

НАСОСНЫЕ СИСТЕМЫ STERITEST SYMBIO



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Sterility Testing Made Easy

Pioneering Excellence with Steritest™ Symbio Pumps

Merck is a renowned expert in sterility testing. When we invented the Steritest™ closed filtration device in 1974, we made sterility testing reliable. With our Steritest™ Symbio Pumps and accessories, reliable sterility testing is now even easier. They will speed up and streamline your workflow, maximizing safety, confidence and convenience:



Designed to Fit Your Testing Environment

The pumps and accessories are designed to answer the challenges of usage in laminar flow hoods, isolators and cleanrooms.

Test Reproducibility Through Step-by-Step Assistance

Simple test management software allows easy creation and usage of test methods. Operators are given step-by-step assistance throughout the testing procedure.

Comprehensive Services to Meet Regulatory Compliance

Our service experts help to ensure compliance with a comprehensive range of first-class professional services, such as installation and training, validation protocols and IQ/OQ services.

The Solution to All Your Testing Problems

Easy-to-Use Design

- Reduced pump height for easy access in laminar flow hoods
- Compact pump frees working space and loading capacity in isolators
- Compatible with vertical and horizontal air flows

Reliable

- The automatic pump head closure ensures quick and easy tube placement, as well as reliable splitting of the liquid sample
- Highly precise timer function: small volumes are sampled with high precision

Safe

- Cleanroom-friendly hardware: air-tight housing and passive cooling prevent particle emission
- Two pressure modes – including automatic pumping speed reduction – alert the operator, reducing the risk of test interruption and minimizing the stress on any microorganisms that may be present
- Easy to clean and resistant to gas decontamination in isolators

Ergonomic

- The housing's ergonomic shape allows easy tube loading; no risk of pinching gloves and consequent test interruption

- Adjustable bottle holder height and tiltable display for perfect screen visibility
- Buttons designed to be operated with isolator gloves

User-Friendly

- Clear user interface displayed on a 11 cm (4.3 in.) color LCD screen
- Choice of operating language (Simplified Chinese, English, French, German, Italian, Japanese, Portuguese, Spanish, Russian or Turkish)
- Test methods library: store up to 250 filtration protocols and follow them step-by-step on the screen



First-Class Compliance Services

Our service experts will help to ensure compliance and speed up implementation of any of the Steritest™ Symbio Pumps in your lab with a comprehensive range of professional services.

Installation and Training

Get your system up and running quickly with our installation and training service.

Validation Protocols

Save precious time with our comprehensive and regulatory compliant validation protocols – from validation master plan to final report.

IQ/OQ

Simplify execution of your IQ/OQ. Our highly trained validation engineers will execute the system validation protocol for you, in your lab.

Maintenance Agreement

Stay compliant and ensure reliability of your pump over time with our maintenance agreements.

The Perfect Fit for Your Testing Environment

We understand the challenges and requirements of testing environments. That's why we have developed a complete set of pumps to suit the way you work.

Steritest™ Symbio LFH Pump

With its compact design, the Steritest™ Symbio LFH Pump can be used comfortably in the smallest testing environments, including in the laminar flow hood, biosafety cabinet, cleanroom or even inside an isolator.



Steritest™ Symbio ISL Pump

The Steritest™ Symbio ISL Pump is optimized for extremely convenient sterility testing inside isolators. Its table-integrated design offers more working space and loading volume in isolators.

What's more, its ergonomic buttons and knob can be easily operated while wearing isolator gloves. The pump is compatible with all standard round-table cutouts and is a perfect replacement for Steritest™ Integral and Steritest™ Equinox Isolator pumps (without table rework).



Steritest™ Symbio FLEX Pump

This Steritest™ Symbio FLEX Pump is very versatile, and can be installed in multiple ways – in either an isolator or a laminar flow hood.

The pump is compatible with all standard round cutouts, and is also the perfect replacement for the Steritest™ Equinox Isofit, as it will also match its oval cutout without the need for table rework.



Smart™ Accessories for Ideal Integration into Any Testing Environment

Usage in Laminar Flow Hood

Steritest™ Communication Hub Holder for Hoods (Figure 1)

- Easily attach the communication hub to one of the legs of the laminar flow hood
- Using the communication hub holder allows easy access to the pump's main switch, accessories connectors and keeps the floor free of cables

Steritest™ Symbio FLEX Handles (Figure 2)

- Add those optional handles to your Steritest™ Symbio FLEX pump when used on feet in a vertical laminar flow hood

Usage in Isolator Without Cutting the Table

Steritest™ Connection Cable Extension with Tri-Clover Clamp (Figure 3)

- Use the optional connection cable extension with Tri-Clover clamp for the connection of the Steritest™ Symbio LFH or FLEX Pump to the communication hub when used in an isolator

VHP-Resistant Feet

- The VHP-resistant feet are easy to install on Steritest™ Symbio LFH or FLEX Pumps when used in an isolator

Steritest™ Symbio FLEX Handles (Figure 2)

- Add those optional handles to your Steritest™ Symbio FLEX pump when used on feet in an isolator without a cutout



Figure 1. Steritest™ Communication Hub Holder for Hoods.



Figure 2. Steritest™ Symbio FLEX Pump with Handles.



Figure 3. Steritest™ Connection Cable Extension with Tri-Clover Clamp.

Steritest™ Glass Ampoule Breaker*

- Keeps your bench clear of glass particles or droplets
- Glass parts are collected inside the container (up to 40 ampoules)
- Easy to empty
- Stable feet allow flexible placement in your testing environment

Steritest™ Holder for Sterile Bags and Steridilutor® Vent Chamber*

- Prevent vials from leaking when reconstituting powders by using the holder to keep the Steridilutor® Vent Chamber above the liquid level
- Free your work bench by hanging sterile bags on the holder hooks

Steritest™ Syringe Support*

- Safe handling of syringes with needles
- Automatic dispensing of sterile fluid to dilute the content of the syringes, eliminating the need to turn the dilution bottle between syringes during testing

Steritest™ Waste Overfilling Sensor for Solid Containers

- User is warned via both an audible signal and visual alert on the Steritest™ Symbio Pump screen when the waste container is almost full
- Test in progress can be finished before the waste container is emptied or replaced

Steritest™ Canister Carrying Tray and Steritest™ Rack*

- Up to 20 media-filled canisters safely transported and incubated at once
- No more risk of canisters falling out

*This accessory is autoclavable and resistant to vaporized hydrogen peroxide and peracetic acid decontamination cycles in isolators.

Safe Shipment of Your Steritest™ Symbio Pump

- In order to ensure safe shipment of your Steritest™ Symbio Pumps for their yearly maintenance, a special shipment case is available.
- Compatible with all Steritest™ Symbio Pumps.



Ordering Information

Description	Qty/Pk	Cat. No.
Steritest™ Symbio Pumps		
Steritest™ Symbio LFH Pump Kit, 2 media	1	SYMBLFH01WW*
Steritest™ Symbio ISL Pump Kit, 2 media	1	SYMBISL01WW*
Steritest™ Symbio FLEX Pump Kit, 2 media		SYMBFLE01WW*
Steritest™ Symbio Pumps accessories	1	
Steritest™ Symbio Software	1	MerckMillipore.com/steritest-software
Steritest™ Pump foot switch	1	SYMBFSW01
Steritest™ glass ampoule breaker	1	SYMBABR01
Steritest™ pumps syringe support	1	SYMBSYS01
Steritest™ Symbio waste overfill sensor for solid containers	1	SYMBWFS01
Pressure control kit for Steritest™ pumps	1	TQ00PSI01
Steritest™ holder for sterile bags and Steridilutor® vent chamber	1	SYMBSVB01
Steritest™ Symbio communication hub holder for isolators	1	SYMBCHI01
Steritest™ Symbio communication hub holder for hoods	1	SYMBCHH01
Steritest™ Symbio pumps universal shipment case	1	SYMBSCA01
Steritest™ Symbio VHP resistant feet	4	SYMBFEE01

Description	Qty/Pk	Cat. No.
Steritest™ Symbio pump feet for laminar flow hood (height 23 mm)	4	SYMBFEE02
Steritest™ Symbio connection cable extension with Tri-Clover® clamp	1	SYMBXTC01
Steritest™ Symbio drain tray support for 2 canisters, FLEX pump, high integration	1	SYMBDSF02
Steritest™ carrying trays for 5 canisters	8	SYMBCAN08 Now available
Steritest™ rack to hold up to 4 canisters carrying trays	2	SYMBRACK2 Now available
Steritest™ Symbio FLEX optional handles	2	SYMBFHA01
Steritest™ Symbio FLEX high integration kit for round cutout	1	SYMBFHR01
Steritest™ Symbio FLEX high integration kit for oval cutout	1	SYMBFHV01
Consumables		
Steritest™ devices, culture media and rinsing fluids	Varies	Please refer to our website or contact your local sales representative
Steritest™ Symbio Pump Services		
Steritest™ Symbio pumps validation protocol (A4 format)	1	SYMBA4VP1
Steritest™ Symbio pumps validation protocol US (letter format)	1	SYMBLTVP1

* Ask your local sales representative for the pump best suited for your testing environment and your local country code.

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