



# Spotlight on our Lab Products

2022 Edition

Simplifying Progress

**SARTORIUS**



# The Latest Solution 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.



Lab Weighing



Moisture Analyzer



Lab Filtration



Lab Water



Microbiological Analysis



Liquid Handling



Applications



## Lab Weighing

### Entris® II Basic Balance

#### Best Value in Its Class for Basic Weighing Tasks

No matter what you're weighing, the new 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

### 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



## Moisture Analyzer

### MA160 Moisture Analyzer

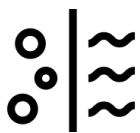
#### Flexible instrument with advanced features

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 cm<sup>2</sup>
- 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



### 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.

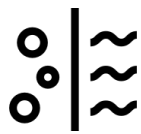
##### Features

- 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 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 Design!



## 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.

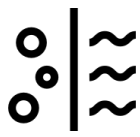
#### Features

- 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





## Lab Filtration

### 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
- Collection tube fit under concentrator body for increased sample volume access in Vivaspin® 6 and Vivaspin® 20
- 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



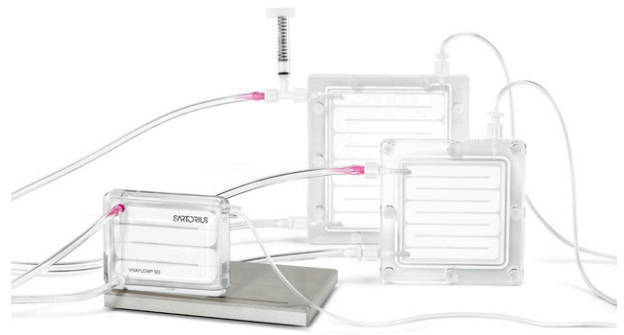
### Vivaflow® Crossflow Devices

## 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







## 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® 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

New Product!



## Microbiological Analysis

### Rapid Microbiology Testing Kits

Better Be on the Safe Side Fast!

Bacteria, Fungi & Mycoplasma kits deliver results in only 3 hours. It is the perfect solution for the release of ATMPs, biopharmaceutical in-process testing or research purposes.

#### Features and Benefits

- PCR technique delivers results in only 3 hours
- Internal control reduces the risk of false positives
- TaqMan® probes provide high reaction specificity





## 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, H<sub>2</sub>O<sub>2</sub> 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





## Liquid Handling

### 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





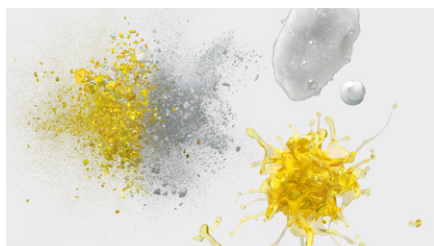
## Applications

# 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.

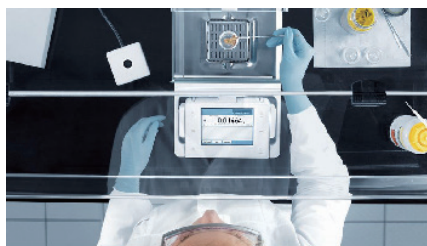
Move your work forward with our portfolio and exceed your goals for reliability, reproducibility, and rapid results!

## Spotlight Campaigns



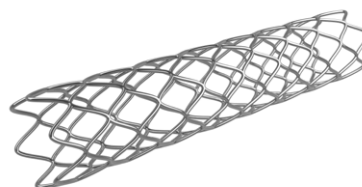
### **Chemical & Consumer Care**

Innovative solutions for efficient and simplified chemical analysis



### **Pharmaceutical QC**

For high sensitivity analyses, every detail counts



### **Medical Devices Manufacturing & QC**

Maximum productivity and accuracy are critical success factors



# Sales and Service Contacts

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If you have any questions, please contact your Sales  
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