

# ACJ SYSTEMS DISINFECTION CABIN FOR TROLLEYS



Equipment designed for  
the sanitization and the disinfection of trolleys

## 1. DESIGN, CONSTRUCTION AND COMPONENTS



The ACJ disinfection cabin for trolleys is a sanitization and disinfection cabin for more than 30 trolleys per hour and meets the strictest hygiene standards in the market.

The disinfection cabin for trolleys is available for 1, 3 or 5 trolleys.

### **More than laundry trolleys**

Thanks to the PLC control system (up to 50 programs), the specific arrangement of the sprinklers and a full range of options, such as the steam coil, the cabin can be used to sanitize and disinfect a multitude of containers, vessels and items.

The cabin is fully built in AISI304 stainless steel and double chamber for better insulation.

It is designed as a sanitary barrier: it is prepared to be mounted on a sanitary wall and with two sides, one for loading and the other one for unloading. The machine has an interconnection device that prevents both doors from opening at the same time; this ensures and keeps its hygienic integrity.

For a better water evacuation, it has perforated stainless steel bottom guides. These guides are adaptable to various sizes of trolleys.

It has an internal security in order to stop the cycle of the machine at any time.

It has a system for extraction of mist and chemical residues before opening the doors.

It has the entry and the exit ramps built in aluminium.  
(It is no necessary civil works)



**Optional:**

- There is the possibility to install a continuous circuit with a trolley drags chain with an optional automatic trolley drying.
- It is possible to install a touch terminal in the clean area.
- It is possible to install an automatic trolley unloading with internal ramp elevation.
- There is the possibility to install two pneumatic automatic doors, one for the clean zone and the other one for the dirty area, so, two doors are never opened at the same time, thus avoiding contamination between rooms.

## 2. MANAGEMENT SYSTEM



The management system is controlled by a touch terminal with PLC.

The programmable controller allows the user to configure different disinfection programs depending on the needs of the laundry, as well as, full traceability of the process.

It is equipped with a large colour display, which gives to the user the option of programming and saving the data of each wash cycle. With this, you will have the possibility to generate a cleaning and disinfection report when it is necessary.



Optionally, it has a barcode or a QR code reader which allows traceability of all trolleys which send the data with the temperature and the product curves to a PC.



### 3. SANITIZED - DISINFECTED



DIRTY TROLLEY ENTRANCE



CLEAN TROLLEY DEPARTURE

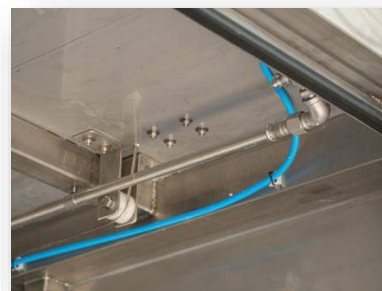


## 4. DISINFECTION SYSTEMS



### Total disinfection of surfaces

The sprinkler system placed on the roof and on both sides is designed in such a way as to ensure full coverage of all surfaces of the trolleys and the containers. Sprinklers on the cab floor are standard equipment and ensure that the underside of the trolley is also sanitized.



### Chemical Disinfection

The disinfection cabin offers the possibility of dispensing up to 4 disinfection products, according to the needs of each laundry and each type of wash.

The special nozzles vaporize the product generating a biocide cloud surrounding the trolley. This ensures that the product will be deposited on top of it and will be disinfected.

The waiting times for the cloud to come down and the extraction times are both programmable, even ensuring that the product is injected at the temperature at which it is approved for greater efficiency.

ACJ installs a dosing pump that allows adjusting the percentage of product and water mixture; with this we can warrantee that the vaporized product is the adjusted proportion for a perfect disinfection.

### **Thermal disinfection**

The thermal disinfection is carried out by injecting steam into the cabin through the sprinklers, ensuring a uniform distribution of the steam and, therefore, the temperature in the cabin.

The cabin temperature and the time period are both programmable.

The temperature can be programmed up to 90°C and this meets the conditions for a complete thermal disinfection.

## 5. TECHNICAL SPECIFICATIONS



The disinfection cabin for trolleys is an independent unit that only requires steam, air, electricity and detergents.



All technical components are located inside the machine and they are accessible through its large doors. And even more; all components are located on one side, so, the machine can be mounted very close to a wall on one side.

The spray nozzles are distributed high and have wide spray angles.



The guide lifting system allows the trolleys be able to be unloaded without the necessity to go inside of the cabin and it also facilitates the automatic exit of the trolleys.



	<b>1-C</b>	<b>3-C</b>	<b>5-C</b>
<b>Electric Power</b>	1,5 kw	1,5 kw	2,5 kw
<b>Electric Connection</b>	III-N-T	III-N-T	III-N-T
<b>Water Connection</b>	3/4"	1"	5/4"
<b>Water Pressure</b>	3-7 bar	3-7 bar	3-7 bar
<b>Compressed Air Connection</b>	1/2"	1/2"	1/2"
<b>Compressed Air Pressure</b>	4-5 bar	4-5 bar	4-5 bar
<b>Steam Connection</b>	3/4"	1"	5/4"
<b>Steam Pressure</b>	4-6 bar	4-6 bar	4-6 bar
<b>Drain</b>	D.110	D.110	D.110
<b>Number of Programs</b>	25	25	25
<b>Long</b>	1500 mm	3300 mm	5100 mm
<b>Width</b>	1300 mm	1300 mm	1300 mm
<b>High</b>	2480 mm	2480 mm	2480 mm





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