



Life Sciences 

# The Complete Pharmaceutical Solution

Experts in Pharmaceutical decontamination for critical environments, Sychem delivers comprehensive solutions for Life Sciences.

[CIP, WIP & SIP Systems](#)

[Isolators](#)

[Wet Shower](#)

[VHP Generators](#)

[Steelco Equipment](#)

[Belimed Equipment](#)

[Servicing](#)

[Consumables](#)

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# The Complete Solution

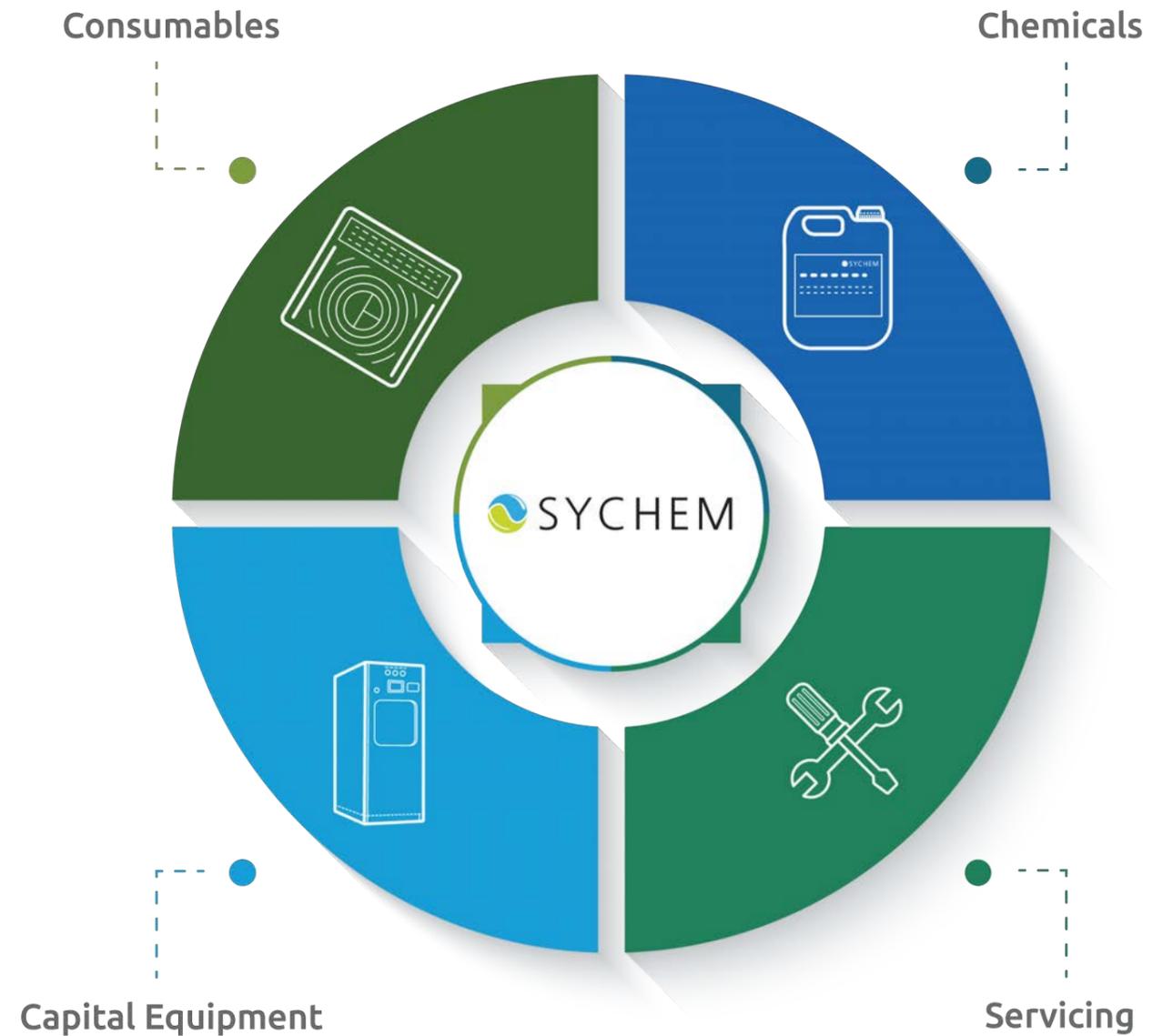
For over 40 years, Sychem has provided innovative decontamination and sterilisation solutions tailored for Pharmaceutical environments.

Our extensive portfolio includes industry-leading equipment, chemicals, and servicing to maintain the highest standards of hygiene, compliance, and efficiency. Whether for small labs or large pharmaceutical facilities, we support every step of your decontamination process.

### Our Accreditations:



Quality you can trust,



solutions you'll love.

## Pharmaceutical Grade CIP, WIP & SIP Systems

Clean In Place (CIP), Sterilisation In Place (SIP) and Wash/ wet In Place (WIP) systems are critical, automated, hygienic cleaning solutions designed to remove product residues and contaminants from the internal surfaces of process equipment, including vessels, piping, bioreactors, filters, and transfer lines, without the need for disassembly.

In the Pharmaceutical, Biotechnology, Nutraceutical, and Personal Care sectors, effective in-place cleaning is critical for:

- Product quality and end user safety
- Adheres to regulatory compliance and validation
- Operational efficiency and validated repeatability

### Performance Advantages

#### ✓ Validated Cleaning Performance

Precision sizing, flow rates (1.8 – 2.2m/s), and pressure control ensure complete residue removal while maintaining efficient cycle times

#### ✓ Optimised Utility Use

Automated cycles and recirculation options which reduce water, chemical, and energy consumption while maintaining cleaning integrity.

#### ✓ Regulatory Ready

Meets global standards: FDA cGMP, 21 CFR Part 11, ASME BPE, UL, and CRN. Full validation documentation and audit support is available.



### Key Features of The System

- ✓ Skid-mounted or modular design
- ✓ PLC-based automated control
- ✓ Recipe-driven cleaning cycles
- ✓ Integrated conductivity and temperature monitoring
- ✓ Hygienic instrumentation and process valves

### Compliance & Validation

- ✓ EU Annex 1 Aseptic Manufacturing Requirements
- ✓ ISA-88 Batch Control Architecture
- ✓ Full IQ/OQ Documentation Support
- ✓ Biological and chemical residue verification (TOC, conductivity, swab/rinse recovery)

Fully adaptable to match your specific operational requirements.



### Engineered for Seamless Integration

At Sychem, we understand that no two processes are the same. Our CIP systems are fully customisable and engineered around your specific process conditions. From different tank sizes to tailored cleaning processes, we design every system to integrate seamlessly into your production requirements.

Backed by technical expertise and a thorough understanding of pharmaceutical operations, we deliver reliable CIP solutions that perform with confidence in even the most demanding environments.



## Ortner Partnership

Since 1985, Ortner has been at the forefront of cleanroom technology, combining cutting-edge innovation with deep expertise to deliver world-class solutions. Their commitment and focus lie in creating engineered microbiologically and particle-clean environments which ensure fast, safe, and reliable cleanroom processes that protect people, products, animals, and the environment from contamination risks.

This dedication has earned them the title of "SME World Market Leader," making them a trusted partner in an industry which demands stringent cleanliness and sterilisation standards.



### Additional Features

Through our partnership with Ortner, we offer advanced additional options on our Isolators, including advanced automation, integrated monitoring, and remote maintenance access.

These additional features strengthen compliance, improve operational oversight, and deliver greater confidence in controlled pharmaceutical environments.





## Isolators

Advanced isolator systems with rapid, automated bio-decontamination, ensuring aseptic and toxic process containment.

### Specialising In:

- Aseptic manufacturing and processing
- Sterility testing
- Safe handling of hazardous substances
- Bio-decontamination for personnel and product safety
- Demand-specific configurations

### Aseptic Isolator

A modular closed system for aseptic production and processing. Positive pressure prevents contamination, ensuring the highest sterility assurance. Intuitive touchscreen operation enhances user efficiency.



### Cytostatic Isolator

A negative pressure containment system for handling toxic substances. Protects personnel and the environment from hazardous exposure. Automated airlocks facilitate safe material transfer.



### Sterile Test Isolator

A secure system for handling powdered active substances. Negative pressure prevents contamination escape. WIP/CIP ensures thorough, validated cleaning.



Ensuring sterility, safety, and compliance every step of the way.



ADVANCED  
CONTAINMENT  
SOLUTIONS

### Mobile VHP Generators

Designed for Pharmaceutical and Laboratory applications, the ISU range delivers reliable, high-quality clean steam for sterilisation and critical processes. The ISU 1.0 offers a compact, space-saving design optimised for small-scale applications, ensuring consistent steam quality with reliable performance and minimal maintenance.

The ISU 2.0 provides a high-volume, high-capacity solution for large-scale operations, offering consistent high-purity clean steam, robust and efficient continuous performance and easy integration into existing systems.



## Wet Showers

Ortner's Wet Shower systems offer a reliable, efficient, and fully automated method for personnel decontamination, designed specifically for Pharmaceutical, Laboratory, Chemical, and BSL Zone D applications.

These GMP-compliant showers ensure maximum protection by significantly reducing contamination carryover from high-risk zones.

### Comprehensive, Validatable Decontamination

Plug-in, factory-qualified systems support five key processes: personal cleaning, chamber cleaning, drying, disposal, and maintenance. Each unit is easy to maintain, cost-effective, and supports consistent, repeatable results through automation.

With adjustable rinsing times, automatic blow-off using clean compressed air, and integrated chamber cleaning nozzles, these Wet Showers provide flexibility and performance.

SCALABLE  
DECONTAMINATION



### Advanced Safety & Compliance Testing

- Fluorescence test ensures consistent cleaning quality
- Riboflavin test validates wet cleaning processes using UV visual inspection
- Reproducible, automated cycles tailored to meet GMP and biosafety standards
- Protects against contamination carryover and hazardous substance exposure

### Optional Configurations & Features

- Door cleaning nozzles (2 per door)
- Bag-out port for safe removal of contaminants
- Compressed air monitoring
- Breathing air interface for personnel
- Foot sole cleaning system
- Upper door closers for added containment
- Models with 3-door configurations available upon request

## Microbiological Air Shower

Ortner's Microbiological Air Shower is a standalone, modular lock system enabling secure pallet transfer from Class D to Class C cleanrooms or defined intermediate classes, while simultaneously performing particulate cleaning and microbiological decontamination.

Depending on requirements, the Air Shower offers flexible operation with manual, semi-automatic, or fully automatic loading and unloading.

Due to its modular design and flexible adaptation options, the system can be seamlessly integrated into existing cleanroom processes.

INTEGRATED  
CLEANROOM



### Key Features

- Annex 1 approved with a fully validated repeatable process
- Fast cycle times
- Minimal utility needs
- Fully validated process for repeatable cycle
- Compatible with multiple material handling logistic systems

### Optional Configuration & Features

- Room monitoring sensors (analogue or digital) and digital base sensors
- Rail systems (floor + wall) for guided logistics
- Remote maintenance capability
- Audit trail with HMI on the inner lock side
- HVAC connections and automatic door drives
- Communication interfaces including potential-free contracts, Ethernet and OPC-UA

## SteelcoBelimed Partnership

SteelcoBelimed Life Sciences delivers Swiss-engineered, cGMP-compliant decontamination and sterilisation solutions to the Pharmaceutical sector. SteelcoBelimed Life Science specialises in state-of-the-art systems for the Pharmaceutical, Biopharmaceutical, and Cosmetics industries.

Through our strategic partnership, Sychem provides precision-engineered decontamination solutions designed for reliability, compliance, and environmental sustainability, ensuring your facility meets the highest global standards.



## Bespoke Design Service

We provide tailored support for all scales, ensuring compliance with stringent regulations. From planning to execution, we optimise your facility's layout, integrating bespoke solutions that enhance operational efficiency while maintaining the highest hygiene and containment standards.

Our expert teams adapt every project to your workflow, compliance needs, and operational goals.



## Autoclaves

Saturated steam sterilisation for Pharmaceutical-grade decontamination. Ideal for glassware, medical instruments, textiles, and more.

Our systems are fully validated and documented according to the latest global standards, supporting compliance with current Good Manufacturing Practices (cGMPs) across Pharmaceutical and Biotech applications.

### Our Portfolio Includes:

- AV Series: Pharma-grade steam sterilisation
- ASW Series: Superheated water sterilisation

### AV Series

The AV Series Saturated Steam Sterilisers deliver effective, cGMP-compliant sterilisation for materials such as vials, rubber parts, glassware, and machine components.

Available in chamber volumes from 195 to 10,000 litres, each unit is tailored to customer needs and optimised for efficiency, reliability, and low energy consumption.

- ✓ Customised solutions for varying capacities
- ✓ Energy-efficient and high-performance sterilisation cycles
- ✓ Designed for maximum compliance and operational reliability



### ASW Series

The ASW Series Superheated Water Sterilisers are ideal for terminal sterilisation of liquids in sealed or heat-sensitive containers like infusion bags, ampoules, and contact lenses.

Designed to prevent thermal damage, these units range from 830 to 25,000 litres and include customisable features for maximum flexibility.

- ✓ Ideal for liquids in sealed containers
- ✓ Advanced process control and monitoring
- ✓ Customisable chamber sizes and configurations



Precision sterilisation, engineered for compliance



UNCOMPROMISED SAFETY

### Contact Us

Partner with Sychem for advanced Pharmaceutical sterilisation and decontamination solutions. Our team ensures compliance, efficiency, and optimal performance across all industry applications.

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## Washers

GMP-compliant automated washing systems for Pharmaceutical and Laboratory applications, delivering enhanced efficiency, reliability, and compliance across critical applications.

### Our Range Includes:

- DS Optima PH Series - Compact
- DS PH Series – Customisable
- LC PH Series – Large-Capacity

### DS Optima PH Series

Compact, cost-effective GMP washer for validated cleaning of pharmaceutical components. Designed for space efficiency and high-performance cleaning.



### DS PH Series

Customisable, high-throughput GMP washers ensure validated cleaning and drying for Pharmaceutical manufacturing.



### LC PH Series

Large-capacity Pharmaceutical-grade washers for bulk components and trolleys.

- ✓ Energy-efficient and high-throughput
- ✓ HEPA-filtered drying for optimal hygiene
- ✓ Configurable for single or double-door pass-through



Maximising efficiency, ensuring compliance.



**PHARMA-  
GRADE  
WASHING**

### Pharma Carts & Trolleys

Sychem, in partnership with Steelco, offers a wide range of washer-disinfectors for trolleys, sterile containers, and bulk medical equipment. Designed for efficiency, cross-contamination prevention, and HEPA 14 drying, our solutions ensure validated cleaning with full traceability and compliance.



## Steam Sterilisers

In partnership with Belimed Life Sciences, Sychem's advanced Steam Sterilisers deliver high-performance sterilisation across Pharmaceutical, Laboratory, and Biomedical environments.

Designed for precision, compliance, and efficiency, our sterilisers support a wide range of applications, from sterilising equipment, textiles, and containers to the decontamination of laboratory waste. With scalable configurations and modular designs, our solutions are built to meet industry-specific requirements with maximum reliability.

### Applications of Our Sterilisers

- ✔ **Pharmaceutical & Biotech**  
Sterilisation of production equipment, ampoules, stoppers, and reagents
- ✔ **Laboratories & Research**  
Decontamination of culture media, glassware, and lab waste
- ✔ **Animal Care & Biomedical**  
Sterilisation of cages, bedding, and feeding bottles
- ✔ **Healthcare & Cleanrooms**  
Ensuring regulatory compliance for medical and surgical equipment

### PST.2: GMP-Compliant Sterilisation

The PST.2 Steam Steriliser is a high-performance, GMP-compliant autoclave designed for pharmaceutical production, research, and cleanroom applications. Built on a modular platform, it offers unmatched customisation options, shorter delivery times, and seamless integration into existing workflows.

- ✔ **GMP-Compliant & Customisable**  
Tailored configurations to meet stringent Pharmaceutical and Laboratory requirements
- ✔ **Advanced Control Technology**  
Siemens or Allen Bradley controls ensure precision and process security
- ✔ **Scalable Design**  
Available in 19+ chamber sizes, from 240L to 3000L+ for diverse sterilisation needs
- ✔ **High-Quality Construction**  
Engineered for long-term reliability, efficiency, and compliance

### Advanced Steam Sterilisation for Critical Environments



**PRECISION  
STERILISATION**

### Pharmaceutical Facility Fit-Outs

Sychem delivers end-to-end Pharmaceutical fit-out solutions, transforming cleanrooms, production areas, and laboratory spaces to meet GMP standards. We manage every stage, from design and planning to installation, validation, and aftercare, ensuring your facility is fully optimised for safety, efficiency, and compliance.

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## Cleaning Systems

In partnership with Belimed Life Science, we provide advanced Pharmaceutical Cleaning Systems designed for the thorough and efficient cleaning of critical components used in drug production and laboratory environments.

Our range ensures compliance with GMP standards while optimising hygiene, reliability, and operational efficiency.

### Cleaning Applications:

- Hoses, filling needles, pumps, valves, pipe sections
- Containers, filtration equipment, machine parts
- Tablet presses, measuring cylinders, bottles
- Transport containers, equipment, drums, pallets, and more

**ENSURING COMPLIANCE**

### PH 810

A compact, GMP-compliant cleaning system designed for the cleaning, preparation, and drying of pharmaceutical components. Engineered with uncompromising hygienic design, intuitive operation, and low maintenance, it ensures superior cleaning performance for drug production and laboratory applications.



### PH 8x0.2

This range of Pharma-Washers is developed for cleaning and drying components in pharmaceutical production, filling, and packaging, as well as laboratory glassware and cleanroom transport equipment. Featuring an optimised hygienic design and streamlined operation, these washers meet stringent cleanliness and validation requirements, ensuring compliance and operational efficiency.



### PH 880.2

A high-performance cleaning system tailored for large-sized components, including containers, drums, and pallets. As part of the extensive PH 820.2–PH 860.2 range, it provides flexible configurations to suit pharmaceutical processing needs. Standardised construction and innovative design ensure efficiency, adaptability, and compliance with industry regulations.



### PH 390

A compact, space-saving cleaning, disinfection, and drying system designed for high-throughput laboratory and industrial applications. The modular concept features five compact cabins for separate cleaning, rinsing, and drying functions, enabling short wash cycles and increased efficiency. With a single-side service access, maintenance is streamlined to minimise operational disruption.

**Precision cleaning for a healthier tomorrow**



## ABC Transfer Partnership

In partnership with ABC Transfer, we support the delivery of high-performance sterile transfer solutions, engineered for pharmaceutical environments. ABC Transfer designs, manufactures and distributes a comprehensive range of Rapid Transfer Systems (RTS) with aseptic transfer technologies.

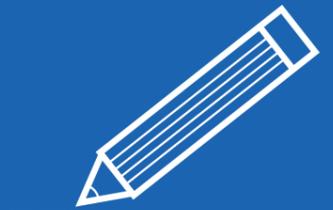
Together, our range ensures optimised contamination control and seamless material transfer across controlled environments while supporting regulatory compliance, ergonomic handling and operational excellence.



## Customised Project Support

Our expert Projects Department designs, installs, and validates Pharmaceutical-grade decontamination and sterilisation equipment.

We provide tailored support for all scales, ensuring compliance with stringent regulations. From planning to execution, we optimise your facility's layout, integrating bespoke solutions that enhance operational efficiency while maintaining the highest hygiene and containment standards.





## Rapid Transfer Ports (RTP)

Through our trusted partnership, we offer a range of Rapid Transfer Ports (RTP). These aseptic transfer systems are designed to improve the pharma processes through their cGMP design, ergonomics and regulatory compliance.

Designed to improve operator ergonomics, enhance aseptic transfer and sterility assurance while simplifying maintenance, the Rapid Transfer Ports offer flexible operation.

### Advanced Performance by Design

- Seamless integration with double-wall isolators
- Class 1 transfer system (ISO 10648)
- Fully validated Alpha and Beta interfaces
- Reduced ring of concern
- Reduced friction enabled by EasyGlide™ patented silicon seals
- Lightweight design for improved handling and ergonomics
- Modular design for streamlined maintenance

**SEAMLESS  
INTEGRATION**

### Ultra™ System

The ULTRA™ system is an aseptic, gloveless transfer solution specifically designed for the sterile transfer of components via ported bags, eliminating the need for glove ports. Combining state-of-the-art technology with the gloveless Alpha Port, ULTRA™ Betacleanbag™, and a manually operated channel, it delivers control and efficiency.



### Alpha Port

The Alpha Port is a state-of-the-art rapid transfer port for isolator systems used in pharmaceutical and sterile production environments. Designed to support aseptic transfer with enhanced sterility assurance, it incorporates a revolutionary EasyGlide seal design and safety lock features to minimise contamination risks and streamline cleanroom operations.



### Beta Container

The Beta Container is a high-performance aseptic transfer container designed for repeated use in pharmaceutical production lines. It enables simple, secure, sterile transfer of tools and components to filling lines and is compatible with other rapid transfer manufacturers.

Their unique performance ensures sterility is maintained for several days following autoclaving, even when stored at ambient pressure within a Grade C environment.



### Single-use Bags

Our range of next-generation Betabags™ brings significant improvements to sterility assurance and operational ergonomics. Specifically designed for parenteral product applications, as well as many more applications. The connector is designed for gloveless aseptic transfers, featuring smooth, edge-free surfaces and enabling efficient component flow.

Our betacleanbag™ systems are compatible with equipment from other manufacturers, ensuring seamless integration into your existing setup.



### A complete range of accessories

Manufactured to the highest standard and compliant with GMP requirements, these accessories are designed to seamlessly integrate into your processes and enhance operational efficiency.





## Complete CQV & Aftersales Support:

At Sychem, we offer comprehensive nationwide support to ensure Pharmaceutical operations remain compliant, efficient, and uninterrupted.

Our expert team provides industry-leading service solutions, tailored maintenance, and qualification support to uphold GMP standards.

### Our Services Includes

- ✔ **CQV Expertise**  
Ensuring compliance with stringent Pharmaceutical standards
- ✔ **IQ/OQ Protocols**  
Rigorous testing to verify equipment performance and design compliance
- ✔ **PQ Execution & Support**  
Performance Qualification assistance, cycle development, and fault diagnosis
- ✔ **Service & Validation**  
Reliable maintenance, calibration, and compliance assurance
- ✔ **Local Spare Parts Supply**  
Quick access to critical components for minimal downtime
- ✔ **Nationwide Coverage**  
Extensive network of engineers supporting Pharmaceutical operations across the UK

### Our Expert Team:

- Dedicated Resource Coordinators
- Specialist Technical Support Desk
- 35+ Service and Test Personnel



### Our Accreditations:



**UK LEADING  
SERVICE  
PROVIDER**



**35 +**

Service Engineers



**950 +**

Contracted Assets



**240 +**

Total Sites



**1300 +**

Unique Stocked Parts



# Consumables Portfolio

From **specialised detergents** for cleaning glassware and components to skin-safe hand **hygiene products** that support aseptic conditions, our solutions are tailored to the strict needs of the Pharmaceutical Industry.

*Get in touch with the team today for tailored solutions.*



**SCAN THE QR CODE TO  
VIEW OUR FULL RANGE OF  
CONSUMABLES.**

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