying to avoid contamination.

Load has to be placed into the vessel's baskets and, after automatic filling with distilled water, device starts to heat up and purge until set temperature is reached. In case of solid objects, discharge is automatically 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	Drying time (min.)
P0	115	0,6	60	SOLIDOS-1	12
P1	121	1,1	30	SOLIDOS-1	25
P2	133	2,1	20	SOLIDOS-1	30
P3	121	1,1	20	LIQUIDOS-1	-

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

- Sterilization temperature
- Sterilization time
- Drying time
- Heart probe selection

AH/AHS-DRY Range

Water Filling – Pure water for sterilization can be added manually into the water pan. Automatic filling is also available by connecting the device to pure mains water.

Sterilization Process

Pre-vacuum and filling stage – Integrated vacuum pump for initial pre-vacuum and subsequent automatic water filling.

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 and drying stage – In solid program, discharge is automatically forced during cooling stage to reduce the cycle time. Then, integrated heating jacket together with pre-vacuum pulses is activated for a fast and intense drying.

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 sensor and water level detector. 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
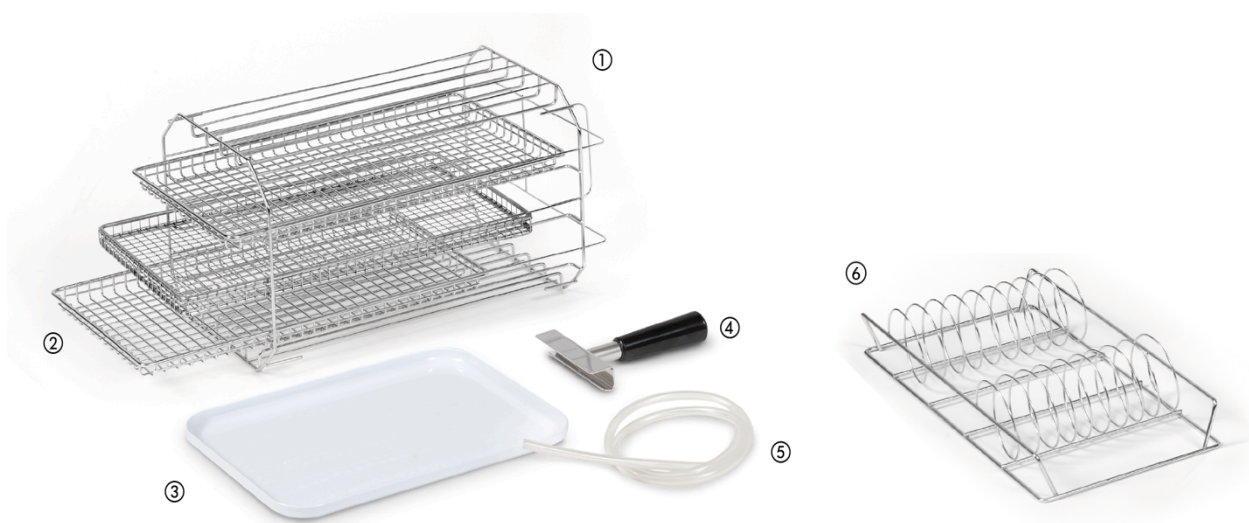
Communications and Documentation

RS-232 Port – For live monitoring of sterilization cycle directly to PC. It is needed the customized software SW7000 (optional).

Integrated Printer (optional) – For quality printouts after each cycle. Intervals can be adjustable. Printer has to be requested before ordering.
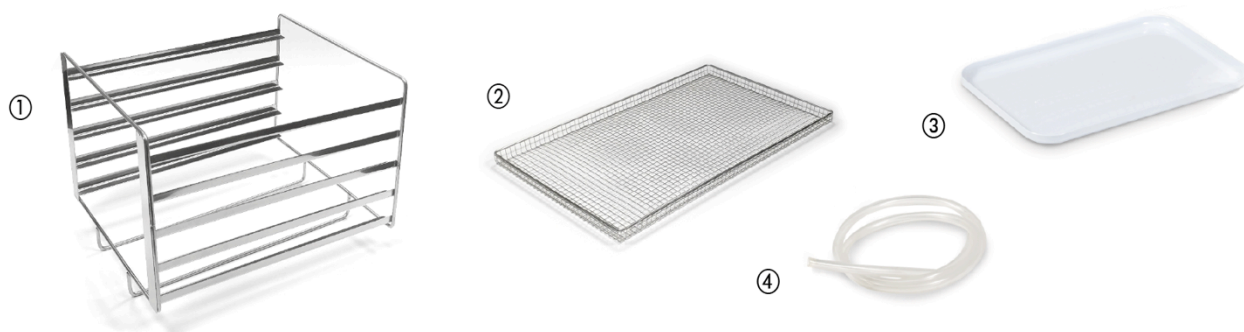
AH/AHS-DRY Range

Components supplied with the autoclave AH-21 L
1. Tray support for four trays.
2. Three stainless steel perforated trays. Ref. BAH-21
3. Auxiliary tray.
4. A holding clamp.
5. 1.5 m flexible tube to drain condensation reservoir.
6. Bag support. Ref. BAP-21

Components supplied with the autoclaves AHS-50/75 DRY
1. Support for five trays.
2. Two perforated trays made of stainless steel. Ref. BAH-B
3. Auxiliary tray.
4. 1.5 m flexible tube to drain condensation reservoir.

AH/AHS-DRY Range

Technical Data

Referencia Reference Référence	Volumen total / útil Total volume / usable Volume total / utile	Ø x H mm	L x D x H mm	Temp. °C	Presión máx. bar Max. pressure bar Pression max. bar	W	Kg	Rango tiempo min. Time range min. Rang de temps min.	Depósito H_2O l Container H_2O l Réservoir H_2O l
AH-21-L	22/21	250 x 430	560 x 660 x 425	100-134	2,1	2000	55	1' - 250'	6
AHS-50 DRY	55/50	400 x 400	805 x 805 x 650	100-134	2,1	2800	125	1' - 250'	15
AHS-75 DRY	79/75	400 x 600	805 x 1005 x 650	100-134	2,1	3200	140	1' - 250'	20

AHS-50/75 models with closing wheel

Electrical connection for equipment of 21, 50 and 75 L: 230V (1P + N), 50/60 Hz.
Possibility of modifying the voltage on request.

Accessories

BANDEJAS PERFORADAS EN ACERO INOXIDABLE / STAINLESS STEEL PERFORATED TRAYS / PLATEAUX PERFORÉS EN ACIER INOXYDABLE

Para autoclave de For autoclave of Pour autoclave de	Referencia Reference Référence	EXTERIOR L x D mm	Nº bandejas / autoclave No. shelves / autoclave Nº plateau / autoclave
21 L	**BAH-21***	350 x 190	5
50 L	**BAH-50 B***	330 x 315	5
75 L	**BAH-75 B***	530 x 315	5

* Para autoclaves horizontales / For horizontal autoclaves / Pour autoclaves horizontaux

SOPORTE PORTABOLSAS / BAG SUPPORT / SUPPORT POUR LES SACHETS STÉRILISATION

Referencia Reference Référence	Capacidad ud. Capacity ut. Capacité un.	L x D x H mm
BAP-21*	8	400 x 180 x 80

* Para autoclaves horizontales 21L / For horizontal autoclaves 21L / Pour autoclaves horizontaux 21L

PROGRAMA SW7000

• Conexión PC vía RS232.

Referencia: **SW7000***

SOFTWARE SW7000

• PC connection for RS232.

Reference: **SW7000***

LOGICIEL SW7000

• Connexion RS232 pour PC.

Référence: **SW7000***

AH/AHS-DRY Range

Accessories

SONDA "CORAZÓN" PT-100

• Recomendada para esterilizaciones de líquidos en frascos de 1 litro o más.
• El control se efectúa desde el microprocesador.
• Este accesorio debe ser instalado en fábrica.

Referencias: **PT-2** y **PT-2-AH-21** para autoclave **AH-21**

FLEXIBLE "HEART" PROBE PT-100

• Recommended for sterilizing liquids in flasks of 1 litre or bigger.
• The control is done from the microprocessor. This accessory should be installed in factory.

References: **PT-2** and **PT-2-AH-21** for **AH-21** autoclave

SONDE PT-100 FLEXIBLE

• Recommandée pour la stérilisation de liquides en flacons de 1litre ou plus.
• Le contrôle se fait depuis le microprocesseur.
• Cet accessoire doit être installé en usine.

Références: **PT-2** et **PT-2-AH-21** pour autoclave **AH-21**

PRENSAESTOPA 1/2"

• Para la calibración de autoclaves.

Referencias:
PRENSACLAV
(8 taladros Ø 2mm)
PRENSACLAV2
(8 taladros Ø 4mm)

CABLE GLAND 1/2"

• For autoclave calibration.

References:
PRENSACLAV
(8 holes Ø 2mm)
PRENSACLAV2
(8 holes Ø 4mm)

PRESSE-ÉTOUPE 1/2"

• Pour le calibrage de l'autoclave.

Références:
PRENSACLAV
(8 des trous Ø 2mm)
PRENSACLAV2
(8 des trous Ø 4mm)

IMPRESORA TÉRMICA INTEGRADA

• Imprime el número de programa, número de ciclo, temperatura, tiempo, fecha y hora de cada esterilización.
• Los mensajes de error quedan asimismo reflejados.
• Debe ser instalada en fábrica.

Referencias:
IT: Pantalla LCD
IT/TS: Pantalla táctil

THERMAL PAPER PRINTER

• It prints program number, cycle number, temperature, date and hour of the run.
• Error messages are also printed.
• To be installed in our facilities.

References:
IT: LCD Screen
IT/TS: Touch Screen

IMPRIMANTE À PAPIER THERMIQUE

• Imprime le n° du programme, número de cycle, la température, la date et heure de chaque stérilisation.
• Les messages d'erreur sont aussi montrés.
• Cet accessoire doit être installé en usine.

Références:
IT: Ecran LCD
IT/TS: Ecran tactil

IMPRESORA DE SOBREMESA

• Imprime el números de programa, números de ciclo, temperatura, tiempo, fecha y hora de cada esterilización.
• Los mensajes de error quedan asimismo reflejados.
• Incorpora conexión RS232

Referencia: **ITS**

TABLE TOP PRINTER

• It prints program number, cycle number, temperature, date and hour of the run.
• Error messages are also printed.
• It includes RS232 connection.

Reference: **ITS**

IMPRIMANTE DE TABLE

• Imprime le numéro de programme, numéro de cycle, température, date et heure de chaque stérilisation.
• Les messages d'erreur sont aussi sauvegardés.
• Port de connexion RS232

Référence: **ITS**