

# Вертикальные автоклавы с системой быстрого охлаждения серии TLV-FA

## Технические характеристики

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## TLV-FA Series

# VERTICAL AUTOCLAVES WITH FAST COOLING SYSTEM

### TOP LINE

Automatic, advanced sterilization of liquids, modern design, professional traceability and advanced connectivity.

### APPLICATIONS

-  Culture media and liquids
-  Glassware
-  Laboratory waste bags
-  Biohazardous waste



### BENEFITS



Advanced sterilization of liquids thanks to the fast cooling system consisting of an internal radial fan, water cooling coils and pressure support.



Modern, ergonomic design with excellent quality of construction.



Fully automatic. Push-button-controlled mechanically assisted door. Automatic water filling and water-cooled direct discharge.



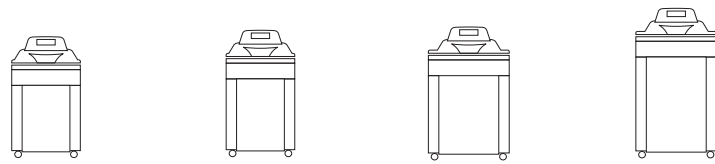
Controller and connectivity to PC, cloud, intranet and LIMS that complies with FDA, GMP and GLP.



State-of-the-art technology. Instant steam production by the built-in steam generator. Air inlet and outlet fitted with a bacteriological filter. Built-in vacuum pump for initial prevacuum.



Advanced technical support. Appointment booking on the controller, screen sharing via TeamViewer® and remote diagnosis of equipment status and failures.



## SPECIFICATIONS

References	TLV-50FA	TLV-75FA	TLV-110FA	TLV-150FA
Total/usable volume of the chamber L	58/56	83/81	124/118	169/155
Usable dimensions of the chamber Ø x H mm	400 x 450	400 x 650	500 x 600	500 x 850
External dimensions L x D x H mm	610 x 870 x 1060	610 x 870 x 1110	710 x 980 x 1160	710 x 980 x 1310
Loading height mm	815	865	915	1065
Net weight Kg	140	151	205	220
Power W	3600	3600	9000	9000
Standard voltage* V	230	230	400	400
Frequency Hz	50/60	50/60	50/60	50/60

\*Other voltages and electrical configurations available on request.

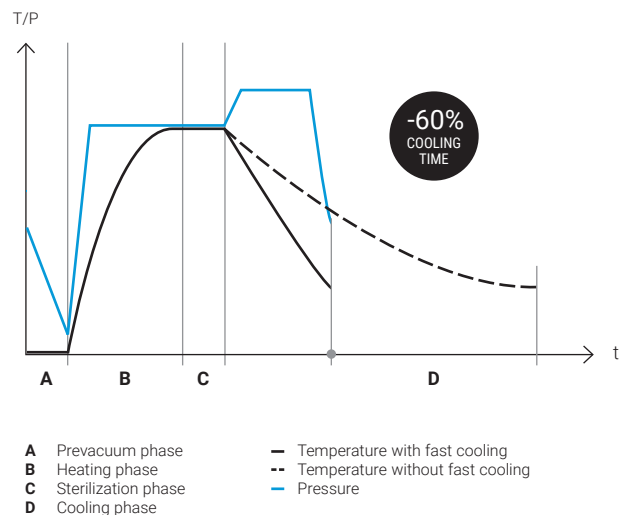
## DESCRIPTION

- 7" colour capacitive touchscreen.
- Compliance with FDA 21 CFR Part 11 and GMP Annex 11.
- Compatible with RAYPAcloud.
- AISI-316L stainless steel sterilization chamber. AISI-304 stainless steel external housing.
- Maximum temperature and pressure: 140°C and 2,6Barg.
- Fast cooling by water cooling coils, pressure support and internal radial fan.
- Automatic water feed from water network.
- Instant steam production by the built-in steam generator.
- Mechanical purge by vacuum pump.
- Water-cooled direct discharge.
- Push-button-controlled mechanically assisted door.
- Casters with brakes.
- Air inlet and outlet fitted with a bacteriological filter.
- Equipped with main flexible probe for F<sub>0</sub>-controlled sterilizations, agar mode and liquids programs. Secondary flexible probe is optional.
- Programmable auto start-up by hour and date.
- User administration control with passwords.
- Connection through RS-232, USB, Ethernet, and Wi-Fi.
- Embedded or external ticket printer, label printer and barcode scanner are optional.

## OPERATION

In the prevacuum phase, the air in the chamber is mechanically purged with a single vacuum pulse. The steam generator is then activated to inject steam into the sterilization chamber. When the sterilization temperature is reached, the sterilization phase begins and the temperature is accurately sustained for the predefined duration.

Finally, a fast cooling phase begins with the addition of pressure support, the circulation of water within the cooling coils and the activation of the internal radial fan to cool the load more quickly. In programs with agar mode activated, the preset temperature is maintained indefinitely.



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