

AHS-B SERIES - INSTALLATION GUIDE

Information to consider before installing your RAYPA autoclave.

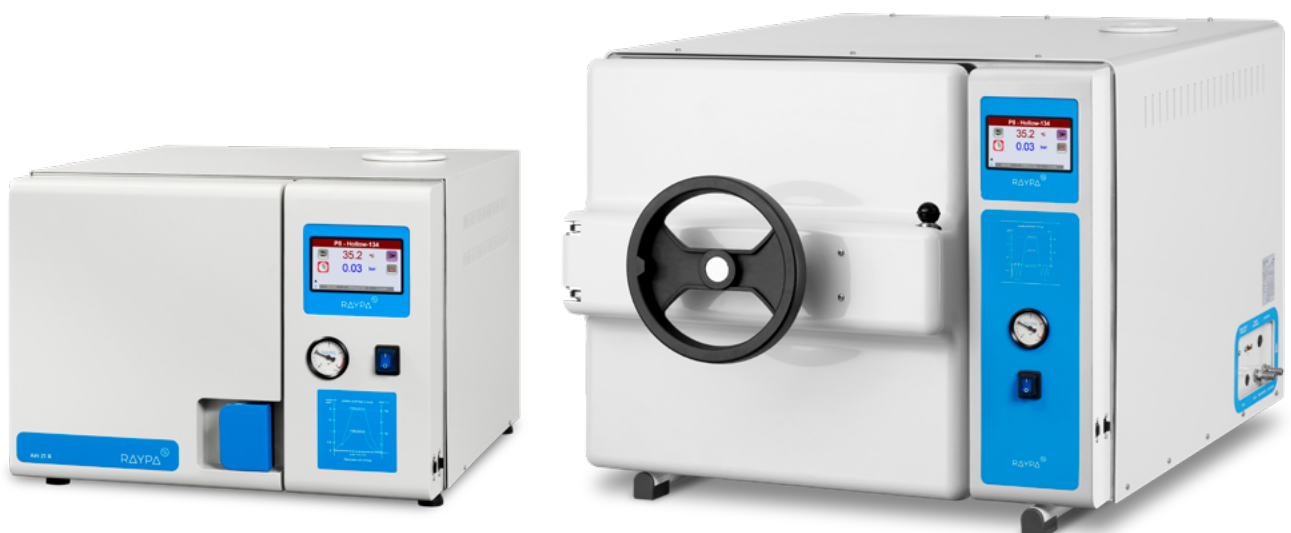
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AHS-50-B AND AHS-75-B MODELS

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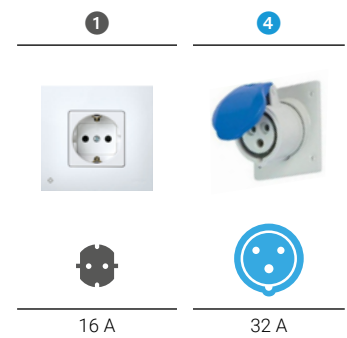


AH-21-B

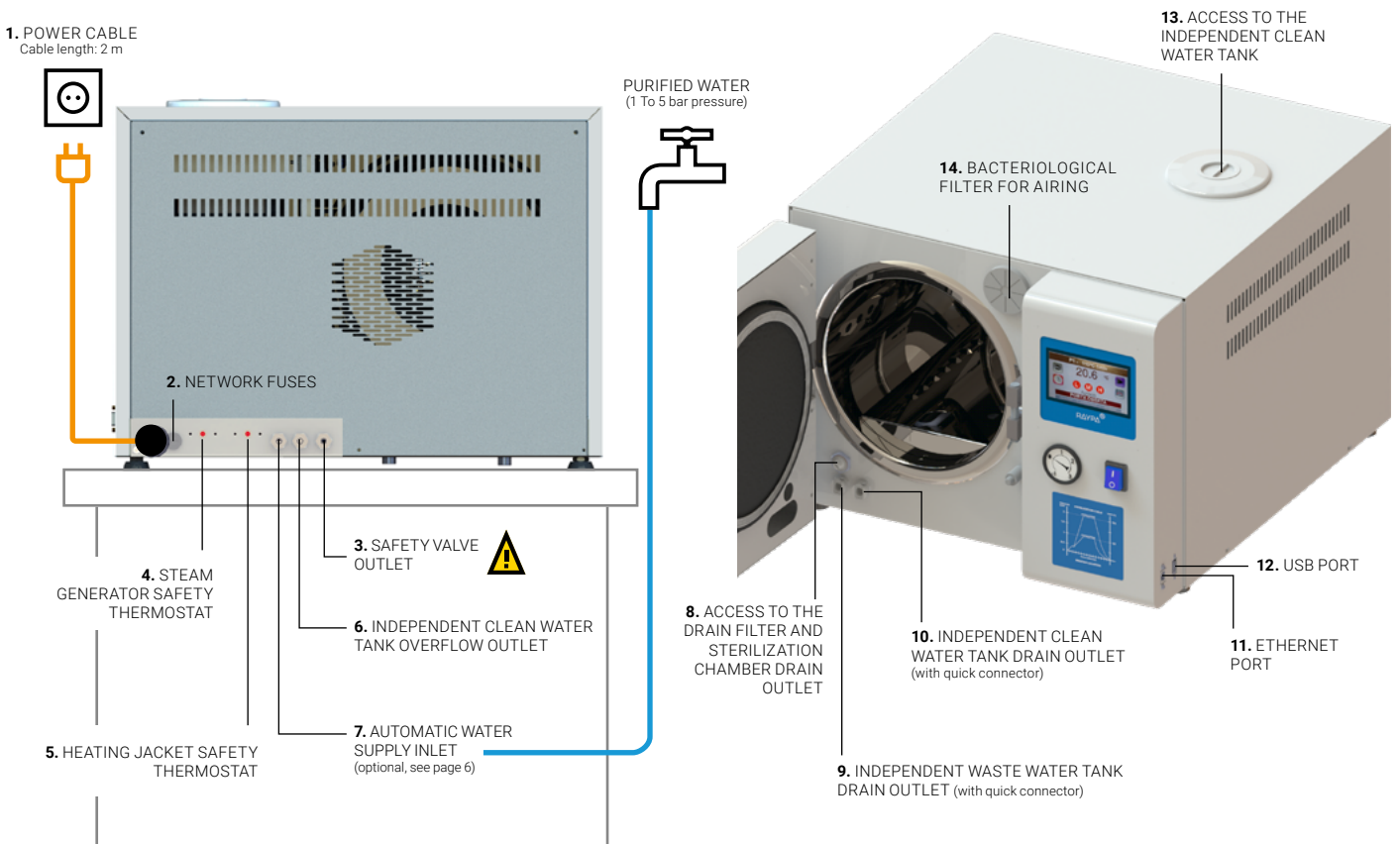
ELECTRICAL CONNECTION

The following table shows the plug configuration according to IEC and SCHUKO international standards. For customers who require other plugs and other electrical configurations, please contact our technical team at raypa@raypa.com.

MODEL	FREQUENCY	POWER	AMPERES / PHASE	VOLTAGE	CONNECTION
AH-21-B	50/60 Hz	2000 W	9 A	230 (1P+N+PE) V	16 A ①
AH-21-B-115V	50/60 Hz	2000 W	17 A	120 (1P+N+PE) V	32 A ④



CONNECTIONS GRAPH



AH-21-B

COMPONENTS INCLUDED

In addition to the accessories chosen at the time of purchase of the autoclave (software kit, basket, etc.), the following components are always included:



1 stainless steel frame of 200 x 400 x 200 mm, with capacity for 5 trays. It includes 3 stainless steel wire trays of 190 x 350 mm.



1 stainless steel tray support of 400 x 180 x 80 mm, with a capacity for 20 bags. The size of this accessory can be customized according to client needs. For more information, please contact us.



1 auxiliary plastic tray of 200 x 280 mm, for collecting condensed water after opening the door in cycles without final drying.



1 metal clamp for moving trays.



1 silicone tube with quick connection, $\varnothing 5 \times \varnothing 8$ mm and 1 m long, for draining the independent clean and waste water tanks.

For:

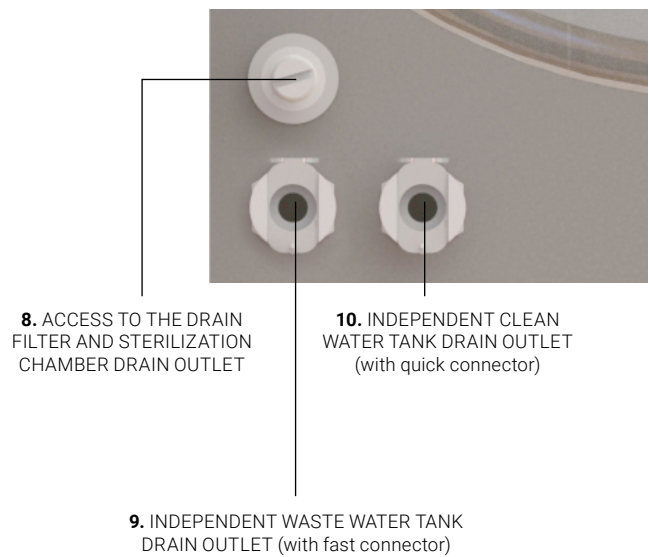
- 9. INDEPENDENT CLEAN WATER TANK DRAIN OUTLET**
- 10. INDEPENDENT WASTE WATER TANK DRAIN OUTLET**

DRAINAGE CONNECTIONS

To drain the independent water tanks, connect the included hose to the INDEPENDENT WASTE WATER TANK DRAIN OUTLET (9) and the INDEPENDENT CLEAN WATER TANK DRAIN OUTLET (10).

See “DRAINAGE HEIGHT, independent waste and clean water tanks” on page 7.

To clean the drain filter or drain the sterilization chamber, unscrew the screw on the ACCESS TO THE DRAIN FILTER AND STERILIZATION CHAMBER DRAIN OUTLET (8) while placing the supplied plastic tray underneath.



AH-21-B

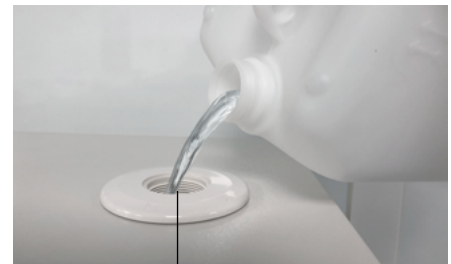
WATER SUPPLY FOR STERILIZATION

SEMIAUTOMATIC SUPPLY (STANDARD)

Purified water is necessary for the operation of the autoclave and is added manually into the independent water tank until the alarm (a “beep”) is heard and the on-screen lack of water message disappears. Water distribution from the independent clean water tank into the sterilization chamber is automatic.

See “FREE HEIGHT for independent clean water tank filling” on page 7.

The independent water tank has a volume of 6L and is equipped with minimum and maximum water volume sensors. If the separate water tank is not filled sufficiently, an error message will appear on the screen and operation of the autoclave will be blocked. If overfilled, after hearing the alarm (a “beep”), the excess water will come out through the INDEPENDENT WATER TANK OVERFLOW OUTLET (6).



13. ACCESS TO THE INDEPENDENT CLEAN WATER TANK

IMPORTANT NOTE:

PURIFIED WATER

The water used to feed the autoclave must be free of contaminants and meet the following hardness and conductivity requirements:

- Hardness: ≤ 0.02 mmol/l
- Conductivity: between $5 \mu\text{S/cm}$ and $15 \mu\text{S/cm}$

Multiple systems can be used to obtain water with these requirements: osmotized, demineralized, decalcified, distilled water, etc*.

*Note: Take into account that distilled water that is too pure (conductivity less than $5 \mu\text{S/cm}$) is not recommended as it may cause long term corrosion on stainless steel and water level detection problems in some models.

OPTIONAL

AH-21-B

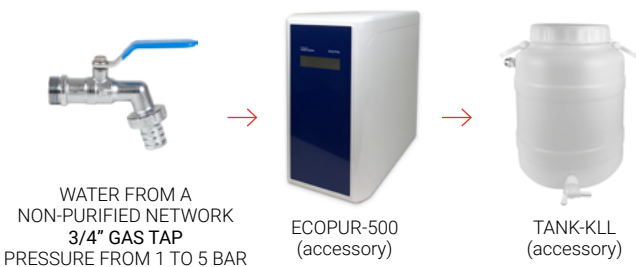
WATER SUPPLY FOR STERILIZATION

AUTOMATIC SUPPLY

If you have chosen the **KLL-21** automatic water filling accessory (optional, but factory installed) there are the following water feed options **A**, **B**, and **C** using the AUTOMATIC WATER SUPPLY INLET connection (7).

Autoclaves equipped with the KLL-21 accessory will have both the filling of the independent water tank and the distribution of water into the sterilization chamber fully automated during normal operation of the autoclave.

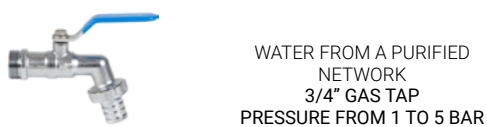
A. Use tap water (pressure from 1 to 5 bar) that goes through our **ECOPUR-500 WATER PURIFIER**. Resulting water from the purifier will accumulate in a tank connected to the automatic water supply inlet of the autoclave.



B. Use customer's purified water tank that will connect directly to the automatic water supply inlet of the autoclave.



C. Use water from a previously purified network (pressure from 1 to 5 bar) which will connect to the automatic water supply inlet of the autoclave.



KLL-21 ACCESSORY
(installed inside the AH-21-B autoclave)

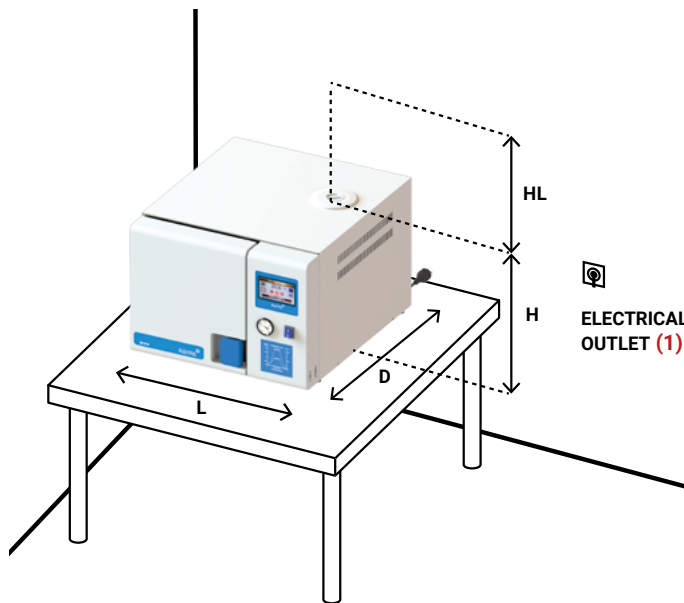
AH-21-B



DIMENSIONS TO CONSIDER FOR THE INSTALLATION OF YOUR AUTOCLAVE

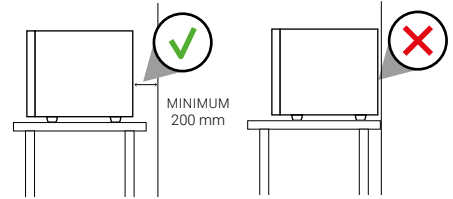
For safety reasons, the distance between both sides of the autoclave and the wall or any other object must be 100 mm, and between the autoclave and the rear wall must be at least 200 mm.

MODEL	L LENGTH with closed door	L1 LENGTH with maximum door opening	D DEPTH	D1 DEPTH with maximum door opening	H HEIGHT	LA x DA SUPPORT AREA	HL FREE HEIGHT for filling the independent water tank	HD DRAINAGE HEIGHT for draining the independent water tanks
AH-21-B	560 mm	740 mm	660 mm	970 mm	425 mm	537 x 527 mm	400 mm	50 mm

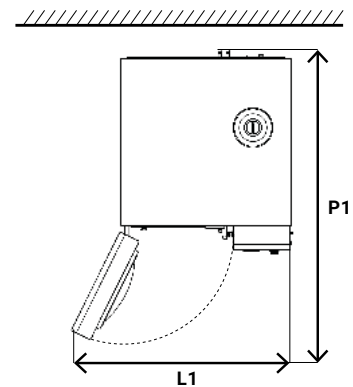


WARNING:

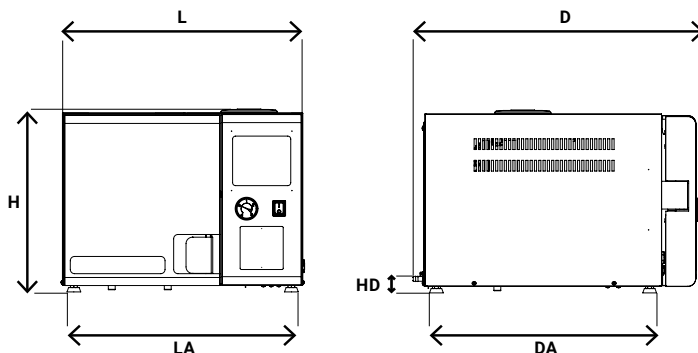
Respect the recommended distances.



PLAN VIEW



FRONTAL AND LATERAL VIEWS



ENVIRONMENTAL CONDITIONS

This autoclave can operate under the following maximum conditions:

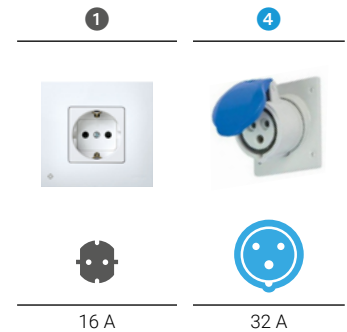
- Ambient temperature: 30 °C
- Humidity: 75%
- Altitude: 3,000 meters above sea level. In case of higher altitudes, consult with our technical team.

AHS-50-B AND AHS-75-B

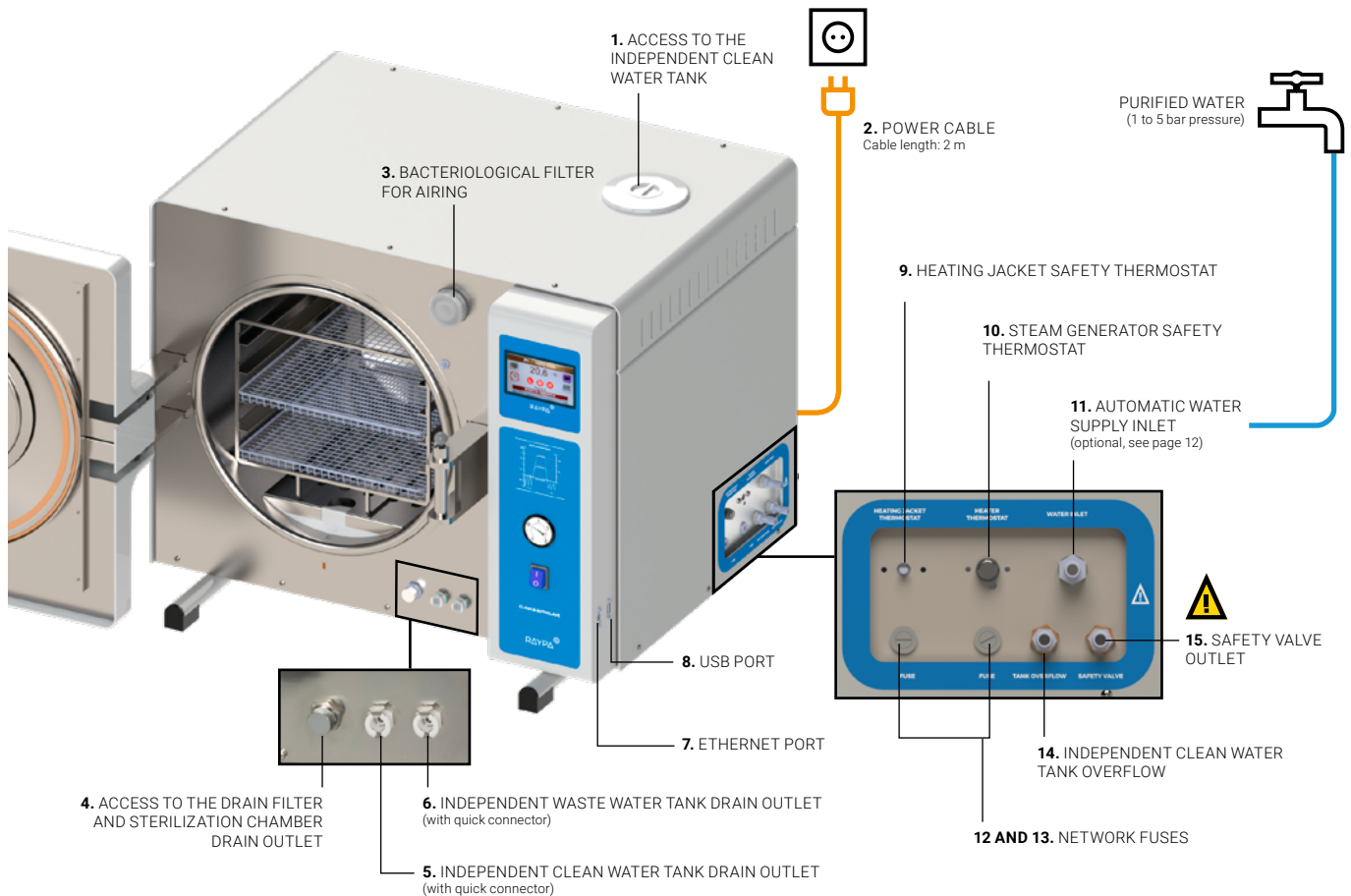
ELECTRICAL CONNECTION

The following table shows the plug configuration according to IEC and SCHUKO international standards. For customers who require other plugs and other electrical configurations, please contact our technical team at raypa@raypa.com.

MODEL	FREQUENCY	POWER	AMPERES / PHASE	VOLTAGE	CONNECTION
AHS-50-B	50/60 Hz	3600 W	15 A	230 (1P+N+PE) V	16 A ①
AHS-50-B-115V	50/60 Hz	3600 W	30 A	120 (1P+N+PE) V	32 A ④
AHS-75-B	50/60 Hz	3600 W	15 A	230 (1P+N+PE) V	16 A ①
AHS-75-B-115V	50/60 Hz	3600 W	30 A	120 (1P+N+PE) V	32 A ④



CONNECTIONS GRAPH



AHS-50-B AND AHS-75-B

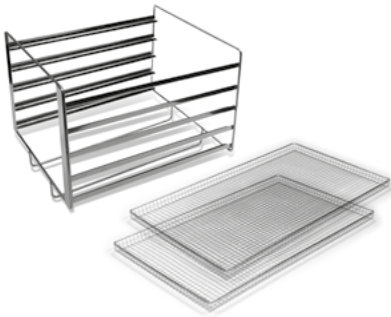
COMPONENTS INCLUDED

In addition to the accessories chosen at the time of purchase of the autoclave (tray support, software kit, basket, etc.), the following components are always included:



1 stainless steel protective cover for the sterilization chamber to place it on the inner base of the sterilization chamber.

MODELS	DIMENSIONS
	L X D
AHS-50-B	235 x 370 mm
AHS-75-B	235 x 570 mm



1 stainless steel frame with capacity for 5 trays. Includes 2 stainless steel wire trays.

MODELS	FRAME DIMENSIONS	TRAY DIMENSIONS
	L X D X H	L X D
AHS-50-B	320 x 360 x 270 mm	315 x 330 mm
AHS-75-B	320 x 565 x 270 mm	315 x 530 mm



1 auxiliary plastic tray of 250 x 350 mm, for collecting condensed water after opening the door in cycles without final drying.



1 metal clamp for moving trays.



1 silicone tube with fast connection of $\varnothing 5 \times \varnothing 8$ mm and 1 m long, for draining the independent clean and waste water tanks.

For:

- 5.** INDEPENDENT CLEAN WATER TANK DRAIN OUTLET
- 6.** INDEPENDENT WASTE WATER TANK DRAIN OUTLET



2 stainless steel threaded pins which must be installed at the lateral connections.

For:

- 14.** SAFETY VALVE OUTLET
- 15.** INDEPENDENT CLEAN WATER TANK OVERFLOW OUTLET

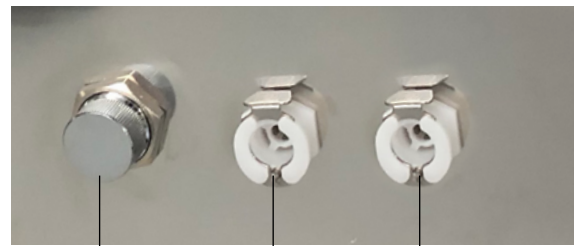
AHS-50-B AND AHS-75-B

DRAINAGE CONNECTIONS

To drain the independent water tanks, connect the hose to the INDEPENDENT CLEAN WATER TANK DRAIN OUTLET (5) and the INDEPENDENT WASTE WATER TANK DRAIN OUTLET (6)

See “DRAINAGE HEIGHT, independent waste and clean water tanks” on page 13.

To clean the drain filter or drain the sterilization chamber, unscrew the screw on the ACCESS TO THE DRAIN FILTER AND STERILIZATION CHAMBER DRAIN OUTLET (4) while placing the supplied plastic tray underneath.



4. ACCESS TO THE DRAIN FILTER AND STERILIZATION CHAMBER DRAIN OUTLET

6. INDEPENDENT WASTE WATER TANK DRAIN OUTLET (with quick connector)

5. INDEPENDENT CLEAN WATER TANK DRAIN OUTLET (with quick connector)

AHS-50-B AND AHS-75-B

WATER SUPPLY FOR STERILIZATION

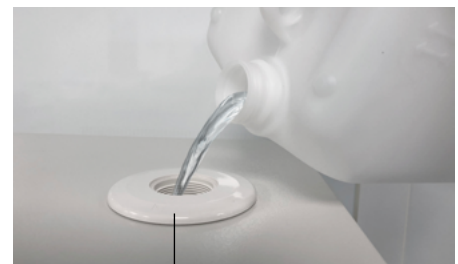
SEMI-AUTOMATIC SUPPLY (STANDARD)

Purified water is necessary for operation of the autoclave and is added manually into the independent water tank until the alarm (a “beep”) is heard and the on-screen lack of water message disappears. Water distribution from the independent clean water tank into the sterilization chamber is automatic.

See “FREE HEIGHT for independent clean water tank filling” on page 13.

The independent water tank has a volume of 10L and has minimum and maximum volume sensors. If the separate water tank is not filled sufficiently, an error message will appear on the screen and operation of the autoclave will be blocked.

If overfilled, after hearing the alarm (a “beep”), the excess water will come out through the INDEPENDENT WATER TANK OVERFLOW OUTLET (**14**).



1. ACCESS TO THE
INDEPENDENT CLEAN WATER
TANK

IMPORTANT NOTE:

PURIFIED WATER

The water used to feed the autoclave must be free of contaminants and meet the following hardness and conductivity requirements:

- Hardness: ≤ 0.02 mmol/l
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Multiple systems can be used to obtain water with these requirements: osmotized, demineralized, decalcified, distilled water, etc*.

*Note: Take into account that distilled water that is too pure (conductivity less than $5 \mu\text{S}/\text{cm}$) is not recommended as it may cause long term corrosion on stainless steel and water level detection problems in some models.

OPTIONAL

AHS-50-B AND AHS-75-B

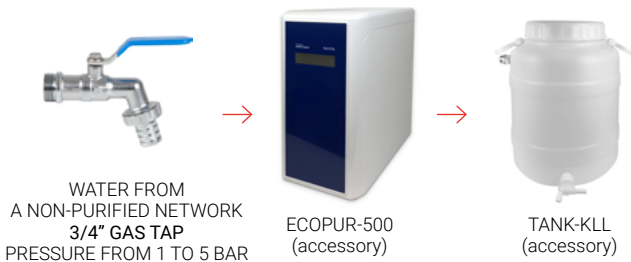
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AUTOMATIC SUPPLY

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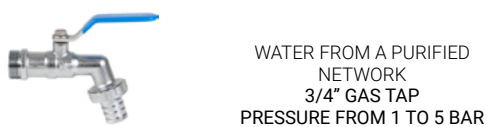
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B. Use a customer's purified water tank that will connect directly to the automatic water supply inlet of the autoclave.



C. Use water from a previously purified network (pressure from 1 to 5 bar) which will connect to the automatic water supply inlet of the autoclave.



KLL-AHS ACCESSORY

(installed inside AHS-50-B/AHS-75-B autoclaves)

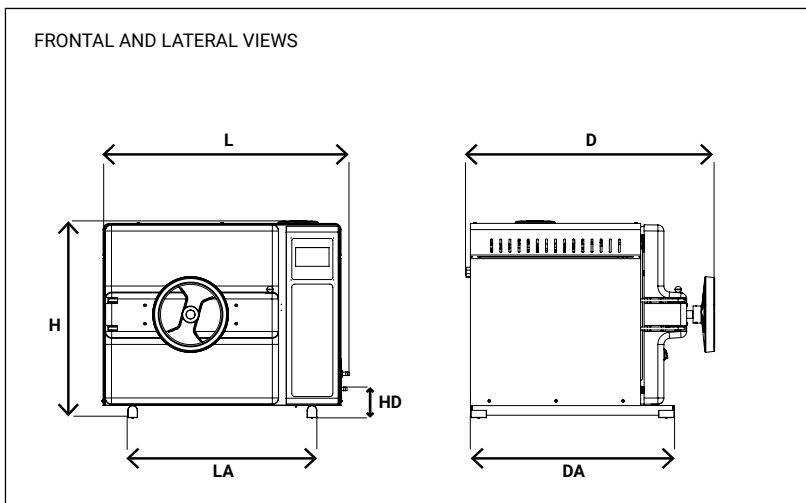
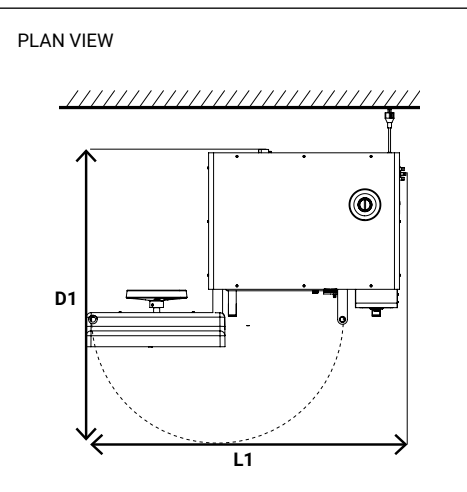
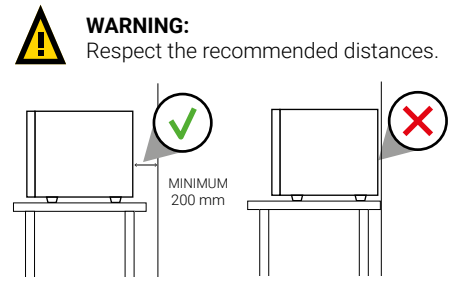
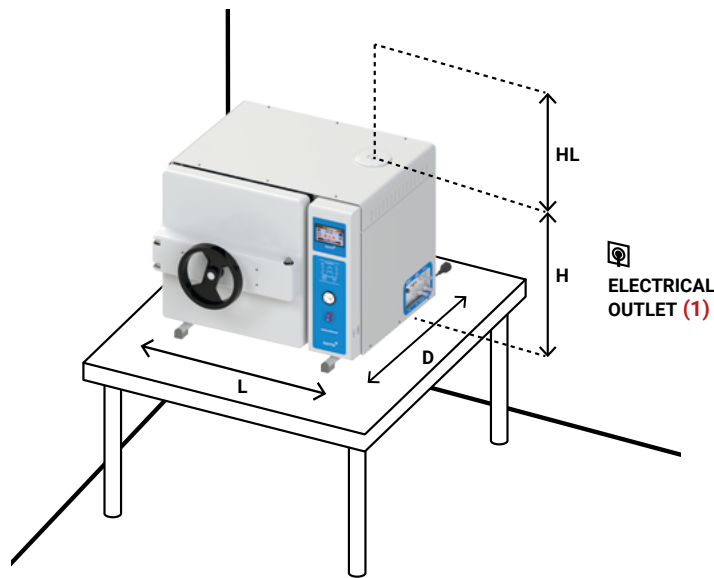
AHS-50-B AND AHS-75-B



DIMENSIONS TO CONSIDER FOR THE INSTALLATION OF YOUR AUTOCLAVE

For safety reasons, the distance between both sides of the autoclave and the wall or any other object must be 100 mm, and between the autoclave and the rear wall must be at least 200 mm.

MODEL	L LENGTH with closed door	L1 LENGTH with maximum door opening	D DEPTH	D1 DEPTH with maximum door opening	H HEIGHT	LA x DA SUPPORT AREA	HL FREE HEIGHT for filling the independent water tank	HD DRAINAGE HEIGHT for independent water tank draining
AHS-50-B	805 mm	1240 mm	805 mm	1230 mm	650 mm	622 x 670 mm	400 mm	95 mm
AHS-75-B	805 mm	1240 mm	1005 mm	1430 mm	650 mm	622 x 830 mm	400 mm	95 mm



ENVIRONMENTAL CONDITIONS

This autoclave can operate under the following maximum conditions:

- Ambient temperature: 30 °C
- Humidity: 75%
- Altitude: 3,000 meters above sea level. In case of higher altitudes, consult with our technical team.

+ info



CLICK!
ACCESS THE
AHS-B SERIES
VIDEO

Find out more about our AHS-B Series on our **Youtube** Channel.



REV.07.2024