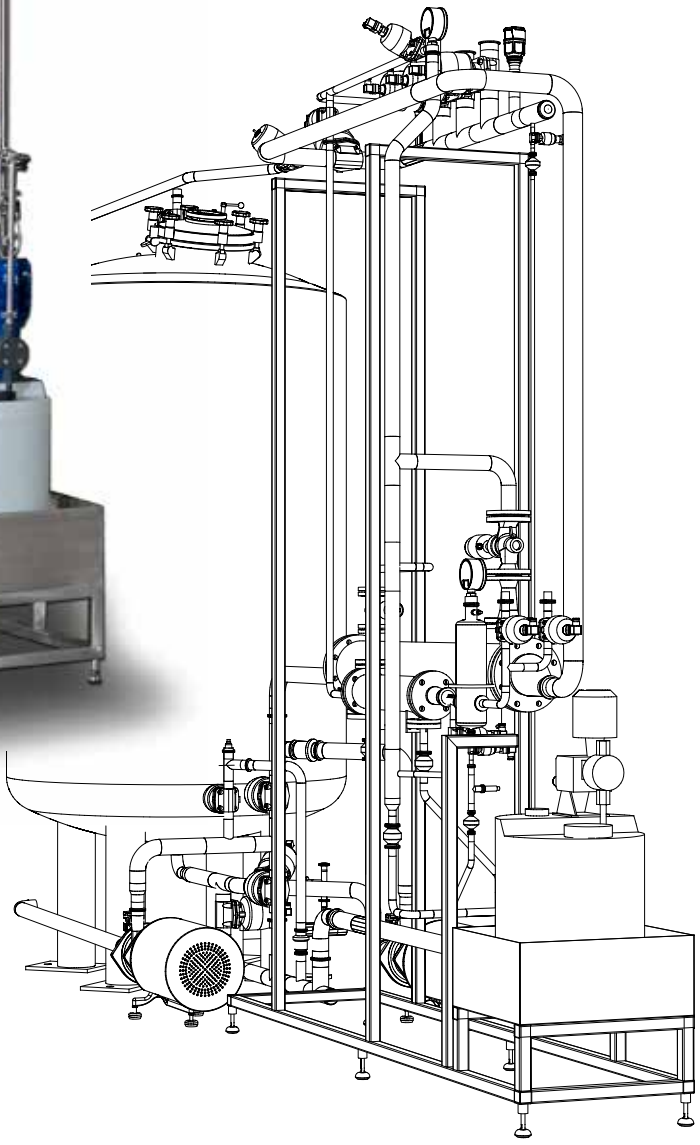
CIP SIP SKIDS

CLEANING, STERILIZING AND DRYING IN PLACE OF PHARMACEUTICAL,BIOTECH AND COSMETIC EQUIPMENT IS THE MOST APPROPRIATE AND SAFE METHOD TO PREVENT CROSS CONTAMINATION, REDUCE DOWN TIME AND MAKE PRODUCTION LINES READY TO RUN WITH RECORDED AND TRACEABLE REPORTS



CLEANING IN PLACE

- Minimized water consumption during CIP cycles, thanks to an optimized process design
- Appropriate control systems for automatic/semi-automatic operations in compliance with 21 CFR part 11
- Full support for all Validation activities

PRE-WASHING
- PW loading
- PW heating
- PW supply

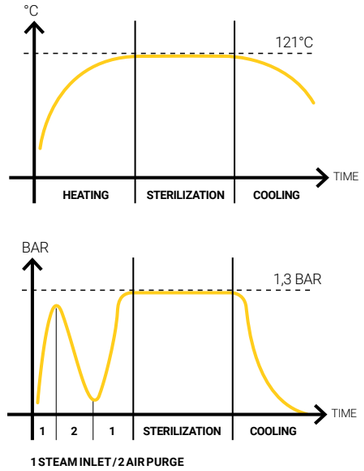
CIP PREPARATION
- PW loading
- Detergent loading
- Stabilization µS
- Solution heating
- Solution supply

FINAL RINSING
- WFI loading
- WFI heating
- WFI supply

HOT DRYING
- CA circulation
- Heating (by resistor)
- Hot CA forced circulation

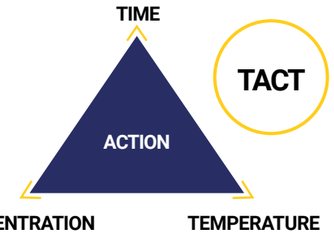
STERILIZATION IN PLACE

The Steam-In-Place (SIP) System is responsible for repeatedly steaming of product contact areas. A SIP system ensures that all zones being steamed have been exposed to clean steam for an adequate time to ensure the desired "kill" effect. The supplied control system is able to measure and control steam temperature, pressure, and/or flow to ensure adequate steaming.



EFFECTIVENESS OF CLEANING AGENTS

4-WAY INTERACTION



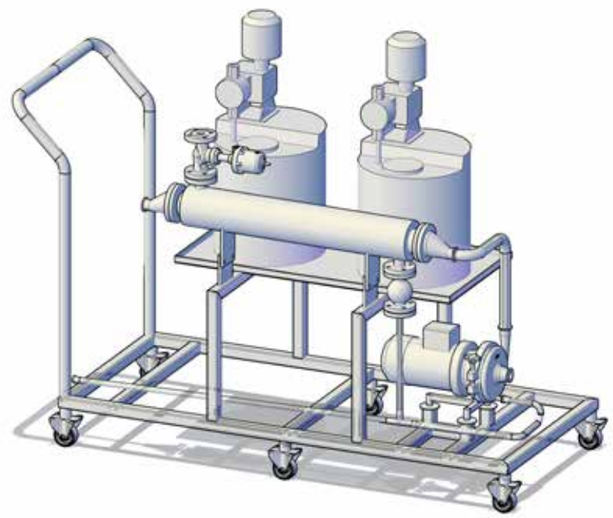
DRYINGINPLACE

The CIP SIP skid can be equipped with electric elements for compressed air heating; after CIP final rinsing, hot air is blown into transfer lines to provide drying phase.

OLSA CIP SIP units can be provided with either one or two or more water buffer tanks, sanitary heat exchanger to heat up the washing solutions, detergent/chemical dosing groups in order to optimize the cleaning method according to product characteristics.

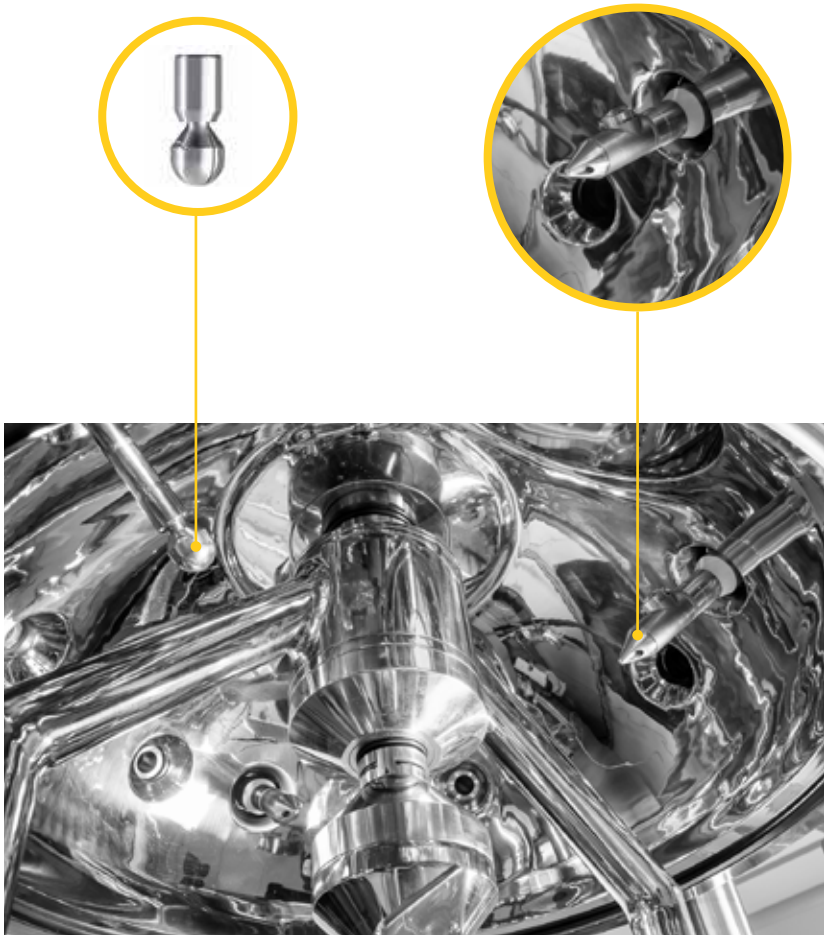
A full control of the process parameters such as flow, pressure, level, conductivity, pH and TOC are secured by top level instrumentation, managed by an appropriate control system.

SANITARY HEAT EXCHANGER
Double Tube Sheet type used for those pharma applications where the mixing of the tube-side fluid and the shell-side fluid must be avoided.

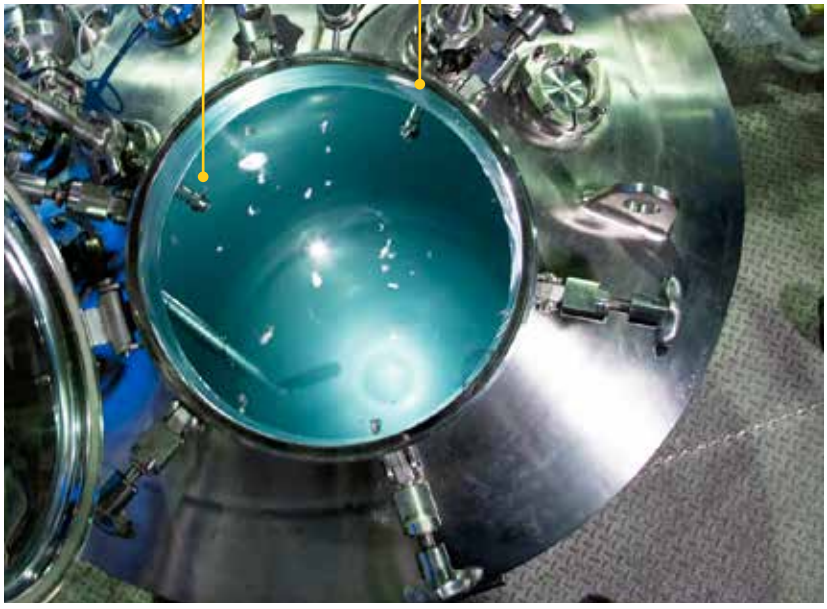


MOBILE CIP TROLLEYS

Mobile CIP trolleys provide cleaning-in-place minimizing investment and installation time. The CIP trolleys can either be connected to the department Control Board or be provided with its own electric board.



Spray heads position and design are
a key factor to grant an effective cleaning.



HOW OLSA GRANTS A THOROUGH CLEANING IN PLACE

With products that present difficulties in cleaning in place or when water consumption is a concern, OLSA can offer a wide range of technical solutions studied to achieve top quality cleaning standards:

- High impact multi axis 360° spray heads
- Customized position of jet sprays along the vessel walls beside top entry
- Utmost attention to prevent any dead zone that might create zones not accessible to the jet spray. OLSA tanks design in full compliance with cGMPs is determinant for a successful cleaning
- The use of detergent can be either selected or skipped according to cleaning validation protocol

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