

**AHS-DRY SERIES** 

**CLASSIC LINE** 

## **AHS-DRY SERIES - INSTALLATION GUIDE**

Information to consider before installing your RAYPA autoclave.

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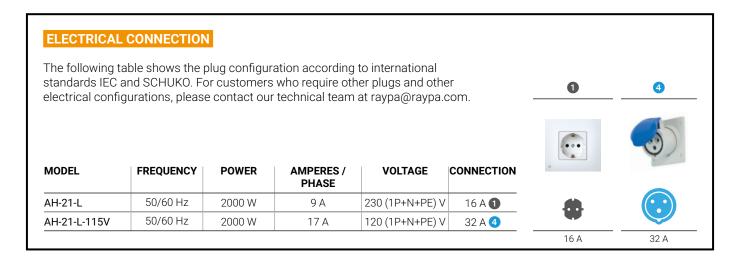




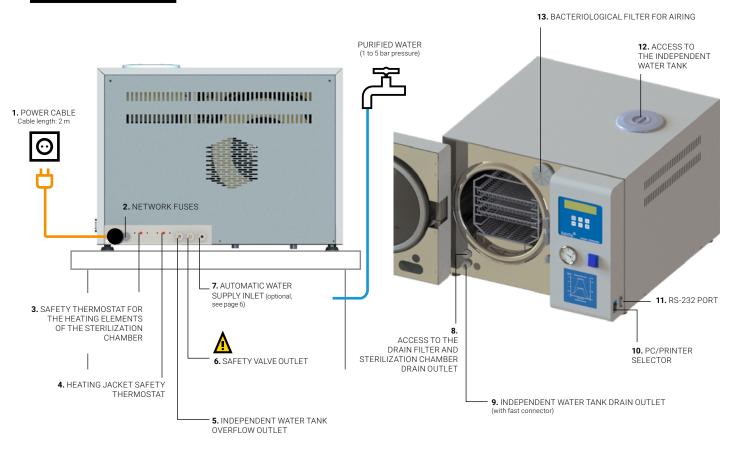
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#### **AH-21-L**



## **CONNECTIONS GRAPH**





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#### **AH-21-L**

## **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 protective cover for the heating elements of  $175 \times 370 \text{ mm}$  to place on the inner base of the sterilization chamber.



1 stainless steel frame of  $200 \times 400 \times 180$  mm, with capacity for 4 trays. It includes 3 stainless steel wire trays of  $190 \times 350$  mm. Special frame compatible with up to 5 trays available under request.



1 stainless steel tray support of  $400 \times 180 \times 80$  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  $200 \times 280$  mm, for collecting condensed water after opening the door in cycles without final drying.



1 metal clamp for moving trays.



1 silicone hose with fast connection of Ø5 x Ø8 mm and 1 m long, for draining the independent water tank.

For:

9. INDEPENDENT WATER TANK DRAIN OUTLET



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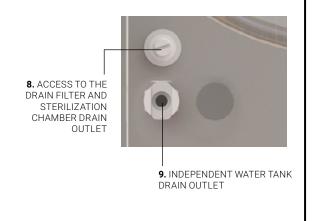
#### **AH-21-L**

## DRAINAGE

To drain the independent water tank, connect the included quick connection silicone hose to the INDEPENDENT WATER TANK DRAIN OUTLET (9).

See "DRAINAGE HEIGHT for draining the independent water tank" 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.





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#### **AH-21-L**

## WATER SUPPLY FOR STERILIZATION

#### **MANUAL 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 water tank into the sterilization chamber is automatic.

See "FREE HEIGHT for independent 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 independent water tank is not filled sufficiently, the following message will continue to appear on screen: "LACK OF WATER", and operation of the autoclave will be blocked. If overfilled, after an alarm (a "beep"), the excess water will come out through the INDEPENDENT WATER TANK OVERFLOW OUTLET (5).



13. ACCESS TO THE INDEPENDENT WATER



#### **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 μS/cm and 15 μS/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.



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OPTIONAL

#### **AH-21-L**

## **WATER SUPPLY FOR STERILIZATION**

#### **AUTOMATIC SUPPLY**

If you have chosen the **KLL-21** automatic water filling accessory (optional, but installed in the factory), 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.



PURIFIED WATER TANK 3/4" GAS TAP

**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.



WATER FROM A PURIFIED NETWORK 3/4" GAS TAP PRESSURE FROM 1 TO 5 BAR



KLL-21 ACCESSORY

(installed inside the AH-21-L autoclave)



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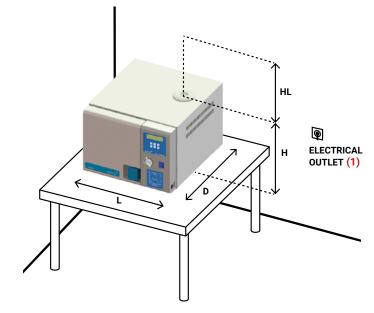
#### **AH-21-L**

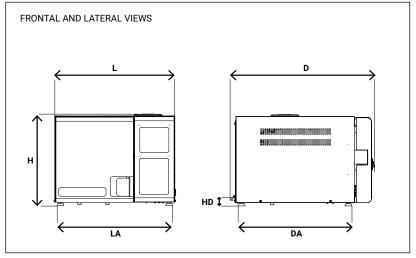


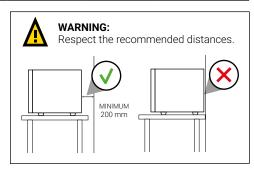
# DIMENSIONS TO CONSIDER FOR THE INSTALLATION OF YOUR AUTOCLAVE

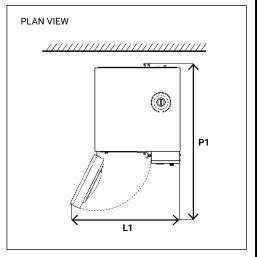
For safety reasons, the distance between both sides of the autoclave and the wall or any other object must be 100 mm, and between the autoclave and the rear wall must be at least 200 mm.

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









#### **ENVIRONMENTAL CONDITIONS**

This autoclave can operate under the following maximum conditions:

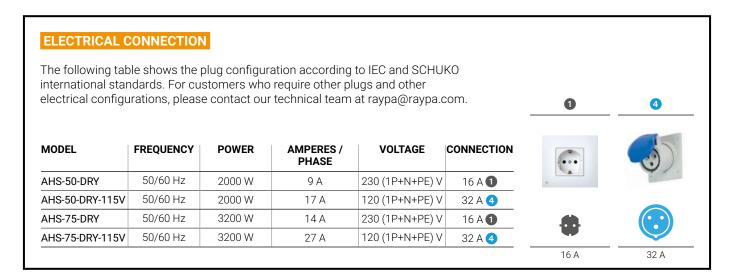
- Ambient temperature: 30 °C
- Humidity: 75%
- Altitude: 3,000 meters above sea level. In case of higher altitudes, consult with our technical team.

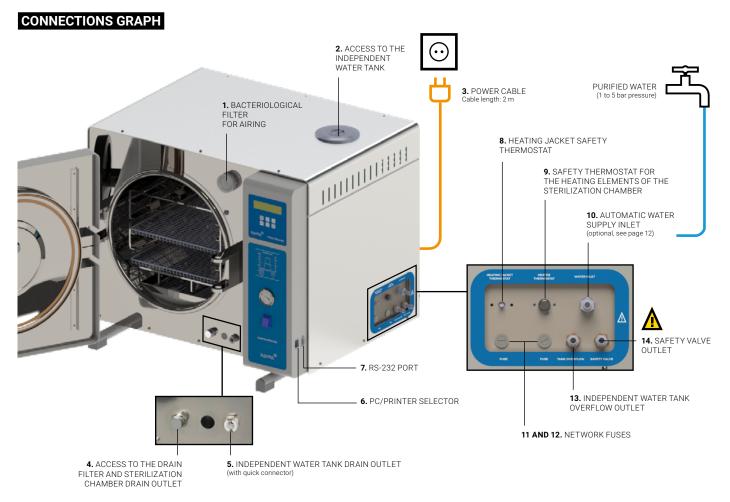


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### AHS-50-DRY AND AHS-75-DRY







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#### **AHS-50-DRY AND AHS-75-DRY**

## **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 heating elements to place on the inner base of the sterilization chamber.

MODELS	<b>DIMENSIONS</b> L X D				
AHS-50-DRY	235 x 370 mm				
AHS-75-DRY	235 x 570 mm				



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

MODELS	FRAME DIMENSIONS LXDXH	TRAY DIMENSIONS		
AHS-50-DRY	320 x 360 x 270 mm	315 x 330 mm		
AHS-75-DRY	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 hose with fast connection of Ø5 x Ø8 mm and 1 m long, for draining the independent water tank.

#### For

5. INDEPENDENT WATER TANK DRAIN OUTLET



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

#### For:

13. INDEPENDENT WATER TANK OVERFLOW OUTLET

**14.** SAFETY VALVE OUTLET



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#### **AHS-50-DRY AND AHS-75-DRY**

## DRAINAGE CONNECTIONS

To drain the independent water tank, connect the included quick connection silicone hose to the INDEPENDENT WATER TANK DRAIN OUTLET (5).

See "DRAINAGE HEIGHT for draining the independent water tank" 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.





**AHS-DRY SERIES** 

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### **AHS-50-DRY AND AHS-75-DRY**

## WATER SUPPLY FOR STERILIZATION

## **MANUAL 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 water tank into the sterilization chamber is automatic.

See "FREE HEIGHT for independent water tank filling" on page 13.

The independent water tank has a volume of 10L and is equipped with minimum and maximum water volume sensors.

If the independent water tank is not filled sufficiently, the following message will continue to appear on screen: "LACK OF WATER", and operation of the autoclave will be blocked. If overfilled, after an alarm (a "beep"), the excess water will come out through the INDEPENDENT WATER TANK OVERFLOW OUTLET (13).



2.ACCESS TO THE INDEPENDENT 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  $\mu$ S/cm and 15  $\mu$ 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.



**AHS-DRY SERIES** 

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**OPTIONAL** 

## **AHS-50-DRY AND AHS-75-DRY**

#### WATER SUPPLY FOR STERILIZATION

#### **AUTOMATIC SUPPLY**

If you have chosen the KLL-AHS automatic water filling accessory (optional, but installed in the factory), there are the following water feed options A, B, and C using the AUTOMATIC WATER SUPPLY INLET connection (10).

Autoclaves equipped with the KLL-AHS 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.

 $\boldsymbol{\mathsf{A}}.$  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 a customer's purified water tank that will connect directly to the automatic water supply inlet of the autoclave.



PURIFIED WATER TANK 3/4" GAS TAP

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.



WATER FROM A PURIFIED NETWORK 3/4" GAS TAP PRESSURE FROM 1 TO 5 BAR



KLL-AHS ACCESSORY

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



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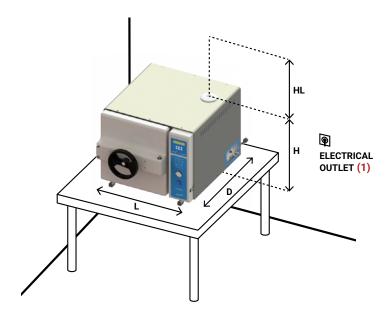
#### **AHS-50-DRY AND AHS-75-DRY**

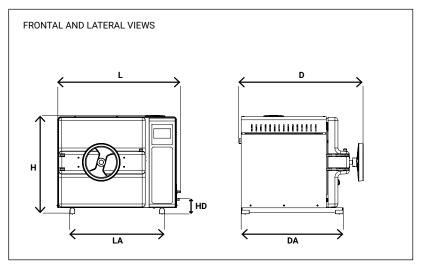


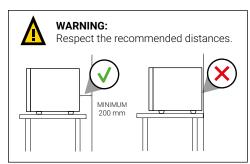
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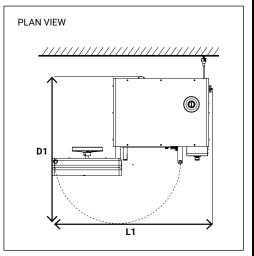
For safety reasons, the distance between both sides of the autoclave and the wall or any other object must be 100 mm, and between the autoclave and the rear wall must be at least 200 mm.

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



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