



# DE LAMA

Process & Sterilization Solutions since 1949



**DRY HEAT STERILIZERS**

## DLST/L Series

**High quality industrial oven to meet the widest requirements of the pharmaceutical industry for sterilization and depyrogenation by dry heat in full compliance with cGMP Guidelines and ISO air classification**



**Pharmaceutical  
Industry**

### MAIN FEATURES

ISO 5 (Class 100)

Reduced environmental impact (open loop air heating and cooling)

No-proprietary, high quality components

Compliant with the current International standards

SCADA Windows OS control system, CFR 21-Part 11

## DESIGN, CONSTRUCTION & FUNCTIONAL FEATURES

- capacity: from 150 lts. up to 8000 lts.
- operating temperature: standard 250°C (up to 300°C with suitable filters pack)
- chamber execution in AISI 304 or AISI 316L stainless steel fully welded, with rounded edges
- pass-through execution for no cross-contamination with interlocked doors
- semi-automatic hinged doors or automatically sliding doors
- door seal system: special double gaskets system (FDA approved) to avoid any air release or cross-contamination between the chamber and the external environment
- bioseal flange to seal the sterilizer into the facility wall at the "clean side" ensuring barrier preventing particulate from entering the room from maintenance area
- HEPA filters installed on the air intake, exhaust and recirculation wall
- filter seal system: internal filters seal frames kept at a pressure lower than the chamber pressure
- two fan groups: one for air circulation into the chamber and one for exhausted air extraction and cooling
- electrical or steam/electrical heating
- chamber constant overpressure control through the inverter on the air recirculation fan
- adjustable heating up ramp with internal humidity evacuation
- cooling by external fresh air flow optionally improved through coil exchanger
- enhanced air distribution and temperature uniformity into the chamber through exclusive deflector system for air flow regulation
- clamp connections for validation activities, air quality monitoring and DOP/DEHS test
- high grade thermal insulation
- monitoring of chamber pressure and HEPA filters efficiency by differential pressure transmitters
- temperature monitoring inside the chamber by temperature sensors Pt 100 Ohm Class A EN 60751
- wide range of alarms and safety devices to assure Operator protection and proper equipment operation
- available with magnetic door suitable also for isolator coupling
- available even in class 10000

