



Spotlight on our Lab Products

2023 Edition

Simplifying Progress

SARTORIUS

The Latest Solutions for Your Lab

Working in a scientific lab environment means you face growing challenges every day. At Sartorius, our daily mission is to help you enhance lab efficiency. That's why we continuously develop innovative products and services to facilitate and accelerate your workflows. Find out how you will benefit from our latest lab solutions and our longstanding expertise.

Find out more

For more information, please visit
www.sartorius.com



We have placed this icon next to products manufactured with 100% renewable energy and very good recyclability.





Moisture Analyzer



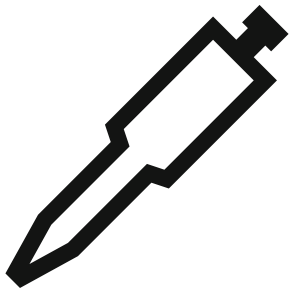
Lab Weighing



Lab Water



Lab Filtration



Pipetting



Microbiological Analysis



Service



Learning



Lab Weighing

Entris® II Basic Balance

Best Value in Its Class for Basic Weighing Tasks

No matter what you're weighing, our Entris® II balance is always the right choice. Our Entris® II Essential line is the only balance in its class offering isoCAL, LED touch technology, and 12 built-in applications at a budget price. With over 40 models from which to choose, you will surely find a model to meet your basic weighing needs.

Features

- High chemical resistance – ensured using parts made from hard-wearing Polybutylene terephthalate (PBT), stainless steel and glass
- isoCAL – automatic internal calibration and adjustment
- Fastest stabilization time in its class
- Real „PC-direct“ feature
- 12 built-in applications with GLP | GMP compliant printout | data output

Entris® II Advanced Balance

Every Sartorius balance offers quality, value, and consistency

Our Entris® II Advanced line gives you additional value to the Entris® II portfolio, with over 38 models offering benefits such as real-time level support, integrated protection systems, CalAuditTrail, a graphic touch display and 13 built-in application programs.

Features

- Simplifies balance leveling with built-in real-time level support
- Increases reliability of weighing results using integrated protection systems
- Controlled access to balance settings with user management
- Gapless documentation thanks to CalAuditTrail
- Even easier usability with graphic touch display
- Provides gapless documentation with automatic documentation of calibration and levelling processes, and date and time stamp
- One additional built-in application: Pipette Smart Test





Lab Weighing



Moisture Analyzer

Cubis® II Premium Balance

Data Integrity and Connectivity

Need to comply with 21CFR11? Need the fastest stability on the market? Cubis® II – Your Balance, Your Way.

Features

- The world's highest resolution in a micro weighing instrument with up to 60 million divisions
- Integrated Software - no need for additional computer
- Full end-to-end data integrity. 21 CFR Part 11 compliance, integrated audit-trail, state-of-the-art user management
- Error-free operation. Individual QApp workflows, motorized auto-leveling*
- Integrated climate sensors
- Individual sample holders
- Outstanding service support. Integrated status center, integrated service functions preventive maintenance on accredited standards

* For all models up to a maximum capacity of 8.2 kg

MA160 Moisture Analyzer

Flexible instrument with advanced features

A flexible instrument with advanced features for the ideal use in a variety of industries! The MA160 uses the thermogravimetric method to determine the moisture content of liquids, pastes and solids – conveniently, reliably and in minimum time. Typical areas of application include moisture analysis of foods, beverages, chemicals, paper materials, building materials, plastics and products for environmental protection.

Features

- Exceptionally high-speed measurements (up to 30% faster)
- Method Development Assistant function
- Memory capacity for storage of methods and results
- Method import and export via SD card
- Reliable performance testing
- Effortless cleaning
- User-friendly operation
- Downward compatibility with MA150 and MA35





Lab Filtration

Minisart® Syringe Filters

No. 1 Choice for Your Filtration Applications

Innovative design coupled with the largest surface areas and fastest flow rates make Minisart® syringe filters the ideal choice for all your syringe filtration needs.

Features

- Large effective filtration area (EFD) of 6.2 cm²
- Available in wide range of configurations
- Low adsorption
- Superior flow rate

Benefits

- Fast simple, and economical
- Low hold-up volumes and maximal recoveries
- Low adsorption of analytes
- Maximum chemical compatibility
- Minimum extractables or leachables
- Bidirectional use possible
- 100% optical integrity test
- Membranes with a wide choice of pore sizes
- HPLC Certification available

Sartobind® Lab IEX

Laboratory Scale Ion Exchange Membrane Adsorbers

Sartobind® Lab units with ion exchange (IEX) membranes are ready-to-use for rapid purification in laboratory experiments. Due to their macroporous structure these membranes are ideal for capture of large proteins and viruses, without observing size exclusion effects. The Lab IEX units can be easily operated manually by a syringe or connected to an FPLC system. Combining the advantages of Sartobind® membrane adsorbers with a syringe filter design, Sartobind® Lab offers rapid chromatography that's as easy as filtration.

Benefits

- Ready-to-use units
- Reusable or single use
- Flow rates up to 30 MV/min
- No bed cracking or channelling
- Convenient operation by syringe
- Compatible with pumps or chromatography systems
- Connect in series for increased binding capacity



New Product!





Lab Filtration

Sartolab® RF|BT

Best Engineered to Meet Today's Highest Requirements

Sartolab® RF | BT vacuum filtration units are convenient filtration units designed for research purposes and, therefore, for the filtration of small volumes from > 50 mL to 1 L. Sartolab® RF as a complete system includes a receiver flask to the filtration funnel. Sartolab® BT is a bottle top filter (filtration funnel) without a receiver flask, enabling customers to use their own receiver flasks and/or to expand the filtration capacity, depending on the particle load of the filtered liquid, by filling more than one receiver flask.

Features and Benefits

- Highest flow rates with a large filtration area
- No loss of protein with a low protein affinity membrane
- Low hold-up volume due to an optimized membrane support
- Can be used as stand-alone system or with the Sartolab® Multistation, which allows parallel filtration of up to 6 samples
- **New!** Non-sterile bulk versions available



Sartoclear® Dynamics Lab

Quick and Efficient Harvest of Animal Cell Cultures

Sartoclear® Dynamics Lab ready-to-use-kits combine a filter aid with a vacuum filtration unit for clarification and sterile filtration in a single step of high density mammalian cell cultures.

Features

- Cell culture filtration of up to 1L in single step
- Filtration unit with 0.22 µm PES membrane
- Vacuum filtration unit with filter aid included in single kit
- Sartoclear Dynamic Lab kits compatible with Sartolab® Multistation

Benefits

- Fast result with high flow rates and single step filtration
- Efficient - No need of centrifugation step
- Hands-free parallel filtration with the Sartolab® Multistation without need of extra vacuum connector installation and time-consuming stabilization



Expanded Portfolio





Lab Filtration

Sartolab® P20 Pressure Filter Units

Compact Design for the Filtration of Large Volumes

Sartolab® P20 devices are ready-to-use pressure filter units for the clarification and sterile filtration of media and aqueous solutions in batches from 100 mL to 10 L. Sartolab® P20 Plus with an incorporated prefilter is recommended for difficult-to-filter solutions like, for example, media that contains serum.

Features and Benefits

- Highest flow rates with a large surface of filtration (20 cm²)
- No loss of protein with a low binding membrane
- Low dead volume due to an optimized membrane support
- Versions available with a prefilter for high particle load solutions
- **New!** Recently expanded Portfolio



Vivaspin® Centrifugal Concentrators

Flexible and Efficient Protein Concentration

Vivaspin® products offer a comprehensive range of devices for fast protein concentration from 0.5 ml to 20 ml volume capacities. The large range of different molecular weight cut offs, from 2 kDa to 1000 kDa and 0.2µm offer a solution to every concentration need. Unique Vivaspin® 20 can be pressurized and centrifuged simultaneously for processing difficult samples.

Features and Benefits

- Guaranteed sample recovery – no risk of concentrating to dryness
- Vertical membrane configuration
- Easy to find the perfect ultrafiltration device for your application due to large product selection. Widest volume capacity range and molecular weight cut off ranges
- **Important:** Centrisart 1 and Vivacell 100 have recently joined the Vivaspin family as Vivaspin® Filtrate and Vivaspin® 100, respectively





Lab Filtration

Vivaflow® Crossflow Devices

Plug and Play Crossflow Devices for Sample Concentration

Disposable and reusable tangential | crossflow cassettes for concentration, diafiltration and buffer exchange of biological samples and nanoparticles from 0.1 – 5 l with MWCOs from 3 kDa to 1000 kDa. Available with PES and Hydrosart® ultrafiltration membranes, Vivaflow® 50, 50R and 200 are the only true laboratory crossflow cassettes on the market. They are simple to set up and can be operated with any laboratory pump with flow rates of 200 – 400 ml/min.

Features and Benefits

- Allows selection of the optimal membrane based on filterability and chemical compatibility
- Plug and Play Systems
- Choice Between Disposable and Reusable Products
- Increases filtration area, thus enabling faster filtration and/or increasing total volume throughput

Claristep® Filtration System

Sample Preparation of Eight Samples in One Go!

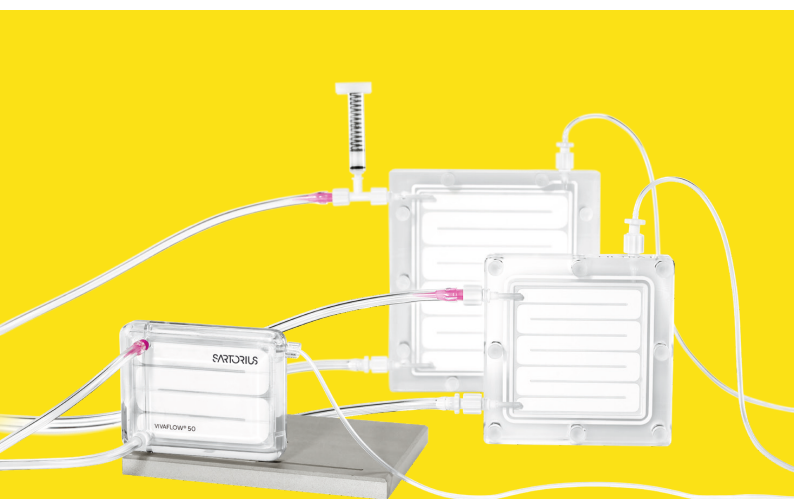
Do you process dozens of samples each day? Need to reduce the time, effort and waste in sample preparation? Claristep® - Ideal solution for sample preparation by particle removal prior to analytics.

Features

- Multiplexing of up to 8 samples
- Syringeless filters and simple manual processing
- Filter sample volumes from 60 to 600 µl
- Made of highest purity materials

Benefits

- Fast and easy to use to maximize your throughput
- Reduced stress and waste with syringeless filtration
- Short sample contact time and high purity to achieve best analytical results





Lab Water

Arium® Mini

Designed to deliver pure performance

Compact Arium® Mini laboratory water systems have been designed for Type 1 ultrapure water requirements of 10 liters per day and are ideal for use in preparation of buffers, media and samples, both in life sciences applications and in analytical laboratory procedures. A large, touch-activated screen and intuitive menu navigation ensure exceptionally easy operation. Regardless of your type of feed water available, use Arium® Mini or Arium® Mini plus featuring our unique bagtank technology or connect Arium® Mini essential directly to your deionized water supply line in the lab.

Features

- Reliable: Delivers consistently high water quality for reliable and reproducible results
- Intuitive: Touch-activated color display with direct access to all important dispensing options
- Innovative: With unique bagtank technology, depending on the type of system; saves time-intensive tank cleaning
- Compact: Space-saving, with a width of only 28 cm



Arium® Pro

Tailored to Your Specific Requirements

As a reliable source of ultrapure water, the Arium® Pro series offers a flexible and modular system which, compared to conventional devices, demonstrates excellent added value. All systems meet and exceed the ASTM Type 1 water quality standards and ensure the best reproducible results in their class. Up to 2 liters of consistently high-quality ultrapure water with a conductivity of 0.055 $\mu\text{S}/\text{cm}$ can be dispensed per minute. The ultrapure water is virtually microorganism-free when an Arium® SterilePlus final filter is used. The patented Sartorius technology, the SD card slot, the long service life and low maintenance requirement distinguish the Arium® Pro systems as an easy-to-use, economical and reliable Type 1 ultrapure water system.

Features

- Modular – System selection specifically for your application
- Flexible – Perfect integration into any laboratory
- Easy to use – Display with touch function and intuitive menu
- Fast – Favorites function with direct access for recurring volumes





Lab Water

Arium® Comfort

Space-saving Twin Technology

Arium® Comfort I is an easy to use system for producing ASTM Type 1 ultrapure water and Type 3 pure water. The system contains state-of-the-art reverse osmosis technology and a unique cartridge specifically for the production of the highest ultrapure water quality.

Compared to conventional water systems, the Arium® Comfort I optimizes water consumption using the integrated iJust control unit. This unique touch display with intuitive menu navigation ensures the utmost ease of use.

With the optionally integrated TOC monitor, its compact design, the flexible display and the SD card slot, the Arium® Comfort I is the ideal choice for demanding laboratory applications.

Features and Benefits

- Time-saving – Use of innovative bag technology, eliminates costly tank cleaning
- Optimized water consumption – automatic with iJust
- Easy to use – Display with touch function - and intuitive menu
- Quick – Favorites function with direct access for recurring volumes



Arium® Smart Station

Water. Exactly where you need it.

The Arium® Smart Station is designed for flexible remote dispensing of pure and ultrapure water directly at the point of use.

While dispensing water into a broad range of different sized containers, the Smart Station offers constant control of all important quality parameters, at all times. The ergonomic design supports left and right hand operation and can be easily adjusted to your need.

Features and Benefits

- Compact: Save space integrating in your lab
- Intuitive: touch-activated color display with direct access to all important functions
- Flexible: Stepless height adjustment to fill different size containers
- Ergonomic Design: Hand-held for optimized left or right-hand operation
- Accurate: Precise volume dispense for reliable buffer and sample preparation
- Adjustable, splash-free flow rate from drop-by-drop to 2 liters per minute
- Arium® SmartStation is compatible with Arium® Pro and Arium® Comfort I





Microbiological Analysis

Sterisart® Universal Pump

Ergonomic and User-friendly Pump for Sterility Testing

The Sterisart® Universal pump is specially designed for sample and media transfer into the Sterisart NF systems. It is suitable for use in cleanrooms and isolators. The pump surface is made of high grade stainless steel and all critical parts can be easily cleaned, disinfected and autoclaved. In addition to the basic version, an upgraded version featuring a display, barcode scanner and user software is also available.

Features and Benefits

- Closed System – No Ventilation
- Sophisticated & Modular Design
- With Peracetic acid, H₂O₂ and acetic acid (2.5%); Quaternary ammonium; Formaldehyde and glutaraldehyde; Isopropyl alcohol, Ethanol 70%.
- Enhanced traceability and documentation of the used media and products
- Ergonomic Handling



Sterisart® NF System

Your Choice For Sterility Testing

The Sterisart NF System is a unique and completely disposable technology based on the membrane filtration method used in conjunction with the Sterisart Universal Pump which allows for the sample and media transfer within the Sterisart NF System. Both work together to enable the sterility testing of pharmaceutical & medical device products in full compliance with international pharmacopeias.

Features and Benefits

- Unique Septum for Aseptic Sampling
- Pre-installed color-coded tube clamps for easy and reliable assignment to each Sterisart NF container
- Product/lot number identification for traceability of the product for documentation and security
- Modular design pump which is easy to decontaminate





Microbiological Analysis

Microsart® @filter & Microsart® @media

Advancing Membrane Transfer for Microbial Enumeration

Microsart® @filter combined with Microsart® @media offer a unique hands free membrane transfer technique minimizing the risk of contamination during your microbial enumeration test.

Features and Benefits

- The innovative membrane transfer is a touchless transfer to the agar avoiding the introduction of air bubbles ensuring perfect membrane to agar contact
- The design of the Microsart® @filter base fits perfectly onto the Microsart® @media for reliable transfer of the membrane
- The reliable membrane transfer reduces handling and minimizes sources of contamination resulting in more reliable testing results



MD8 Air Monitoring Systems

Fixed or Portable Viable Air Monitoring for Controlled Environments

The MD8 Viable Air Monitoring systems combined with the gelatin membrane filters constitutes a sampling system for accurate, reproducible and quantitative detection of microorganisms & viruses. The samplers can also be used with BACTair culture plates for impaction sampling.

Features and Benefits

- Gelatin membrane filters are capable of detecting the smallest airborne viable contaminants, including viruses
- Sampling head compatibility with in-line sterilization processes allows for disinfection and prevention of contamination
- Continuous 8 hours sampling facilitates EU GMP Annex 1 regulatory compliance





Pipetting

Picus® and Tacta® Pipettes

Reliable and Ergonomic Pipetting

Sartorius simplifies pipetting and offers repeatable results time after time. The pipette and tips are designed to fit together and let you produce repeatable results at the level you need them to be.

Features

- Intuitive and simple user experience
- Low pipetting and tip ejection forces that reduce the risk of repetitive strain injury (RSI)
- Uniquely lightweight and compact
- Advanced safety features: Optilock, Safe-cone filters, password protection, calibration reminders

Benefits

- Achieve reliable results
- Be kind to your hand, by choosing Tacta® and Picus® pipettes
- Speed up your work with electronic Picus® & Picus® Nxt



Pipette Tips

Tips Designed to Match Your Pipette

Sartorius Optifit Tips and Safetyspace® Filter Tips are designed to fit perfectly Sartorius pipettes for maximum pipetting accuracy and reproducibility.

Features

- Perfect and soft sealing with Sartorius pipettes
- Unique safety space between filter and sample
- Extremely even and durable surface in low retention tips
- Packing options for every lab and color-coding to match your pipette

Benefits

- Ensures precise and repeatable results of your pipette
- Protect sample purity with Safetyspace® filter tips and purity certified Optifit tips





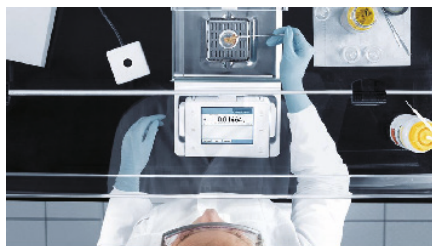
Learning

Comprehensive Solutions for Your Application Areas

Leverage Sartorius expertise built on a foundation of long-standing knowledge and continual innovation. With customized solutions for your application area, we provide everything you need for success in the Life Science, Biopharmaceutical Manufacturing, Quality Control and Testing, and Applied Industries.

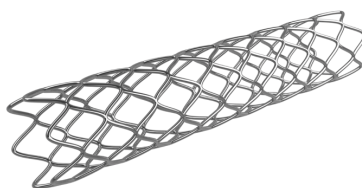
Move your work forward with our portfolio and exceed your goals for reliability, reproducibility, and rapid results!

Our 2023 Spotlight Campaigns



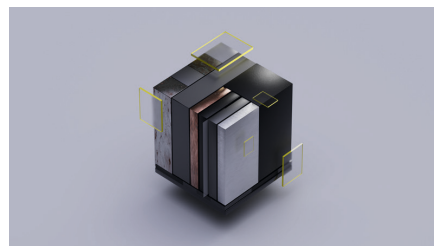
Pharmaceutical QC

Our solutions minimize risk of contamination during handling of tools and decrease time-to-result. They ensure that the desired product quality is met for final product release.



Medical Devices Manufacturing & QC

Let Sartorius support you in maintaining reliable and risk-mitigated processes, delivering high-quality products and ensuring regulatory compliance.



Battery Manufacturing

Sartorius provides solutions for several steps of the rechargeable battery manufacturing process - from material purity determination and in-process optimization to final release.



We Are Your Service Partner for All Sartorius Laboratory Products

Laboratory Weighing

- Laboratory Balances
- Mass Comparators
- Moisture Analyzers
- Test Weights | Weight Sets

Pipetting and Dispensing

- Mechanical Pipettes
- Electronical Pipettes
- Dispensers

Industrial Microbiology

- Sterisart® – Sterility Testing
- MD8 – Air Monitoring

Water Purification

- Arium® Lab Water Systems

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