

Horizontal Steam Sterilizer FJ

C € 1639 MDD 1155 PED

PROHS Equipamento Hospitalar

e Serviços Associados, S.A.

| E | prohs@prohs.pt | W | www.prohs.pt

Zona Industrial Maia I, Sector II

4475-122 Maia - Portugal Rua do Castanhal 316



Horizontal Steam Sterilizer FJ

PROHS Horizontal Steam Sterilizer is manufactured to address demanding sterilization needs of Hospital CSSD's, Operating Theatres and Medical Centres. Produced using high quality components it is a reliable, durable and efficient solution that follows the stricter international health standards.

Products that can be sterilized

Metallic instruments: Rubber items (not thermal--sensitive); Textiles; Glasses and Growth Medium

Available Programs

The Sterilizer is defined to operate in two specific sterilization temperatures - 121°C and 134°C. It has 5 standard validated programs and 2 test programs (Bowie & Dick, Leakage test). Up to 100 new (and fully configurable) sterilization cycles can be created.

Technical Characteristics

Materials - Chamber, jacket and doors built in AISI 316L stainless steel, highly resistant to corrosion. External panels in AISI 304 stainless steel. The sterilizer's body is sustained by a heavy structure in AISI 304 stainless steel.

Thermal Insulation – is achieved through the use of mineral wool, coated with an external protection in aluminum. The temperature on the surface of the external panels in stainless steel AISI 304 and doors never exceeds 45°C at a room temperature of 23°C.

Doors - Automatic vertical sliding doors, pneumatically operated and equipped with a safety device in accordance to EN285.

Safety Features

- Safety system stops the door from closing if there is interposition of objects.
- The sterilization program does not start when doors are open.
- Doors do not open simultaneously.
- Doors do not open when the Sterilizer is under pressure.
- Self-diagnostic reports through visual and acoustic indications.

Components Characteristics

Microprocessor - The sterilizer is fully controlled by the PLC (Programmable Logic Controller), according to the operating program selected by the user.

Safety Valve - Operates as a security system to avoid excessive pressure inside the chamber, being duly certified.

Pneumatic Valves - Operate in the steam and condensates circuit, automatically controlled by the microprocessor.

Pressure Sensors - Used in the equipment (chamber and jacket), ranging from -1 to 3 bar (0 KPa to 400 KPa).

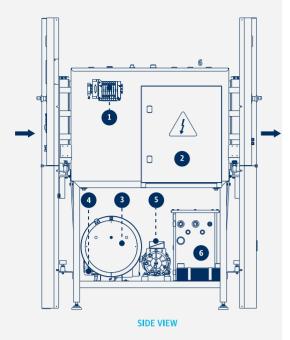
Temperature Probes - 2 Platinum resistance type according to Class A from EN 60751, in the chamber.

Gasket - Produced in silicone, and specifically designed to withstand high temperatures.

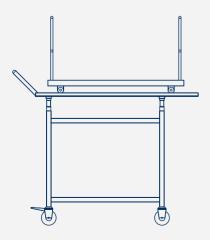
Bacteriological Filter - The air entrance for the required equalization of the pressures in the sterilizer is achieved through a filter which retains microorganisms, bacteria, particles, etc. (retention efficiency ≥ to 99,995% for particles bigger than 0,2 µm)

Fluid Circuit - All pipes and connections use to distribute steam and condensates through the sterilizer, are made of copper and brass. Optionally, they can be provived in stainless steel.





- 1 Pneumatic Valves Island Controls the operation of the pneumatic valves.
- **2 Electric Box** Consists of highly reliable control and power components. The equipment operates an energy saving system to achieve optimal energy efficiency.
- 3 Steam Generator To supply steam the sterilizer. Fully built in AISI 316L stainless steel composed of heaters in incoloy.
- 4 Water Pump Used to efficiently inject water into the system.
- **S** Vacuum Pump Liquid ring type, reduces the cycle time and increase its performance.
- 6 Water Saving System Special water deposit, designed to reduce the overall water consumption of the equipment.



Side view for Loading Car and Platform

The selection of high quality and certified components and spare parts, allows for an increased longevity, thus reducing the effective cost of the machine over time.

Gauges - Easy visualization of the working pressure in the steam generator, jacket and chamber. Color Touch Screen 7" - Allows realtime view of all the stages of the sterilization process. All operating commands are automatically done on the toutch screen: - Cycle Selection - Opening and Closing the Doors - Alarms (visual and audible) - Several menus (technical area, calibration, configuration, alarm storage, etc) The double door version of the sterilizer has a panel in the unloading zone that allows the visualization of the sterilization cycle's current stage. Ф • Emergency Button - Completely stops the sterilizer Printer - Fast and user-friendly records of easy interpretation for conclusive results. **On/Off Button**

FRONT VIEW

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Technical Characteristics

Model	Useful Dimensions	External Dimensions	Energy	Water Consumption	Weight	Useful Space
PROHS FJ-70L	32x32x70	170x81x99	14KW 1,3KW	110	260	1
PROHS FJ-110L	40x40x70	180x89x103	21KW 1,3KW	120	495	1
PROHS FJ-175L	50x50x70	180x99x103	21KW 1,3KW	130	570	1
PROHS FJ-250L	50x50x100	180x99x133	32KW 2,1KW	145	685	1
PROHS FJ-340L	70x70x70	195x119x103	32KW 2,1KW	170	750	4
PROHS FJ-360L	60x60x100	180x109x133	32KW 2,1KW	170	800	1
PROHS FJ-490L	70x70x100	195x119x133	42KW 2,1KW	200	830	6
PROHS FJ-640L	70x70x130	195x119x163	53KW 2,8KW	225	1000	8
PROHS FJ-780L	70x70x160	195x119x193	53KW 2,8KW	225	1200	10
PROHS FJ-930L	70x70x190	195x119x223	68KW 2,8KW	225	1400	12
/litres	/cm	/cm	/with /without	/litres	/Kg	/STU
capacity	height x width x depth	height x width x depth	Generator Generator Steam Steam	(per cycle)	(aproximate, with steam generator)	

Options and Accessories

• The sterilizer is available with **one** or two **doors**

- Car and Load/Unload Platform in stainless steel
- Sterilization Baskets in stainless steel
- Independent Data Recorder
- SD card and Process Software (stores the cycle's data)
- Steam Generator (built-in or external)
- Silent Air Compressor (oil-free)
- Water Softener
- Color Touch Screen in unloading area
- Double PLC (Master-Slave)
- Air Detector

Programs

(Possibility to create up to a 100 new programs)

Pre Heating Program

Textiles Rubbers Flash Instruments Containers Prions Bowie & Dick Test Air Leakage Test

Sterilization **Duration**

(minutes)

-4m 15m 3m 4m 4m 18m 3m30s

Types of Drying

- High Vaccum Drying
- High Vaccum and Air Pulses Drying (instruments)
- High Vaccum and Steam Pulses Drying (containers)

External Connections

Power Supply: 400V ~3ph - 50/60 Hz

Water: 3/4"
Sewer: DN50
Compressed Air: 3/8"

Certificates

Medical Device Regulation (EU) 2017/745 Directive 2014/68/UE

EN 285

Due to product improvement and development, PROHS reserves the right to make changes without notice.





