Washing and sterilization systems

Serving the pharma industry worldwide



Exceed expectations

Innovative washing equipment and customized loading racks

Diversified, steam and ETO sterilization range

Fully automated closure processing equipment

Drying and depyrogenation ovens

Automation systems







Solutions for the pharmaceuticals and biotechnology companies

Located in modern factories near Venice in Italy, Steelco Group is a major global supplier of infection control and contamination prevention for the healthcare, laboratory and pharmaceutical sectors. Steelco's success is demonstrated by its strong growth, becoming the partner of choice for many of the world's leading pharmaceutical companies who appreciate the company's:

Experience and knowledge

- Strong track record of establishing long term global partnerships.
- Integrated in-house operations in more than 52.000 sq.mt. manufacturing sites. Equipment totally manufactured in Italy.
- Fully certified quality systems with knowledge of pharmaceutical manufacturing standards.

Global footprint

- Global HQ in Italy with regional customer support centres in America and Asia.
- Network of factory trained agencies in over 100 countries worldwide with after service capabilities.

Extensive product range

With over 3000 installations worldwide, Steelco offers a wide portfolio including:

- Innovative washing equipment with customized loading racks.
- Diversified sterilization equipment, steam, terminal sterilization and ETO range.
- Innovative fully automated closure processing equipment.
- Drying and depyrogenation ovens.
- Automation systems to maximize productivity and safety.

Flexible solutions

- Ability to meet the most challenging processing needs.
- Only using best proven readily available from the market control systems and components.



Center of washing systems production



Center of sterilizers production

Quality engineering process

Steelco Group's engineering experience encompasses knowledge and understanding to be able to satisfy the most stringent requests from clients.



3D project layouts

Steelco Group offers complete 'turnkey" solutions for washing and sterilization processes in the pharmaceutical sector, with the ability to undertake all stages of a project from concept to delivering solutions that exceed customer expectations.

Steelco's extensive experience assists customers to increase process productivity and quality with improved ergonomics whilst limiting costs.



Quality system certification

We constantly strive to improve on our high standards to enable us to deliver optimal solutions for our partners in the pharma industry.









ISO 9001:2008
Quality management systems

2008 ISO 13485:2012

AEO/C Certification SAI GLO

SAI GLOBAL ISO 13485:2003 & CMDCAS

Extensive customer support services

Customer service excellence is Steelco Group's commitment to our clients and a cornerstone of our success with emergency service support if needed available, 24 hours, 7 days a week.



Integrated architecture

Steelco can install new equipment into an existing automation system through the adoption of a simple (HMI) or more sophisticated (SCADA) man-machine interface.



Compliance and guidelines

The planning and the production of our washing, drying systems and sterilization is based on standards and guidelines recognized both worldwide as well as in the final installation country.

Control system

User friendly control systems developed according to the latest GAMP and design for 21 CFR Part 11 available, sourced from the best available suppliers avoiding customized electronics.

Validation documents

User safety, product quality and data integrity are Steelco Group core values. Factory Acceptance Test and Site Acceptance Tests.

DQ (Design Qualification), Installation qualification (IQ), operational qualification (OQ), and performance qualification (PQ) are provided in standard version or customized according to the final scope of supply.





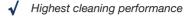




Pharma grade washers

Steelco understands the particular critical cleaning, disinfection and drying requirements of equipment and components used in pharmaceutical production including:

- Glassware
- Filling line components and tools
- Tubing, TC fittings
- Valve and pump bodies, filter housings
- Punches and Dies
- Reactor vessels and diverse equipment
- Bulk containers, tanks and carboys



- √ Protection of processed items
- √ Low power and water consumption
- √ Efficient drying system
- √ Repeatable and validatable process
- ✓ Globally available components and technical support
- √ Temperated Glass Door







Chamber volume

from 230 litres / 8 cu.ft to 2.400 litres / 85 cu.ft

Available in different dimensions and configurations

ML Series

Pharma grade parts and glassware washers



Single (or double) hinged chamber door and dual locking mechanism to guarantee clean environments.

Machines are designed for pharmaceutical products such as glassware, pipettes, machine parts, tanks, glass bottles, pill stamps, carboys, tubes, needles, etc...)

Chamber volume

from 465 litres / 16 cu.ft to 3800 litres / 134 cu.ft

Exceed industry standards

High performance cGMP compliant pharma grade washing systems available as **single or pass-through double door versions** to provide an effective barrier system between different zones.

Easy and safe access is assured using large automated vertical (either up or downward) or horizontal sliding glass doors or hinged door type.

Steelco can provide customised solutions with special drying programs or HPV (hydrogen peroxide vapor) decontamination according to customer needs.

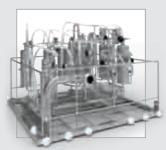


Pharma carts and trolleys

Standard and customized solutions

Using sophisticated 3D tools, Steelco's engineering department optimizes cart design in order to reduce process time and water consumption whilst maximizing process effectiveness.







LC 80 PH Series

Cabinet washing system



LC 80 PH is a versatile system to treat large volume of items such as wash containers, large components, ultracentrifuges, bulk chemicals.

Easily adjustable floor guides for different carts with access to filter. Spray nozzles on oscillating arms for perfect washing results. High performance efficiency with steam heater versions available.

- Easy cart connections
- Double drying unit with capacity of 1000 m³/hour
- Lateral rotating washing pipes with nozzles to assure a adequate cleaning of all parts of loaded items
- Repeatable and validatable
- Automatic loading and unloading system available upon request

Chamber volume

from 4.250 litres / 150 cu.ft to 10.500 litres / 370 cu.ft

Available in different dimensions and configurations



LB Series

Bin washer equipment

The LB Series is specifically designed for the cleaning and drying of containers and drums in pharmaceutical validated processes.

- Continuous moving spray arms
- 360° constant bin rotation during the cycle
- Drying unit with 1000 m³/hour capacity

Chamber volume

from 5.000 litres / 177 cu.ft to 10.000 litres / 353 cu.ft





Easy cart connection

Machines can be equipped with special cart connections for water injection.

Complete system including carts are tested with all critical process parameters monitored.





Steelco also produces a "Closure washer" version without sterilizations (LT series)

LST/LT Series

Closure processor

Innovative customized stopper processor solutions for highly cost-effective projects. Process validated with major suppliers of stoppers and multinational pharma companies.

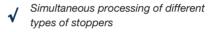
Complete treatment of closure devices such as: rubber stoppers, plastic stoppers, droppers and other similar components.

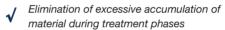
Chamber volume

from 40 litres / 1.4 cu.ft to 480 litres / 17 cu.ft



Where continuous sterility has to be maintained, the LST Series offers washing, rinsing, siliconizing, sterilizing, drying and cooling all in one solution.





Minimized particle generation due to mechanical stress and effective endotoxin reduction

Enhanced surface exposure to process fluids

Optimized washing process, with effective endotoxin and particle reduction

Uniform silicone distribution on individual stoppers and the entire batch

Optimization of the cip phase

Compatible with different loading/unloading systems, with the option of interfacing with vaporized hydrogen peroxide isolators.





AV Series

Saturated steam sterilizers

Versatile cGMP Steam Sterilizers, available in single or pass-through versions, with hinged (AVL Series) or sliding doors (AVS Series).

Built to a high standard, each unit is tailored to the customer's individual specifications. Cart guides are welded into chamber floor for easy loading.

Components from the market.

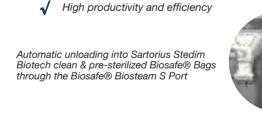
Only Stainless Steel material: AISI 316L chamber, door, jacket, piping. AISI 304: control board and frame.

"Unique" design of door gasket with standard warranty three years without replacement. PLC with copy of source code.

Open architecture Siemens or Allen Bradley.

Chamber volume

from 195 litres / 7 cu.ft to 10.000 litres / 353 cu.ft







AGS/AGS-E Series

Ethylene Oxide Sterilizer

Low temperature sterilization of heat-sensitive items, according to the EN 1422 Standards. Suitable for plastic and rubber products, perfusion sets, dialysis cartridges and special surgical instruments.

Highest performance and versatility, sterilizing with Ethylene Oxide.

Chamber volume

from 1000 litres / 35 cu.ft to 63.000 litres / 2.225 cu.ft

The AGS/AGS-E series is engineered for safe and cost efficient cycle, protecting operators.

Steelco's range of ETO sterilizers use thermal combustion for a complete breakdown of the sterilizing gas.



Steelco Group follows the ATEX, US, OSHA, NFPA and FDA regulations and complies with ISO 11135. EN 1422.



Terminal Sterilization

AMS Series

ASW Series

Steam Air Mixture sterilizer

Superheated Water sterilizer

Used to sterilize liquids in sealed or heat-sensitive containers such as: bottles, ampoules, vials, semi-open containers, bags, blister packs, pre-filled syringes, pouches, contact lenses, LPV's, etc, and also for the pasteurization of products like blood plasma.

Chamber volume

from 830 litres / 29 cu.ft to 25.000 litres / 883 cu.ft

Air-Steam or Superheated Water Process?

Selection depends on the products thermal properties, level of dryness to be reached, utilities available on site and running costs.

Available in several different chamber sizes and configurations with accessories to tailor each unit to exact requirements with automatic loading & unloading systems.





SD Series

Hot Air drying/sterilization/depyrogenation Oven

Sterilization and depyrogenation of heat resistant materials including bottles, vials, glass containers, metal trays and production equipment, laboratory glassware and instruments, materials sensitive to humidity, thermostable basic pharmaceutical products, chemical compounds and non aqueous liquid materials such us oils, glycerines, etc.

Chamber volume

from 330 litres / 12 cu.ft to 10.000 litres / 353 cu.ft



EG Series

Hot Air Drying Oven

The EG series is used for drying by hot air of materials such as granulates, pellets, powders and porous loads.

For the treatment of granules with the presence of solvents, the dryer can be equipped to monitor flammability hazard by controlling LEL.

Chamber volume

from 330 litres / 12 cu.ft to 10.000 litres / 353 cu.ft



Sterilization solutions Serving the pharma industry worldwide



Steelco DS PL range Industrial challenging application washers



Washers, disinfectors and automated systems for animal cages, feeding bottles and fish tanks

Steam sterilizers VS L series for pharma and research laboratories



Laboratory glassware washing systems



Headquarters and Center of washing systems production

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