



STERILIZATION PILOT

YOUR PRODUCT AT THE CORE OF THE PROCESS

Aware of the challenges connected to the quality of the products sterilized by its equipment and strengthened by its experience, ACTINI offers standard or customized treatment solutions depending on both nature of the products to be treated, sterilization requirements and capacities, and standards of the production environment.



Rental:

- At **ACTINI's facility** for the performance of tests with the support of ACTINI specialists (possibility of cold storage of products, viscosity tests and procedures for sending to laboratories for analysis)
- At **Customer's facility** for rentals from one week or longer with option to purchase with support from ACTINI technicians for start-up and training in the use of the pilot



Uses:

- Pasteurization, sterilization, HTST treatment and inactivation
- Process feasibility: validation of the treatment program, flow rate and temperature
- Product shelf life: validation of process data for product conservation
- Product qualities: validation of the preservation of the product functional properties after treatment



Products:

- Variable viscosity from **1 to 1,000 cP**
- Nutrient media (agar, glucose solutions, salt, proteins...)
 - Fermentation yield
 - Active ingredients (peptides, insulin...)
 - Plant extracts, sugar-based solutions, flavors, natural food coloring...



Design:

- Patented electrical technology (easy start-up)
- Adjustable treatment temperature from **60°C to 150°C**
- Modular holding time (4 settings)
- Adjustable flow rate from **20 to 700 lph** according to viscosity and treatment temperature. The system includes two different pumps to test products with varying viscosities.
- Semi-automatic operation with recording of treatment data and repeatability of recipes.

Compact footprint

- Dimensions (mm): L: 1,610 x W: 980 x H: 1,770
- Dimensions of the skid including product tanks & pumps (mm): L: 1,300 x W: 500 x H: 1,310

Design features focused on the product

- Aseptic tubular exchanger
- Very accurate temperature regulation eliminating any risk of overheating and damage to the treated solution
- Guaranteed repeatability of recipes
- Monitored and recorded cycle management
- SIP / CIP cycles for perfect process asepsis

FLOW DIAGRAM

