

# Вертикальные автоклавы с системой суперсушки серии TLV-PD

## Технические характеристики

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## TLV-PD Series

# VERTICAL AUTOCLAVES WITH SUPER DRYING SYSTEM

### TOP LINE


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

### APPLICATIONS


-  Culture media and liquids
-  Glassware
-  Laboratory waste bags
-  Biohazardous waste
-  Porous solids and wrapped objects
-  Objects with complex geometries




### BENEFITS


 Advanced sterilization of solids thanks to the super drying system consisting of a water-ring vacuum pump and a heating jacket.

 Modern, ergonomic design with excellent quality of construction.

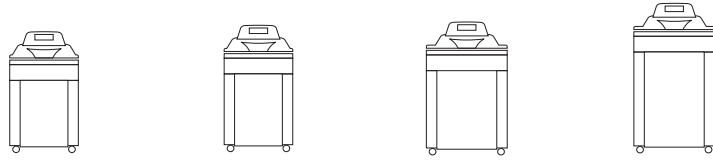
 Fully automatic. Push-button-controlled mechanically assisted door. Automatic water filling and water-cooled direct discharge.

 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 pulses.

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

## SPECIFICATIONS



References	TLV-50PD	TLV-75PD	TLV-110PD	TLV-150PD
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	134	143	198	213
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.

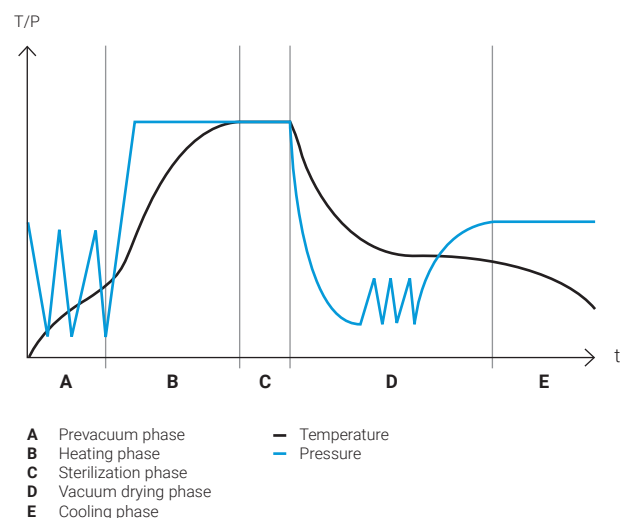
## DESCRIPTION

- 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.
- Automatic water feed from water network.
- Instant steam production by the built-in steam generator.
- Mechanical purge and final drying through an integrated high-performance water-ring vacuum pump and powerful heating jacket.
- Water-cooled direct discharge.
- Push-button-controlled mechanically assisted door.
- Casters with brakes.
- Air inlet and outlet fitted with a bacteriological filter.
- Agar mode and liquids programs. The main and secondary flexible probes are optional for F<sub>0</sub>-controlled sterilizations.
- 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 ON SOLID LOADS

In the prevacuum phase, the air in the chamber is mechanically purged at high speed with multiple vacuum pulses. After the first vacuum pulse, the steam generator is activated to inject saturated 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.

Only in solids programs, a fast vacuum drying phase then starts with the activation of both the water-ring vacuum pump and the heating jacket to completely dry the load. Finally, a natural cooling phase begins.



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