



sartorius

Lab Products & Services US Selection Guide 2020



turning science into solutions

Sartorius Laboratory Products & Services

US Selection Guide 2020



1870

Founding year of Sartorius

The "university mechanician" Florenz Sartorius founded a precision mechanical workshop, "Feinmechanische Werkstatt F. Sartorius."

1888

First short-beam analytical balance built

Florenz Sartorius unveiled a short beam analytical balance that stabilized much faster than the conventional balances available.

1927

A Sartorius membrane filter company was started with Nobel Prize winner Zsigmondy

The company's primary objective was research development and manufacturing novel membranes.

1940

Manufacture of the first filter devices

The first filter devices manufactured by Sartorius facilitated breakthroughs in sterile filtration and microbiological testing of liquid media and gases.

1945

Key player in providing clean drinking water during World War II

During and after World War II, people were exposed to considerable risk of contracting diseases. Sartorius helped alleviate the situation by providing filters for testing drinking water. These were the beginnings of bacteriological analysis, one of Sartorius's core areas of expertise.

1960

Sartorius develops a range of hemofiltration products for people with kidney failure

Sartorius worked closely with leading specialist clinics and hospitals to develop hemofiltration products for patients with renal insufficiency. Its crossflow filter units were used to reliably filter out toxins from the human body.

1962

Guinness Book of World Records

Sartorius manufactured a vacuum ultra-microbalance called "Gastnanogram." For many decades, it was listed in the Guinness Book of World Records as the "most accurate balance in the world."

1969

Sartorius is involved in the Apollo 11 mission

Sartorius caused a worldwide stir by weighing the first moon rocks brought back by Neil Armstrong on the Apollo 11 mission.

1970

First subsidiaries founded worldwide

At the beginning of the 1970s, Sartorius began to establish its own subsidiaries abroad.

1971 - The first subsidiary was founded in Austria, then more companies were established.

1975 - The U.S. subsidiary was incorporated, which started in a hotel room in San Francisco, California.

c. 1980

The first manufacturer of pleated membrane filter cartridges

Sartorius was the first manufacturer to create membrane filter cartridges using pleated material well known in air filter technology. This space-saving design is still the basis for today's innovations in pleated membrane filtration equipment.

2009

The first fully modular-design laboratory balance

Sartorius developed the world's first modular and menu-configurable series of laboratory balances. As a result, they give users customized instruments to make their everyday workflows much easier and more accurate.

Sartorius Laboratory Products and Services is a global provider offering integrated solutions for your everyday lab applications. An industry leader for 150 years, we pride ourselves with our innovative expertise, diverse product portfolio, and excellent customer and product services.

Strongly rooted in the scientific community and closely allied with customers and technology partners, we provide laboratory weighing, filtration, purification, cell culture, microbiology, lab water, liquid handling, electrochemistry, and moisture products. Sartorius is dedicated to its philosophy of "turning science into solutions."

The purpose of this selection guide is to showcase features, benefits and specifications of our Lab products and services in an easy to follow format. Basic tables and simple graphic icons will allow you to find the right product for your application work-flows.

Sartorius Corporation

565 Johnson Ave.
Bohemia, NY 11716
Phone | 800.635.2906
Fax | 631.254.4252
www.sartorius.com



Customer Service

Phone: 800-635-2906 xt. 8272
Fax: 631-254-4252

Tech Support

Phone: 800-635-2906 xt. 8215
Fax: 631-254-4252

Service

Phone: 800-635-2906 xt. 8733

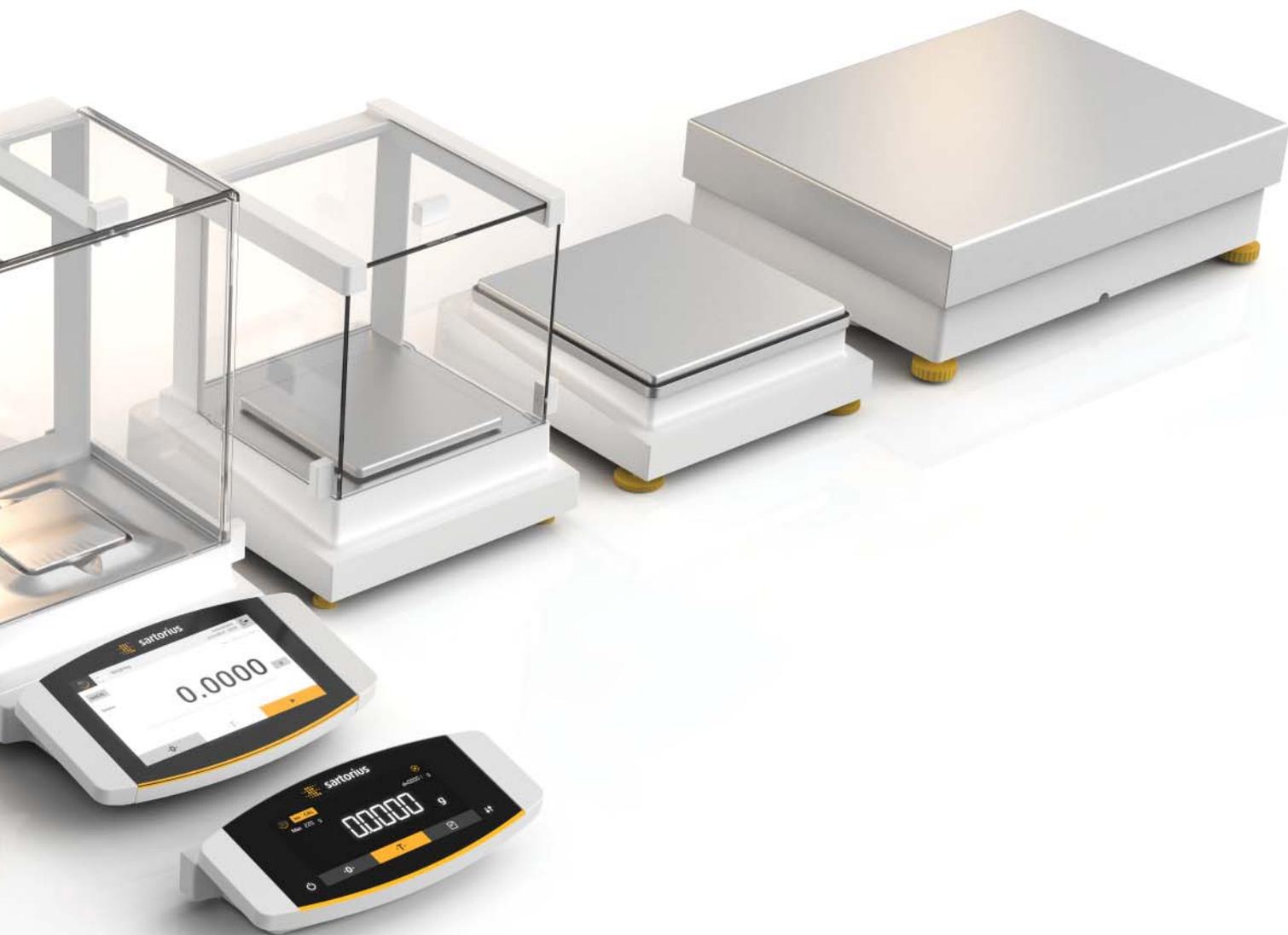
All prices and specifications listed herein are subject to change without notice. List prices effective January 1, 2020 through December 31, 2020. Version 0120

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Cubis® II: Your Balance, Your Way





In 2009, Sartorius offered the first modular balance with the Cubis®, and today continues that tradition by offering the Cubis® II, the first lab balance series featuring a completely modular design.

Cubis® II: The New Generation of Modular Premium Balances

Your Balance, Your Way

For scientists in R&D or analytical laboratories needing the most reliable lab weighing results, the Cubis® II platform from Sartorius is a completely configurable, high-performance portfolio of both lab weighing hardware and software. The Cubis® II will align with your unique demands and compliance requirements to help maximize your operational efficiency and experimental outcomes.

The Cubis® II platform is the only laboratory balance with fully customizable hardware, software, and connectivity. It offers modern user interfaces, pharmaceutical and GxP compliance, including data handling, data integrity and connectivity, ergonomic sample handling, easy process integration, and unlimited communication at the highest level of accuracy and precision.



Benefits

Customizable Modularity

- Thousands of hardware and software configurations supporting your personal preferences
- Thematically structured software packages for your optimized workflows
- Seamless connectivity to diverse laboratory information systems without the need of additional software
- Long-term flexibility guarantees adaptation of software and accessories to evolving regulatory and laboratory needs

Intelligence by Design

- Build-in applications guide you through your workflows
- Fast and easy leveling guaranteed with automatic, motorized leveling function
- Innovative draft shield technology with gesture sensor and memory functions
- Climate sensor for environmental monitoring
- Built-in ionizer for automatic electrostatic elimination.
- Status Center for user notifications and alerts*
- Ultramicro- and micro balances with innovative technology for top-edge performance

Confident Compliance*

- Full data integrity following ALCOA+ principles.
- Complete traceability via advanced audit trail and reporting function for efficient reviews
- Submission-ready data with remote data selection on web browser
- User management including centralized password management support ("single-sign-on" via LDAP), high security password configuration, login rules
- Electronic signature in compliance with 21 CFR Part 11

Trusted Results

- Leading Performance
- High Speed Accuracy
- Error-Free Operations
- Full End-to-End Data Integrity
- Reliable Support

*available with the MCA interface

Display and Control Units



| Type | MCA | MCE |
|-----------|--|--|
| Display | Large high end 7" color touch TFT display in 16:9 format with new user interface | State of the art TFT touch screen operation with brilliant, readable, display but simple, easy to operate user interface |
| Software | Factory installed basic set of essential weighing applications (license free) and Packages with special weighing applications and function extensions (license required) | Factory installed basic set of essential weighing applications |
| Operation | Activated by touch key, touch-free using IR sensor (draft shield M) or gesture sensor (optional), learning capability | Activated by touch key, touch-free using IR sensor (draft shield M) or gesture sensor (optional), learning capability |

Features

Onboard QApp Center

Choose your applications or individual balance functions from QApp packages clustered by different topics. License your selected package and integrate them into the tasks you can run on the balance.

Automatic, Motorized Leveling

Avoid the burdensome process of preparing your balance for use with the Cubis® II balance's quick and easy, motorized, auto-leveling function.

Gesture Control

The gesture sensor recognizes four gestures and can be positioned near the balance, directly in the flow of motion at your work space. It allows you to open and close the automatic draft shield, start the ionizer, or send a document to a device.

Ultra-Micro and Micro Balances

The world's first ultra-micro and micro balances with automatic motorized levelling, motion controlled and illuminated draft shield, and titanium inner parts. Weighing ranges from 0.1 µg to 10.1 g.

Built-in Ionizer for Electrostatic Elimination

Remove balance stabilization frustrations caused by electrostatic effects with the built-in ionizing technology of the Cubis® II balance. Electrostatic charges on samples and vessels are removed effectively, just by pressing one key or automatically when the draft shield door closes.

Climate Monitoring*

The climate sensor monitors influencing variables of the environment and ensures that temperature, pressure, and humidity do not negatively affect your results.

Status Center Notifications*

The Status Center shows all information about your balance and environmental conditions, e.g. calibration, leveling, temperature, humidity, air pressure and service, centralized in a dashboard. In case of warnings or errors, you get detailed help and support.

Confident Compliance – Complete Traceability

All data generated by the Cubis® II balance follow the key principles ALCOA (+), which defines data integrity standards and relates to GxPs. Therefore, the Cubis® II balance ensures safe and accurate data storage and supports all requirements for FDA directive 21 CFR part 11 and EU Annex 11 compliance.

Backup

Cubis® II can automatically execute time-controlled actions for backup. The system is able to upload data on a file share or export the data to other systems. Archiving is easily possible and fully compliant.

Save Data Transfer

An electronic record should be protected against any manipulation. The Cubis® II balance saves all files, together with a calculated MD5 checksum which is stored in the audit trail files and additionally in a separate MD5 file.

Time Synchronization

The Cubis® II balance supports automatic time synchronization via Network Time Protocol (NTP). An accurate time stamp is elemental for trustable records.

Audit Trail & Alibi Memory

The Cubis® II balance's audit trail is a tamper-protected time-stamped electronic logfile, that allows reconstruction of events related to the creation, modification, and | or deletion of records. The data can be displayed, filtered, and exported in an easy way.

Additionally, the Cubis® II balance contains an "Alibi Memory". The system automatically stores weighing data in a ring buffer.

User Management

The Cubis® II balance provides two options for complete user management with access control. The local user management can be configured in accordance with your password policy. The password rules for 21 CFR Part 11 compliance are easily implemented. Moreover, Cubis® II can be integrated in the company's domain to allow single sign-on. In this case the company defined password rules are implemented automatically.

Electronic Signatures

In the Cubis® II balance, an electronic signature can be used to sign the final report for weighing processes. Based on a secure password, the combination of username and password is fully compliant with 21CFR.

* available with the MCA interface

Cubis® Draft Shields

Select a draft shield and enter the corresponding identifier in the field marked with the icon.

O

No draft shield

Weighing modules:

- Precision, 0.01 g, 0.1 g, 1 g readability (pan size: 206 × 206 mm and 400 × 300 mm)
- Not applicable for model 5202S



A

Automatic, glass

Chamber height: 250 mm (9.8")

Learning capability

Weighing modules:

- Semi-Micro, Analytical (pan size: 85 × 85 mm)
- Precision, 1 mg readability and model 5202S



R

Removable, flat, stainless steel

Weighing modules:

- Precision, 1 mg readability and model 5202S (pan size: 140 × 140 mm)
- For weighing in areas where glass is not permitted or no draft shield is wanted



I

Automatic, glass

Chamber height: 250 mm (9.8")

Learning capability

Integrated ionizer - to eliminate electrostatic charges

Weighing modules:

- Semi-Micro, Analytical (pan size: 85 × 85 mm)
- Precision, 1 mg readability and model 5202S (pan size: 140 × 140 mm)



E

Manual, glass

Chamber height: 172 mm (6.8")

Weighing modules:

- Precision, 1 mg readability and model 5202S (pan size: 140 × 140 mm)



M

Automatic, glass

Chamber height: 67 mm (2.6")

Learning capability

Weighing modules:

- 2.7S (pan size: 20 mm)
- 3.6P & 6.6S (pan size: 30 mm)



U

Manual, glass

Chamber height: 261 mm (10.3")

Weighing modules:

- Semi-Micro, Analytical (pan size: 85 × 85 mm)
- Precision, 1 mg readability and model 5202S (pan size: 140 × 140 mm)



F

Manual, stainless steel

Chamber height: 20 mm (0.78")

Designed for weighing filters

Weighing modules:

- 2.7S & 6.6S only
- Standard pan size: 50 mm
- Optional pan sizes: 75 mm and 90 mm



QApp Packages



Pharma

QP1

The Pharma software application package contains applications concerning the topic compliance with pharmaceutical-relevant guidelines as 21 CFR Part 11 and USP 39, Chapter 41. The Pharma package includes applications such as user management, digital signatures, audit trail, USP minimum weight.



Advanced

QP2

The Advanced software application package includes various complex weighing applications incl. evaluation. This includes applications used for density determination, percentage weighing, counting, backweighing, residual dirt analysis, residue on ignition, sieve analysis, filter weighing, checkweighing, formulation, averaging, etc.



Utilities

QP3

The Utility software application package contains weighing applications and function extensions such as bootscreen, color scheme, free formula, fiber coarseness, diameter determination, air buoyancy correction, paper weight, statistics and printing of QR | bar codes.



Connectivity

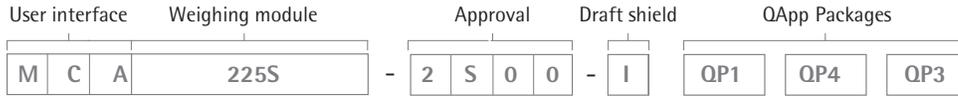
QP4

The Connectivity software application package includes applications for data exchange, for example to Windows file server, FTPS, StarLims, etc.

QP99

The software application package. All inclusive includes 4 different sub-packages for compliance (Pharma (QP1)), complex weighing applications (Advanced (QP2)), weighing applications and helpful tools (Utilities (QP3)) and connectors for data exchange (Connectivity (QP4)).

Configure Your Cubis® II Balance



(Example)

| Balance Type Weighing module* | Leveling | | Approval | Draft shield | | | | | | | Software packages** | |
|---|-----------|--------|---|--------------|---|---|---|---|---|---|---------------------|----------------------------------|
| | automatic | manual | S00, S01, CEU, CFR, CCN, OBR, OIN, ORU, | A | E | F | I | M | R | U | O | QP1, QP2, QP3, QP4 or QP99 |
| Ultramicro 2.7S | • | | • | | | • | | • | | | | • |
| Micro 10.6S, 636S, 3.6P | • | | • | | | • | | • | | | | • |
| Semimicro 225S, 225P, 125S, 125P | • | | • | • | | | • | | | • | | • |
| Analytical 524S, 524P, 324S, 324P, 224S, 124S | • | | • | • | | | • | | | • | | • |
| Precision 1 mg 5203S, 5203P, 3203S, 2203S, 2203P, 1203S, 623S, 623P, 323S | • | | • | • | • | | • | | • | • | | • |
| Precision 10 mg 5202S | • | | • | • | • | | • | | • | • | | • |
| Precision 10 mg 8202S, 6202S, 6202P, 4202S, 2202S, 1202S | • | | • | | | | | | | | • | • |
| Precision 10 mg 32202P**, 14202S, 14202P, 10202S | | • | • | | | | | | | | • | • |
| Precision 100 mg 5201S, 8201S | • | | • | | | | | | | | • | • |
| Precision 100 mg 12201S | | • | • | | | | | | | | • | • |
| High Capacity 70201S, 50201S, 36201S, 36201P, 20201S, 11201S, 70200S, 36200S | | • | • | | | | | | | | • | • |

*All weighing modules available with MCA or MCE display

**Software packages available for balances with MCA display only

Cubis® II Ultra-Micro Balances – Specifications & Pricing

2.7S

Capacity: 2.1 g
 Repeatability (±): 0.15 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 20|0.8 Ø

Readability: 0.1 µg
 Linearity (±): 0.7 µg
 Calibration Weight: 2 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA2.7S-2S00-M | 35,640 |
| MCE2.7S-2S00-M | 34,900 |

2.7S (with Filter Draft Shield)

Capacity: 2.1 g
 Repeatability (±): 0.15 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 50*|1.97 Ø

Readability: 0.1 µg
 Linearity (±): 0.7 µg
 Calibration Weight: 2 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA2.7S-2S00-F | 36,590 |
| MCE2.7S-2S00-F | 35,850 |

Cubis® II Micro Balances – Specifications & Pricing

6.6S

Capacity: 6.1 g
 Repeatability (±): 5 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 30|1.2 Ø

Readability: 1 µg
 Linearity (±): 3 µg
 Calibration Weight: 5 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA6.6S-2S00-M | 28,025 |
| MCE6.6S-2S00-M | 27,285 |

6.6S (with Filter Draft Shield)

Capacity: 6.1 g
 Repeatability (±): 5 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 50*|1.97 Ø

Readability: 1 µg
 Linearity (±): 3 µg
 Calibration Weight: 5 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA6.6S-2S00-F | 28,975 |
| MCE6.6S-2S00-F | 28,235 |

3.6P

Capacity: 1.1 | 2.1 | 3.1 g
 Repeatability (±): 3 | 4 | 5 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 30|1.2 Ø

Readability: 1 | 2 | 5 µg
 Linearity (±): 4 µg
 Calibration Weight: 2 + 1 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA3.6P-2S00-M | 21,610 |
| MCE3.6P-2S00-M | 20,870 |

3.6P (with Filter Draft Shield)

Capacity: 1.1 | 2.1 | 3.1 g
 Repeatability (±): 3 | 4 | 5 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 50|97 Ø

Readability: 1 | 2 | 5 µg
 Linearity (±): 4 µg
 Calibration Weight: 2 + 1 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA3.6P-2S00-F | 22,560 |
| MCE3.6P-2S00-F | 21,820 |

10.6S

Capacity: 10.1 g
 Repeatability (±): 5 µg
 Calibration Type: iso CAL
 Pan Size Dimensions [mm|in.]: 30|1.2 Ø

Readability: 1 µg
 Linearity (±): 3 µg
 Calibration Weight: 10 g

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA10.6S-2S00-M | 35,225 |
| MCE10.6S-2S00-M | 34,885 |

10.6S (with Filter Draft Shield)

Capacity: 10.1 g
 Repeatability (±): 5 µg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 30|1.2 Ø

Readability: 1 µg
 Linearity (±): 3 µg
 Calibration Weight: 10 g

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA10.6S-2S00-F | 36,175 |
| MCE10.6S-2S00-F | 35,435 |

Cubis® II Semi-Micro Balances – Specifications & Pricing

225S

Capacity: 220 g
 Repeatability (±): 0.01 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.01 mg
 Linearity (±): 0.065 mg
 Calibration Weight: 200 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA225S-2S00-U | 13,195 |
| MCA225S-2S00-A | 15,510 |
| MCA225S-2S00-I | 16,670 |
| MCE225S-2S00-U | 12,455 |
| MCE225S-2S00-A | 14,770 |
| MCE225S-2S00-I | 15,930 |

125S

Capacity: 120 g
 Repeatability (±): 0.01 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.01 mg
 Linearity (±): 0.065 mg
 Calibration Weight: 100 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA125S-2S00-U | 10,235 |
| MCA125S-2S00-A | 12,550 |
| MCA125S-2S00-I | 13,710 |
| MCE125S-2S00-U | 9,495 |
| MCE125S-2S00-A | 11,810 |
| MCE125S-2S00-I | 12,970 |

QApp Packages

| | add to List Price (\$) |
|--|------------------------|
| QP1 Pharma Package | 1,145 |
| QP2 Advanced Package | 935 |
| QP3 Utilities Package | 565 |
| QP4 Connectivity Package | 470 |
| QP99 All Inclusive Package (only available at time of purchase) | 2,130 |

225P

Capacity: 60 | 120 | 220 g
 Repeatability (±): 0.01 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.01 | 0.02 | 0.05 mg
 Linearity (±): 0.15 mg
 Calibration Weight: 200 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA225P-2S00-U | 11,480 |
| MCA225P-2S00-A | 13,795 |
| MCA225P-2S00-I | 14,955 |
| MCE225P-2S00-U | 10,740 |
| MCE225P-2S00-A | 13,055 |
| MCE225P-2S00-I | 14,215 |

125P

Capacity: 60 | 120 g
 Repeatability (±): .01 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.01 | 0.1 mg
 Linearity (±): 0.1 mg
 Calibration Weight: 100 g

| Model | US List Price (\$) |
|----------------|--------------------|
| MCA125P-2S00-U | 8,560 |
| MCA125P-2S00-A | 10,875 |
| MCA125P-2S00-I | 12,035 |
| MCE125P-2S00-U | 7,820 |
| MCE125P-2S00-A | 10,135 |
| MCE125P-2S00-I | 11,295 |



MSA225S-2S00-A

Cubis® II Analytical Balances – Specifications & Pricing

524S

Capacity: 520 g
 Repeatability (\pm): 0.04 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.1 mg
 Linearity (\pm): 0.2 mg
 Calibration Weight: 500 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA524S-2S00-U | 10,300 |
| MCA524S-2S00-A | 12,615 |
| MCA524S-2S00-I | 13,775 |
| MCE524S-2S00-U | 9,560 |
| MCE524S-2S00-A | 11,875 |
| MCE524S-2S00-I | 13,035 |

324S

Capacity: 320 g
 Repeatability (\pm): 0.04 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.1 mg
 Linearity (\pm): 0.2 mg
 Calibration Weight: 500 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA324S-2S00-U | 8,685 |
| MCA324S-2S00-A | 11,000 |
| MCA324S-2S00-I | 12,160 |
| MCE324S-2S00-U | 7,945 |
| MCE324S-2S00-A | 10,260 |
| MCE324S-2S00-I | 11,420 |

524P

Capacity: 120 | 240 | 520 g
 Repeatability (\pm): 0.04 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.1 | 0.2 | 0.5 mg
 Linearity (\pm): 0.2 mg
 Calibration Weight: 500 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA524P-2S00-U | 8,560 |
| MCA524P-2S00-A | 10,875 |
| MCA524P-2S00-I | 12,035 |
| MCE524P-2S00-U | 7,820 |
| MCE524P-2S00-A | 10,135 |
| MCE524P-2S00-I | 11,295 |

324P

Capacity: 80 | 160 | 320 g
 Repeatability (\pm): 0.04 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.1 | 0.2 | 0.5 mg
 Linearity (\pm): 0.2 mg
 Calibration Weight: 200 + 100 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA324P-2S00-U | 7,800 |
| MCA324P-2S00-A | 10,115 |
| MCA324P-2S00-I | 11,275 |
| MCE324P-2S00-U | 7,060 |
| MCE324P-2S00-A | 9,375 |
| MCE324P-2S00-I | 10,535 |



MCA524S-2S00-I

Cubis® II Analytical Balances – Specifications & Pricing

224S

Capacity: 220 g
 Repeatability (±): 0.05 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.1 mg
 Linearity (±): 0.13 mg
 Calibration Weight: 200 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA224S-2S00-U | 7,855 |
| MCA224S-2S00-A | 10,170 |
| MCA224S-2S00-I | 11,330 |
| MCE224S-2S00-U | 7,115 |
| MCE224S-2S00-A | 9,430 |
| MCE224S-2S00-I | 10,590 |

124S

Capacity: 120 g
 Repeatability (±): 0.05 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 85 x 85 | 3.3 x 3.3

Readability: 0.1 mg
 Linearity (±): 0.13 mg
 Calibration Weight: 100 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA124S-2S00-U | 6,645 |
| MCA124S-2S00-A | 8,960 |
| MCA124S-2S00-I | 10,120 |
| MCE124S-2S00-U | 5,905 |
| MCE124S-2S00-A | 8,220 |
| MCE124S-2S00-I | 9,380 |

| QApp Packages | add to List Price (\$) |
|--|------------------------|
| QP1 Pharma Package | 1,145 |
| QP2 Advanced Package | 935 |
| QP3 Utilities Package | 565 |
| QP4 Connectivity Package | 470 |
| QP99 All Inclusive Package (only available at time of purchase) | 2,130 |



MCA224S-2S00-A

Cubis® II Precision (3-place) Balances - Specifications & Pricing

5203S

Capacity: 5,200 g
 Repeatability (±): 0.6 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 mg
 Linearity (±): 2 mg
 Calibration Weight: 5 kg

| Model* | US List Price (\$) |
|-----------------|--------------------|
| MCA5203S-2S00-R | 10,630 |
| MCA5203S-2S00-E | 10,630 |
| MCA5203S-2S00-U | 11,095 |
| MCA5203S-2S00-A | 13,410 |
| MCA5203S-2S00-I | 14,570 |
| MCE5203S-2S00-R | 9,890 |
| MCE5203S-2S00-E | 9,890 |
| MCE5203S-2S00-U | 10,355 |
| MCE5203S-2S00-A | 12,670 |
| MCE5203S-2S00-I | 13,830 |

3203S

Capacity: 3,200 g
 Repeatability (±): 0.6 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 mg
 Linearity (±): 2 mg
 Calibration Weight: 2 kg

| Model* | US List Price (\$) |
|-----------------|--------------------|
| MCA3203S-2S00-R | 9,330 |
| MCA3203S-2S00-E | 9,330 |
| MCA3203S-2S00-U | 9,795 |
| MCA3203S-2S00-A | 12,110 |
| MCA3203S-2S00-I | 13,270 |
| MCE3203S-2S00-R | 8,590 |
| MCE3203S-2S00-E | 8,590 |
| MCE3203S-2S00-U | 9,055 |
| MCE3203S-2S00-A | 11,370 |
| MCE3203S-2S00-I | 12,530 |

QApp Packages**add to List Price (\$)**

| | |
|--|-------|
| QP1 Pharma Package | 1,145 |
| QP2 Advanced Package | 935 |
| QP3 Utilities Package | 565 |
| QP4 Connectivity Package | 470 |
| QP99 All Inclusive Package (only available at time of purchase) | 2,130 |

5203P

Capacity: 1,200 | 2,400 | 5,200 g
 Repeatability (±): 0.6 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 | 2 | 5 mg
 Linearity (±): 3 mg
 Calibration Weight: 5 kg

| Model* | US List Price (\$) |
|-----------------|--------------------|
| MCA5203P-2S00-R | 10,170 |
| MCA5203P-2S00-E | 10,170 |
| MCA5203P-2S00-U | 10,635 |
| MCA5203P-2S00-A | 12,950 |
| MCA5203P-2S00-I | 14,110 |
| MCE5203P-2S00-R | 9,430 |
| MCE5203P-2S00-E | 9,430 |
| MCE5203P-2S00-U | 9,895 |
| MCE5203P-2S00-A | 12,210 |
| MCE5203P-2S00-I | 13,370 |



MCA5203S-2S00-R

Cubis® II Precision (3-place) Balances – Specifications & Pricing

2203S

Capacity: 2,200 g
 Repeatability (±): 0.5 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 mg
 Linearity (±): 2 mg
 Calibration Weight: 2 kg

| Model ⁺ | US List Price (\$) |
|--------------------|--------------------|
| MCA2203S-2S00-R | 9,045 |
| MCA2203S-2S00-E | 9,045 |
| MCA2203S-2S00-U | 9,510 |
| MCA2203S-2S00-A | 11,825 |
| MCA2203S-2S00-I | 12,985 |
| MCE2203S-2S00-R | 8,305 |
| MCE2203S-2S00-E | 8,305 |
| MCE2203S-2S00-U | 8,770 |
| MCE2203S-2S00-A | 11,085 |
| MCE2203S-2S00-I | 12,245 |

1203S

Capacity: 1,200 g
 Repeatability (±): 0.5 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 mg
 Linearity (±): 1 mg
 Calibration Weight: 1 kg

| Model ⁺ | US List Price (\$) |
|--------------------|--------------------|
| MCA1203S-2S00-R | 8,030 |
| MCA1203S-2S00-E | 8,030 |
| MCA1203S-2S00-U | 8,495 |
| MCA1203S-2S00-A | 10,810 |
| MCA1203S-2S00-I | 11,970 |
| MCE1203S-2S00-R | 7,290 |
| MCE1203S-2S00-E | 7,290 |
| MCE1203S-2S00-U | 7,755 |
| MCE1203S-2S00-A | 10,070 |
| MCE1203S-2S00-I | 11,230 |

2203P

Capacity: 1,010 | 2,200 g
 Repeatability (±): 0.5 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 | 10 mg
 Linearity (±): 3 mg
 Calibration Weight: 1 kg

| Model ⁺ | US List Price (\$) |
|--------------------|--------------------|
| MCA2203P-2S00-R | 8,770 |
| MCA2203P-2S00-E | 8,770 |
| MCA2203P-2S00-U | 9,235 |
| MCA2203P-2S00-A | 11,550 |
| MCA2203P-2S00-I | 12,710 |
| MCE2203P-2S00-R | 8,030 |
| MCE2203P-2S00-E | 8,030 |
| MCE2203P-2S00-U | 8,495 |
| MCE2203P-2S00-A | 10,810 |
| MCE2203P-2S00-I | 11,970 |



MCA2203S-2S00-1

Cubis® II Precision (3-place) Balances – Specifications & Pricing

623S

Capacity: 620 g
 Repeatability (±): 0.4 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 mg
 Linearity (±): 0.6 mg
 Calibration Weight: 500 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA623S-2S00-R | 6,460 |
| MCA623S-2S00-E | 6,460 |
| MCA623S-2S00-U | 6,925 |
| MCA623S-2S00-A | 9,240 |
| MCA623S-2S00-I | 10,400 |
| MCE623S-2S00-R | 5,720 |
| MCE623S-2S00-E | 5,720 |
| MCE623S-2S00-U | 6,185 |
| MCE623S-2S00-A | 8,500 |
| MCE623S-2S00-I | 9,660 |

323S

Capacity: 320 g
 Repeatability (±): 0.4 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 mg
 Linearity (±): 0.6 mg
 Calibration Weight: 200 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA323S-2S00-R | 5,675 |
| MCA323S-2S00-E | 5,675 |
| MCA323S-2S00-U | 6,140 |
| MCA323S-2S00-A | 8,455 |
| MCA323S-2S00-I | 9,615 |
| MCE323S-2S00-R | 4,935 |
| MCE323S-2S00-E | 4,935 |
| MCE323S-2S00-U | 5,400 |
| MCE323S-2S00-A | 7,715 |
| MCE323S-2S00-I | 8,875 |

QApp Packages**add to List Price (\$)**

| | |
|--|-------|
| QP1 Pharma Package | 1,145 |
| QP2 Advanced Package | 935 |
| QP3 Utilities Package | 565 |
| QP4 Connectivity Package | 470 |
| QP99 All Inclusive Package (only available at time of purchase) | 2,130 |

623P

Capacity: 150 | 300 | 620 g
 Repeatability (±): 0.4 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 1 | 2 | 5 mg
 Linearity (±): 1.5 mg
 Calibration Weight: 500 g

| Model* | US List Price (\$) |
|----------------|--------------------|
| MCA623P-2S00-R | 5,780 |
| MCA623P-2S00-E | 5,780 |
| MCA623P-2S00-U | 6,245 |
| MCA623P-2S00-A | 8,560 |
| MCA623P-2S00-I | 9,720 |
| MCE623P-2S00-R | 5,040 |
| MCE623P-2S00-E | 5,040 |
| MCE623P-2S00-U | 5,505 |
| MCE623P-2S00-A | 7,820 |
| MCE623P-2S00-I | 8,980 |



MCA323S-S00-A

Cubis® II Precision (2-place) Balances – Specifications & Pricing

14202S

Capacity: 14,200 g Readability: 0.01 g
 Repeatability (±): 5 mg Linearity (±): 10 mg
 Calibration Type: isoCAL Calibration Weight: 10 kg
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA14202S-2S00-0 | 9,195 |
| MCE14202S-2S00-0 | 8,455 |

10202S

Capacity: 10,200 g Readability: 0.01 g
 Repeatability (±): 5 mg Linearity (±): 6 mg
 Calibration Type: isoCAL Calibration Weight: 10 kg
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA10202S-2S00-0 | 7,630 |
| MCE10202S-2S00-0 | 6,890 |

6202S

Capacity: 6,200 g Readability: 0.01 g
 Repeatability (±): 4 mg Linearity (±): 6 mg
 Calibration Type: isoCAL Calibration Weight: 5 kg
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA6202S-2S00-0 | 6,015 |
| MCE6202S-2S00-0 | 5,275 |

32202P

Capacity: 4200 | 32200 g Readability: 10 | 100 mg
 Repeatability (±): 20 mg Linearity (±): 10 mg
 Calibration Type: isoCAL Calibration Weight: 30 kg
 Pan Size Dimensions [mm|in.]: 400 x 300 | 5.7 x 11.8

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA32202P-2S00-0 | 13,330 |
| MCE32202P-2S00-0 | 12,590 |

14202P

Capacity: 3,500 | 7,000 | 14,200 g Readability: 0.01 | 0.02 | 0.05 g
 Repeatability (±): 5 mg Linearity (±): 20 mg
 Calibration Type: isoCAL Calibration Weight: 10 kg
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA14202P-2S00-0 | 8,040 |
| MCE14202P-2S00-0 | 7,300 |

8202S

Capacity: 8,200 g Readability: 0.01 g
 Repeatability (±): 4 mg Linearity (±): 6 mg
 Calibration Type: isoCAL Calibration Weight: 5 kg
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA8202S-2S00-0 | 6,695 |
| MCE8202S-2S00-0 | 5,955 |

6202P

Capacity: 1,500 | 3,000 | 6,200 g Readability: 0.01 | 0.02 | 0.05 g
 Repeatability (±): 4 mg Linearity (±): 20 mg
 Calibration Type: isoCAL Calibration Weight: 5 kg
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA6202P-2S00-0 | 5,470 |
| MCE6202P-2S00-0 | 4,730 |



MCA8202S-2S00-0

Cubis® II Precision (2-place) Balances – Specifications & Pricing

5202S

Capacity: 5,200 g
 Repeatability (±): 2 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 140 x 140 | 5.5 x 5.5

Readability: 0.01 g
 Linearity (±): 5 mg
 Calibration Weight: 5 kg

| Model* | US List Price (\$) |
|-----------------|--------------------|
| MCA5202S-2S00-R | 6,525 |
| MCA5202S-2S00-E | 6,525 |
| MCA5202S-2S00-U | 6,990 |
| MCA5202S-2S00-A | 9,305 |
| MCA5202S-2S00-I | 10,465 |
| MCE5202S-2S00-R | 5,785 |
| MCE5202S-2S00-E | 5,785 |
| MCE5202S-2S00-U | 6,250 |
| MCE5202S-2S00-A | 8,565 |
| MCE5202S-2S00-I | 9,725 |

4202S

Capacity: 4,200 g
 Repeatability (±): 4 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

Readability: 0.01 g
 Linearity (±): 6 mg
 Calibration Weight: 2 kg

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA4202S-2S00-0 | 5,315 |
| MCE4202S-2S00-0 | 4,575 |

2202S

Capacity: 2,200 g
 Repeatability (±): 4 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

Readability: 0.01 g
 Linearity (±): 6 mg
 Calibration Weight: 2 kg

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA2202S-2S00-0 | 4,910 |
| MCE2202S-2S00-0 | 4,170 |

1202S

Capacity: 1,200 g
 Repeatability (±): 0.007 g
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

Readability: 0.01 g
 Linearity (±): 0.02 g
 Calibration Weight: 1 kg

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA1202S-2S00-0 | 4,500 |
| MCE1202S-2S00-0 | 3,760 |



MCE4202S-S00-0

| QApp Packages | add to List Price (\$) |
|--|------------------------|
| QP1 Pharma Package | 1,145 |
| QP2 Advanced Package | 935 |
| QP3 Utilities Package | 565 |
| QP4 Connectivity Package | 470 |
| QP99 All Inclusive Package (only available at time of purchase) | 2,130 |

Cubis® II Precision (1-place) Balances – Specifications & Pricing

12201S

Capacity: 12,200 g
 Repeatability (\pm): 0.05 g
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

Readability: 0.1 g
 Linearity (\pm): 30 mg
 Calibration Weight: 10 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA12201S-2S00-0 | 5,415 |
| MCE12201S-2S00-0 | 4,675 |

8201S

Capacity: 8,200 g
 Repeatability (\pm): 0.05 g
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

Readability: 0.1 g
 Linearity (\pm): 0.1 g
 Calibration Weight: 5 kg

| Model | US List Price (\$) |
|-----------------|--------------------|
| MCA8201S-2S00-0 | 4,970 |
| MCE8201S-2S00-0 | 4,230 |

5201S

Capacity: 5,200 g
 Repeatability (\pm): 20 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 206 x 206 | 8.1 x 8.1

Readability: 0.1 g
 Linearity (\pm): 20 mg
 Calibration Weight: 5 kg

| Model ⁺ | US List Price (\$) |
|--------------------|--------------------|
| MCA5201S-2S00-0 | 3,865 |
| MCE5201S-2S00-0 | 3,125 |



MCA8201S-2S00-0

Cubis® II Precision High-Capacity Balances – Specifications & Pricing

70201S

Capacity: 70,200 g
 Repeatability (±): 40 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 0.1 g
 Linearity (±): 150 mg
 Calibration Weight: 20 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA70201S-2S00-0 | 13,415 |
| MCE70201S-2S00-0 | 12,675 |

50201S

Capacity: 50,200 g
 Repeatability (±): 40 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 0.1 g
 Linearity (±): 150 mg
 Calibration Weight: 50 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA50201S-2S00-0 | 10,225 |
| MCE50201S-2S00-0 | 9,485 |

36201P

Capacity: 10,200 | 36,200 g
 Repeatability (±): 20 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 0.1 | 1 g
 Linearity (±): 100 mg
 Calibration Weight: 10 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA36201P-2S00-0 | 7,285 |
| MCE36201P-2S00-0 | 6,545 |

36201S

Capacity: 36,200 g
 Repeatability (±): 20 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 0.1 g
 Linearity (±): 100 mg
 Calibration Weight: 10 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA36201S-2S00-0 | 8,615 |
| MCE36201S-2S00-0 | 7,875 |

11201S

Capacity: 11,200 g
 Repeatability (±): 20 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 0.1 g
 Linearity (±): 60 mg
 Calibration Weight: 10 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA11201S-2S00-0 | 6,660 |
| MCE11201S-2S00-0 | 5,920 |

20201S

Capacity: 20,200 g
 Repeatability (±): 20 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 0.1 g
 Linearity (±): 60 mg
 Calibration Weight: 20 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA20201S-2S00-0 | 6,880 |
| MCE20201S-2S00-0 | 6,140 |

70200S

Capacity: 70,200 g
 Repeatability (±): 20 mg
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 1 g
 Linearity (±): 200 mg
 Calibration Weight: 20 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA70200S-2S00-0 | 9,955 |
| MCE70200S-2S00-0 | 9,215 |

36200S

Capacity: 36,000 g
 Repeatability (±): 0.5
 Calibration Type: isoCAL
 Pan Size Dimensions [mm|in.]: 400 x 300 | 15.7 x 11.8

Readability: 1 g
 Linearity (±): 1 g
 Calibration Weight: 10 kg

| Model | US List Price (\$) |
|------------------|--------------------|
| MCA36200S-2S00-0 | 6,070 |
| MCE36200S-2S00-0 | 5,330 |



MCA20201S-2S00-0

Cubis® II MCA Preconfigured Balances

| Model | Capacity | Readability | Repeatability (±) | Linearity (±) | Pan Size [mm in.] | Calibration Type | Calibration Wt | US List Price (\$) |
|---|-------------------|--------------|-------------------|---------------|---------------------|------------------|----------------|--------------------|
| Ultra-Micro w Detailed Certificate of Conformity | | | | | | | | |
| MCA2.7SM-S00 | 2.1 g | 0.1 µg | 0.15 µg | 0.9µg | 20 0.8 d | isoCAL | 2 g | 37,770 |
| MCA2.7SF-S00 | 2.1 g | 0.1 µg | 0.15 µg | 0.9µg | 20 0.8 d | isoCAL | 2 g | 38,720 |
| Micro w Detailed Certificate of Conformity | | | | | | | | |
| MCA10.6SM-S00 | 10.1 | 1 µg | 0.5 µg | 3 µg | 30 1.2 d | isoCAL | 10g | 37,355 |
| MCA6.6SM-S00 | 6.1 g | 1 µg | 0.5 µg | 3 µg | 30 1.2 d | isoCAL | 5 g | 30,155 |
| MCA6.6SF-S00 | 6.1 g | 1 µg | 0.5 µg | 3 µg | 30 1.2 d | isoCAL | 5g | 31,105 |
| MCA3.6PM-S00 | 1.1 2.1 3.1 g | 1 2 5 µg | 0.5 µg | 3 µg | 30 1.2 d | isoCAL | 2 + 1 g | 23,740 |
| Semi-Micro (Automatic Motorized Draft Shield w Integrated Ionizer and Auto Leveling) | | | | | | | | |
| MCA125SI-S00 | 120g | 0.01mg | 0.01mg | 0.065mg | 85 × 85 3.3 × 3.3 | isoCAL | 100g | 15,840 |
| MCA225SI-S00 | 221 g | 0.01mg | 0.01mg | 0.065mg | 85 × 85 3.3 × 3.3 | isoCAL | 200g | 18,800 |
| Semi-Micro (Manual, Large Draft Shield w Auto Leveling) | | | | | | | | |
| MCA225SU-S00 | 220 g | 0.01 mg | 0.01 mg | 0.065mg | 85 × 85 3.3 × 3.3 | isoCAL | 200 g | 15,325 |
| Analytical (Automatic Motorized Draft Shield w Integrated Ionizer and Auto Leveling) | | | | | | | | |
| MCA124SI-S00 | 120 | 0.1 mg | 0.05 mg | 0.13mg | 85 × 85 3.3 × 3.3 | isoCAL | 100g | 12,250 |
| MCA224SI-S00 | 220 g | 0.1 mg | 0.05 mg | 0.13mg | 85 × 85 3.3 × 3.3 | isoCAL | 200 g | 13,460 |
| MCA324SI-S00 | 320 g | 0.1 mg | 0.04 mg | 0.2mg | 85 × 85 3.3 × 3.3 | isoCAL | 300g | 14,290 |
| MCA524SI-S00 | 520 g | 0.1 mg | 0.04 mg | 0.2mg | 85 × 85 3.3 × 3.3 | isoCAL | 500g | 15,905 |
| Analytical (Manual, Large Draft Shield w Auto Leveling) | | | | | | | | |
| MCA124SU-S00 | 120 g | 0.1 mg | 0.05 mg | 0.13mg | 85 × 85 3.3 × 3.3 | isoCAL | 100g | 8,775 |
| MCA224SU-S00 | 220 g | 0.1 mg | 0.05 mg | 0.13mg | 85 × 85 3.3 × 3.3 | isoCAL | 200 g | 9,985 |
| MCA324SU-S00 | 320 g | 0.1 mg | 0.04 mg | 0.2mg | 85 × 85 3.3 × 3.3 | isoCAL | 300g | 10,815 |
| MCA524SU-S00 | 520 g | 0.1 mg | 0.04 mg | 0.2mg | 85 × 85 3.3 × 3.3 | isoCAL | 500g | 12,430 |

Cubis® II MCA Preconfigured Balances

| Model | Capacity | Readability | Repeatability (±) | Linearity (±) | Pan Size [mm in.] | Calibration Type | Wt | US List Price (\$) |
|---|----------|-------------|-------------------|---------------|-----------------------|------------------|-------|--------------------|
| Precision (Manual, Small Draft Shield w Auto Leveling) | | | | | | | | |
| MCA623SE-S00 | 620 g | 1 mg | 0.4 mg | 0.5mg | 140 × 140 5.5 × 5.5 | isoCAL | 500 g | 8,590 |
| MCA1203SE-S00 | 1,200 g | 1 mg | 0.5 mg | 1mg | 140 × 140 5.5 × 5.5 | isoCAL | 1 kg | 10,160 |
| MCA2203SE-S00 | 3,200 g | 1 mg | 0.5 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 2 kg | 11,175 |
| MCA3203SE-S00 | 3,200 g | 1 mg | 0.6 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 3 kg | 11,460 |
| MCA5203SE-S00 | 5,200 g | 1 mg | 0.6 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 5 kg | 12,760 |

| | | | | | | | | |
|--|---------|------|--------|-------|-----------------------|--------|-------|--------|
| Precision (Manual, Low draft shield for weighing pan (stainless steel) w Auto Leveling) | | | | | | | | |
| MCA623SR-S00 | 620 g | 1 mg | 0.4 mg | 0.5mg | 140 × 140 5.5 × 5.5 | isoCAL | 500 g | 8,590 |
| MCA1203SR-S00 | 1,200 g | 1 mg | 0.5 mg | 1mg | 140 × 140 5.5 × 5.5 | isoCAL | 1 kg | 10,160 |
| MCA2203SR-S00 | 3,200 g | 1 mg | 0.5 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 2 kg | 11,175 |
| MCA3203SR-S00 | 3,200 g | 1 mg | 0.6 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 3 kg | 11,460 |
| MCA5203SR-S00 | 5,200 g | 1 mg | 0.6 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 5 kg | 12,760 |

| | | | | | | | | |
|--|---------------|--------------|------|------|-----------------------|--------|------|--------|
| Precision (No Draft Shield w Auto Leveling) | | | | | | | | |
| MCA2202S0-S00 | 2,200 g | 0.01 g | 4mg | 6mg | 206 × 206 8.1 × 8.1 | isoCAL | 2 kg | 7,040 |
| MCA4202S0-S00 | 4,200 g | 0.01 g | 4mg | 6mg | 206 × 206 8.1 × 8.1 | isoCAL | 3 kg | 7,445 |
| MCA6202S0-S00 | 6,200 g | 0.01 g | 4mg | 6mg | 206 × 206 8.1 × 8.1 | isoCAL | 5 kg | 8,145 |
| MCA32202P0-S00 | 4200 32200g | 0.01g 0.1g | 20mg | 10mg | 400 × 300 8.1 × 8.1 | isoCAL | 30kg | 15,460 |

| | | | | | | | | |
|------------------------------------|---------|-------|------|-------|-----------------------|--------|-------|--------|
| Precision (No Draft Shield) | | | | | | | | |
| MCA8201S0-S00 | 8,200 g | 0.1 g | 20mg | 30mg | 206 × 206 8.1 × 8.1 | isoCAL | 8 kg | 7,100 |
| MCA12201S0-S00 | 12,200g | 0.1 g | 20mg | 30mg | 206 × 206 8.1 × 8.1 | isoCAL | 12 kg | 7,545 |
| MCA20201S0-S00 | 20,200g | 0.1 g | 20mg | 60mg | 400 × 300 8.1 × 8.1 | isoCAL | 20kg | 9,010 |
| MCA36201S0-S00 | 36,200g | 0.1 g | 20mg | 100mg | 400 × 300 8.1 × 8.1 | isoCAL | 30 kg | 10,745 |
| MCA70201S0-S00 | 70,200g | 0.1 g | 20mg | 200mg | 400 × 300 8.1 × 8.1 | isoCAL | 70 kg | 15,545 |



Cubis® II MCE Preconfigured Balances

| Model | Capacity | Readability | Repeatability (±) | Linearity (±) | Pan Size [mm in.] | Calibration Type | Calibration Wt | US List Price (\$) |
|--|-------------------|--------------|-------------------|---------------|-----------------------|------------------|----------------|--------------------|
| Micro w Detailed Certificate of Conformity | | | | | | | | |
| MCE3.6PM-S00 | 1.1 2.1 3.1 g | 1 2 5 µg | 0.05 µg | 3 µg | 30 1.2 d | isoCAL | 2 + 1 g | 20,870 |
| Semi-Micro (Manual, Large Draft Shield w Auto Leveling) | | | | | | | | |
| MCE125SU-S00 | 120g | 0.01mg | 0.01mg | 0.065mg | 85 × 85 3.3 × 3.3 | isoCAL | 100 g | 9,495 |
| MCE225SU-S00 | 221 g | 0.01mg | 0.01mg | 0.065mg | 85 × 85 3.3 × 3.3 | isoCAL | 200 g | 12,455 |
| Analytical (Manual, Large Draft Shield w Auto Leveling) | | | | | | | | |
| MCE124SU-S00 | 120 g | 0.1 mg | 0.05 mg | 0.13mg | 85 × 85 3.3 × 3.3 | isoCAL | 100 g | 5,905 |
| MCE224SU-S00 | 220 g | 0.1 mg | 0.05 mg | 0.13mg | 85 × 85 3.3 × 3.3 | isoCAL | 200 g | 7,115 |
| MCE324SU-S00 | 320 g | 0.1 mg | 0.04 mg | 0.2mg | 85 × 85 3.3 × 3.3 | isoCAL | 300 g | 7,945 |
| Precision (Manual, Low draft shield for weighing pan (stainless steel) w Auto Leveling) | | | | | | | | |
| MCE623SR-S00 | 620 g | 1 mg | 0.4 mg | 0.5mg | 140 × 140 5.5 × 5.5 | isoCAL | 500 g | 5,720 |
| MCE1203SR-S00 | 1,200 g | 1 mg | 0.5 mg | 1mg | 140 × 140 5.5 × 5.5 | isoCAL | 1 kg | 7,290 |
| MCE2203SR-S00 | 3,200 g | 1 mg | 0.5 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 2 kg | 8,305 |
| MCE3203SR-S00 | 3,200 g | 1 mg | 0.6 mg | 2mg | 140 × 140 5.5 × 5.5 | isoCAL | 3 kg | 8,590 |
| Precision (No Draft Shield w Auto Leveling) | | | | | | | | |
| MCE2202S0-S00 | 2,200 g | 0.01 g | 4mg | 6mg | 206 × 206 8.1 × 8.1 | isoCAL | 2 kg | 4,170 |
| MCE4202S0-S00 | 4,200 g | 0.01 g | 4mg | 6mg | 206 × 206 8.1 × 8.1 | isoCAL | 3 kg | 4,575 |
| MCE6202S0-S00 | 6,200 g | 0.01 g | 4mg | 6mg | 206 × 206 8.1 × 8.1 | isoCAL | 5 kg | 5,275 |
| MCE32202P0-S00 | 4200 32200g | 0.01g 0.1g | 20mg | 10mg | 400 × 300 8.1 × 8.1 | isoCAL | 30 kg | 12,590 |
| Precision (No Draft Shield) | | | | | | | | |
| MCE8201S0-S00 | 8,200 g | 0.1 g | 20mg | 30mg | 206 × 206 8.1 × 8.1 | isoCAL | 8 kg | 4,230 |
| MCE12201S0-S00 | 12,200g | 0.1 g | 20mg | 30mg | 206 × 206 8.1 × 8.1 | isoCAL | 12 kg | 4,675 |
| MCE20201S0-S00 | 20,200g | 0.1 g | 20mg | 60mg | 400 × 300 8.1 × 8.1 | isoCAL | 20 kg | 6,140 |
| MCE36201S0-S00 | 36,200g | 0.1 g | 20mg | 100mg | 400 × 300 8.1 × 8.1 | isoCAL | 30 kg | 7,875 |
| MCE36200S0-S00 | 36,200g | 1g | 20mg | 200mg | 400 × 300 8.1 × 8.1 | isoCAL | 30 kg | 5,330 |

Cubis® II Balance Accessories

| Item | Description | Qty. | US List Price (\$) |
|--|---|------|--------------------|
| Printers and Communication | | | |
| YDP30 | Thermal transfer thermal printer for GLMP printouts on continuous paper and labels | 1 | 1,485 |
| 69Y03285 | Standard paper and ink ribbon, set, 90 m, for YDP30 | 1 | 70 |
| 69Y03286 | Self-adhesive paper and ink ribbon, 90 m, for YDP30 | 1 | 75 |
| 69Y03287 | Standard thermal paper, 24 m roll, for YDP30 YDP40 | 5 | 32 |
| 69Y03288 | Self-adhesive thermal paper, 13 m roll, for YDP30 | 5 | 59 |
| 69Y03094 | Self-adhesive labels for YDP30 - 58 mm × 100 mm | 350 | 60 |
| 69Y03093 | Self-adhesive labels for YDP30 - 58 mm × 76 mm | 500 | 47 |
| 69Y03092 | Self-adhesive labels for YDP30 - 58 mm × 30 mm | 1000 | 45 |
| YSW02 | Sartorius Wedge, software for data communication between the PC and balance | 1 | 535 |
| Displays and Input/Output Elements | | | |
| 69MS0212 | MCA Display and control unit with color TFT display, touch screen, and keys | 1 | 1,965 |
| 69MS0218 | MCE Display and control unit with high-contrast display, touch screen, and keys | 1 | 1,000 |
| YHS02MS | Motion sensor for triggering a maximum of 4 functions via gesture control, selection via menu | 1 | 340 |
| YDH04MS | Display stand for weigh cells with scale interval of 100 mg 1 g and weighing capacity > 20 kg for raising the operating unit | 1 | 415 |
| YDH03MS | Display stand for weigh cells with scale interval of 10 mg 100 mg for raising the operating unit | 1 | 395 |
| Hardware for Pipette Calibration (Semi-Micro and Analytical balances) | | | |
| YCP04MS | Pipette calibration kit (hardware). Consists of moisture trap and all required adapters | 1 | 1,195 |
| Density Determination Kits | | | |
| YDK03MS | Density determination kit for solids and liquids for 0.1 and 0.01 mg weighing modules | 1 | 1,025 |
| YDK04MS | Density determination kit for solids and liquids for 1 mg weighing modules | 1 | 1,025 |
| Filter Pans, Ionizer and Weighing Scoops | | | |
| YWP07MS | Grid pan for model with a scale interval of 10 mg or 100 mg for weighing in laboratory hoods, safety barriers and workbenches, reduced wind attack surface of the weighing pan, replaces standard pan | 1 | 1,290 |
| YWP04MS | Anti-static weighing pan, 100 mm diameter, for weighing module for semi-microbalance and analytical balances with 0.1 mg or 0.01 mg scale interval | 1 | 260 |
| YSH34 | Filter weighing pan made of Titanium, diameter 52 mm, for ultra-micro and micro-balances only together with F draft shield | 1 | 420 |
| YSH35 | Filter weighing pan made of Titanium, diameter 75 mm, for ultra-micro balance or micro balance models only together with F draft shield | 1 | 425 |
| YSH36 | Filter weighing pan made of Titanium, diameter 90 mm, for ultra-micro balance or micro balance models only together with F draft shield | 1 | 435 |
| YIB01-OUR | Ionization blower for electrostatically charged samples | 1 | 1,840 |
| YIB02-115V | Ionizer with u-shaped electrode for 115 V | 1 | 2,820 |
| YSTP01 | Stat-Pen ionization pen for discharging electrostatically charged samples | 1 | 1,940 |
| 6565-250 | Aluminum weighing scoop, 4.5 mg for ultramicrobalance and microbalance models | 250 | 94 |
| 6566-50 | Aluminum weighing scoop, 52 mg for ultramicrobalance and microbalance models | 50 | 58 |
| 641214 | Weighing scoop made from chrome-nickel steel, L 90 mm x W 32 mm x H 8 mm | 1 | 99 |
| Other Accessories | | | |
| 69EA0040 | Below-balance weighing hook for precision balances with scale interval of 100 mg 1 g and weighing capacity > 20 kg, not for verified models | 1 | 37 |

| Item | Description | | Qty. | US List Price (\$) |
|---|---|---|------|--------------------|
| Weighing Tables | | | | |
| YWT03 | Made from synthetic stone, with vibration dampening | | 1 | 2,260 |
| YWT09 | Made from wood with synthetic stone | | 1 | 2,125 |
| YWT04 | Wall console | | 1 | 1,895 |
| Climate Modules | | | | |
| YCM20MC | Climate module, uncalibrated, for draft shield A or I and user interface MCA | | 1 | 630 |
| YCM20DAkS | Calibration of a climate module YCM20MC with DAkS calibration certificate | | 1 | 1,575 |
| YCM20MC-DAkS | Climate module with DAkS calibration certificate for draft shield A or I and user interface MCA | | 1 | 2,200 |
| YCM20MC-Tower | Tower for climate module, for mounting YCM20MC; can be ported to all Cubis II weighing modules with user interface MCA | | 1 | 970 |
| Flexible Sample Holder | | | | |
| YFH01MS | For weighing vessels and filters with diameters of up to 120 mm, replaces the original weighing pan, for semi-microbalance and analytical balance | | 1 | 415 |
| Titanium Holders for Semi-Micro Balances and Analytical Balances | | | | |
| YSH10 | For coronary stents (up to 38 mm) |  | 1 | 950 |
| YSH13 | For save-lock tubes, 1.5 ml - 2 ml |  | 1 | 415 |
| Titanium Holders for Semi-Micro Balances and Analytical Balances | | | | |
| YSH15 | For save-lock tubes, 1.5 ml - 2 ml |  | 1 | 555 |
| YSH19 | For save-lock tubes up to 5 ml |  | 1 | 475 |
| YSH23 | For vials |  | 1 | 670 |
| YSH26 | For weighing boats |  | 1 | 680 |
| YSH30 | For filters, 150 mm diameter |  | 1 | 1,230 |
| YSH37 | For titration vessels and round bottom flasks |  | 1 | 675 |
| YSH46 | For syringes, vertical |  | 1 | 870 |

Cubis® High-Capacity Micro Balances – Specifications & Pricing

116P

Capacity: 12 g | 111 g
 Readability: 2 µg | 10 µg
 Repeatability (5 g | 100 g): (±) 4 µg | 10 µg
 Linearity (±): 20 µg
 Calibration Type: isoCAL
 Calibration Weight: 100 g
 Pan Size Dimensions: 50 mm / 1.97" Ø

| Model | US List Price (\$) |
|----------------|--------------------|
| MSA116P-000-DH | 22,760 |

66P

Capacity: 12 g | 61 g
 Readability: 1 µg | 10 µg
 Repeatability (2 g | 50 g): 2 µg | 10 µg
 Linearity (±): 20 µg
 Calibration Type: isoCAL
 Calibration Weight: 50 g
 Pan Size Dimensions: 30 mm|50 mm / 1.18"|1.97" Ø

| Model | US List Price (\$) |
|---------------|--------------------|
| MSA66P-000-DH | 32,835 |

36P

Capacity: 6 g | 31 g
 Readability: 1 µg | 10 µg
 Repeatability (1 g | 20 g): (±) 1.5 µg | 8 µg
 Linearity (±): 15 µg
 Calibration Type: isoCAL
 Calibration Weight: 20 g
 Pan Size Dimensions: 30 mm / 1.18" Ø

| Model | US List Price (\$) |
|---------------|--------------------|
| MSA36P-000-DH | 26,830 |

66S

Capacity: 61 g
 Readability: 1 µg
 Repeatability (2 g | 50 g): (±) 1.5 µg | 4 µg
 Linearity (±): 20 µg
 Calibration Type: isoCAL
 Calibration Weight: 50 g
 Pan Size Dimensions: 30 mm|50 mm / 1.18"|1.97" Ø

| Model | US List Price (\$) |
|---------------|--------------------|
| MSA66S-000-DH | 35,820 |

36S

Capacity: 31 g
 Readability: 1 µg
 Repeatability (1 g | 20 g): (±) 1.5 µg | 2 µg
 Linearity (±): 15 µg
 Calibration Type: isoCAL
 Calibration Weight: 20 g
 Pan Size Dimensions: 30 mm / 1.18" Ø

| Model | US List Price (\$) |
|---------------|--------------------|
| MSA36S-000-DH | 31,035 |

| Cubis® Configured Upgrade Options | add to List Price (\$) |
|---|------------------------|
| Replace 00 certificate with TR certificate (example: MSA66S-0TR-DH) | 100 |
| Interface Module Options | |
| IB (Bluetooth) | 220 |
| IP (9-pin RS232 PS2) | 220 |
| IR (25-pin RS232) | 220 |



MSA66S-000-DH

Q-Apps – Specifications & Pricing

| Model | Description | Application | US List Price (\$) |
|---------|------------------------------|---|--------------------|
| YAPP01 | UserCal V1 | User definable calibration routine with external weights | 76 |
| YAPP012 | UserCal Advanced | User definable calibration routine with external weights and calibration history via HTML | 545 |
| YAPP02 | USP V2 | Determination of the operating range according to USP Chapter 41 | 149 |
| YAPP022 | USP Advanced | Software for determination of the operating range according to USP Chapter 41 with HTML evaluation | 330 |
| YAPP03 | Backweigher Light V1 | Simple differential weighing with automatic sample numeration (100 samples max.) | 370 |
| YAPP032 | Backweigher Light V2 | Simple differential weighing with lots batches and automatic sample numeration (5 × 100 samples max.) | 440 |
| YAPP033 | Backweigher Light V3 | Simple differential weighing with individual sample numeration | 520 |
| YAPP04 | Pipette Check Light V1 | Check calibrate fixed volume and variable piston pipettes according to ISO 8655 tolerances | 370 |
| YAPP042 | Pipette Check Advanced | Test routine for easy and accurate testing of pipettes with HTML evaluation for the last check | 625 |
| YAPP05 | Formulation V1 | Simple formulation with integrated recipe memory | 520 |
| YAPP06 | Tablet Checker V1 | Tablet checker according to Pharmacopeia standards | 735 |
| YAPP10 | Residual Dirt Analysis | Gravimetric determination of residual dirt according to VDA19, with individual Sample ID (alphanumeric) | 955 |
| YAPP11 | QR and Barcode Label Creator | Requirement for printing labels on the YDP30 printer | 215 |
| YAPP12 | Easy ID | Simple weighing application with individual alpha-numeric sample ID | 74 |
| YAPP14 | NTP Synchronizer | Automatic date and time synchronization with an NTP server | 610 |
| YAPP16 | Dosing | Preparation of stock solutions (standards) with defined concentrations | 1,865 |
| YAPP100 | Web Services | Activation license for web services | 370 |

Example... Q-App: UserCal Advanced

Guided external calibration process with up to 5 definable weights.

The workflow has two levels, an administrator and a user level. Administrators are allowed to define up to 5 different weight values, including the ID, value and permissible tolerances. Users are only allowed to perform the calibration process. The process runs automatically and the user is guided through the calibration process. Data acquisition and evaluation are done automatically. Documentation can be performed on a Sartorius printer and/or via Ethernet on the basis of Q-Web with HTML visualization.

| Target | Measured | Tolerance | Res. |
|---------------|-----------|-----------|------|
| 1 200.00g | +200.00g | 0.10% | PASS |
| 2 200.00g | +200.00g | 0.10% | PASS |
| 3 2000.00g | +1933.30g | 0.01% | PASS |

Buttons: 'Exit', 'Save', 'Print Fct.'



Cubis® High- Capacity Micro Balance Accessories

| Item | Description | US List Price (\$) |
|--|---|--------------------|
| Printers, Cables and Data Communication | | |
| YDP30 | Premium GLP lab printer (paper not included) | 1,485 |
| 69Y03285 | Standard paper & ink ribbon set for YDP30 (fade-resistant) | 70 |
| 69Y03286 | Self-adhesive paper & ink ribbon set for YDP30 (fade-resistant) | 75 |
| 69Y03094 | Self-adhesive labels, 58 x 100 mm (350 pcs)^ | 60 |
| 69Y03093 | Self-adhesive labels, 58 x 76 mm (500 pcs)^ | 47 |
| 69Y03092 | Self-adhesive labels, 58 x 30 mm (1,000 pcs)^ | 45 |
| YDP10-OCE | Cubis Data printer, includes cable | 1065 |
| YDP10BT-OCE | Cubis Bluetooth Data printer, wireless* | 1035 |
| YDP20-OCE | Data Printer, with statistics and time date functions, includes cable | 1190 |
| 6906918 | Ink Ribbon, fits YDP10 and YDP20 | 37 |
| 6906937 | Paper (pkg of 5 rolls), fits YDP10 and YDP20 | 33 |
| YCC05-001M2 | Cable, 25-pin to 9-pin RS232, 5 ft. | 106 |
| YCC05-001M5 | Cable, 25-pin to 9-pin RS232, 16 ft. | 116 |
| YCC05-001M10 | Cable, 25-pin to 9-pin RS232, 33 ft. | 141 |
| YCC05-001M15 | Cable, 25-pin to 9-pin RS232, 49 ft. | 157 |
| YCC01-USBM2 | Cable, 25-pin RS232 to USB, 6.5 ft. | 155 |
| YCC01-MSD3 | Extended Cubis display cable for MSA MSU, 3 m | 250 |
| YCC01-MSED3 | Extended Cubis display cable for MSE, 3 m | 250 |
| YSW02 | Sartorius Wedge for Windows (no cable included) | 535 |
| YD001MS-B | Field Upgradeable Interface Module for Cubis, Bluetooth (wireless connection; same as IB option) | 225 |
| YD001MS-P | Field Upgradeable Interface Module for Cubis, 9-pin RS232 PS2 (connection to PC & keyboard or barcode scanner; same as IP option) | 225 |
| YD001MS-R | Field Upgradeable Interface Module for Cubis, 25-pin RS232 (same as IR option) | 225 |
| VF4466 | Optional External Interface Box for Cubis Prec HiCap; requires Field Upgradeable Interface Module | on request |
| Power Supply and Line Cords | | |
| 6971987 | Power Supply for Cubis, 100-240 V | 191 |
| 6900901 | Line cord for Cubis, 120 volt (USA) | 29 |
| 6900900 | Line cord for Cubis, 220 volt (Euro) | 29 |
| Displays and Input Output Devices | | |
| YAC01MSA | MSA Display and Control Unit, color touchscreen | 3,440 |
| YAC01MSE | MSE Display and Control Unit, with backlit LCD and tactile keys | 1,035 |
| YBR04PS2 | QR and Barcode Reader, with PS2 connecting cable^ | 1,440 |
| YHS01MS | Infrared sensor for touch-free activation of functions | 305 |
| YHS02 | Hand Switch w/T-Connector, for remote control of print, tare, cal, F, CF or toggle key | 490 |
| YFS01 | Foot Switch w/T-Connector, for remote control of print, tare, cal, F, CF or toggle key | 440 |
| YPE01RC | Foot Switch w/T-Connector, for open close door, tare & print | 775 |
| YRD03Z | Additional Remote Display (LCD), backlit (fits RS232), 3 ft. | 540 |

^ for YDP30 & Q-App YAPP11 only

+ Requires VF4466

* requires Bluetooth® interface module (Cubis® only)



YDP30 Thermal Transfer Printer

| Item | Description | US List Price (\$) |
|---|--|--------------------|
| Extended Warranty, Installation and IQ/OQ (for more info, see page 198) | | |
| 84WAL01 | 12-month precision balance extended warranty | 320 |
| 84ICL01 | Precision balance installation $\geq 0.001g$ | 275 |
| 84QAL01 | Precision balance IQ/OQ | 1,160 |
| 84CGNA | USP Chapter 41 Certificate | 99 |
| 84CENC | ISO 17025 Measurement Uncertainty Certificate | 131 |
| Installation and IQ/OQ pricing are only valid for the continental United States. Travel and expenses are not included in the prices listed above. | | |
| Filter Weighing and Anti-Static Accessories | | |
| YIB02-115V | Ionizer with U-shaped electrode (incl. power supply 115V) | 2,820 |
| YIB01-0UR | Ionizing Blower (neutralizes static charges) | 1,840 |
| YSTP01 | Stat Pen (neutralizes static charges) | 1,940 |
| Weighing Accessories | | |
| 69EA0040 | Below balance weighing hook | 37 |
| YDH02MS | Display holder for Cubis Precision High-Capacity models for raising MSE, MSU & MSA displays | 570 |
| YBW01S | Small Weigh Boat, anti-static polystyrene with pour spout (1.375" x 1.875" x 0.5"), 50/pkg | 22 |
| YBW01M | Medium Weigh Boat, anti-static polystyrene with pour spout (2.875" x 4.75" x 1.25"), 50/pkg | 25 |
| YBW01L | Large Weigh Boat, anti-static polystyrene with pour spout (3.875" x 6.625" x 1.125"), 50/pkg | 28 |
| YBW01K | Weigh Boat Kit, anti-static polystyrene with pour spout, 30/pkg (10x each of S, M, L) | 57 |
| U1-LD2 | Locking Device, anti-theft | 87 |
| 6960MS01 | Cubis Display Protection Cover, for MSA MSU | 79 |
| 6960MS05 | Cubis Display Protection Cover, for MSE | 67 |

Cubis® MSA Dosing System

Makes the Preparation of Standards Easy and Reliable

The Cubis® MSA Dosing System and YAPP16 Q-App software simplifies workflows in the preparation of analytical standards. The system guides the user step-by-step throughout the entire process and automatically performs all calculations in the background to determine the exact concentration to prevent errors. Prepare standards with confidence in accuracy, consistency and traceability.



Features

Automated Preparation of Standards

YAPP16 Dosing Q-App software connects your Cubis® MSA balance directly to your dispenser and will then accurately calculate the required solvent volume based on the quantity of solid weighed.

Documentation of Test Procedures

The YAPP16 Q-App will guide you step-by-step throughout your workflow and digitally document the entire process in a traceable, easy-to-understand record.

Reliable Planning of Simple Workflows

Forget delays caused by the need to take corrective steps. Now you won't have to be prepared for the unexpected – thanks to automated and fast preparation of 100% consistent standards, including reliable documentation.

Modularity

The balance can be configured according to your specific requirements.

Intelligent isoCAL calibration system

100% certainty that your balance is always correctly calibrated and adjusted.

Automation Interface for Chromeleon™ 7.2 CDS Software

The YAPP16 Dosing Q-App has an interface port for Thermo Scientific™ Chromeleon 7.2 Chromatography Data System software, which enables data management of chromatographic systems, simplified run creation/ data analysis, and direct transfer of the verified concentration of calibration standards.

Benefits

Perfectly Integrated System

Highly accurate weighing with the Cubis® MSA balance and dispensing of solvents using automatic dispensers, electronic or manual pipettes.

Versatile, Automatic Preparation of Standards

Preparation of individual standards and mixed standards with automatic adjustment of the solvent volume to the actual weight of a compound for maximum efficiency and time savings without compromising accuracy or precision.

Proven Valid Results

Automatic calculation of the verified volume and concentration(s).

Integrated Software Application

Controls system components by the YAPP16 Dosing Q-App. No separate computer is necessary.

Flexible and Reliable

Create an individual library of solvents and compounds along with specifications on purity, lot, molecular weight, density and supplier.

Cost- and Time-Efficient

Automated processes eliminate unnecessary waste of solvents or compounds and no need for high-maintenance glassware.

Standardized Process with Controlled Workflows

Consistency in the preparation of standards, independent of the particular lab analyst, 100% compliance with your SOPs.

Audit Trail

Systematic monitoring and documentation of process steps for traceability in compliance with GLP and accredited procedures.

Direct Data Transfer

Reliable documentation, error-free printing, no manual transcription errors.

Configurable Printouts

Choice between GLP-compliant and standard printouts, as well as label printouts.

The Cubis® MSA Dosing System is custom-configurable from a choice of components. Configuration options are as follows:

- **Cubis® MSA:** Modular, configurable high-resolution balances for accurate determination of the mass of liquid, paste-like, powdered or solid materials. Cubis® MSA balances already installed can be easily retrofitted to readily convert them into dosing systems. Recommended MSA models: 116P, 66S, 66P, 36S, 36P, 6.6S, 225S, 225P, 125P, 224S or 124S.
- **YAPP16:** Dosing application software for Cubis® MSA balances to prepare standards of a defined concentration
- **Dispenser:** The solvent can be dosed manually using a pipette or automatically with either the Hamilton Microlab dispenser or the Hirschmann opus® titration unit
- **Density meter:** The Anton Paar DMA 35 density meter can be implemented to measure the density of solvents
- **Printer:** Connect the YDP30 thermal transfer printer to document the results on your choice of standard or self-adhesive fade-resistant paper
- **Sample holder:** Various sample holders are available to accommodate the containers you use
- **NOTE:** If using an automatic dispenser and YDP30 printer, two serial ports are needed. Please either configure balance with IR or select YDO01MS-R

Specifications & Pricing

| Model | Description | US List Price (\$) |
|---------------------------------------|--|--------------------|
| YDU-10 | Hamilton MICROLAB 630 Complete Package Includes: Hamilton MICROLAB 630 Dispenser with 25mL syringe, tip hand probe, tubing and 1L solvent bottle (4) with safety cap | 13,420 |
| YDU-11 | Hamilton MICROLAB 630 Complete Package w/ Density Meter Includes: Hamilton MICROLAB 630 Dispenser with 25mL syringe, tip hand probe, tubing, 1L solvent bottle (4) with safety cap and Anton Paar DMA 35 Density Meter with calibration certification | 16,470 |
| 69Y03295 | RS-232 cable (required for Dispenser) | 92 |
| Options | | |
| YDU-5 | Hamilton 10 ml Syringe | 325 |
| YDU-6 | Hamilton 50 ml Syringe | 675 |
| For Hirschmann opus® Titrators | | |
| YDU-12 | Hirschmann opus® titrator, 10 mL (Accessories Set I or II required) | 2,440 |
| YDU-13 | Hirschmann opus® titrator, 20 mL (Accessories Set I or II required) | 2,440 |
| YDU-14 | Hirschmann opus® titrator, 50 mL (Accessories Set I or II required) | 2,440 |
| YDU-15 | Hirschmann opus® Accessories Set I Includes: Base set for adapter with filler neck and bottle adapter, opus® system platform, opus® RS232 connection cable, Suction hose (2 m), return hose (2 m), Bottle adapter (GL45) with 2 ports for suction and return hose | 790 |
| YDU-16 | Hirschmann opus® Accessories Set II Includes: opus® System platform, opus® RS232 connecting cable | 335 |
| 69Y03295 | RS-232 cable (required for opus® titrator unit) | 92 |
| Additional Accessories | | |
| YDU-20 | SD-Card, 8GB (required for Q-App) | 12 |
| YDO01MS-R | Field Upgradeable Interface Module for Cubis®, 25-pin RS232 | 225 |
| YFH01MS | Q-Grip, flask holder for Cubis® analytical and semi-micro balance | 415 |
| YAPP16 | Cubis® Dosing Q-App software (standard on MSA116P model) | 1,865 |
| YDP30 | Premium GLP thermal transfer lab printer (paper not included) | 1,485 |
| 69Y03285 | Standard paper & ink ribbon set for YDP30 (fade-resistant) | 92 |
| 69Y03286 | Self-adhesive paper & ink ribbon set for YDP30 (fade-resistant) | 82 |
| YDU-9 | DMA 35 Density Meter | 4,245 |



opus® Titrator



Cubis® with Hamilton Dispenser



DMA 35 Density Meter

Cubis® MPS- Manual Pipette Calibration System

The Right Balance and Software Combination for Accuracy, Precision, Speed and Convenience

The perfectly balanced system designed to reconcile all your needs for accuracy, precision, speed and convenience in pipette calibration. Accuracy and precision to comply with international regulations (DIN EN ISO 8655); speed to meet requirements for cost and time-efficient performance; and convenience for working in a comfortable posture.



Features & Benefits

- Motion Control. Quick opening of the draft shield: convenient and efficient pipetting
- Integrated humidity sensor. Monitors humidity inside the weighing chamber
- White LED light. Illumination of the full weighing area
- Red LED light. Instant alert if climate parameters are out of tolerance
- Automated draft shield door. Prevents evaporation for error-free measurements
- Evaporation trap. Stable humidity conditions inside the weighing chamber
- Accessories for MPS. Improve accuracy and efficiency with the Climate Module, Liquid Reservoir and Suction Pump

Speedcal Mobile

Speedcal Mobile is suitable for calibrating multi-channel pipettes. Its innovative design and sophisticated technology simplify the entire calibration process. Parallel connection of up to 12 balances, which simultaneously determine the dispensed volumes from a multi-channel pipette, make Speedcal Mobile the fastest and most effective system on the market for this task.



Features & Benefits

- Ideal for testing multi-channel pipettes with a nominal volume of more than 10 µL
- The entire test of twelve channels in compliance with DIN EN ISO 8655 10.3 (= 360 individual measurements) takes only around 10 minutes or less to complete, which saves time and money
- Unique system, available with either 4, 8, or 12 channels, with the option of subsequently adding up to 12 channels at any time that simultaneously measure the weight of the test liquid volumes dispensed by a multi-channel pipette
- The Web Service interface enables Speedcal Mobile to be used with any pipette calibration software
- Clever, dual-use design: for both continuous use in the lab and for use in the field
- The Sartorius Climate Tower and Water Reservoir can be readily connected to Speedcal Mobile for measuring climate data real time for better accuracy

Specifications & Pricing

| Model | Description | US List Price (\$) |
|---------------|---|--------------------|
| MPS6.6S | Cubis®MPS Pipette Calibration Balance, 6.1 g x 1 µg | 25,390 |
| MPS105S | Cubis® MPS Pipette Calibration Balance, 101 g x 0.01 mg | 16,670 |
| Speedcal-M4 | Speedcal Mobile 4-Channel Pipette Calibration Balance | 41,200 |
| Speedcal-M8 | Speedcal Mobile 8-Channel Pipette Calibration Balance | 77,250 |
| Speedcal-M12 | Speedcal Mobile 12-Channel Pipette Calibration Balance | 109,180 |
| YCP05-LR01 | Liquid Reservoir with DAkKS calibrated temperature sensor for MPS & Speedcal Mobile units | 1,350 |
| YCP05-SP01 | Suction Pump to aspirate container for MPS & Speedcal Mobile units | 2,030 |
| YCM20MC | Climate Module, uncalibrated for MPS & Speedcal Mobile units (requires YCM20MC-Tower) | 630 |
| YCM20MC-DAKKS | Climate Module, with DAkKS Calibration for MPS & Speedcal Mobile units (requires YCM20MC-Tower) | 2,200 |
| YCM20MC-Tower | Tower for mounting Climate Module for MPS & Speedcal Mobile units | 970 |

Pipetto- Pipette Calibration Software

Professional pipette calibration software to manage your pipette data

Pipetto Calibration Software is a professional pipette management solution available in three different versions: Basic, Standard, and Pro. All three software solutions are exceptionally easy to use. Pipettes can be selected and calibrated with just a few clicks. The Standard and Pro versions both have network capability and user management features including individual task assignment options.



Features & Benefits

- Complete ease of operation. Select and calibrate pipettes quickly and easily
- Calibration software for single and multi-channel pipettes, dispensers, burettes, etc.
- Seamless integration with your Cubis® MPS and Speedcal Mobile system
- Compatible with all standard balances
- Up-to-date pipette database
- PCOM Box (Peak Climate Online Monitor) is an optional hardware unit for recording environmental climate conditions directly into the software to convert the gravimetric data during calibration for more accurate results

Basic version. Simple and specially designed for small in-house calibration laboratories that comply with ISO 8655.

Standard version. Ideal for calibration laboratories with multiple workstations that comply with ISO 17025.

Pro version. The optimum solution for accredited calibration laboratories that comply with ISO 17025 and FDA 21 CFR Part 11.

Specifications & Pricing

| Model | Description | US List Price (\$) |
|-----------|--|--------------------|
| PI20301-S | Pipetto version 1.1 Basic with 1 dongle | 1,540 |
| PI20201-S | Pipetto version 1.1 Standard with 1 dongle | 2,905 |
| PI20202-S | Pipetto version 1.1 Standard with 1 PCOM box and 1 dongle | 3,685 |
| PI20203-S | Pipetto version 1.1 Standard with 1 DAkKS PCOM box and 1 dongle | 4,385 |
| PI20101-S | Pipetto version 1.1 Pro with 1 dongle | 5,480 |
| PI20102-S | Pipetto version 1.1 Pro with 1 PCOM box and 1 dongle | 5,705 |
| PI20103-S | Pipetto version 1.1 Pro with 1 DAkKS PCOM box and 1 dongle | 6,525 |
| PI20404-S | Pipetto expansion module – MPS (for Standard or Pro version only) | 975 |
| PI20402-S | Pipetto expansion module – Speedcal (for Standard or Pro version only) | 935 |
| PI20403-S | Pipetto expansion module – expanded measurement uncertainty (for Pro version only) | 845 |

Manual Mass Comparators

Your Full-range Mass Standards Laboratory

The manual Cubis® MCM Mass Comparators are the first devices on the market that unite metrological weighing competence with an integrated control of workflows in line with the recommendations of OIML and ASTM. The workflow is ergonomically optimized giving the user a more relaxed working atmosphere, which minimizes the error rate during operation.



Features & Benefits

Incorporated Workflow Control. Provides user-guided workflows with step-by-step instructions to perform mass calculation, which reduces operator error and increases the accuracy of the results.

Climate Sensor. Integrated into the draft shield logs temperature, humidity and air pressure for calculating air buoyancy correction at the site of measurement.

Fast Methodology. Delivers fast-run method cycles (ABA, ABBA or AB1...BnA) for determining the conventional value of mass (also referred to as conventional mass and its combined standard uncertainty).

Color Touchscreen. Features a Cubis® MSA display and control unit with color touchscreen for fast and simple configuration of parameters and workflows.

Automatic Uncertainty Calculation. The measurement uncertainty is determined in full accordance with OIML and ASTM recommendations. No external software or a climate measuring station is required.

Off-Center Load Compensation. Significantly reduces measurement errors when the load is off-center. Therefore, no automatic centering is usually necessary and the loading is much easier.

Leveling Status is Constantly Monitored. Automatically detects when the balance is skewed and provide graphic support during leveling. On the models MCM2004, MCM5004 and MCM5003, automatic motorized leveling is also possible.

Diverse Communication Possibilities. Data interfaces, like USB, RS232 and Ethernet enable nearly all forms of bidirectional communication. Parameter and data can be stored on an SD card then transferred to a PC or other MCM.





Specifications & Pricing

| Model | Capacity | Readability | Repeatability* | Linearity | Electronic Weighing Taring Range | Substitution Weight | Pan Size (mm/in.) | US List Price (\$) |
|---------|----------|-------------|----------------|----------------|---------------------------------------|------------------------|-----------------------|-----------------------|
| MCM6.7 | 6.1 g | 0.1 µg | 0.15 µg | 1 µg | 6.1 g | - | 16/0.6 Ø | on request |
| MCM36 | 31 g | 1 µg | 1 µg | 6 µg | 31 g | - | 30/1.2 Ø | on request |
| MCM66 | 61 g | 1 µg | 1 µg | 8 µg | 61 g | - | 30/1.2 Ø | on request |
| MCM106 | 111 g | 1 µg | 1 µg | 8 µg | 61 g | 50 g | 50/1.97 Ø | on request |
| MCM605 | 610 g | 0.01 mg | 10 µg | 100 µg | 610 g | - | 90/3.5 Ø | on request |
| MCM1005 | 1,110 g | 0.01 mg | 15 µg | 100 µg 600 g | 610 g | 500 g | 90/3.5 Ø | on request |
| MCM1004 | 1,110 g | 0.1 mg | 0.05 mg | 0.1 mg 600 g | 610 g | 500 g | 90/3.5 Ø | on request |
| MCM2004 | 2,500 g | 0.1 mg | 0.05 mg | 1 mg | 2,500 g | - | 136 x 136/5.4 x 5.4 | on request |
| MCM5004 | 5,100 g | 0.1 mg | 0.3 mg | 2 mg | 5,100 g | - | 136 x 136/5.4 x 5.4 | on request |
| MCM5003 | 5,100 g | 1 mg | 0.5 mg | 3 mg | 5,100 g | - | 136 x 136/5.4 x 5.4 | on request |
| MCM10K3 | 11 kg | 1 mg | 0.8 mg | 6 mg | 11 kg | - | 200 x 200/7.9 x 7.9 | on request |
| MCM40K3 | 41 kg | 1 mg | 2 mg | 20 mg | 41 kg | - | 400 x 300/15.7 x 11.8 | on request |
| MCM60K3 | 64 kg | 2 mg | 4 mg | 40 mg | 64 kg | - | 400 x 300/15.7 x 11.8 | on request |
| MCM60K2 | 64 kg | 10 mg | 6 mg | 50 mg | 64 kg | - | 400 x 300/15.7 x 11.8 | on request |

*Repeatability is the standard deviation "s"; it is calculated from 5 ABA cycles, after eliminating drift; based on optimal conditions: automatic measurement without operator influence measured in a laboratory under E1 conditions, on a decoupled weighing stone, no drafts from above.

Standard Laboratory Balances

Secura® and Quintix®

Reliable Weighing for Faster and Better Results

Based on Intuitive Operation:

The Start Assistant function and SmartTouch user interface will enable you to operate the balance immediately and feel right at ease using all the functions available. Both the convenient operating design with its easy-to-understand menu structure and the ergonomic balance design have already won several awards. These features will significantly help accelerate your workflows right from the start for error-free results.



Using Integrated Applications:

Built-in standard applications let you instantly extend the options for using the balance, turning special, often complicated, lab tasks into efficient routines. These applications are set up for intuitive use, guiding you in simple steps throughout each of your workflows. This will save you valuable time and increase the reliability of your results.

Made to Deliver the Best Results:

Quickly and easily transfer, evaluate, further process or save and document weighing results in perfect compliance with legal requirements – just by using Plug & Play technology, without needing any extra software or complicated settings. In this way, you can unlock the full potential of your lab data and reliably save it. As a result, you will have more time for new, intriguing analytical procedures, while being on the safe side.

Secura®



Micro model

Semi-micro models
(includes 324)

Analytical models
(excludes 324)

Milligram models

Precision models

Quintix®



Semi-micro models

Analytical models

Milligram models

Precision models



Applications



Features

Reliability and Data Security

| | Secura® | Quintix® |
|--|---------|----------|
| isoCAL: internal calibration and adjustment function | • | • |
| CAL audit trail function | • | • |
| Menu protection | • | • |
| Password protection | • | |
| SQmin: monitoring the minimum sample weight for compliance with the USP* operating range | • | |
| Individual security levels | • | |

Data Transfer and Documentation

| | | |
|---|---|---|
| Plug Et Play functionality via mini USB port | • | • |
| PC-Direct feature for data transfer to a computer | • | • |
| Sample and batch identification | • | |
| Monitored data transfer | • | |

Leveling

| | | |
|--|---|---|
| Leveling guided by the level indicator | | • |
| Continuous real-time level monitoring | • | |

Models

| | | |
|---|---|---|
| Semi-micro balances | • | • |
| Micro balance | • | |
| Higher weighing capacity readability levels** | • | |

* USP- United States Pharmacopeia

** See Technical Specifications

Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Repeatability (± g) | Pan Size Ø (mm in.) | Calibration Type | Wt. (g) | US List Price (\$) |
|----------------------------|----------------|----------------------|-----------------------|---------------------|------------------|---------|--------------------|
| Micro Balance | | | | | | | |
| SECURA26-1S | 21 | 0.002 mg | 0.004 mg | 50 1.97 | isoCAL | 20 | 20,965 |
| Semi-Micro Balances | | | | | | | |
| SECURA125-1S | 60 120 | 0.01 0.01 mg | 0.03 0.04 mg | 80 3.1 | isoCAL | 100 | 6,575 |
| SECURA225D-1S | 60 120 220 | 0.01 0.01 0.1 mg | 0.03 0.04 0.07 mg | 80 3.1 | isoCAL | 100 | 6,905 |
| QUINTIX35-1S | 30 | 0.01 mg | 0.03 mg | 80 3.1 | isoCAL | 20 | 5,385 |
| QUINTIX65-1S | 40 60 | 0.01 0.01 mg | 0.03 0.04 mg | 80 3.1 | isoCAL | 50 | 5,620 |
| QUINTIX125D-1S | 40 60 120 | 0.01 0.01 0.1 mg | 0.03 0.04 0.07 mg | 80 3.1 | isoCAL | 50 | 5,855 |
| Analytical Balances | | | | | | | |
| SECURA124-1S | 120 | 0.0001 | 0.0001 | 90 3.5 | isoCAL | 100 | 4,015 |
| SECURA224-1S | 220 | 0.0001 | 0.0001 | 90 3.5 | isoCAL | 200 | 4,450 |
| SECURA324-1S | 320 | 0.0001 | 0.0001 | 90 3.5 | isoCAL | 200 | 5,240 |
| QUINTIX64-1S | 60 | 0.0001 | 0.0001 | 90 3.5 | isoCAL | 50 | 3,195 |
| QUINTIX124-1S | 120 | 0.0001 | 0.0001 | 90 3.5 | isoCAL | 100 | 3,550 |
| QUINTIX224-1S | 220 | 0.0001 | 0.0001 | 90 3.5 | isoCAL | 200 | 4,020 |
| Milligram Balances | | | | | | | |
| SECURA213-1S | 210 | 0.001 | 0.001 | 120 4.75 | isoCAL | 200 | 2,455 |
| SECURA313-1S | 310 | 0.001 | 0.001 | 120 4.75 | isoCAL | 200 | 2,670 |
| SECURA513-1S | 510 | 0.001 | 0.001 | 120 4.75 | isoCAL | 500 | 3,345 |
| SECURA613-1S | 610 | 0.001 | 0.001 | 120 4.75 | isoCAL | 500 | 3,565 |
| SECURA1103-1S | 1,100 | 0.001 | 0.001 | 120 4.75 | isoCAL | 1,000 | 5,190 |
| QUINTIX213-1S | 210 | 0.001 | 0.001 | 120 4.75 | isoCAL | 200 | 2,100 |
| QUINTIX313-1S | 310 | 0.001 | 0.001 | 120 4.75 | isoCAL | 200 | 2,245 |
| QUINTIX513-1S | 510 | 0.001 | 0.001 | 120 4.75 | isoCAL | 500 | 3,040 |
| QUINTIX613-1S | 610 | 0.001 | 0.001 | 120 4.75 | isoCAL | 500 | 3,195 |
| Precision Balances | | | | | | | |
| SECURA612-1S | 610 | 0.01 | 0.01 | 180 7 | isoCAL | 500 | 2,110 |
| SECURA1102-1S | 1,100 | 0.01 | 0.01 | 180 7 | isoCAL | 1,000 | 2,340 |
| SECURA2102-1S | 2,100 | 0.01 | 0.01 | 180 7 | isoCAL | 2,000 | 2,785 |
| SECURA3102-1S | 3,100 | 0.01 | 0.01 | 180 7 | isoCAL | 2,000 | 3,010 |
| SECURA5102-1S | 5,100 | 0.01 | 0.01 | 180 7 | isoCAL | 5,000 | 3,460 |
| SECURA6102-1S | 6,100 | 0.01 | 0.01 | 180 7 | isoCAL | 5,000 | 3,675 |
| SECURA3101-1S | 3,100 | 0.1 | 0.05 | 180 7 | isoCAL | 2,000 | 2,245 |
| SECURA6101-1S | 6,100 | 0.1 | 0.05 | 180 7 | isoCAL | 5,000 | 2,570 |
| QUINTIX412-1S | 410 | 0.01 | 0.01 | 180 7 | isoCAL | 200 | 1,540 |
| QUINTIX612-1S | 610 | 0.01 | 0.01 | 180 7 | isoCAL | 500 | 1,775 |
| QUINTIX1102-1S | 1,100 | 0.01 | 0.01 | 180 7 | isoCAL | 1,000 | 2,010 |
| QUINTIX2102-1S | 2,100 | 0.01 | 0.01 | 180 7 | isoCAL | 2,000 | 2,245 |
| QUINTIX3102-1S | 3,100 | 0.01 | 0.01 | 180 7 | isoCAL | 2,000 | 2,485 |
| QUINTIX5102-1S | 5,100 | 0.01 | 0.01 | 180 7 | isoCAL | 5,000 | 3,080 |
| QUINTIX6102-1S | 6,100 | 0.01 | 0.01 | 180 7 | isoCAL | 5,000 | 3,605 |
| QUINTIX2101-1S | 2,100 | 0.1 | 0.1 | 180 7 | isoCAL | 2,000 | 1,540 |
| QUINTIX5101-1S | 5,100 | 0.1 | 0.1 | 180 7 | isoCAL | 5,000 | 1,775 |
| QUINTIX6101-1S | 6,100 | 0.1 | 0.1 | 180 7 | isoCAL | 5,000 | 2,125 |
| QUINTIX5100-1S | 5,100 | 1.0 | 0.5 | 180 7 | isoCAL | 5,000 | 1,420 |
| QUINTIX6100-1S | 6,100 | 1.0 | 0.5 | 180 7 | isoCAL | 5,000 | 1,540 |

Scope of delivery for all Secura® & Quintix® balances include: Universal power adapter (100-240 V~), in-use cover, Application guide, Draft shield & Dust cover for micro, semi-micro, analytical and milligram balances.

Secura® & Quintix® Accessories

| Item | Description | US List Price (\$) |
|---|---|--------------------|
| YDP30 | Premium GLP lab printer (paper not included) | 1,485 |
| 69Y03285 | Printer paper for YDP30 (ink ribbon set for GLP) | 70 |
| 69Y03286 | Self-adhesive printer paper for YDP30 (ink ribbon set for GLP) | 75 |
| YDP40 | Standard Thermal Lab Printer | 950 |
| 69Y03287 | Standard thermal paper for YDP30 YDP40, 5 rolls | 32 |
| 69Y03288 | Self-adhesive thermal paper for YDP30 YDP40, 5 rolls | 59 |
| YRB11Z | Battery pack for standard lab balances | 610 |
| YCC04-D09 | Data cable mini USB USB A | 57 |
| YCC03-D09 | Data cable mini USB RS232 9-pin female | 57 |
| YCC03-D25 | Data cable mini USB RS232 25-pin female | 57 |
| VF4601 | Density kit for balances with a readability of 0.01 mg and Model 324-1S | on request |
| YDK03 | Density kit for balances with a readability of 0.1 mg 1 mg | 900 |
| YDK04 | Density kit for balances with a readability of 0.01 g | 790 |
| YFW01SQP | Filter weighing pan, 130 mm, for 0.01 mg balances | 505 |
| YWP01SQP | Weighing pan 90 mm for 0.01 mg balances | 375 |
| YSP01SQP | Weighing pan, 80 mm slotted, for 0.01 mg balances | 750 |
| YDB-SECURA-5 | Carrying case for 0.01 mg balances | 980 |
| YDB-SECURA | Carrying case for 0.1 mg 1 mg balances | 790 |
| YDB-SECURA-P | Carrying case for 10 mg balances | 525 |
| YDS01SQP | Draft shield for balances with a readability of 0.01 g 0.1 g 1 g | 420 |
| YDS02SQP | Draft shield for balances with a readability of 1 mg | 300 |
| YHK01SQP | Interior glass draft shield for balances with a readability of 0.002 mg | 790 |
| 6960SE05 | In-use covers for balances with a readability of 0.01 mg or 0.002 mg | 46 |
| 6960SE01 | In-use covers for balances with a readability of 0.1 mg or 1 mg | 45 |
| 6960SE02 | In-use covers for balances with a readability of 0.01 g 0.1 g 1 g | 43 |
| 6960SE04 | Dust cover for balances with a readability of 0.01 mg or 0.002 mg | 37 |
| 6960SE03 | Dust cover for balances with a readability of 0.1 mg or 1 mg | 33 |
| YIB01-OUR | Ionizing blower for electrostatically charge of samples | 1,840 |
| YSTP01 | Stat pen, for neutralize static electricity on samples | 1,940 |
| YWT09 | Weighing table, made of wood, with decoupled centered granite plate | 2,125 |
| YWT03 | Balance table, made of granite, with vibration dampeners | 2,260 |
| U1-21201315 | Granite Platform (13" × 15"), with vibration isolators | 715 |
| YCP06SQ | Pipette calibration kit (hardware) for balances with a readability of 0.01 mg | 960 |
| 641214 | Weighing scoop made of chrome nickel steel, 90 mm × 32 mm × 8 mm | 99 |
| U1-6565-250 | Aluminum weighing scoops, 4.5 mg (pkg. of 250) for micro balances | 141 |
| YSW02 | Sartorius Wedge for Windows (no cable included) | 535 |
| Extended Warranty and Installation (for more info & service options, see page 198) | | |
| 84WAL04 | 12-month micro balance extended warranty | 655 |
| 84WAL03 | 12-month semi-micro balance extended warranty | 320 |
| 84WAL02 | 12-month analytical balance extended warranty | 320 |
| 84WAL01 | 12-month precision/milligram balance extended warranty | 320 |
| 84ICL04 | Micro balance installation | 570 |
| 84ICL03 | Semi-micro balance installation | 285 |
| 84ICL02 | Analytical balance installation | 275 |
| 84ICL01 | Precision/milligram balance installation | 275 |
| 84CGNA | USP Chapter 41 Certificate | 99 |
| 84CENC | ISO 17025 Measurement Uncertainty Certificate | 131 |



YDP30 Thermal Transfer Printer



YDS02SQP Round Glass Draft Shield



YDK03 Density Kit

^ Please contact a Sartorius rep for pricing

Installation pricing is only valid for the continental United States. Travel and expenses are not included in the prices listed.

Basic Laboratory Balances

Entris® and Practum®

These two families of balances are designed to help you start off right in professional weighing. All models feature high-quality weigh cells that ensure fast and repeatable weighing results.

Entris®: It's the classic lab balance!

Entris® has been specially designed to let you accomplish a large number of simple routine weighing tasks effectively and reliably. The balance's clearly structured user interface, logical key assignment and easy-to-read display are ideal features for error-free, confident operation.

Practum®: Meet the clever lab balance!

Its advanced, ergonomic design and intuitive touch-screen user interface will give you the perfect support you need in your daily routine tasks. Get the best value for your money, without any compromises in precision or reliability.



Features

Usability

Colored Touchscreen technology

High-contrast backlit LCD display

Integrated application programs

Reliability

External calibration function

Internal calibration and adjustment function

Overload protection feature

Data Transfer

Plug & Play functionality via mini USB port

PC-Direct feature for data transfer to a computer

Easy data transfer to a computer via RS232

Leveling

Leveling guided by the level indicator

Entris® Practum®

| Features | Entris® | Practum® |
|---|---------|----------|
| Usability | | |
| Colored Touchscreen technology | | • |
| High-contrast backlit LCD display | • | |
| Integrated application programs | • | • |
| Reliability | | |
| External calibration function | • | • |
| Internal calibration and adjustment function | • | |
| Overload protection feature | • | • |
| Data Transfer | | |
| Plug & Play functionality via mini USB port | | • |
| PC-Direct feature for data transfer to a computer | | • |
| Easy data transfer to a computer via RS232 | • | |
| Leveling | | |
| Leveling guided by the level indicator | • | • |

Entris® Applications

- Basic Weighing
- Weighing in %
- Counting
- Animal Weighing | Averaging
- Density
- Mass Unit Conversion

Practum® Applications

- Basic Weighing
- Weighing in %
- Counting
- Animal Weighing | Averaging
- Density
- Mass Unit Conversion
- Checkweighing
- Peak Hold



Analytical models



Milligram models



Precision models with square weighing pan



Precision models with round weighing pan

Entris® Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Repeatability (± g) | Pan Size Ø (mm/in.) | Calibration Type | Wt. (g) | US List Price (\$) |
|----------------------------|--------------|-----------------|---------------------|---------------------|------------------|---------|--------------------|
| Analytical Balances | | | | | | | |
| ENTRIS64i-1SUS | 60 | 0.0001 | 0.0001 | 90 3.5 | Internal | 50 | 2,585 |
| ENTRIS124i-1SUS | 120 | 0.0001 | 0.0001 | 90 3.5 | Internal | 100 | 3,030 |
| ENTRIS224i-1SUS | 220 | 0.0001 | 0.0001 | 90 3.5 | Internal | 200 | 3,370 |
| ENTRIS64-1SUS | 60 | 0.0001 | 0.0001 | 90 3.5 | External | 50 | 1,895 |
| ENTRIS124-1SUS | 120 | 0.0001 | 0.0001 | 90 3.5 | External | 100 | 2,270 |
| ENTRIS224-1SUS | 220 | 0.0001 | 0.0001 | 90 3.5 | External | 200 | 2,520 |
| Milligram Balances | | | | | | | |
| ENTRIS153i-1SUS | 150 | 0.001 | 0.001 | 115 4.5 | Internal | 100 | 1,800 |
| ENTRIS323i-1SUS | 320 | 0.001 | 0.001 | 115 4.5 | Internal | 200 | 1,970 |
| ENTRIS423i-1SUS | 420 | 0.001 | 0.001 | 115 4.5 | Internal | 200 | 2,370 |
| ENTRIS623i-1SUS | 620 | 0.001 | 0.001 | 115 4.5 | Internal | 500 | 2,805 |
| ENTRIS153-1SUS | 150 | 0.001 | 0.001 | 115 4.5 | External | 100 | 1,135 |
| ENTRIS323-1SUS | 320 | 0.001 | 0.001 | 115 4.5 | External | 200 | 1,330 |
| ENTRIS423-1SUS | 420 | 0.001 | 0.001 | 115 4.5 | External | 200 | 1,580 |
| ENTRIS623-1SUS | 620 | 0.001 | 0.001 | 115 4.5 | External | 500 | 1,840 |
| Precision Balances | | | | | | | |
| ENTRIS822i-1SUS | 820 | 0.01 | 0.01 | 150 5.9 | Internal | 500 | 1,680 |
| ENTRIS2202i-1SUS | 2,200 | 0.01 | 0.01 | 180 7.1* | Internal | 2,000 | 1,905 |
| ENTRIS3202i-1SUS | 3,200 | 0.01 | 0.01 | 180 7.1* | Internal | 2,000 | 2,130 |
| ENTRIS4202i-1SUS | 4,200 | 0.01 | 0.01 | 180 7.1* | Internal | 2,000 | 2,420 |
| ENTRIS6202i-1SUS | 6,200 | 0.01 | 0.01 | 180 7.1* | Internal | 5,000 | 2,870 |
| ENTRIS2201i-1SUS | 2,200 | 0.1 | 0.1 | 180 7.1* | Internal | 2,000 | 1,490 |
| ENTRIS5201i-1SUS | 5,200 | 0.1 | 0.1 | 180 7.1* | Internal | 5,000 | 1,745 |
| ENTRIS8201i-1SUS | 8,200 | 0.1 | 0.1 | 180 7.1* | Internal | 5,000 | 1,995 |
| ENTRIS822-1SUS | 820 | 0.01 | 0.01 | 150 5.9 | External | 500 | 1,015 |
| ENTRIS2202-1SUS | 2,200 | 0.01 | 0.01 | 180 7.1* | External | 2,000 | 1,195 |
| ENTRIS3202-1SUS | 3,200 | 0.01 | 0.01 | 180 7.1* | External | 2,000 | 1,455 |
| ENTRIS4202-1SUS | 4,200 | 0.01 | 0.01 | 180 7.1* | External | 2,000 | 1,645 |
| ENTRIS6202-1SUS | 6,200 | 0.01 | 0.01 | 180 7.1* | External | 5,000 | 1,895 |
| ENTRIS2201-1SUS | 2,200 | 0.1 | 0.1 | 180 7.1* | External | 2,000 | 1,080 |
| ENTRIS5201-1SUS | 5,200 | 0.1 | 0.1 | 180 7.1* | External | 5,000 | 1,270 |
| ENTRIS8201-1SUS | 8,200 | 0.1 | 0.1 | 180 7.1* | External | 5,000 | 1,385 |

Scope of delivery for all Entris® balances include: Universal power adapter (100-240V~), Draft shield for analytical balances, Round draft shield for milligram balances, Installation & operating instructions.

* square pan

Practum® Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Repeatability (± g) | Pan Size Ø (mm in.) | Calibration Type | Wt. (g) | US List Price (\$) |
|----------------------------|--------------|-----------------|---------------------|---------------------|------------------|---------|--------------------|
| Analytical Balances | | | | | | | |
| PRACTUM64-1S | 60 | 0.0001 | 0.0001 | 90 3.5 | External | 50 | 2,160 |
| PRACTUM124-1S | 120 | 0.0001 | 0.0001 | 90 3.5 | External | 100 | 2,530 |
| PRACTUM224-1S | 220 | 0.0001 | 0.0001 | 90 3.5 | External | 200 | 2,780 |
| Milligram Balances | | | | | | | |
| PRACTUM213-1S | 210 | 0.001 | 0.001 | 120 4.75 | External | 200 | 1,440 |
| PRACTUM313-1S | 310 | 0.001 | 0.001 | 120 4.75 | External | 200 | 1,555 |
| PRACTUM513-1S | 510 | 0.001 | 0.001 | 120 4.75 | External | 500 | 1,980 |
| Precision Balances | | | | | | | |
| PRACTUM412-1S | 410 | 0.01 | 0.01 | 180 7 | External | 200 | 1,020 |
| PRACTUM612-1S | 610 | 0.01 | 0.01 | 180 7 | External | 500 | 1,130 |
| PRACTUM1102-1S | 1,100 | 0.01 | 0.01 | 180 7 | External | 1,000 | 1,250 |
| PRACTUM2102-1S | 2,100 | 0.01 | 0.01 | 180 7 | External | 2,000 | 1,310 |
| PRACTUM3102-1S | 3,100 | 0.01 | 0.01 | 180 7 | External | 2,000 | 1,555 |
| PRACTUM2101-1S | 2,100 | 0.1 | 0.1 | 180 7 | External | 2,000 | 1,170 |
| PRACTUM5101-1S | 5,100 | 0.1 | 0.1 | 180 7 | External | 5,000 | 1,335 |
| PRACTUM6101-1S | 6,100 | 0.1 | 0.1 | 180 7 | External | 5,000 | 1,395 |
| PRACTUM5100-1S | 5,100 | 1.0 | 1.0 | 180 7 | External | 5,000 | 1,030 |
| PRACTUM6100-1S | 6,100 | 1.0 | 1.0 | 180 7 | External | 5,000 | 1,085 |

Scope of delivery for all Practum® balances include: Universal power adapter (100-240 V~), In-use cover, Application guide, Draft shield & Dust cover for analytical and milligram balances.



Analytical models



Milligram models



Precision models



Entris® & Practum® Accessories

| Item | Description | Entris® | Practum® | US List Price (\$) |
|---|---|---------------|----------|--------------------|
| YDP40 | Standard thermal lab printer | | • | 950 |
| 69Y03287 | Standard thermal paper for YDP30 YDP40, 5 rolls | | • | 32 |
| 69Y03288 | Self-adhesive thermal paper for YDP40, 5 rolls | | • | 59 |
| YDP20-OCE | Data Printer, with statistics and time date function | • | * | 1,190 |
| 6906937 | Paper Rolls for YDP20-OCE, 5 rolls | • | * | 33 |
| 6906918 | Ink Ribbon for YDP20-OCE | • | * | 37 |
| YRB11Z | Battery pack for standard lab balances | • | • | 610 |
| YRD03Z | Remote display, backlit LCD, character height: 15 mm | • | * | 540 |
| YCC04-D09 | Data cable mini USB USB A | | • | 57 |
| YCC03-D09 | Data cable mini USB RS232 9-pin | | • | 57 |
| YCC03-D25 | Data cable mini USB RS232 25-pin female | | • | 57 |
| YCC01-USBM2 | Data Cable RS232 USB | • | | 155 |
| YCC05-001M2 | Data Cable 25-pin RS232 9-pin RS232, 5' | • | | 106 |
| YDK03 | Density kit for balances with a readability of 0.1 mg 1 mg | (0.1 mg only) | • | 900 |
| YDK04 | Density kit for balances with a readability of 0.01 g | | • | 790 |
| YDS01SQP | Draft shield for balances with a readability of 0.01 g 0.1 g 1 g | | • | 420 |
| YDS02SQP | Draft shield for balances with a readability of 1 mg | | • | 300 |
| 6960SE01 | In-use covers for balances with a readability of 0.1 mg or 1 mg | | • | 45 |
| 6960SE02 | In-use covers for balances with a readability of 0.01 g 0.1 g 1 g | | • | 43 |
| 6960SE03 | Dust cover for balances with a readability of 0.1 mg or 1 mg | | • | 33 |
| 6960ED01 | In-use cover for models with a square weighing pan | • | | 60 |
| 6960ED02 | In-use cover for models with a round weighing pan | • | | 68 |
| 6960BP08 | Overnight dustcover for 0.1mg models | • | | 45 |
| YIB01-OUR | Ionizing blower for electrostatically charge of samples | • | • | 1,840 |
| YSTP01 | Stat pen, for neutralize static electricity on samples | • | • | 1,940 |
| U1-21201315 | Granite Platform (13" x 15"), with vibration isolators | • | • | 715 |
| YWT09 | Weighing table, made of wood, with decoupled centered granite plate | • | • | 2,125 |
| YWT03 | Balance table, made of granite, with vibration dampeners | • | • | 2,260 |
| YSW02 | Sartorius Wedge for Windows (no cable included) | • | • | 535 |
| Extended Warranty and Installation (for more info & service options, see page 198) | | | | |
| 84WAL02 | 12-month analytical balance extended warranty | • | • | 320 |
| 84WAL01 | 12-month precision/milligram balance extended warranty | • | • | 320 |
| 84ICL02 | Analytical balance installation | • | • | 275 |
| 84ICL01 | Precision/milligram balance installation | • | • | 275 |
| 84CGNA | USP Chapter 41 Certificate | • | • | 99 |
| 84CENC | ISO 17025 Measurement Uncertainty Certificate | • | • | 131 |

* Additional components required for use with Practum®, contact Sartorius rep for more information



YDP40 Standard Thermal Lab Printer



YRB11Z External Battery Pack



YDP20-OCE Data Printer

Entris® II Balances

Best Value in its Class for Basic Weighing Tasks

No matter what you're weighing, the new Entris® II is always the right choice. Offering unrivalled value at a budget price, this is the only balance in its class featuring isoCAL, LED touch technology and 12 built-in applications. Backed by almost 150 years of German engineering expertise, and available in 40 different models, you'll easily find an Entris® II balance that exactly meets your specific weighing needs.



Features & Benefits

Highest quality standards

- Highly accurate results year in and year out. Guaranteed via monolithic weigh cell technology invented by Sartorius*
- Fastest stabilization time in its class. Uses state-of-the-art weighing sensors
- Best repeatability with rectangular weighing pan
- Overload protection. Rugged design weighs up to a pre-set amount
- Guaranteed reliability with the self-test "@start"
- Made in Germany

Easy clean for operational efficiency and durability

- High chemical resistance ensured using parts made from hard-wearing polybutylene terephthalate (PBT), stainless steel and glass
- Prevents cross contamination -- with wipe clean design and easy-to-remove parts

Effective draft shield

- Minimizes weighing errors caused by electrostatically charged samples -- using specially coated glass parts

isoCAL (internal calibration and adjustment) for total assurance of accurate weighing results

- Optimal accuracy and operating convenience, using fully automated internal temperature and time-controlled calibration and adjustment feature, unique in this weighing class
- Assures (SOP) compliant operation with self-notification if calibration is outside the normal range

Hybrid screen for excellent readability and use

- Combines intuitive, wear resistant LED and touch technology-- provides an easy and clear structured user interface

Plug-and-play convenience

- Automatically detects Sartorius accessories (e.g. printer, second display)
- Real "PC-direct feature" for easy connection to a PC to transfer weighing data directly into spreadsheets or documents such as Microsoft® Excel or Word

Data output for dynamic weighing applications

- Configurable time interval for data output
- Easily adapts to your ambient conditions-- with just one click on the home screen



Entris® II Technical Specifications & Pricing

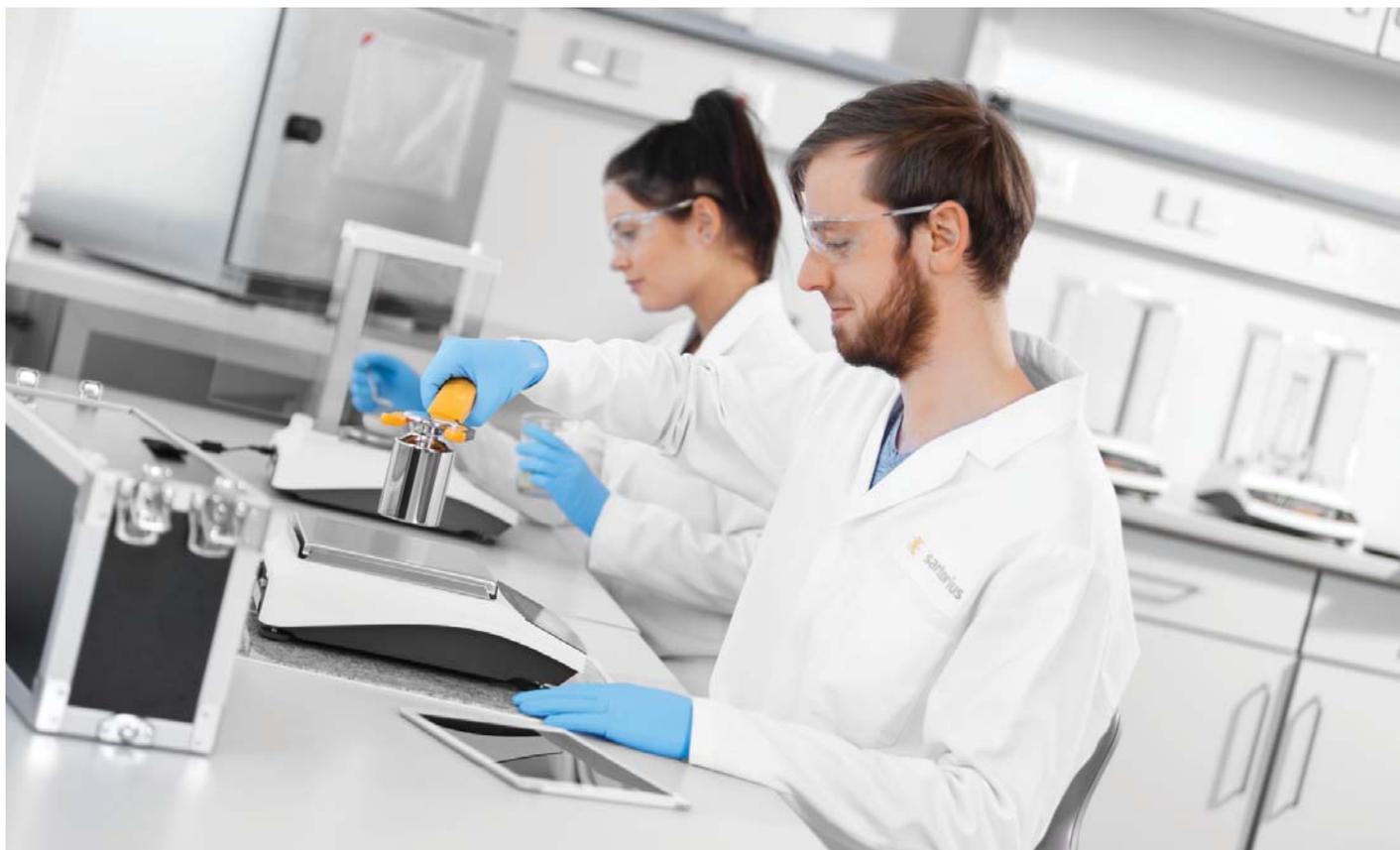
| Item | Capacity (g) | Readability (mg) | Repeatability, typical (mg) | Stabilization time, typical (s) | Pan Size (mm) | Weighing chamber height* [mm] | Dimensions (W x D x H) (mm) | Calibration and adjustment | | US List Price (\$) |
|----------------------------|--------------|------------------|-----------------------------|---------------------------------|---------------|-------------------------------|-----------------------------|----------------------------|----------|--------------------|
| | | | | | | | | Internal | External | |
| Analytical Balances | | | | | | | | | | |
| BCE64i-1S | 60 | 0.1 | 0.1 | ≤1.5 | Ø 90 | 240 | 219x317x345 | • | • | 2,200 [#] |
| BCE64-1S | 60 | 0.1 | 0.1 | ≤1.5 | Ø 90 | 240 | 219x317x345 | - | • | 1,900 [#] |
| BCE124i-1S | 120 | 0.1 | 0.1 | ≤1.5 | Ø 90 | 240 | 219x317x345 | • | • | 2,500 [#] |
| BCE124-1S | 120 | 0.1 | 0.1 | ≤1.5 | Ø 90 | 240 | 219x317x345 | - | • | 2,200 [#] |
| BCE224i-1S | 220 | 0.1 | 0.1 | ≤1.5 | Ø 90 | 240 | 219x317x345 | • | • | 2,800 [#] |
| BCE224-1S | 220 | 0.1 | 0.1 | ≤1.5 | Ø 90 | 240 | 219x317x345 | - | • | 2,500 [#] |
| Precision Balances | | | | | | | | | | |
| BCE223i-1S | 220 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | • | • | 1,400 [#] |
| BCE223-1S | 220 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | - | • | 1,100 [#] |
| BCE323i-1S | 320 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | • | • | 1,600 [#] |
| BCE323-1S | 320 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | - | • | 1,300 [#] |
| BCE423i-1S | 420 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | • | • | 2,000 [#] |
| BCE423-1S | 420 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | - | • | 1,700 [#] |
| BCE623i-1S | 620 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | • | • | 2,200 [#] |
| BCE623-1S | 620 | 1 | 1 | ≤1.0 | Ø 120 | 240 | 219x317x345 | - | • | 1,900 [#] |
| BCE653i-1S | 650 | 1 | 1 | ≤1.0 | Ø 120 | 50 | 219x317x145 | • | • | 2,400 [#] |
| BCE653-1S | 650 | 1 | 1 | ≤1.0 | Ø 120 | 50 | 219x317x145 | - | • | 2,100 [#] |
| BCE622i-1S | 620 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,300 [#] |
| BCE622-1S | 620 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,000 [#] |
| BCE822i-1S | 820 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,400 [#] |
| BCE822-1S | 820 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,100 [#] |
| BCE1202i-1S | 1,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,500 [#] |
| BCE1202-1S | 1,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,200 [#] |
| BCE2202i-1S | 2,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,600 [#] |
| BCE2202-1S | 2,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,300 [#] |
| BCE3202i-1S | 3,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,700 [#] |
| BCE3202-1S | 3,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,400 [#] |
| BCE4202i-1S | 4,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,900 [#] |
| BCE4202-1S | 4,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,600 [#] |
| BCE6202i-1S | 6,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 2,400 [#] |
| BCE6202-1S | 6,200 | 10 | 10 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 2,100 [#] |
| BCE2201i-1S | 2,200 | 100 | 100 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,400 [#] |
| BCE2201-1S | 2,200 | 100 | 100 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,100 [#] |
| BCE5201i-1S | 5,200 | 100 | 100 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,500 [#] |
| BCE5201-1S | 5,200 | 100 | 100 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,200 [#] |
| BCE8201i-1S | 8,200 | 100 | 100 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,700 [#] |
| BCE8201-1S | 8,200 | 100 | 100 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,400 [#] |
| BCE6200i-1S | 6,200 | 1,000 | 1,000 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,400 [#] |
| BCE6200-1S | 6,200 | 1,000 | 1,000 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,100 [#] |
| BCE8200i-1S | 8,200 | 1,000 | 1,000 | ≤0.9 | 182x182 | - | 219x317x94 | • | • | 1,500 [#] |
| BCE8200-1S | 8,200 | 1,000 | 1,000 | ≤0.9 | 182x182 | - | 219x317x94 | - | • | 1,200 [#] |

* upper edge of the weighing pan to the lower edge of the upper draft shield panel

[#] Entris II is available exclusively via our channel partners. Quotes available upon request.

Entris® II Accessories

| Item | Description | US List Price (\$) |
|---|---|--------------------|
| YDC10 | Display protection film (set of 5) | 46 |
| YSP02 | Shield disk for balances with a readability of 0.1 mg | 92 |
| 6960BC01 | Dust cover for balances with analytical draft shield (height 240 mm) | 45 |
| 6960BC02 | Dust cover for balances with analytical draft shield (height 160 mm) | 45 |
| YDC30 | Dust cover for balances without draft shield | 60 |
| YDK03 | Density determination set for balances with a readability of 0.1 mg 1 mg | 900 |
| YKL01 | "Kensington Lock" anti-theft device | 63 |
| YFS03 | Pedal button foot switch for laboratory balances (RS232 9-pin (m)) | 184 |
| YSD01 | Second display for laboratory balances (RS232 9-pin (f), USB-B) | 400 |
| Below-balance weighing (not for models in legal metrology) | | |
| 69EA0039 | Hook M5 thread 69EA0039 | 36 |
| Weighing Tables | | |
| YWT09 | Made from wood with natural stone YWT09 | 2,125 |
| YWT03 | Made from natural stone, with vibration dampening YWT03 | 2,260 |
| YWT04 | Wall console made from natural stone YWT04 | 1,895 |
| YEPS01-PS8 | Power supply set for AU, CN, EU, IN, UK, US, ZA YEPS01-PS8 | 49 |
| YEPS01-15V0W | Power supply w/o adapters YEPS01-15V0W | 35 |
| Printers and Accessories for Data Communication | | |
| YDP40 | Thermal printer (USB-B) | 950 |
| YDP30 | Thermal transfer printer (USB-B, RS232) | 1,485 |
| YDP20-OCE | Dot matrix printer (RS232) | 1,190 |
| 69Y03287 | Thermal paper for printer YDP30 YDP40 (5 x 24 m) | 32 |
| 69Y03288 | Self-adhesive thermal paper for printer YDP30 YDP40 (5 x 24 m) | 59 |
| 69Y03285 | Set thermal direct paper and transfer foil for printer YDP30 (each 90 m) | 70 |
| 69Y03286 | Set self-adhesive thermal paper and transfer foil for printer YDP30 (each 90 m) | 75 |
| 6906937 | Standard paper for printer YDP20 (5 x 40 m) | 33 |
| 6906918 | Printer ribbon cassette for printer YDP20 | 37 |
| YCC-USB-C-B | Data cable USB-C > USB-B (1.5 m) | 29 |
| YCC-USB-C-A | Data cable USB-C > USB-A (1.5 m) | 29 |
| YCC-D09M-USB-A | Data cable RS232 9-pin (male) > USB-A (1.5 m) | 63 |
| YCC-D09MM | Data cable RS232 9-pin (m) > 9-pin (m) (1.5 m) | 63 |
| YCC-D09MF | Data cable RS232 9-pin (m) > 9-pin (f) (1.5 m) | 63 |
| 69Y03130 | Data cable RS232 25-pin (m) > 9-pin (f) (1.0 m) | 90 |
| YCC-D09M-2D09F | Y-Connector RS232 9-pin (m) > 2x 9-pin (f) (0.15 m) | 75 |



PMA.Evolution

The new PMA Standard. Economic. Efficient. Effective.

Increase your Hazardous Area efficiency while reducing your total cost of ownership: Benefit from the precise, reliable and fast results of the new PMA.Evolution. Its superior readability - both from an angle and from a distance - make it a practical and time-saving tool to work with. With a variety of accessories you can enhance the functionality and usability of this high-quality Made-in-Germany product.



Features

Internal Mixing Module

- Integrated mixing module for PC independent formulation processing

New High-Contrast Glass Sensor Touch Display

- Viewable from any angle, even at a distance

Tempered Edge-Glass Display Face for Easy clean up

Built-In Overpour Recalculation and Factor Weighing

Dual-Range functionality

- More precise results

Display Lock

- Prevent unauthorized use

Easy Installation

- Power and Data over one USB cable

Microsoft Certified® drivers

Internationally Compliant

ATEX / FM / IECEx Approved

Integrated Zener Barrier

Multi-Language Support

Applications

- Straight Weighing
- Overpour Recalculation
- Factor Weighing
- Unit Toggling (grams or parts per pound only)
- Dual-Range
- Display Lock

Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Pan Size | Calibration | US List Price (\$) |
|------------|--------------|-----------------|----------|--------------------|--------------------|
| EVO1X2N1-C | 7500 1000 | 0.1 0.05 | 9 in. Ø | 1 2 5 External | 2,810 |

Approvals

| | | | | | |
|----------|--|--|--|--|--|
| IECEX | Ex ib IIB T4 Gb | | | | |
| ATEX | II 2G Ex ib IIB T4 Gb | | | | |
| FM (USA) | IS CL I, DIV 1, GP C,D T4; CL I, Zone 1, AEx ib IIB T4 | | | | |
| FM (CAN) | Ex ia CL I, DIV 1, GP C,D T4, Zone 1, Ex ib IIB T4 | | | | |

Benefits

Glass-sensor touch technology with visual key hit feedback allows for a faster and more accurate user interaction and with the solvent resistant full-face edge glass, cleanup is fast and easy.

Accidentally added too much of a component? No problem, the patented Overpour Recalculation feature allows you to "fix your mix" without sacrificing accuracy of recipe.

Lock features prevent unauthorized use of the scale. By entering a user-defined password, you can further enhance the security of the system.

Integrated zener barrier and USB power allows for a fast installation, with data and power over one single cable-no more tangled mess of cables.

Microsoft Certified® drivers-If an internet connection to the PC is present, the scale will locate the proper USB drivers and automatically install them.

Factory Mutual Systems Approved for use in Class I, Division 1 Hazardous Areas provides the user with the peace of mind of knowing that the unit is safe to use even in the most extreme conditions.

In-Use Protective Covers are available as accessories to keep your product looking and working like new.

PMA.HD

High-Resolution. When Every Drop Counts

The PMA.HD is the ideal solution where higher accuracy for smaller amounts is needed. With a high 10 mg resolution, the Ex Zone 1 | Class I, Div. 1 approval and the ability to connect via USB to a PC or AC power, the PMA.HD provides the ideal specifications for fast and effective results in your lab. The ergonomic design uses a smaller footprint, saving space, and the superior display and versatile power options make the PMA.HD the ideal solution for your weighing needs at higher resolution.



Features

Internal Mixing Module

- Integrated mixing module for PC independent formulation processing

New High-Contrast Glass Sensor Touch Display

- Viewable from any angle, even at a distance

Tempered Edge-Glass Display Face for Easy clean up

Built-In Overpour Recalculation and Factor Weighing

Display Lock

- Prevent unauthorized use

Easy Installation

- Power and Data over one USB cable

Microsoft Certified® drivers

Internationally Compliant

ATEX / FM / IECEx Approved

Integrated Zener Barrier

Multi-Language Support

Applications

- Straight Weighing
- Overpour Recalculation
- Factor Weighing
- Unit Toggling (grams or parts per pound only)
- Dual-Range
- Display Lock

Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Pan Size | Calibration | US List Price (\$) |
|------------------|--------------|--|-----------------------|----------------------|--------------------|
| LAB1X2N1 | 2200 | 0.01 | 7 in. Ø | 0.5 1 2 External | 3,510 |
| Approvals | | | | | |
| IECEx | | | Ex ib IIB T4 Gb | | |
| ATEX | | | II 2G Ex ib IIB T4 Gb | | |
| FM (USA) | | IS CL I, DIV 1, GP C,D T4; CL I, Zone 1, AEx ib IIB T4 | | | |
| FM (CAN) | | Ex ia CL I, DIV 1, GP C,D T4, Zone 1, Ex ib IIB T4 | | | |

Benefits

Glass-sensor touch technology with visual key hit feedback allows for a faster and more accurate user interaction and with the solvent resistant full-face edge glass, cleanup is fast and easy.

Accidentally added too much of a component? No problem, the patented Overpour Recalculation feature allows you to "fix your mix" without sacrificing accuracy of recipe.

Lock features prevent unauthorized use of the scale. By entering a user-defined password, you can further enhance the security of the system.

Integrated zener barrier and USB power allows for a fast installation, with data and power over one single cable-no more tangled mess of cables.

Microsoft Certified® drivers-If an internet connection to the PC is present, the scale will locate the proper USB drivers and automatically install them.

Factory Mutual Systems Approved for use in Class I, Division 1 Hazardous Areas provides the user with the peace of mind of knowing that the unit is safe to use even in the most extreme conditions.

In-Use Protective Covers are available as accessories to keep your product looking and working like new.

PMA.Power Ex

Hazardous Area Weighing at High Capacity. Awesome Accuracy up to 35 kg

The new PMA.Power is the ideal solution for Zone 1 explosive areas. If you don't want to make any compromises when weighing to higher capacities. Designed primarily as a 5-gallon paint mixing scale, Its monolithic weigh cell featuring a resolution of 0.1 g and a weighing capacity extending up to 35 kg enables you to add components quickly and accurately into relatively large paint cans or other vessels. Thanks to its high resolution, you will also find it easy to pour in small amounts with total accuracy on the PMA.Power scale. This lets you save money by not having to buy a second scale for the smaller jobs. Its enhanced, large 14-segment display enables the operator to clearly read both weights and color components as well as other important information.

In addition, the PMA.Power display is equipped with a bracket that can be installed on a wall or set up on a bench. This gives you optimal flexibility in customizing your work area to suit your needs. And it ensures that you will have all important information available at a glance! The special display lock function enables you to secure your PMA.Power against unauthorized use.



Features

- Built-In Overpour Recalculation and Factor Weighing
- Display Lock-Prevent unauthorized use
- FM Approved Class I, Division 1
- Package complete with a Safe-Area Power Supply
- Solvent-Resistant Housing Components
- RS232 Interface
- Multi-Language Support

Applications

- Straight Weighing
- Overpour Recalculation
- Factor Weighing
- Unit Toggling (grams or parts per pound only)
- Display Lock

Benefits

High-Capacity force-compensation weighing system to 35kg and 0.1g readability through the entire weighing range gives you the most accurate results.

Accidentally added too much of a component? No problem, the patented Overpour Recalculation feature allows you to "fix your mix" without sacrificing accuracy of recipe.

Lock features prevent unauthorized use of the scale. By entering a user-defined password, you can further enhance the security of the system.

The scale is offered in a package, and comes complete with a YPS02-ZKR safe-area power supply-no more selecting and purchasing the high-cost power supply separately.

Factory Mutual Systems Approved for use in Class I, Division 1 Hazardous Areas provides the user with the peace of mind of knowing that the unit is safe to use even in the most extreme conditions.

In-Use Protective Display Covers are available as accessories to keep your product looking and working like new.



Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Pan Size | Calibration | US List Price (\$) |
|------------------|--------------|--|-----------|----------------|--------------------|
| PMP01P-XKR013 | 35000 | 0.1 | 14" x 10" | 10 kg External | 7,480 |
| Approvals | | | | | |
| ATEX | | II 2G Ex ib IIB T4 Gb | | | |
| FM (USA) | | IS CL I, DIV 1, GP C,D T4; CL I, Zone 1, AEx ib IIB T4 | | | |
| FM (CAN) | | Ex ia CL I, DIV 1, GP C,D T4; Zone 1, Ex ib IIB T4 | | | |

Weight Kits

Traceable Calibration Weights

Rice Lake Weighing Systems manufactures a wide selection of quality calibration weights. Calibration weights can be certified at Rice Lake's mass laboratories, which include traceability to NIST and can be accredited to ISO/IEC 17025:2005.

Essential Weights™ Weight Sets

Essential Weights are customized sets of three or four stainless steel test weights in a small, durable carrying case, specifically tailored to your precision weighing equipment.

- ASTM Class 0 and Class 1 weights
- Polished stainless steel
- Density is approximately 7.95 g/cm³
- Special PVC weight case
- Precision tweezers included
- Configurations available ideal for calibration, shift tests and sensitivity tests
- Other configurations available by special order
- Meets USP-41 requirements for intermediate checks
- Includes NVLAP Accredited Certificate of Calibration



Weight Calibration Service

Rice Lake offers three different certificates to accompany your weight calibration services. Depending on your application, you may be required to provide a certain level of certification. Always ensure you are requesting the correct certificate for your use. Rice Lake's metrology staff can help guide your certificate decision, but ultimately, we request you provide the level of traceability and accuracy needed for your calibration services.

Available certificates include:

- Certificate of Weight Calibration (Accredited)
- Certificate of Weight Calibration (Non-accredited)
- Statement of Accuracy (Not a Legal for Trade or traceable document)

Contact us for quotations: 631-254-4249 x 8926

RICE LAKE[®]
WEIGHING SYSTEMS

Essential Weights™ Pricing and Specifications

| Model | Kit Contents | US List Price (\$) |
|---------------------|---------------------|--------------------|
| ASTM Class 0 | | |
| WCP250AC0C | 2 g, 200 mg, 1 mg | 345 |
| WCP251AC0C | 5 g, 500 mg, 1 mg | 370 |
| ASTM Class 1 | | |
| WCP270AC1C | 20 g, 2 g, 20 mg | 320 |
| WCP254AC1C | 100 g, 10 g, 20 mg | 385 |
| WCP255AC1C | 100 g, 10 g, 200 mg | 385 |
| WCP281AC1C | 200 g, 20 g, 20 mg | 400 |
| WCP257AC1C | 200 g, 20 g, 200 mg | 400 |
| WCP258AC1C | 200 g, 20 g, 2 g | 420 |
| WCP260AC1C | 500 g, 50 g, 200 mg | 540 |
| WCP261AC1C | 500 g, 50 g, 2 g | 555 |
| WCP262AC1C | 1 kg, 100 g, 2 g | 715 |
| WCP263AC1C | 1 kg, 100 g, 20 g | 735 |
| WCP264AC1C | 2 kg, 200 g, 2 g | 1,045 |
| WCP265AC1C | 2 kg, 200 g, 20g | 1,065 |
| WCP226AC1C | 5 kg, 500 g, 2 g | 1,310 |
| WCP267AC1C | 5 kg, 500 g, 20 g | 1,345 |

Rice Lake Precision Laboratory Calibration Weights - with NVLAP Certification

Weight kits include the calibration weight, case or vial, and handling equipment.

Pricing and Specifications

| Model | Description | US List Price (\$) | Model | Description | US List Price (\$) |
|--|-------------------------------|--------------------|---|--------------------------------|--------------------|
| Precision Weights ASTM - with NVLAP Certification | | | Cylinder EB Weights - with NVLAP Certification | | |
| WI001MAC0C | 1 mg Prec WT ASTM - Class 0 | 265 | WE010GAC1C | 10 g Cyl. EB Weight- Class 1 | 140 |
| WI001MAC1C | 1 mg Prec WT ASTM - Class 1 | 118 | WE100GAC1C | 100 g Cyl. EB Weight- Class 1 | 150 |
| WI002MAC0C | 2 mg Prec WT ASTM - Class 0 | 265 | WE200GAC1C | 200 g Cyl. EB Weight- Class 1 | 245 |
| WI002MAC1C | 2 mg Prec WT ASTM - Class 1 | 118 | WE200GAC2C | 200 g Cyl. EB Weight- Class 2 | 245 |
| WI010MAC0C | 10 mg Prec WT ASTM -Class 0 | 270 | WE200GAC3C | 200 g Cyl. EB Weight - Class 3 | 240 |
| WI010MAC1C | 10 mg Prec WT ASTM- Class 1 | 118 | WE500GAC1C | 500 g Cyl. EB Weight- Class 1 | 270 |
| WI010MAC4C | 10 mg Prec WT ASTM - Class 4 | 70 | WE01KGAC1C | 1 kg Cyl. EB Weight- Class 1 | 300 |
| WI020MAC1C | 20 mg Prec WT ASTM - Class 4 | 118 | WI002KAC1C | 2 kg Prec WT ASTM - Class 1 | 885 |
| WI050MAC1C | 50 mg Prec WT ASTM - Class 1 | 118 | WE02KGAC1C | 2 kg Cyl. EB Weight- Class 1 | 355 |
| WI100MAC1C | 100 mg Prec WT ASTM - Class 1 | 118 | WE02KGAC3C | 2 kg Cyl. EB Weight- Class 3 | 335 |
| WI500MAC4C | 500 mg Prec WT ASTM - Class 4 | 70 | WI002KOE2C | 2 kg Prec WT OIML - Class E2 | 830 |
| WI001GAC1C | 1 g Prec WT ASTM - Class 1 | 131 | WI002KOF1C | 2 kg Prec WT OIML - Class F1 | 745 |
| WI001GAC2C | 1 g Prec WT ASTM - Class 2 | 130 | WE05KGAC1C | 5 kg Cyl. EB Weight- Class 1 | 815 |
| WI002GAC1C | 2 g Prec WT ASTM - Class 1 | 141 | WE05KGAC3C | 5 kg Cyl. EB Weight- Class 3 | 655 |
| WI005GAC1C | 5 g Prec WT ASTM - Class 1 | 151 | | | |
| WI010GAC1C | 10 g Prec WT ASTM - Class 1 | 151 | | | |
| WI020GAC1C | 20 g Prec WT ASTM- Class 1 | 151 | | | |
| WI020GAC4C | 20 g Prec WT ASTM - Class 4 | 113 | | | |
| WI030GAC1C | 30 g Prec WT ASTM - Class 1 | 156 | | | |
| WI050GAC1C | 50 g Prec WT ASTM - Class 1 | 163 | | | |
| WI100GAC1C | 100 g Prec WT ASTM - Class 1 | 168 | | | |
| WI200GAC1C | 200 g Prec WT ASTM - Class 1 | 290 | | | |
| WI500GAC0C | 500 g Prec WT ASTM - Class 0 | 580 | | | |
| WI500GAC2C | 500 g Prec WT ASTM - Class 2 | 345 | | | |
| WI500MAC1C | 500 g Prec WT ASTM - Class 1 | 118 | | | |
| WI001KAC1C | 1 kg Prec WT ASTM - Class 1 | 645 | | | |
| Precision Weights OIML - with NVLAP Certification | | | | | |
| WI020MOE2C | 20 mg Prec WT OIML - Class 2 | 133 | | | |
| WI001GOE2C | 1 g Prec WT OIML - Class E2 | 133 | | | |
| WI010GOE2C | 10 g Prec WT OIML - Class E2 | 151 | | | |
| WI050GOE2C | 50 g Prec WT OIML - Class E2 | 163 | | | |
| WI100GOE2C | 100 g Prec WT OIML - Class E2 | 168 | | | |
| WI200GOF1C | 200 g Prec WT OIML - Class F1 | 320 | | | |
| WI200GOE2C | 200 g Prec WT OIML -Class E2 | 340 | | | |
| WI500GOE2C | 500 g Prec WT OIML - Class E2 | 425 | | | |
| WI500GOF1C | 500 g Prec WT OIML -Class F1 | 370 | | | |
| WI001KOE2C | 1 kg Prec WT OIML - Class E2 | 615 | | | |

Rice Lake Precision Laboratory Calibration Weights- with Traceability Certificate

Weight kits include the calibration weight, case or vial, and handling equipment.

Pricing and Specifications

| Model | Description | US List Price (\$) | Model | Description | US List Price (\$) |
|---|-------------------------------|--------------------|--|-------------------------------|--------------------|
| Precision Weights ASTM - with Traceability Certificate | | | Cylinder EB Weights - with Traceability Certificate | | |
| WI001MAC1T | 1 mg Prec WT ASTM - Class 1 | 108 | WE020GAC1T | 20 g Cyl. EB Weight- Class 1 | 140 |
| WI002MAC1T | 2 mg Prec WT ASTM - Class 1 | 108 | WE030GAC1T | 30 g Cyl. EB Weight- Class 1 | 130 |
| WI005MAC1T | 5 mg Prec WT ASTM - Class 1 | 108 | WE050GAC1T | 50 g Cyl. EB Weight- Class 1 | 130 |
| WI010MAC1T | 10 mg Prec WT ASTM - Class 1 | 108 | WE050GAC2T | 50 g Cyl. EB Weight- Class 2 | 130 |
| WI010MAC2T | 10 mg Prec WT ASTM - Class 2 | 84 | WE100GAC1T | 100 g Cyl. EB Weight- Class 1 | 140 |
| WI020MAC1T | 20 mg Prec WT ASTM - Class 1 | 108 | WE200GAC1T | 200 g Cyl. EB Weight- Class 1 | 177 |
| WI050MAC1T | 50 mg Prec WT ASTM - Class 1 | 108 | WE200GAC2T | 200 g Cyl. EB Weight- Class 1 | 177 |
| WI100MAC1T | 100 mg Prec WT ASTM - Class 1 | 108 | WE400GAC2T | 400 g Cyl. EB Weight- Class 2 | 193 |
| WI200MAC1T | 200 mg Prec WT ASTM - Class 1 | 108 | WE500GAC1T | 500 g Cyl. EB Weight- Class 1 | 200 |
| WI300MAC2T | 300 mg Prec WT ASTM - Class 2 | 85 | WE500GAC2T | 500 g Cyl. EB Weight- Class 2 | 200 |
| WI500MAC1T | 500 mg Prec WT ASTM - Class 1 | 108 | WE500GAC3T | 500 g Cyl. EB Weight- Class 3 | 187 |
| WI500MAC2T | 500 mg Prec WT ASTM - Class 2 | 85 | WE05KGAC1T | 5 kg Cyl. EB Weight- Class 1 | 740 |
| WI001GAC1T | 1 g Prec WT ASTM - Class 1 | 119 | WE05KGAC2T | 5 kg Cyl. EB Weight- Class 2 | 610 |
| WI001GAC2T | 1 g Prec WT ASTM - Class 2 | 118 | WE05KGAC3C | 5 kg Cyl. EB Weight- Class 3 | 655 |
| WI002GAC1T | 2 g Prec WT ASTM - Class 1 | 131 | WE02KGAC1T | 2 kg Cyl. EB Weight- Class 1 | 290 |
| WI005GAC1T | 5 g Prec WT ASTM - Class 1 | 141 | WE01KGAC1T | 1 kg Cyl. EB Weight- Class 1 | 225 |
| WI005GAC2T | 5 g Prec WT ASTM - Class 2 | 118 | WE02KGAC2T | 2 kg Cyl. EB Weight- Class 2 | 270 |
| WI005GAC3T | 5 g Prec WT ASTM - Class 3 | 130 | WE02KGAC3T | 2 kg Cyl. EB Weight- Class 3 | 270 |
| WI010GAC1T | 10 g Prec WT ASTM - Class 1 | 141 | | | |
| WI010GAC2T | 10 g Prec WT ASTM - Class 2 | 130 | | | |
| WI020GAC1T | 20 g Prec WT ASTM - Class 1 | 141 | | | |
| WI020GAC2T | 20 g Prec WT ASTM - Class 2 | 130 | | | |
| WI030GAC2T | 30 g Prec WT ASTM - Class 2 | 135 | | | |
| WI050GAC1T | 50 g Prec WT ASTM - Class 1 | 151 | | | |
| WI050GAC2T | 50 g Prec WT ASTM - Class 2 | 145 | | | |
| WI050GAC3T | 50 g Prec WT ASTM - Class 3 | 140 | | | |
| WI050GAC4T | 50 g Prec WT ASTM - Class 4 | 125 | | | |
| WI100GAC0T | 100 g Prec WT ASTM- Class 0 | 440 | | | |
| WI100GAC1T | 100 g Prec WT ASTM - Class 1 | 157 | | | |
| WI100GAC2T | 100 g Prec WT ASTM - Class 2 | 156 | | | |
| WI100GAC3T | 100 g Prec WT ASTM - Class 3 | 150 | | | |
| WI200GAC1T | 200 g Prec WT ASTM - Class 1 | 215 | | | |
| WI200GAC2T | 200 g Prec WT ASTM - Class 2 | 210 | | | |
| WI300GAC2T | 300 g Prec WT ASTM - Class 2 | 215 | | | |
| WI005KAC1T | 5 kg Prec WT ASTM - Class 1 | 1,220 | | | |



Rice Lake Precision Laboratory Calibration Weights- without Certificate

Weight kits include the calibration weight, case or vial, and handling equipment.

Pricing and Specifications

| Model | Description | US List Price (\$) |
|-------|-------------|--------------------|
|-------|-------------|--------------------|

Precision Weights ASTM - without Certificate

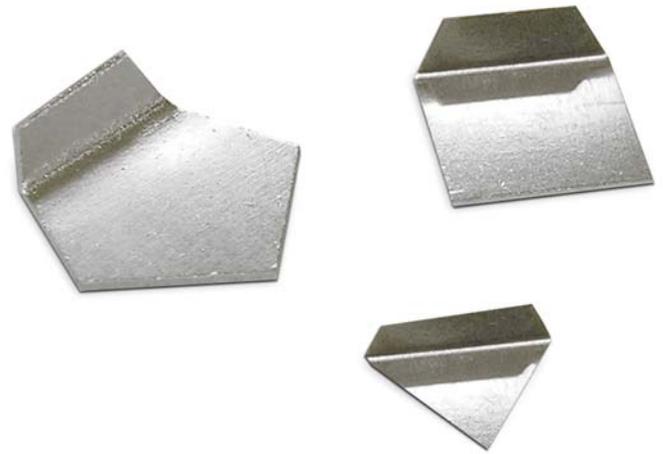
| | | |
|------------|------------------------------|-----|
| WI001MAC2N | 1 mg Prec WT ASTM- Class 2 | 43 |
| WI003MAC1N | 3 mg Prec WT ASTM - Class 1 | 65 |
| WI010MAC2N | 10 mg Prec WT ASTM - Class 2 | 42 |
| WI050MAC2N | 50 mg Prec WT ASTM - Class 2 | 43 |
| WI001GAC0N | 1 g Prec WT ASTM - Class 0 | 330 |
| WI001GAC2N | 1 g Prec WT ASTM - Class 2 | 76 |
| WI005GAC2N | 5 g Prec WT ASTM - Class 2 | 76 |
| WI010GAC2N | 10 g Prec WT ASTM - Class 2 | 140 |
| WI020GAC2N | 20 g Prec WT ASTM - Class 2 | 87 |
| WI200GAC2N | 200 g Prec WT ASTM - Class 2 | 153 |
| WI300GAC1N | 300 g Prec WT ASTM - Class 1 | 170 |

Cylinder EB Weights - without Certificate

| | | |
|------------|-------------------------------|-----|
| WE050GAC1N | 50 g Cyl. EB Weight- Class 1 | 87 |
| WE100GAC1N | 100 g Cyl. EB Weight- Class 1 | 98 |
| WE100GAC2N | 100 g Cyl. EB Weight- Class 2 | 93 |
| WE200GAC1N | 200 g Cyl. EB Weight- Class 1 | 118 |
| WE200GAC2N | 200 g Cyl. EB Weight- Class 2 | 118 |
| WE400GAC2N | 400 g Cyl. EB Weight- Class 2 | 135 |
| WE500GAC1N | 500 g Cyl. EB Weight- Class 1 | 141 |
| WE01KGAC4N | 1 kg Cyl. EB Weight- Class 4 | 153 |
| WE02KGAC2N | 2 kg Cyl. EB Weight- Class 2 | 185 |
| WE02KGAC4N | 2 kg Cyl. EB Weight- Class 4 | 175 |
| WE05KGAC2N | 5 kg Cyl. EB Weight- Class 2 | 530 |

Precision Weights OIML - without Certificate

| | | |
|------------|--------------------------------|-----|
| WI100MOE2N | 100 mg Prec WT OIML - Class E2 | 130 |
| WI010GOE1N | 10 g Prec WT OIML - Class E1 | 530 |
| WG25KGICFN | 25 kg Iron Grip Handle CL7 | 165 |
| WG05KGICFN | 5 kg Iron Grip Handle CL7 | 79 |



LMA200PM Microwave Moisture Analyzer

Speed meets analytical precision

Designed for samples with higher moisture content ranging from 8% to 100%. Microwave technology is the fastest and most effective thermogravimetric method (loss on drying principle) for moisture analysis. Results between typically 40-120 seconds on average. With cylindrical design, a focused emission of microwave energy is channeled vertically through dual apertures at the bottom of the chamber. The carousel rotates the sample permitting an even distribution of microwave energy, preventing hot and cold spots from occurring, a common problem with conventional microwave analyzers.



Features

- Controlled microwave energy
- Rotating carousel
- Built-in printer
- Patented microwave chamber
- Dual endpoint monitoring
- Multiple endpoint configurations
- Large touchscreen
- Password protected
- Applications development and support

Applications

- Dairy products
- Meat products
- Vegetables and pastes, fruit processing
- Canned and fresh vegetables
- Frozen foods
- Wet pet food
- Baby food
- Condiments
- Detergents (liquid) and shampoo
- Soy based liquids
- Latex, Paints (water based)
- Wastewater and effluent, ethanols

Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Reproducibility (1 g) | Calibration Type | Calibration Weight | Shipping Weight (lbs) | US List Price (\$) |
|----------------|--------------|-----------------|-----------------------|------------------|--------------------|-----------------------|--------------------|
| LMA200PM-000US | 70 | 0.0001 | ± 0.05% | External | 50 g | 64 | 15,045 |

Benefits

Superior control of sample drying. Previous solids analyzers set at levels <100% did not actually deliver X% power. Instead they deliver 100% power at X% time on a duty cycle. In the LMA200, 70% power actually means the beam power is attenuated to 70% of maximum 100% power level.

Microwave energy is focused on the plane of the sample pads and the carousel spins the sample to evenly distribute the microwave energy, preventing hot and cold spots.

Built-in printer. No need to connect to a printer for hard copies of your results

Dual endpoint monitoring ensures correct results, using weight differential and monitoring the chamber moisture level.

Multiple end point configurations include; Fully automatic by means of mass and moisture, user defined as loss of weight/time, and timer mode

Applications development and support – when you purchase a LMA 200 Microwave, Sartorius will test your sample and develop a program that correlates to a Standard Reference Method. This service is offered at no charge. Currently we have tested and designed programs for over 10,000 materials.



Mark 3 High Performance and Mark 3 LTE

Simply the Best for all your moisture needs

The Mark 3 Moisture analyzer has been stringently designed to reduce the uncertainties commonly associated with loss-on-drying analyzers. Integrating the most advanced temperature resistant electronic balance with a heating chamber designed for near zero heat induced pan lift and balance drift, the Mark 3 will increase the accuracy and precision for analytical results of your most demanding samples. These features make the Mark 3 a genuine alternative to Karl-Fischer titration. The Mark 3 is available in a High Performance and LTE version (standard).



Lab Weighing | Mark 3 HP & Mark 3 LTE

Features

- Four parallel infrared quartz cylinders for heating
- Up to 4 heater modules per control unit
- Large sample capacity
- Superior inter unit correlation
- In-House testing
- Built-in internal printer
- Superior drift specifications
- Monolithic weighing cell
- Multiple modes of operation
- Dual temperature set point capability
- Moisture content from 0.001% to 99.999%

Applications

- Plastics
- Pharmaceuticals
- Foods
- Chemicals
- Cosmetics
- Cannabis/Hemp
- Paints and coatings
- Pulp and Paper
- Waste treatment
- Dairy
- Ethanol

Specifications & Pricing

| Model | Capacity (g) | Readability (g) | Reproducibility (±) | Temp. Range (°C) | Calibration Type | Shipping Weight (lbs) | US List Price (\$) |
|--------------|--------------|-----------------|---------------------|------------------|----------------------|-----------------------|--------------------|
| LMA110-SET-P | 40 | 0.001 | 1 mg | 30-210 | External | 35 | 6,315 |
| LMA100-SET-P | 100 | 0.0001 | 0.1 mg | 30-210 | Internal or External | 35 | 10,295 |

Benefits

Four parallel infrared quartz cylinders give exact temperature control to +/- 1 degree C, fast ramp-up to proper temperature without overheating eliminating burning of your sample as well as fast cooling enabling shorter times between tests.

Up to 4 heaters per control unit, adding 1 to 3 additional heater modules allows you to increase your throughput in testing.

All heater modules correlate to each other, ensuring your results are consistent among several units. No need to settle for "close enough" results.

Superior drift specifications – monolithic weigh cell and chamber design minimizes the drift, providing for more accurate results.

Standard modes of operation include % Moisture, % solids and syringe mode for testing volatiles, TGA mode for FREE and BOUND moisture, and Extrapolation mode which allows us to shorten test times while giving fast accurate answers.

Applications Development and Support – when you purchase a Mark 3 series unit, Sartorius will test your sample and develop a program that correlates to a Standard Reference Method. This service is offered at no charge. Currently we have tested and designed programs for over 10,000 materials.



Mark 3 LTE



Mark 3 HP w/ multiple heater modules



MA35

Fully Automatic Infrared Moisture Analyzer

The MA35 moisture meter has a rugged design and is user-friendly. The concise display shows the user all important information at a single glance. Easy-to-understand icons guide you in three steps from taring the sample pan to starting the measurement. To make the moisture meter MA35 even more user-friendly, we have removed unnecessary programming options without compromising flexibility or measurement accuracy.



Lab Weighing | MA35 Moisture Analyzer

Features

- Maximum weighing capacity of 35 g with 1-mg resolution
- Heating of a sample by two powerful metal tubular-shaped heating elements (also called dark radiators) Uniform distribution of the heat rays using an integrated reflector
- Choice of two modes for end-point determination of a measurement: fully automatic and timer modes
- Special version for compliance with FDA/HACCP regulations (no glass components)
- Time-saving and convenient alternative to a drying oven
- Utmost measurement accuracy and durability "made in Germany"
- Ideally suited for robust production applications
- Simple operator guidance using self-explanatory pictograms

Applications

- Loss on Drying
- Loss on Evaporation
- Thermo-gravimetric
- ASTM Oven drying methods

Benefits

- **Rapid heating technology** yields results within minutes.
- **Easy setup** and user navigation allows for increased productivity.
- **Compact footprint** saves valuable bench-top areas and workspaces.
- **Straightforward functionality.** Perfect for multi-user environments.
- **Consistent heating** gives reproducible and reliable results.
- **Rugged and sturdy construction** give users peace of mind that MA35 will hold up to tough industrial environments.

Specifications & Pricing

| Model | Capacity (g) | Readability (mg) | Reproducibility (1 g 5 g) | Temp Range | Voltage | Shipping Weight (lbs) | US List Price (\$) |
|-------------|--------------|------------------|-----------------------------|-------------|---------|-----------------------|--------------------|
| MA35M-115US | 35 | 1 / 0.01% | ± 0.2 % ± 0.05% | 40 - 160 °C | 115 V | 17 | 2,570 |



MA37 Moisture Analyzer

Fast. Compact. Accurate.

MA37 is the next generation moisture analyzer and continues the legacy of the highly successful MA35. With its user intuitive color touchscreen the MA37 delivers fast, accurate results and is easy to operate. This compact device has a "Better-Clean" design which offers effortless cleaning. The integrated and easy to see status light makes it convenient and efficient to track the status of the measurement. Therefore, the MA37 is ideal for users who require a fast, reliable moisture analyzer which is simple to use and easy to clean.



Features

- All units show results % Moisture, grams / dry matter in % Solids and grams / ATRO in % M/S
- Touchscreen display
- Active display of Moisture curve during process
- LED-illuminated sample chamber, inspection window with grid above the hood
- Shutoff parameters – Fully automatic, semi-automatic, manual and with timer settings
- 1 program saved in non-volatile memory (freely selectable method parameters)
- Removable hood with wide opening angle, "Soft-Close" mechanism
- Mini USB, automatic printer detection
- Direct data transfer to pc- programs
- Infrared heating using metal tube heater

Applications

For quick and reliable determination of the moisture content of liquid, pasty and solid substances using the thermogravimetric method (Loss on Drying). Typical applications of the MA37 include the analysis of foods, beverages, pharmaceuticals, chemicals, paper materials and environmental protection products. For daily recurring moisture analysis tasks, such as in production or incoming goods inspection, the MA37 is the perfect solution!

Specifications & Pricing

| Model | Capacity (g) | Readability (1 mg) | Reproducibility (1 g) | Temp. Range (°C) | Calibration Type | Calibration Weight | Shipping Weight (lbs) | US List Price (\$) |
|----------|--------------|--------------------|-----------------------|------------------|------------------|--------------------|-----------------------|--------------------|
| MA37-1US | 70 | 0.01% | ± 0.02% | 40-160 | External | 50 g | 18 | 3,600 |

Benefits

New user intuitive touchscreen display guides operator through all processes and set up.

Actual moisture curve is displayed during drying process taking the guess work out of the progress.

Easy-to-see drying sample during the measurement with the LED lighted chamber.

Fully automatic endpoint determination eliminates the cumbersome capture of termination criteria.

"Better-Clean" design makes it easy to disassemble and clean USB communications to a printer and direct data transfer to pc-programs without third party software or secondary programing needs.

New higher temperature heating coil with better and tighter specifications.



MA160 Moisture Analyzer

Managing your sophisticated tasks fast, precise and easy

The MA160 is a next generation moisture analyzer and continues the success of the MA150. With its user intuitive color touchscreen the MA160 delivers fast, accurate and reliable results. With all the features of the MA37 included, the MA160 adds the additional features Method development, 99 program storage, Instrument performance testing, and SD card method sharing.



Features

- All features of the MA37
- 99 programs saved in non-volatile memory (freely selectable method parameters)
- AURI - Infrared heating using metal tube heater 600W
- Internal Software assistant for Method Development
- Verification of Repeatability with our ReproEasy test pads
- SD card memory method sharing with multiple units

Applications

With its optimized heating elements, the MA 160 produces high speed measurements. The MA160 is ideal for the moisture analysis of a varying range of samples under different conditions. It can generate new methods which allow you to create and effectively manage proprietary measurement procedures for various samples. This fully supports your work in the QC lab or in process control. Typical areas of applications for the MA 160 include the moisture analysis of foods, beverages, pharmaceuticals, chemicals paper materials, environmental protection, cannabis and hemp.

Benefits

All the features of the MA37 including, Multiple result formats, User intuitive Touch Screen, Active display of Moisture curve, LED-illuminated sample chamber, Direct data transfer to Microsoft programs

Store 99 different programs in non-volatile memory with easy recall

AURI metal tube heater is 600 watts providing fastest reliable heating of your samples

Internal software assistant guides you through developing different methods saving you time and hassle in 3 easy steps

Verify the repeatability of your instrument using ReproEasy disposable test pads. This test can be done anytime at 3 different temperatures providing a simple Pass / Fail evaluation

Store methods/programs and results on the SD card. Transfer methods to other MA160 units or transfer to your PC for storage.

Specifications & Pricing

| Model | Capacity (g) | Readability (1 mg) | Reproducibility (1 g) | Temp. Range (°C) | Calibration Type | Calibration Weight | Shipping Weight (lbs) | US List Price (\$) |
|-----------|--------------|--------------------|-----------------------|------------------|------------------|--------------------|-----------------------|--------------------|
| MA160-1US | 200 | 1 | ± 0.02% | 40-160 | External | 100 g | 18 | 4,500 |



Moisture Analyzer Accessories & Consumables

| Item | Description | US List Price (\$) | MA-35 | MA-37 | MA-160 | Mark 3 HP | Mark 3 LTE | LMA200PM |
|--|--|--------------------|-------|-------|--------|-----------|------------|----------|
| Printers, Cables and Data Communication | | | | | | | | |
| 69TC0479 | Disposable Pans 200 pcs | 92 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 6965542 | High Performance Disposable Pans 80 pcs | 59 | ✓ | ✓ | ✓ | | | |
| 69MA0349 | Lg volume sample pans 10 pcs | 62 | | | | ✓ | ✓ | |
| 69MA0325 | Filter Pads | 40 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 69MA0327 | High Grade Filter Pads | 54 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| YHP01MA | ReproEasy Test pads qty of 10 | 82 | | ✓ | ✓ | | | |
| YHP02MA | ReproEasy Test pads qty of 20 | 152 | | ✓ | ✓ | | | |
| 69TC0480 | Printer paper 10 rolls per box | 71 | | | | ✓ | ✓ | ✓ |
| YDP20-OCE | Alphanumeric Dot Matrix printer | 1,190 | ✓ | ✓ | ✓ | | | |
| YDP40 | Standard Data Printer | 950 | ✓ | ✓ | ✓ | | | |
| YDP30 | Premium GLP laboratory printer | 1,485 | ✓ | ✓ | ✓ | | | |
| 69Y03306 | Power supply for YDP40 printer | 300 | ✓ | ✓ | ✓ | | | |
| YCC03-D09 | Adapter cable for connecting YDP-20 printer | 57 | ✓ | ✓ | ✓ | | | |
| YTM15MA | Temperature calibration disk for MA series | 1,100 | ✓ | ✓ | ✓ | | | |
| 84WAL10 | MA and Premium Series One year Extended Warranty | 655 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 84WAL13 | LMA 200, One year Extended Warranty | 2,020 | | | | | | ✓ |
| 84QAL10 | IQOQ documentation, MA Series | 1,160 | ✓ | ✓ | ✓ | | | |
| 84QAL11 | IQOQ documentation, Premium Series | 1,160 | | | | ✓ | ✓ | |
| YDB09MA | Carrying case with wheels | 645 | | | | ✓ | ✓ | |
| YCC01-MK3 | Mark 3 to PC (USB) cable | 27 | | | | ✓ | ✓ | |
| YCC01-MK1 | Mark 3 to PC (serial) cable | 60 | | | | ✓ | ✓ | |
| YCC01-MK2 | Mark 3 to PC ethernet cable | 27 | | | | ✓ | ✓ | |

Moisture Analysis individual

The Convenient and Reliable Way to Obtain Correct Results

Based on your samples, the Sartorius Applications Laboratory will determine the individual methods best for your specific needs first, then program these parameters into your moisture analyzer. This means you can start using your analyzer right out of the box to run custom-tailored moisture analysis – without the hassle of performing time-consuming test series on your own to find the ideal parameters and having to first program the device.

To ensure that our custom-configured analyzer will exactly fit your needs in enhancing the efficiency of your process, go ahead and try it before you buy it. We offer free trials with no strings attached.

You can rely on our expertise: we have a proven track record in successfully testing over 15,000 different samples for our customers by correlating them to existing reference methods.

Easy

Take care of the rest. Once your moisture analyzer has been preconfigured, all you will need to do is plug it in, conveniently select a program from the list and start the analysis. It will take you less than five minutes to be ready to run your tests.

Fast

Save yourself the inconvenience of having to perform time-consuming reference measurements using a drying oven or Karl-Fischer titration. Plus, you will benefit from optimized, faster analysis time that will make your process more efficient.

Reliable

Whether your samples need to comply with ASTM Standards, specific, national pharmacopeia requirements or German Industrial Standards DIN, you can totally rely on our methods. We will correlate the results of your moisture analyzer with those of the standard reference method you require and thus guarantee reliable, accurate results and traceability.



Lab Weighing | Moisture Analysis individual

Description of the Individual Services Provided

Detailed definition and review of specific requirements and consultation provided by a Sartorius product specialist

Analysis of your samples at the Sartorius Applications Laboratory

Determination of reference values according to the specific standard you use (DIN, S64 LFBG, ASTM, pharmacopeia, etc.) or according to your individual SOP using the following methods:

- Oven-drying method
- Karl-Fischer titration, volumetric
- Karl-Fischer titration, coulometric
- Karl-Fischer titration, coulometric, with oven drying

Method development using your samples to correlate moisture analyzer results with those of reference methods

- Optimization of sample preparation and treatment
- Optimization of the initial sample weight for moisture analysis
- Determination of optimal parameters depending on need for accuracy or speed

Evaluation of measurement results according to your specific requirements

Preparation of a detailed test report

No-obligation two-week free trial of an individually preconfigured moisture analyzer delivered to your premises on the date you request



pHBasic Meters

Superior Results with Classic Functionality

Exceptional quality and reliable pH results are now within your reach. The pHBasic is a perfect benchtop meter for your basic everyday pH routines. Not only is it simple-to-use with classic interface design and intuitive icons, but it is faster due to optimized algorithms with harmonized measuring system of sensor with meter. The pHBasic is extremely reliable with real time indicators like ElectCheck, and Stability Control making this the classic go-to meter for any basic lab.



Features

- Classic no-fuss menus and intuitive operation
- Large LCD displays with simultaneous pH/mV & temperature
- Understandable status icons and indicators like Stability Control
- Automatic temperature compensation
- Automatic buffer recognition- 2 sets of standard buffers or a standard value can be input manually
- Easy 1-2-3 point calibration
- Quick access to electrode calibration data
- At a glance know your sensor efficiency & calibration integrity are intact/expired with ElectCheck

Applications

- Academia Research
- Industrial Labs
- Environmental Labs
- Government Labs

Benefits

Get superior results that are not complex

German quality that saves you time, provides faster reliable results but still maintains its user friendly and classic functionality for your basic everyday pH requirements.

Simple is better

Easy 1-2-3-point calibration routine, large LCD display, intuitive menu navigation, easy to understand indicators make for seamless pH routines.

Improve your pH workflows

With features such as ElectCheck and Stability Control, you do not have to worry about the condition of your sensor, the integrity of your calibration or second guess when to take your reading. Know all of these at a simple glance.



ElectCheck is a sensor evaluation and calibration reminder.

The sensor evaluation shows the electrode quality in increments. The integrity criteria are slope, zero point and reaction time. When the time interval has elapsed, an optical and an acoustical signal is activated.

Specifications & Pricing

| Model | pH | mV | Description | US List Price (\$) |
|------------------|----|----|---|--------------------|
| pHBasic | ✓ | ✓ | pHBasic Meter, Power Supply, Arm, no Electrode | 690 |
| pHBasic-Kit | ✓ | ✓ | pHBasic pH Kit. Meter, Power Supply, 2 Buffers, Arm, Electrode: PY-P10-2S General purpose - pH/ATC, Plastic Body, Liquid 3M KCl refillable, ceramic junction, Bulb style | 885 |
| pHBasic-Bio-Kit | ✓ | ✓ | pHBasic Bio Kit. Meter, Power Supply, 2 Buffers, Arm, Electrode: PY-P11-2S High Performance - pH/ATC, Glass Body, Liquid 3M KCl refillable, air flush platinum junction, TRIS compatible, break resistant conical shaped tip, ideal for biological applications | 1,030 |
| pHBasic-Food-Kit | ✓ | ✓ | pHBasic Food Kit. Meter, Power Supply, 2 Buffers, Arm, Electrode: PY-P27-2S Spearhead, pH, Glass Body, hole junction, polymer reference electrolyte, Spear style | 1,085 |

Common Specifications

| | Range / ± Accuracy |
|-------------|--|
| pH | -2.0 ... 20.0 ±0.1 pH -2.00 ... 20.00 ±0.01 pH -2.000 ... 19.999 ±0.005 pH |
| mV | ± 1200.0 ±0.3 mV ± 2000 ±1 mV |
| Temperature | -5.0 ... +105.0 ± 0.1°C, manually adjustable to 130°C |

All models include BNC connector, power supply, 4 AA batteries. Kits include: 50 ml bottles of pH 4 and 7 buffers, 50 ml of 3M KCl filling and storage solution, arm and specified electrode.

pHBasic+ Meters

Experience Complete Functionality

Exceptional quality and reliable conductivity results are now within your reach. The PR-20 is a great benchtop meter for your everyday conductivity routines. Not only is it simple-to-use with classic interface design and intuitive icons, but it is faster due to optimized algorithms with harmonized measuring system of sensor with meter. The PR-20 is extremely reliable with real time indicators like ElectCheck, and Stability Control making this the classic go-to meter for any lab.



Features

- Full functionality with USB data transmission
- Recall and output of 500 data set memory
- Superior Accuracy with up to 5-point calibration
- Easy-to-use menus and intuitive operation sets
- Sensor efficiency & calibration integrity with ElectCheck
- Clear status icons and indicators like Stability Control
- Large LCD display
- Automatic temperature compensation
- Automatic buffer recognition (25 buffer sets)
- Programmable data collection

 **ElectCheck** is a sensor evaluation and calibration reminder. The sensor evaluation shows the electrode quality in increments. The integrity criteria are slope, zero point and reaction time. When the time interval has elapsed, an optical and an acoustical signal is activated.

Benefits

Reliable and fast communication interface

Transfer up to 500 data points using USB to computer interface with no adaptors needed.

Complete functionality at your fingertips

Fast and accurate results, easy operation, and capacity to have direct data recall and transfer. A complete pack for your entire pH requirements.

Make your pH routines more efficient

Large LCD display, intuitive menu navigation and easy to understand indicators make for a seamless pH routine. ElectCheck and Stability Control know the conditions of your sensor, the integrity of your calibration at a simple glance.

Superior accuracy

Up to 5-point calibration gives a broader range in slope accuracy.

Specifications & Pricing

| Model | Description | US List Price (\$) |
|-----------------|---|--------------------|
| pHBasic+ | pHBasic+ Kit. Meter, Power Supply, Arm | 835 |
| pHBasic+Kit | pHBasic+ pH Kit. Meter, Power Supply, Arm, 2 Buffers, Electrode: PY-P10-2S General purpose - pH/ATC, Plastic Body, Liquid 3M KCl refillable, ceramic junction, Bulb Style | 915 |
| pHBasic+P11-Kit | pHBasic+ pH Kit. Meter, Power Supply, Arm, 2 Buffers, Electrode: PY-P11-2S High Performance - pH/ATC, Glass Body, Liquid 3M KCl refillable, air flush platinum junction, TRIS compatible, break resistant conical shaped tip, ideal for biological applications | 1,065 |

Common Specifications

pH -2.0 ... 20.0 ±0.1 pH | -2.00 ... 20.00 ±0.01 pH | -2.000 ... 19.999 ±0.005 pH

mV ±(1200.0 ±0.3) mV | ±(2000 ±1) mV

Temperature -5.0 ... +105.0 ± 0.1°C , manually adjustable to 130°C

All models include BNC connector, power supply, 4 AA batteries. Kits include: 50 ml bottles of pH 4 and 7 buffers, 50 ml of 3M KCl filling and storage solution, arm and specified electrode

PR-20 Conductivity Meter

Professional Performance with Complete Compliance

Pro is the most advanced meter to excel at your professional pH, conductivity, ISE and DO analyses. Be reassured, measurements have never been so accurate with German technology, wider ranges, auto cal and 5-point calibrations. Feel confident with data transfer, data storage and ElectCheck features that meet all your GLP regulatory requirements. Pro offers multi-parameter analysis options and is the whole package: quality, multi-functionality, documentation, & convenience - a true professional at work for you.



Features

- Full functionality with USB data transmission
- Recall and output of 500 data set memory
- Easy-to-use menus and intuitive operation sets
- Sensor efficiency & calibration integrity with ElectCheck
- Clear status icons and indicators like Stability Control
- Large LCD display
- Automatic temperature compensation
- Programmable data collection

Benefits

Complete functionality at your fingertips

Fast and accurate results, easy operation, and capacity to have direct data recall and transfer.

Make your conductivity routines more efficient

Large LCD display, intuitive menu navigation and easy to understand indicators make for a seamless conductivity routine.

ElectCheck and Stability

Control know the conditions of your sensor, the integrity of your calibration, at a simple glance.

Specifications & Pricing

| Model | Description | US List Price (\$) |
|---------------|--|--------------------|
| PR-20A | Pro20 Conductivity. Meter Only with Power supply | 935 |
| PR-20-Con-Kit | Pro 20 Conductivity Kit. Meter, Power Supply, Arm, Conductivity Sensor: PY-C12 ATC-2S, Multi-range, Target Configuration 1-200,000 $\mu\text{S}/\text{cm}$ | 1,405 |

Specifications

| | |
|------------|---|
| Mode | Conductivity, Temperature |
| Range | 0 $\mu\text{S}/\text{cm}$...1000 mS/cm |
| Resolution | ± 1 digit |
| Accuracy | $\pm 0.50\%$ |

All models include power supply, 4 AA batteries. Kits include: 50 ml bottles of pH 4 and 7 buffers, 50 ml of 3M KCl filling and storage solution, arm wand specified electrode.

PlatinumLINE Electrodes

Fast and accurate results with high quality materials, low resistance A type glass membrane or unique platinum junctions with patented Ag/AgCl reference system.

| Model | Description | Body Type | | Fill Solution | | | US List Price (\$) |
|-----------|---|-----------|---------|---------------|-----|-----|--------------------|
| | | Glass | Plastic | Liquid | Gel | ATC | |
| PY-P10-2S | General purpose - pH/ATC, Liquid 3M KCl refillable, ceramic junction, Bulb style | - | ✓ | ✓ | - | ✓ | 230 |
| PY-P11-2S | High Performance - pH/ATC, Liquid 3M KCl refillable, air flush platinum junction, TRIS compatible, break resistant conical shaped tip, ideal for biological applications, easy to clean | ✓ | - | ✓ | - | ✓ | 340 |
| PY-P21-2S | High Performance - pH, Liquid 3M KCl refillable, air-flush platinum junction, TRIS compatible, break resistant conical shaped tip, ideal for biological applications, easy to clean | ✓ | - | ✓ | - | - | 196 |
| PY-P12-2S | Low Maintenance - pH/ATC, ceramic junction | - | ✓ | - | ✓ | ✓ | 198 |
| PY-P20-2S | Low Maintenance - pH, ceramic junction | - | ✓ | - | ✓ | - | 171 |
| PY-P22-2S | Micro - 5mm diameter - pH, Liquid 3M KCl refillable, air flush platinum junction, TRIS compatible ideal for low volume samples | ✓ | - | ✓ | - | - | 270 |
| PY-P23-2S | Flat-Surface - pH, Gel Filled, circular junction, ideal for meats, cheeses, agar, skin | ✓ | - | - | ✓ | - | 275 |
| PY-P24-2S | Sleeve - pH, Liquid 3M KCl refillable, Sleeve junction, ideal for low ionic samples | ✓ | - | ✓ | - | - | 355 |
| PY-P27-2S | Speartip - pH, hole junction, Poylmer Filled | - | ✓ | - | ✓ | - | 355 |
| PY-T01-2S | Temperature - ATC, 2.5mm, Stainless Steel Body | - | - | - | - | ✓ | 210 |
| PY-R01-2S | ORP Combination for REDOX oxidation/reduction potentials | ✓ | - | ✓ | - | - | 310 |

Notes: pH is BNC connection ATC is 2.5 mm connection Cable length is 1.5 meters

Conductivity Cells

Compatible with PR-20 and PR-50 Meters only.

| Model | Description | Conductivity Range | pH | ATC | US List Price (\$) |
|-----------|--|--|----|-----|--------------------|
| PY-CL1-2S | 1.0 cm-1 Conductivity Cell - 2 band | 10 to 20,000 $\mu\text{S}/\text{cm}$ | - | ✓ | 191 |
| PY-C01-2S | 0.5 cm-1 Conductivity Cell - 4 band | 0.5 to 2,000 $\mu\text{S}/\text{cm}$ | - | ✓ | 495 |
| PY-C02-2S | 1.0 cm-1 Conductivity Cell - 4 band | 10 to 5,000 $\mu\text{S}/\text{cm}$ | - | ✓ | 495 |
| PY-C03-2S | 10 cm-1 Conductivity Cell - 4 band | 1,000 to 200,000 $\mu\text{S}/\text{cm}$ | - | ✓ | 495 |
| PY-C12-2S | Multi Range, Target Configuration Conductivity/ATC | 1 $\mu\text{S}/\text{cm}$ to 2 S/cm | - | ✓ | 555 |
| PY-C21-2S | 0.1 cm-1 Conductivity Cell Flow-through | 0.001 - 200 $\mu\text{S}/\text{cm}$ | - | ✓ | 680 |
| PY-C22-2S | 0.01 cm-1 Conductivity Stainless Steel Cell Flow-through | 0.0001 - 30 $\mu\text{S}/\text{cm}$ | - | ✓ | 1,135 |

Note: Conductivity cells have 8-pin female connectors. Older meters (which are no longer available) have an 8-DIN male connector

Accessories

| Model | Description | US List Price (\$) |
|------------|---|--------------------|
| PY-B250-2S | 250 mL Buffer Bottle Set 4,7,10 | 84 |
| PY-B1L-2S | 1000 mL Buffer Bottle Set 4,7,10 | 125 |
| YCC-PR0-2S | 1.5M RS-232 Cable or PR-15 and PR-50 meters | 75 |
| PY-A02-2S | Basic Meter Arm | 105 |
| PY-E50-2S | Electrode Refilling and storage solution 3M KCL 50ml bottle | 62 |
| YCC04-D09 | Data cable mini B USB USB A | 57 |



Buffer Bottle Sets



Picus® NxT Electronic Pipettes

For Highly Regulated Laboratories

Picus® NxT offers distinct advantages for compliance in strictly regulated laboratories with its added certification, safety features and technology. Its superior design, adopted from the proven Picus®, provides maximum operating convenience, considerably easing your workload.



Features

Conform to Lab Regulations

- Certificate of accredited 3-point calibration
- (ISO 17025 and ISO 8655) conforms to the strictest regulations
- Maintenance and calibration reminders alert you when service is required
- Advanced password protection for settings and pipetting protocol memory
- Pipette locking increases lab safety by disabling the pipette from use



Benefits

Enjoy Pipetting

- Uniquely lightweight (only 100 grams!) and streamlined design for effortless pipetting experience
- Conveniently located soft-touch operating button and electronic tip ejection help minimize muscle strain
- The comfortable design of the handle and the finger hook enable Picus® NxT to rest lightly in your hand, with minimum effort

Achieve Reliable Results

- Unique plate tracker increases reliability in microwell plate dispensing
- Electronic piston control and brake guarantee accurate and precise pipetting results, independent of the user
- Repeated blow-out function helps dispense the very last liquid droplets, ensuring complete recovery
- Safe-Cone Filters prevent the risk of contamination, cost-effectively

Speed Up Your Work

- The unique adjustment wheel offers extremely fast volume setting and menu navigation
- The extensive range of pipetting modes, from diluting and titrating to serial dispensing, helps to perform the pipetting tasks quickly and easily

P = Pipetting Mode D = Multi-dispensing mode.
The listed systematic and random error values are of 10 measurements at 10% of the nominal volume.

Picus® NxT- Specifications & Pricing

| Model | Channel | Volume Range (µl) | Increment (µl) | Test Volume (µl) | Test Mode | System. Error (%) | | System. Error (µl) | | Random Error (%) | | Random Error (µl) | | Safe-Cone Filters | | Optifit Tips (µl) | SafetySpace Filter Tips (µl) | US List Price (\$) |
|-----------|---------|-------------------|----------------|------------------|-----------|-------------------|-----------|--------------------|-----------|------------------|----------|-------------------|------|-------------------|--|-------------------|------------------------------|--------------------|
| | | | | | | Mode | Error (%) | Error (µl) | Error (%) | Error (µl) | Standard | Plus | | | | | | |
| LH-745021 | 1 | 0.2-10 | 0.01 | 10 | P | 1.0 | 0.100 | 0.4 | 0.040 | - | - | 10 | 10 | 1,020 | | | | |
| | | | | 5 | P | 1.2 | 0.060 | 0.7 | 0.035 | | | | | | | | | |
| | | | | 1 | P | 3.0 | 0.030 | 2.0 | 0.020 | | | | | | | | | |
| | | | | 0.2 | P | 17.5 | 0.035 | 10 | 0.020 | | | | | | | | | |
| | | | | 1 | D | 6.0 | 0.060 | 7.0 | 0.070 | | | | | | | | | |
| LH-745041 | 1 | 5-120 | 0.10 | 120 | P | 0.5 | 0.60 | 0.15 | 0.18 | 721008 | 721018 | 200 | 120 | 1,020 | | | | |
| | | | | 60 | P | 0.7 | 0.42 | 0.2 | 0.12 | | 350 | 200 | | | | | | |
| | | | | 12 | P | 2.0 | 0.24 | 1.0 | 0.12 | | | | | | | | | |
| | | | | 5 | P | 5.5 | 0.275 | 2.5 | 0.125 | | | | | | | | | |
| | | | | 12 | D | 4.0 | 0.48 | 4.0 | 0.48 | | | | | | | | | |
| LH-745061 | 1 | 10-300 | 0.20 | 300 | P | 0.5 | 1.50 | 0.15 | 0.45 | 721007 | 721017 | 350 | 300 | 1,020 | | | | |
| | | | | 150 | P | 0.6 | 0.90 | 0.2 | 0.30 | | | | | | | | | |
| | | | | 30 | P | 1.5 | 0.45 | 0.8 | 0.24 | | | | | | | | | |
| | | | | 10 | P | 5.0 | 0.50 | 2.4 | 0.24 | | | | | | | | | |
| | | | | 30 | D | 3.0 | 0.90 | 3.0 | 0.90 | | | | | | | | | |
| LH-745081 | 1 | 50-1000 | 1.00 | 1000 | P | 0.45 | 4.5 | 0.15 | 1.5 | 721006 | 721016 | 1000 | 1000 | 1,020 | | | | |
| | | | | 500 | P | 0.6 | 3.0 | 0.2 | 1.0 | | | | | | | | | |
| | | | | 100 | P | 2.0 | 2.0 | 0.5 | 0.5 | | | | | | | | | |
| | | | | 50 | P | 4.0 | 2.0 | 1.0 | 0.5 | | | | | | | | | |
| | | | | 100 | D | 2.5 | 2.5 | 2.0 | 2.0 | | | | | | | | | |
| LH-745101 | 1 | 100-5000 | 5.00 | 5000 | P | 0.5 | 25 | 0.15 | 7.5 | 721005 | 721015 | 5000 | - | 1,020 | | | | |
| | | | | 2500 | P | 1.7 | 17.5 | 0.2 | 5 | | | | | | | | | |
| | | | | 500 | P | 1.6 | 8 | 0.4 | 2 | | | | | | | | | |
| | | | | 100 | P | 8.0 | 8 | 2.0 | 2 | | | | | | | | | |
| | | | | 500 | D | 2.4 | 12 | 2.4 | 12 | | | | | | | | | |
| LH-745111 | 1 | 500-10000 | 10.00 | 10000 | P | 0.6 | 60 | 0.2 | 20 | 721005 | 721015 | 10000 | - | 1,020 | | | | |
| | | | | 5000 | P | 0.9 | 45 | 0.3 | 15 | | | | | | | | | |
| | | | | 1000 | P | 3.0 | 30 | 0.6 | 6 | | | | | | | | | |
| | | | | 500 | P | 7.0 | 35 | 1.2 | 6 | | | | | | | | | |
| | | | | 1000 | D | 4.0 | 40 | 2.4 | 24 | | | | | | | | | |
| LH-745321 | 8 | 0.2-10 | 0.01 | 10 | P | 1.2 | 0.120 | 0.5 | 0.050 | - | - | 10 | 10 | 1,695 | | | | |
| | | | | 5 | P | 1.5 | 0.075 | 0.8 | 0.040 | | | | | | | | | |
| | | | | 1 | P | 4.0 | 0.040 | 3.0 | 0.030 | | | | | | | | | |
| | | | | 0.2 | P | 25.0 | 0.050 | 15.0 | 0.030 | | | | | | | | | |
| | | | | 1 | D | 12.0 | 0.120 | 15.0 | 0.150 | | | | | | | | | |
| LH-745341 | 8 | 5-120 | 0.10 | 120 | P | 0.6 | 0.72 | 0.3 | 0.36 | 721008 | 721018 | 200 | 120 | 1,695 | | | | |
| | | | | 60 | P | 0.8 | 0.48 | 0.4 | 0.24 | | 350 | | | | | | | |
| | | | | 12 | P | 2.5 | 0.30 | 1.67 | 0.20 | | | | | | | | | |
| | | | | 5 | P | 6.0 | 0.30 | 4.0 | 0.20 | | | | | | | | | |
| | | | | 12 | D | 4.5 | 0.54 | 8.0 | 0.96 | | | | | | | | | |
| LH-745361 | 8 | 10-300 | 0.20 | 300 | P | 0.6 | 1.80 | 0.2 | 0.60 | 721007 | 721017 | 350 | 300 | 1,695 | | | | |
| | | | | 150 | P | 0.8 | 1.20 | 0.3 | 0.45 | | | | | | | | | |
| | | | | 30 | P | 2.33 | 0.70 | 1.0 | 0.30 | | | | | | | | | |
| | | | | 10 | P | 8.0 | 0.80 | 3.0 | 0.30 | | | | | | | | | |
| | | | | 30 | D | 3.33 | 1.00 | 6.0 | 1.80 | | | | | | | | | |
| LH-745391 | 8 | 50-1200 | 1.00 | 1200 | P | 0.6 | 7.2 | 0.2 | 2.4 | 721006 | 721016 | 1200 | 1200 | 1,695 | | | | |
| | | | | 600 | P | 1.0 | 6.0 | 0.3 | 1.8 | | | | | | | | | |
| | | | | 120 | P | 2.5 | 3.0 | 1.0 | 1.2 | | | | | | | | | |
| | | | | 50 | P | 8.0 | 4.0 | 2.4 | 1.2 | | | | | | | | | |
| | | | | | D | 3.33 | 4.0 | 3.33 | 4.0 | | | | | | | | | |
| LH-745421 | 12 | 0.2-10 | 0.01 | 120 | P | 1.2 | 0.120 | 0.5 | 0.05 | - | - | 10 | 10 | 2,090 | | | | |
| | | | | 5 | P | 1.5 | 0.075 | 0.8 | 0.04 | | | | | | | | | |
| | | | | 1 | P | 4.0 | 0.040 | 3.0 | 0.03 | | | | | | | | | |
| | | | | 0.2 | P | 25.0 | 0.050 | 15.0 | 0.03 | | | | | | | | | |
| | | | | 1 | D | 12.0 | 0.120 | 15.0 | 0.15 | | | | | | | | | |
| LH-745441 | 12 | 5-120 | 0.10 | 120 | P | 0.6 | 0.72 | 0.3 | 0.36 | 721008 | 721018 | 200 | 120 | 2,090 | | | | |
| | | | | 60 | P | 0.8 | 0.48 | 0.4 | 0.24 | | 350 | | | | | | | |
| | | | | 12 | P | 2.5 | 0.30 | 1.67 | 0.20 | | | | | | | | | |
| | | | | 5 | P | 6.0 | 0.30 | 4.0 | 0.20 | | | | | | | | | |
| | | | | 12 | D | 4.5 | 0.54 | 8.0 | 0.96 | | | | | | | | | |
| LH-745461 | 12 | 10-300 | 0.20 | 300 | P | 0.6 | 1.80 | 0.2 | 0.60 | 721007 | 721017 | 350 | 300 | 2,090 | | | | |
| | | | | 150 | P | 0.8 | 1.20 | 0.3 | 0.45 | | | | | | | | | |
| | | | | 30 | P | 2.33 | 0.70 | 1.0 | 0.30 | | | | | | | | | |
| | | | | 10 | P | 8.0 | 0.80 | 3.0 | 0.30 | | | | | | | | | |
| | | | | 30 | D | 3.33 | 1.00 | 6.0 | 1.80 | | | | | | | | | |
| LH-745491 | 12 | 50-1200 | 1.00 | 1200 | P | 0.6 | 7.2 | 0.2 | 2.4 | 721006 | 721016 | 1200 | 1200 | 2,090 | | | | |
| | | | | 600 | P | 1.0 | 6.0 | 0.3 | 1.8 | | | | | | | | | |
| | | | | 120 | P | 2.5 | 3.0 | 1.0 | 1.2 | | | | | | | | | |
| | | | | 50 | P | 8.0 | 4.0 | 2.4 | 1.2 | | | | | | | | | |
| | | | | 120 | D | 3.33 | 4.0 | 3.33 | 4.0 | | | | | | | | | |

Picus® Electronic Pipettes

The Most Sophisticated and Ergonomic Pipette Ever!

Picus® is Sartorius' most ergonomic pipette in the Biohit*family*. Designed to revolutionize pipetting, it is the smallest and lightest electronic pipette on the market. This enables it to ease the user's workload and provides protection from repetitive strain injury (RSI). Its new generation technology, electronic brake and piston control system guarantee accurate and precise pipetting results.

Features

Excellent Ergonomics

- Extremely small and light electronic pipette (only 100 g)
- Comfortable handle design and finger hook
- Light, electronic tip ejection

New Generation Technology

- Enhanced DC-motor concept provides outstanding accuracy and repeatability of the results

Intuitive User-Interface

- Available with five language options: English, Chinese, French, German and Russian

Handy Adjustment Wheel

- Offers extremely fast volume setting and easy menu navigation
- Enables ergonomic one-handed operation
- Controls accurately manual pipetting and titrating speed with just a light touch of the thumb

Microwell Plate Tracker

- Unique built-in tracker for 96 and 384 well plates guides the user to pipette into the correct wells
- Improves work efficiency and reliability of results

Optiload for Perfect Tip Sealing

- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone
- Optiload is available only in multichannel models

Safe-Cone Filters

- Prevent contamination
- In all models > 10 µl

Autoclavable Lower Parts (excl. 1200 µl models)

- For easy cleaning

All pipettes include universal AC-adaptor (EU, UK, US | JPN, AUS and CHN plugs)
NOTE: For additional product specifications (including Pipetting & Multi-Dispensing modes) contact your sales rep. for a datasheet. The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655. Pipettes are tested at factory default speed settings. Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without notice.



Benefits

Enjoy Pipetting

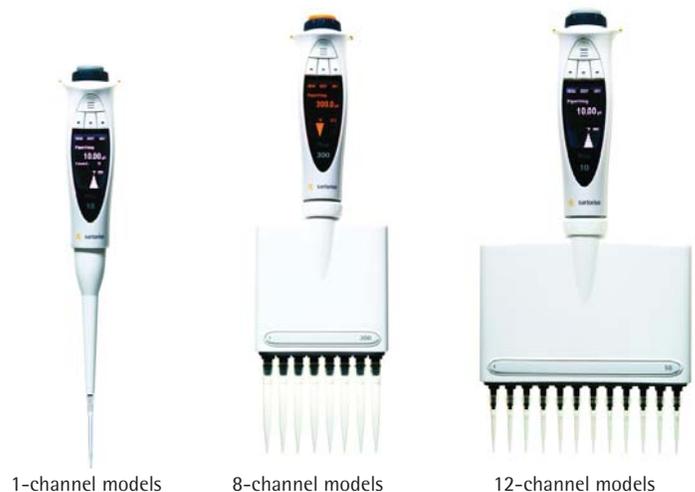
- Our lightest and smallest electronic pipette protects you from RSI (repetitive strain injury) and eases your workload in long pipetting series
- New ergonomic design ensures an optimal working posture and comfortable pipetting
- Effortless, electronic tip ejection

Achieve Reliable Results

- New generation technology – the electronic brake and piston control system guarantee accurate and precise pipetting results
- A unique plate tracker increases reliability in microwell plate work, by guiding pipetting steps
- Fully electronic operation guarantees user-independent results

Learn to Use It in a Minute

- Intuitive user interface with five language options helps learning the main functions easily without a manual
- Fastest volume setting and easy menu navigation with unique adjustment wheel
- Hot key provides fast access to your favorite programs, easing routine work



1-channel models

8-channel models

12-channel models

Picus® – Specifications & Pricing

| Model | Channel | Volume Range (µl) | Increment (µl) | Test Volume (µl) | Test Mode | System. Error (%) | | System. Error (µl) | | Random Error (%) | | Random Error (µl) | | Safe-Cone Filters | | Optifit Tips (µl) | SafetySpace Filter Tips (µl) | US List Price (\$) |
|--------|---------|-------------------|----------------|------------------|-----------|-------------------|--------------------|--------------------|-------------------|------------------|--------|-------------------|------|-------------------|--|-------------------|------------------------------|--------------------|
| | | | | | | System. Error (%) | System. Error (µl) | Random Error (%) | Random Error (µl) | Standard | Plus | | | | | | | |
| 735021 | 1 | 0.2-10 | 0.01 | 10 | P | 1.0 | 0.100 | 0.4 | 0.040 | - | - | 10 | 10 | 895 | | | | |
| | | | | 5 | P | 1.2 | 0.060 | 0.7 | 0.035 | | | | | | | | | |
| | | | | 1 | P | 3.0 | 0.030 | 2.0 | 0.020 | | | | | | | | | |
| | | | | 0.2 | P | 17.5 | 0.035 | 10 | 0.020 | | | | | | | | | |
| | | | | 1 | D | 6.0 | 0.060 | 7.0 | 0.070 | | | | | | | | | |
| 735041 | 1 | 5-120 | 0.10 | 120 | P | 0.5 | 0.60 | 0.15 | 0.18 | 721008 | 721018 | 200 | 120 | 895 | | | | |
| | | | | 60 | P | 0.7 | 0.42 | 0.2 | 0.12 | 350 | 200 | | | | | | | |
| | | | | 12 | P | 2.0 | 0.24 | 1.0 | 0.12 | | | | | | | | | |
| | | | | 5 | P | 5.5 | 0.275 | 2.5 | 0.125 | | | | | | | | | |
| | | | | 12 | D | 4.0 | 0.48 | 4.0 | 0.48 | | | | | | | | | |
| 735061 | 1 | 10-300 | 0.20 | 300 | P | 0.5 | 1.50 | 0.15 | 0.45 | 721007 | 721017 | 350 | 300 | 895 | | | | |
| | | | | 150 | P | 0.6 | 0.90 | 0.2 | 0.30 | | | | | | | | | |
| | | | | 30 | P | 1.5 | 0.45 | 0.8 | 0.24 | | | | | | | | | |
| | | | | 10 | P | 5.0 | 0.50 | 2.4 | 0.24 | | | | | | | | | |
| | | | | 30 | D | 3.0 | 0.90 | 3.0 | 0.90 | | | | | | | | | |
| 735081 | 1 | 50-1000 | 1.00 | 1000 | P | 0.45 | 4.5 | 0.15 | 1.5 | 721006 | 721016 | 1000 | 1000 | 895 | | | | |
| | | | | 500 | P | 0.6 | 3.0 | 0.2 | 1.0 | | | | | | | | | |
| | | | | 100 | P | 2.0 | 2.0 | 0.5 | 0.5 | | | | | | | | | |
| | | | | 50 | P | 4.0 | 2.0 | 1.0 | 0.5 | | | | | | | | | |
| | | | | 100 | D | 2.5 | 2.5 | 2.0 | 2.0 | | | | | | | | | |
| 735101 | 1 | 100-5000 | 5.00 | 5000 | P | 0.5 | 25 | 0.15 | 7.5 | 721005 | 721015 | 5000 | - | 895 | | | | |
| | | | | 2500 | P | 1.7 | 17.5 | 0.2 | 5 | | | | | | | | | |
| | | | | 500 | P | 1.6 | 8 | 0.4 | 2 | | | | | | | | | |
| | | | | 100 | P | 8.0 | 8 | 2.0 | 2 | | | | | | | | | |
| | | | | 500 | D | 2.4 | 12 | 2.4 | 12 | | | | | | | | | |
| 735111 | 1 | 500-10000 | 10.00 | 10000 | P | 0.6 | 60 | 0.2 | 20 | 721005 | 721015 | 10000 | - | 895 | | | | |
| | | | | 5000 | P | 0.9 | 45 | 0.3 | 15 | | | | | | | | | |
| | | | | 1000 | P | 3.0 | 30 | 0.6 | 6 | | | | | | | | | |
| | | | | 500 | P | 7.0 | 35 | 1.2 | 6 | | | | | | | | | |
| | | | | 1000 | D | 4.0 | 40 | 2.4 | 24 | | | | | | | | | |
| 735321 | 8 | 0.2-10 | 0.01 | 10 | P | 1.2 | 0.120 | 0.5 | 0.050 | - | - | 10 | 10 | 1,480 | | | | |
| | | | | 5 | P | 1.5 | 0.075 | 0.8 | 0.040 | | | | | | | | | |
| | | | | 1 | P | 4.0 | 0.040 | 3.0 | 0.030 | | | | | | | | | |
| | | | | 0.2 | P | 25.0 | 0.050 | 15.0 | 0.030 | | | | | | | | | |
| | | | | 1 | D | 12.0 | 0.120 | 15.0 | 0.150 | | | | | | | | | |
| 735341 | 8 | 5-120 | 0.10 | 120 | P | 0.6 | 0.72 | 0.3 | 0.36 | 721008 | 721018 | 200 | 120 | 1,480 | | | | |
| | | | | 60 | P | 0.8 | 0.48 | 0.4 | 0.24 | 350 | | | | | | | | |
| | | | | 12 | P | 2.5 | 0.30 | 1.67 | 0.20 | | | | | | | | | |
| | | | | 5 | P | 6.0 | 0.30 | 4.0 | 0.20 | | | | | | | | | |
| | | | | 12 | D | 4.5 | 0.54 | 8.0 | 0.96 | | | | | | | | | |
| 735361 | 8 | 10-300 | 0.20 | 300 | P | 0.6 | 1.80 | 0.2 | 0.60 | 721007 | 721017 | 350 | 300 | 1,480 | | | | |
| | | | | 150 | P | 0.8 | 1.20 | 0.3 | 0.45 | | | | | | | | | |
| | | | | 30 | P | 2.33 | 0.70 | 1.0 | 0.30 | | | | | | | | | |
| | | | | 10 | P | 8.0 | 0.80 | 3.0 | 0.30 | | | | | | | | | |
| | | | | 30 | D | 3.33 | 1.00 | 6.0 | 1.80 | | | | | | | | | |
| 735391 | 8 | 50-1200 | 1.00 | 1200 | P | 0.6 | 7.2 | 0.2 | 2.4 | 721006 | 721016 | 1200 | 1200 | 1,480 | | | | |
| | | | | 600 | P | 1.0 | 6.0 | 0.3 | 1.8 | | | | | | | | | |
| | | | | 120 | P | 2.5 | 3.0 | 1.0 | 1.2 | | | | | | | | | |
| | | | | 50 | P | 8.0 | 4.0 | 2.4 | 1.2 | | | | | | | | | |
| | | | | | D | 3.33 | 4.0 | 3.33 | 4.0 | | | | | | | | | |
| 735421 | 12 | 0.2-10 | 0.01 | 120 | P | 1.2 | 0.120 | 0.5 | 0.05 | - | - | 10 | 10 | 1,875 | | | | |
| | | | | 5 | P | 1.5 | 0.075 | 0.8 | 0.04 | | | | | | | | | |
| | | | | 1 | P | 4.0 | 0.040 | 3.0 | 0.03 | | | | | | | | | |
| | | | | 0.2 | P | 25.0 | 0.050 | 15.0 | 0.03 | | | | | | | | | |
| | | | | 1 | D | 12.0 | 0.120 | 15.0 | 0.15 | | | | | | | | | |
| 735441 | 12 | 5-120 | 0.10 | 120 | P | 0.6 | 0.72 | 0.3 | 0.36 | 721008 | 721018 | 200 | 120 | 1,875 | | | | |
| | | | | 60 | P | 0.8 | 0.48 | 0.4 | 0.24 | 350 | | | | | | | | |
| | | | | 12 | P | 2.5 | 0.30 | 1.67 | 0.20 | | | | | | | | | |
| | | | | 5 | P | 6.0 | 0.30 | 4.0 | 0.20 | | | | | | | | | |
| | | | | 12 | D | 4.5 | 0.54 | 8.0 | 0.96 | | | | | | | | | |
| 735461 | 12 | 10-300 | 0.20 | 300 | P | 0.6 | 1.80 | 0.2 | 0.60 | 721007 | 721017 | 350 | 300 | 1,875 | | | | |
| | | | | 150 | P | 0.8 | 1.20 | 0.3 | 0.45 | | | | | | | | | |
| | | | | 30 | P | 2.33 | 0.70 | 1.0 | 0.30 | | | | | | | | | |
| | | | | 10 | P | 8.0 | 0.80 | 3.0 | 0.30 | | | | | | | | | |
| | | | | 30 | D | 3.33 | 1.00 | 6.0 | 1.80 | | | | | | | | | |
| 735491 | 12 | 50-1200 | 1.00 | 1200 | P | 0.6 | 7.2 | 0.2 | 2.4 | 721006 | 721016 | 1200 | 1200 | 1,875 | | | | |
| | | | | 600 | P | 1.0 | 6.0 | 0.3 | 1.8 | | | | | | | | | |
| | | | | 120 | P | 2.5 | 3.0 | 1.0 | 1.2 | | | | | | | | | |
| | | | | 50 | P | 8.0 | 4.0 | 2.4 | 1.2 | | | | | | | | | |
| | | | | 120 | D | 3.33 | 4.0 | 3.33 | 4.0 | | | | | | | | | |

Tacta Mechanical Pipettes

The New Perfectly Balanced Mechanical Pipette

Tacta is the new premium mechanical pipette with superb comfort and reliability. We listened to our customers and combined their views with our extensive experience and state-of-the-art R&D to create the exceptionally balanced design. It feels great in your hand and is easy and comfortable to use. All of the materials used for Tacta have been carefully selected and each component is designed to meet the highest standards. Tacta makes pipetting effortless and safe, while producing accurate and reliable results time after time.

Features

- Single-channel models cover a volume range of 0.1 µl- 10,000 µl and multichannel models a range of 0.5 µl – 10,000 µl
- Fully autoclavable
- Optilock, dual locking system
- Optiject, levered tip ejection system
- Optiload, spring-loaded tip cones
- Weight: 76 g (1-ch, 1000 µl). 138 g (8-ch, 300 µl)
- Length: L215mm (1-ch, 1000 µl). 240mm (8-ch, 300 µl)
- Air displacement pipetting principle



Benefits

Feel the Comfort

- Comfortable to hold due to the ergonomically designed handle
- Low pipetting and tip ejection forces that reduce the risk of Work Related Upper Limb Disorder (WRULD)
- Controlled and smooth tip ejection with the new Sartorius Optiject technology
- The unique Sartorius Optilock system provides flexibility for volume adjustment and locking

Achieve Reliable Results

- Reliable results, even over lengthy pipetting periods
- Calibration adjustment to provide accurate results for various liquid types
- Large, easy-to-read four-digit volume display helps to set exact volumes

Prevent Contamination

- Safe-Cone Filters are a cost effective method to prevent sample aerosols and fluids from contaminating the internal components of the pipette
- Safe-Cone Filters are used in pipette tip cones in all models >10ul
- The unique Safe-Cone Filter ejector enables the removal of used filters without human contact with contaminated filters

Easy Cleaning

- Tacta® is the quickest and easiest pipette on the market to clean, with only three parts to be disassembled for cleaning and no tools are needed for disassembly
- Tacta® can also be steam-sterilized or autoclaved as-is, without disassembly
- High UV and chemical resistance



Tacta – Specifications & Pricing

| Model | Channel | Volume Range (µl) | Increment (µl) | Test Volume (µl) | System. | | Random | | Safe-Cone Filters | | Optifit Tips (µl) | SafetySpace Filter Tips (µl) | US List Price (\$) | |
|-----------|---------|-------------------|----------------|------------------|-----------|------------|-----------|------------|-------------------|--------|-------------------|------------------------------|--------------------|-------|
| | | | | | Error (%) | Error (µl) | Error (%) | Error (µl) | Standard | Plus | | | | |
| LH-729010 | 1 | ● | 0.1-3 | 0.002 | 3 | 1.40 | 0.042 | 0.80 | 0.024 | - | - | 10 | 10 | 415 |
| | | | | | 1.5 | 2.60 | 0.039 | 1.60 | 0.024 | | | | | |
| | | | | | 0.3 | 10.00 | 0.030 | 6.00 | 0.018 | | | | | |
| LH-729020 | 1 | ● | 0.5-10 | 0.01 | 10 | 1.00 | 0.100 | 0.60 | 0.060 | - | - | 10 | 10 | 415 |
| | | | | | 5 | 1.50 | 0.075 | 1.00 | 0.050 | | | | | |
| | | | | | 1 | 3.00 | 0.030 | 2.00 | 0.020 | | | | | |
| LH-729030 | 1 | ● | 2-20 | 0.02 | 20 | 1.00 | 0.200 | 0.50 | 0.100 | 721014 | - | 200 | 20 | 415 |
| | | | | | 10 | 1.40 | 0.140 | 0.90 | 0.090 | | | | | |
| | | | | | 2 | 4.00 | 0.080 | 3.00 | 0.060 | | | | | |
| LH-729050 | 1 | ● | 10-100 | 0.10 | 100 | 0.80 | 0.80 | 0.20 | 0.20 | 721008 | 721018 | 200 | 120 | 415 |
| | | | | | 50 | 1.00 | 0.50 | 0.40 | 0.20 | | | 350 | | |
| | | | | | 10 | 3.00 | 0.30 | 1.00 | 0.10 | | | | | |
| LH-729060 | 1 | ● | 20-200 | 0.20 | 200 | 0.60 | 1.20 | 0.20 | 0.40 | 721007 | 721017 | 200 | 200 | 415 |
| | | | | | 100 | 0.80 | 0.80 | 0.30 | 0.30 | | | 350 | 300 | |
| | | | | | 20 | 2.30 | 0.46 | 0.90 | 0.18 | | | | | |
| LH-729070 | 1 | ● | 100-1000 | 1.00 | 1,000 | 0.70 | 7.0 | 0.20 | 2.0 | 721006 | 721016 | 1000 | 1000 | 415 |
| | | | | | 500 | 0.80 | 4.0 | 0.20 | 1.0 | | | | | |
| | | | | | 100 | 2.50 | 2.5 | 0.60 | 0.6 | | | | | |
| LH-729080 | 1 | ● | 500-5000 | 10.0 | 5,000 | 0.60 | 30 | 0.20 | 10 | 721005 | 721015 | 5000 | - | 415 |
| | | | | | 2,500 | 0.70 | 17.5 | 0.30 | 7.5 | | | | | |
| | | | | | 500 | 2.40 | 12 | 0.60 | 3 | | | | | |
| LH-729090 | 1 | ● | 1-10 ml | 20.0 | 10,000 | 0.60 | 60 | 0.20 | 20 | 721005 | 721015 | 10 000 | - | 415 |
| | | | | | 5,000 | 1.20 | 60 | 0.30 | 15 | | | | | |
| | | | | | 1,000 | 3.00 | 30 | 0.60 | 6 | | | | | |
| LH-729120 | 8 | ● | 0.5-10 | 0.01 | 10 | 1.50 | 0.150 | 1.00 | 0.100 | - | - | 10 | 10 | 1,050 |
| | | | | | 5 | 2.50 | 0.125 | 2.00 | 0.100 | | | | | |
| | | | | | 1 | 5.50 | 0.055 | 4.00 | 0.040 | | | | | |
| LH-729130 | 8 | ● | 5-100 | 0.10 | 100 | 0.90 | 0.90 | 0.40 | 0.40 | 721008 | 721008 | 200 | 120 | 1,050 |
| | | | | | 50 | 1.20 | 0.60 | 0.70 | 0.35 | | | 350 | | |
| | | | | | 10 | 4.00 | 0.40 | 2.00 | 0.20 | | | | | |
| LH-729140 | 8 | ● | 30-300 | 0.20 | 300 | 0.60 | 1.80 | 0.25 | 0.475 | 721007 | 721017 | 350 | 300 | 1,050 |
| | | | | | 150 | 1.00 | 1.50 | 0.50 | 0.75 | | | | | |
| | | | | | 30 | 2.50 | 0.75 | 1.00 | 0.30 | | | | | |
| LH-729220 | 12 | ● | 0.5-10 | 0.01 | 10 | 1.50 | 0.150 | 1.00 | 0.100 | - | - | 10 | 10 | 1,240 |
| | | | | | 5 | 2.50 | 0.125 | 2.00 | 0.100 | | | | | |
| | | | | | 1 | 5.50 | 0.055 | 4.00 | 0.040 | | | | | |
| LH-729230 | 12 | ● | 5-100 | 0.10 | 100 | 0.90 | 0.90 | 0.40 | 0.40 | 721008 | 721018 | 200 | 120 | 1,240 |
| | | | | | 50 | 1.20 | 0.60 | 0.70 | 0.35 | | | 350 | | |
| | | | | | 10 | 4.00 | 0.40 | 2.00 | 0.20 | | | | | |
| LH-729240 | 12 | ● | 30-300 | 0.20 | 300 | 0.60 | 1.80 | 0.25 | 0.75 | 721007 | 721017 | 350 | 300 | 1,240 |
| | | | | | 150 | 1.00 | 1.50 | 0.50 | 0.75 | | | | | |
| | | | | | 30 | 2.50 | 0.75 | 1.00 | 0.30 | | | | | |

The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655. Pipettes are tested at factory default speed settings. Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without notice.

Accessories

| Item | Description | US List Price (\$) |
|--|---|--------------------|
| LH-725630 | Carousel Stand for 6 pipettes | 133 |
| LH-727640 | Pipette Holder for one pipette | 10 |
| 725620 | Linear Stand | 133 |
| Pre-Delivery Calibration Certificates | | |
| 84JOP01 | Single Channel 5.3 Calibration Mechanical Pipette | 65 |
| 84JOP02 | (8) Channel 5.3 Calibration Mechanical Pipette | 101 |
| 84JOP10 | (12) Channel 5.3 Calibration Mechanical Pipette | 126 |
| Extended Warranty | | |
| 84WAP01 | 12 months Mechanical Single Channel Pipette | 118 |
| 84WAP02 | 12 months Mechanical (8) Channel Pipette | 215 |
| 84WAP10 | 12 months Mechanical (12) Channel Pipette | 245 |



Linear Stand

Tacta Pipette Multipacks

Tacta® Multipacks offer complete sets of pipettes and accessories with eight options that include:

- Mechanical Tacta® pipettes
- Linear Stand
- Matching Optifit Tips
- Pipette Holders



Specifications & Pricing

| Item | Description | US List Price (\$) |
|-----------|--|--------------------|
| LH-729670 | Tacta® Pipette 3-pack 10 – Tacta® pipettes 0.5-10 µl, 10-100 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.2-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x3 | 820 |
| LH-729671 | Tacta® Pipette 3-pack 20 – Tacta® pipettes 2-20 µl, 20-200 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x3 | 820 |
| LH-729672 | Tacta® Pipette 4-pack 20 – Tacta® pipettes 0.5-10 µl, 2-20 µl, 20-200 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x4 | 1,035 |
| LH-729673 | Tacta® Pipette 4-pack 100 – Tacta® pipettes 0.5-10 µl, 10-100 µl, 20-200 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x4 | 1,035 |
| LH-729674 | Tacta® Pipette 5-pack 10 – Tacta® pipettes 0.5-10 µl, 10-100 µl, 20-200 µl, 100-1000 µl, 500-5000 µl (1 channel) – Sartorius Optifit Tip Rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl, Tip Rack (50 tips) 5000 µl – Linear Stand & Pipette Holder x5 | 1,210 |
| LH-729675 | Tacta® Pipette 5-pack 20 – Tacta® pipettes 2-20 µl, 10-100 µl, 20-200 µl, 100-1000 µl, 500-5000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.5-200 µl, 10-1000 µl, Tip Rack (50 tips) 5000 µl – Linear Stand & Pipette Holder x5 | 1,210 |
| LH-729676 | Tacta® Pipette 3 + 1 pack – Tacta® pipettes 0.5-10 µl, 20-200 µl, 100-1000 µl (1 channel), 30-300 µl (8 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 5-350 µl, 10-1000 µl – Linear Stand & Pipette Holder x4 | 1,405 |
| LH-729677 | Tacta® Pipette 3-pack max – Tacta® pipettes 100-1000 µl, 500-5000 µl, 1-10 ml – Sartorius Optifit Tip rack - 10-1000 µl (96 tips), 0.1-5 ml (50 tips), 1-10 ml (35 tips) – Linear Stand & Pipette Holder x3 | 820 |

mLINE® Pipette Multipacks

With the mLINE® Multipacks you can affordably replace your used mechanical pipettes with new ones or set up new workstations for every researcher. A set of three to five mLINE® mechanical pipettes, a Linear Stand and racks of matching tips are included in each pack.



Specifications & Pricing

| Item | Description | US List Price (\$) |
|-----------|---|--------------------|
| LH-725661 | mLINE® Pipette 3-pack 10 – mLINE® pipettes 0.5-10 µl, 10-100 µl, 100-1000 µl – Sartorius Optifit Tip tray box 0.2-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand | 750 |
| LH-725662 | mLINE® Pipette 3-pack 20 – mLINE® pipettes 2-20 µl, 20-200 µl, 100-1000 µl – Sartorius Optifit Tip tray box 0.5-200 µl, 10-1000 µl – Linear Stand | 750 |
| LH-725663 | mLINE® Pipette 4-pack – mLINE® pipettes 0.5-10 µl, 10-100 µl, 20-200 µl, 100-1000 µl – Sartorius Optifit Tip tray box 0.2-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand | 935 |
| LH-725664 | mLINE® Pipette 5-pack – mLINE® pipettes 2-20 µl, 10-100 µl, 20-200 µl, 100-1000 µl, 500-5000 µl – Sartorius Optifit Tip tray box 0.5-200 µl, 10-1000 µl, 5000 µl – Linear Stand | 1,100 |
| LH-725665 | mLINE® Pipette 3+1-pack – mLINE® pipettes 0.5-10 µl, 20-200 µl, 100-1000 µl and 8-channel 30-300 µl – Sartorius Optifit Tip tray box 0.2-10 µl, 0.5-200 µl, 5-350 µl, 10-1000 µl – Linear Stand | 1,285 |

mLINE® Mechanical Pipettes

Effortless Accuracy

mLINE® offers excellent ergonomics, performance and safety in manual pipetting. It is designed to maintain high accuracy and precision in repetitive and long-lasting manual pipetting. Its excellent ergonomics minimize the risk of work related hand, arm and shoulder disorders and Work Related Upper Limb Disorder (WRULD). mLINE® covers the full volume range of 0.1 µl to 10 ml and is available in single and multi-channel models.



Features & Benefits

Extremely Light Pipetting Forces & Ergonomic Design

- Prevents repetitive strain injury (RSI)
- Better pipetting results in long-lasting pipetting

Secured Volume Setting

- Volume lock prevents accidental volume changes while pipetting
- Large, easy-to-read volume display minimizes the risk of volume-setting errors

Thermal Insulation of Internal Components to Improve Accuracy

- Improves accuracy in long pipetting series

Optiload for Perfect Tip Sealing

- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone
- Makes tip ejection light and easy
- Available in single and multichannel models

Safe-Cone Filters

- Prevent contamination
- In all models > 10 µl
- Unique filter ejection mechanism for easy removal

Materials Have High Chemical and UV-Resistance

- Highly durable and long-lasting pipette

Fully Autoclavable without Disassembly

- Easy to steam-sterilize, improves purity

Only Three Parts to Disassemble

- Very easy to clean and maintain
- Improves purity and secures functionality



mLINE® – Specifications & Pricing

| Model | Channel | Volume Range (µl) | Increment (µl) | Test Volume (µl) | System. | | Random | | Safe-Cone Filters | | Optifit Tips (µl) | SafetySpace Filter Tips (µl) | US List Price (\$) | |
|--------|---------|-------------------|----------------|------------------|-----------|------------|-----------|------------|-------------------|--------|-------------------|------------------------------|--------------------|-------|
| | | | | | Error (%) | Error (µl) | Error (%) | Error (µl) | Standard | Plus | | | | |
| 725010 | 1 | ● | 0.1-3 | 0.002 | 3 | 1.40 | 0.042 | 0.80 | 0.024 | - | - | 10 | 10 | 400 |
| | | | | | 1.5 | 2.60 | 0.039 | 1.60 | 0.024 | | | | | |
| | | | | | 0.3 | 10.00 | 0.030 | 6.00 | 0.018 | | | | | |
| 725020 | 1 | ● | 0.5-10 | 0.01 | 10 | 1.00 | 0.100 | 0.60 | 0.060 | - | - | 10 | 10 | 400 |
| | | | | | 5 | 1.50 | 0.075 | 1.00 | 0.050 | | | | | |
| | | | | | 1 | 3.00 | 0.030 | 2.00 | 0.020 | | | | | |
| 725030 | 1 | ● | 2-20 | 0.02 | 20 | 1.00 | 0.200 | 0.50 | 0.100 | 721014 | - | 200 | 20 | 400 |
| | | | | | 10 | 1.40 | 0.140 | 0.90 | 0.090 | | | | | |
| | | | | | 2 | 4.00 | 0.080 | 3.00 | 0.060 | | | | | |
| 725050 | 1 | ● | 10-100 | 0.10 | 100 | 0.80 | 0.80 | 0.20 | 0.20 | 721008 | 721018 | 200 | 120 | 400 |
| | | | | | 50 | 1.00 | 0.50 | 0.40 | 0.20 | | | 350 | | |
| | | | | | 10 | 3.00 | 0.30 | 1.00 | 0.10 | | | | | |
| 725060 | 1 | ● | 20-200 | 0.20 | 200 | 0.60 | 1.20 | 0.20 | 0.40 | 721007 | 721017 | 200 | 200 | 400 |
| | | | | | 100 | 0.80 | 0.80 | 0.30 | 0.30 | | | 350 | 300 | |
| | | | | | 20 | 2.30 | 0.46 | 0.90 | 0.18 | | | | | |
| 725070 | 1 | ● | 100-1000 | 1.00 | 1000 | 0.70 | 7.0 | 0.20 | 2.0 | 721006 | 721016 | 1000 | 1000 | 400 |
| | | | | | 500 | 0.80 | 4.0 | 0.20 | 1.0 | | | | | |
| | | | | | 100 | 2.50 | 2.5 | 0.60 | 0.6 | | | | | |
| 725080 | 1 | ● | 500-5000 | 10.0 | 5000 | 0.60 | 30 | 0.20 | 10 | 721005 | 721015 | 5000 | - | 400 |
| | | | | | 2500 | 0.70 | 17.5 | 0.30 | 7.5 | | | | | |
| | | | | | 500 | 2.40 | 12 | 0.60 | 3 | | | | | |
| 725090 | 1 | ● | 1-10 ml | 20.0 | 10000 | 0.60 | 60 | 0.20 | 20 | 721005 | 721015 | 10 000 | - | 400 |
| | | | | | 5000 | 1.20 | 60 | 0.30 | 15 | | | | | |
| | | | | | 1000 | 3.00 | 30 | 0.60 | 6 | | | | | |
| 725120 | 8 | ● | 0.5-10 | 0.01 | 10 | 1.50 | 0.150 | 1.00 | 0.100 | - | - | 10 | 10 | 950 |
| | | | | | 5 | 2.50 | 0.125 | 2.00 | 0.100 | | | | | |
| | | | | | 1 | 5.50 | 0.055 | 4.00 | 0.040 | | | | | |
| 725130 | 8 | ● | 5-100 | 0.10 | 100 | 0.90 | 0.90 | 0.40 | 0.40 | 721008 | 721018 | 200 | 120 | 950 |
| | | | | | 50 | 1.20 | 0.60 | 0.70 | 0.35 | | | 350 | | |
| | | | | | 10 | 4.00 | 0.40 | 2.00 | 0.20 | | | | | |
| 725140 | 8 | ● | 30-300 | 0.20 | 300 | 0.60 | 1.80 | 0.25 | 0.475 | 721007 | 721017 | 350 | 300 | 950 |
| | | | | | 150 | 1.00 | 1.50 | 0.50 | 0.75 | | | | | |
| | | | | | 30 | 2.50 | 0.75 | 1.00 | 0.30 | | | | | |
| 725220 | 12 | ● | 0.5-10 | 0.01 | 10 | 1.50 | 0.150 | 1.00 | 0.100 | - | - | 10 | 10 | 1,135 |
| | | | | | 5 | 2.50 | 0.125 | 2.00 | 0.100 | | | | | |
| | | | | | 1 | 5.50 | 0.055 | 4.00 | 0.040 | | | | | |
| 725230 | 12 | ● | 5-100 | 0.10 | 100 | 0.90 | 0.90 | 0.40 | 0.40 | 721008 | 721018 | 200 | 120 | 1,135 |
| | | | | | 50 | 1.20 | 0.60 | 0.70 | 0.35 | | | 350 | | |
| | | | | | 10 | 4.00 | 0.40 | 2.00 | 0.20 | | | | | |
| 725240 | 12 | ● | 30-300 | 0.20 | 300 | 0.60 | 1.80 | 0.25 | 0.75 | 721007 | 721017 | 350 | 300 | 1,135 |
| | | | | | 150 | 1.00 | 1.50 | 0.50 | 0.75 | | | | | |
| | | | | | 30 | 2.50 | 0.75 | 1.00 | 0.30 | | | | | |

The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655. Pipettes are tested at factory default speed settings. Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without notice.

Accessories

| Item | Description | US List Price (\$) |
|--|---|--------------------|
| LH-727640 | Carousel Stand for 6 pipettes | 133 |
| 725610 | Pipette Holder for one pipette | 8.50 |
| 725620 | Linear Stand | 133 |
| 726203 | Calibration tool Tube opener | 31 |
| Pre-Delivery Calibration Certificates | | |
| 84JOP01 | Single Channel 5.3 Calibration Mechanical Pipette | 65 |
| 84JOP02 | (8) Channel 5.3 Calibration Mechanical Pipette | 101 |
| 84JOP10 | (12) Channel 5.3 Calibration Mechanical Pipette | 126 |
| Extended Warranty | | |
| 84WAP01 | 12 months Mechanical Single Channel Pipette | 118 |
| 84WAP02 | 12 months Mechanical (8) Channel Pipette | 215 |
| 84WAP10 | 12 months Mechanical (12) Channel Pipette | 245 |



Carousel Stand

Proline® Plus Mechanical Pipettes

Dependable Durability

Proline® Plus is designed to offer comfort and quality in every day manual pipetting. While it shares many of the excellent features of mLINE®, it has a personal design and a durable feel for heavier use. In addition, it has the widest pipette range, including fixed volume pipettes, for when volumes need to be ready-set to avoid errors. Proline® Plus pipettes are an excellent choice for both experienced laboratory professionals and students.



Features & Benefits

Wide variety of adjustable, single and multichannel models

- Fixed volume pipettes for specific applications to avoid volume setting errors

Low Pipetting Forces & Ergonomic Finger Support

- Reduces the risk of repetitive strain injury (RSI)

Easy-to-read Volume Display

- Large, easy-to-read volume display minimizes the risk of volume-setting errors

Thermal Insulation of Internal Components

- Improves accuracy in long pipetting series

Optiload for Perfect Tip Sealing on Multi-Channel Models

- Allows tip loading with an equal constant force onto every channel
- Enables perfect tip sealing onto every individual tip cone
- Makes tip ejection light and easy

Safe-Cone Filters

- Prevent contamination
- In all models > 10 µl

Materials have High Chemical and UV-Resistance

- Highly durable and long lasting pipette

Fully Autoclavable without Disassembly

- Easy to steam-sterilize, improves purity

Only Three Parts to Disassemble

- Very easy to clean and maintain
- Improves purity and secures functionality



Proline® Plus – Specifications & Pricing

| Model | Channel | Volume Range (µl) | Increment (µl) | Test Volume (µl) | System. | System. | Random | Random | Safe-Cone Filters | | Optifit Tips (µl) | SafetySpace Filter Tips (µl) | US List Price (\$) |
|--------|---------|-------------------|----------------|------------------|-----------|------------|-----------|------------|-------------------|--------|-------------------|------------------------------|--------------------|
| | | | | | Error (%) | Error (µl) | Error (%) | Error (µl) | Standard | Plus | | | |
| 728010 | 1 ● | 0.1 – 3 | 0.002 | 3 | 1.40 | 0.042 | 0.80 | 0.024 | – | – | 10 | 10 | 260 |
| | | | | 1.50 | 2.60 | 0.039 | 1.60 | 0.024 | | | | | |
| | | | | 3 | 10.00 | 0.030 | 6.00 | 0.018 | | | | | |
| 728020 | 1 ● | 0.5 – 10 | 0.01 | 10 | 1.00 | 0.100 | 0.60 | 0.060 | – | – | 10 | 10 | 260 |
| | | | | 5 | 1.50 | 0.075 | 1.00 | 0.050 | | | | | |
| | | | | 1 | 3.00 | 0.030 | 2.00 | 0.020 | | | | | |
| 728030 | 1 ● | 2 – 20 | 0.02 | 20 | 1.00 | 0.200 | 0.50 | 0.100 | 721014 | – | 200 | 20 | 260 |
| | | | | 10 | 1.40 | 0.140 | 0.90 | 0.090 | | | | | |
| | | | | 2 | 4.00 | 0.080 | 3.00 | 0.020 | | | | | |
| 728040 | 1 ● | 5 – 50 | 0.10 | 50 | 1.00 | 0.500 | 0.30 | 0.150 | 721008 | 721018 | 200 | 120 | 260 |
| | | | | 25 | 1.40 | 0.350 | 0.50 | 0.125 | | | | | |
| | | | | 5 | 3.00 | 0.150 | 1.50 | 0.075 | | | | | |
| 728050 | 1 ● | 10 – 100 | 0.10 | 100 | 0.80 | 0.80 | 0.20 | 0.20 | 721008 | 721018 | 200 | 120 | 260 |
| | | | | 50 | 1.00 | 0.50 | 0.40 | 0.20 | 350 | | | | |
| | | | | 10 | 3.00 | 0.30 | 1.00 | 0.10 | | | | | |
| 728060 | 1 ● | 20 – 200 | 0.20 | 200 | 0.60 | 1.20 | 0.20 | 0.40 | 721007 | 721017 | 200 | 200 | 260 |
| | | | | 100 | 0.80 | 0.80 | 0.30 | 0.30 | 350 | 300 | | | |
| | | | | 20 | 2.30 | 0.46 | 0.90 | 0.18 | | | | | |
| 728070 | 1 ● | 100 – 1000 | 1.00 | 1000 | 0.70 | 7.0 | 0.20 | 2.0 | 721006 | 721016 | 1000 | 1000 | 260 |
| | | | | 500 | 0.80 | 4.0 | 0.20 | 1.0 | | | | | |
| | | | | 100 | 2.50 | 2.5 | 0.60 | 0.6 | | | | | |
| 728080 | 1 ● | 500 – 5000 | 10.0 | 5000 | 0.60 | 30 | 0.20 | 10 | 721005 | 721015 | 5000 | – | 260 |
| | | | | 2500 | 0.70 | 17.5 | 0.30 | 7.5 | | | | | |
| | | | | 500 | 2.40 | 12 | 0.60 | 3 | | | | | |
| 728090 | 1 ● | 1 – 10 ml | 20.0 | 10000 | 0.60 | 60 | 0.20 | 20 | 721005 | 721015 | 10 000 | – | 260 |
| | | | | 5000 | 1.20 | 60 | 0.30 | 15 | | | | | |
| | | | | 1000 | 3.00 | 30 | 0.60 | 6 | | | | | |
| 728120 | 8 ● | 0.5 – 10 | 0.01 | 10 | 1.50 | 0.150 | 1.00 | 0.100 | – | – | 10 | 10 | 710 |
| | | | | 5 | 2.50 | 0.125 | 2.00 | 0.100 | | | | | |
| | | | | 1 | 5.50 | 0.055 | 4.00 | 0.040 | | | | | |
| 728130 | 8 ● | 10 – 100 | 0.10 | 100 | 0.90 | 0.90 | 0.40 | 0.40 | 721008 | 721018 | 200 | 120 | 710 |
| | | | | 50 | 1.20 | 0.60 | 0.70 | 0.35 | 350 | | | | |
| | | | | 10 | 4.00 | 0.40 | 2.00 | 0.20 | | | | | |
| 728140 | 8 ● | 30 – 300 | 0.20 | 300 | 0.60 | 1.80 | 0.25 | 0.75 | 721007 | 721017 | 350 | 300 | 710 |
| | | | | 150 | 1.00 | 1.50 | 0.50 | 0.75 | | | | | |
| | | | | 30 | 2.50 | 0.75 | 1.00 | 0.30 | | | | | |
| 728220 | 12 ● | 0.5 – 10 | 0.01 | 10 | 1.50 | 0.150 | 1.00 | 0.100 | – | – | 10 | 10 | 865 |
| | | | | 5 | 2.50 | 0.125 | 2.00 | 0.100 | | | | | |
| | | | | 1 | 5.50 | 0.055 | 4.00 | 0.040 | | | | | |
| 728230 | 12 ● | 10 – 100 | 0.10 | 100 | 0.90 | 0.90 | 0.40 | 0.40 | 721008 | 721018 | 200 | 120 | 865 |
| | | | | 50 | 1.20 | 0.60 | 0.70 | 0.35 | 350 | | | | |
| | | | | 10 | 4.0 | 0.40 | 2.00 | 0.20 | | | | | |
| 728240 | 12 ● | 30 – 300 | 0.20 | 300 | 0.60 | 1.80 | 0.25 | 0.75 | 721007 | 721017 | 350 | 300 | 865 |
| | | | | 150 | 1.00 | 1.50 | 0.50 | 0.75 | | | | | |
| | | | | 30 | 2.50 | 0.75 | 1.00 | 0.30 | | | | | |

The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655. Pipettes are tested at factory default speed settings. Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without notice.

Proline® Plus Pipette Multipacks

Proline® Plus Multipacks offer complete sets of pipettes and accessories with eight options that include:

- Mechanical Proline® Plus pipettes
- Linear Stand
- Matching Optifit Tips
- Pipette Holders



Specifications & Pricing

| Item | Description | US List Price (\$) |
|-----------|--|--------------------|
| LH-728670 | Proline® Plus Pipette 3-pack 10 – Proline® Plus pipettes 0.5-10 µl, 10-100 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x3 | 570 |
| LH-728671 | Proline® Plus Pipette 3-pack 20 – Proline® Plus pipettes 2-20 µl, 20-200 µl, 100-1000 µl – Sartorius Optifit Tip rack (96 tips) 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x3 | 570 |
| LH-728672 | Proline® Plus Pipette 4-pack 20 – Proline® Plus pipettes 0.5-10 µl, 2-20 µl, 20-200 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x4 | 720 |
| LH-728673 | Proline® Plus Pipette 4-pack 100 – Proline® Plus pipettes 0.5-10 µl, 10-100 µl, 20-200 µl, 100-1000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl – Linear Stand & Pipette Holder x4 | 720 |
| LH-728674 | Proline® Plus Pipette 5-pack 10 – Proline® Plus pipettes 0.5-10 µl, 10-100 µl, 20-200 µl, 100-1000 µl, 500 - 5000 µl , (1 channel) – Sartorius Optifit Tip Tip Rack (96 tips) 0.1-10 µl, 0.5-200 µl, 10-1000 µl, Tip Rack (50 tips) 5000 µl – Linear Stand & Pipette Holder x5 | 840 |
| LH-728675 | Proline® Plus Pipette 5-pack 20 – Proline® Plus pipettes 2-20 µl, 10-100 µl, 20-200 µl, 100-1000 µl, 500-5000 µl (1 channel) – Sartorius Optifit Tip rack (96 tips) 0.5-200 µl, 10-1000 µl, Tip Rack (50 tips) 5000 µl – Linear Stand & Pipette Holder | 840 |
| LH-728676 | Proline® Plus Pipette 3 + 1 pack – Proline® Plus pipettes 0.5-10 µl, 20-200 µl, 100-1000 µl (1 channel), 30- 300 µl (8 channel) – Sartorius Optifit Tip rack (96 tips) 0.1-10 µl, 0.5-200 µl, 5-350 µl, 10-1000 µl – Linear Stand & Pipette Holder x4 | 1,030 |
| LH-728677 | Proline® Plus Pipette 3-pack max – Proline® Plus pipettes 100-1000 µl, 500-5000 µl, 1-10 ml – Sartorius Optifit Tip rack - 10-1000 µl (96 tips), 0.1-5 ml (50 tips), 1-10 ml (35 tips) – Linear Stand & Pipette Holder x3 | 570 |

Proline® Plus FIXED Volume, Single-channel – Specifications & Pricing

| Model | Channels | Volume (µl) | Increment (µl) | Test Volume (µl) | System. Error (%) | System. Error (µl) | Random Error (%) | Random Error (µl) | Safe-Cone Filters Standard | Safe-Cone Filters Plus | Optifit Tips (µl) | SafetySpace™ Filter Tips (µl) | US List Price (\$) |
|--------|----------|-------------|----------------|------------------|-------------------|--------------------|------------------|-------------------|----------------------------|------------------------|-------------------|-------------------------------|--------------------|
| 728515 | 1 | 5 | – | 5 | 1.30 | 5 | 1.20 | 0.060 | – | – | 10 | 10 | 196 |
| 728520 | 1 | 10 | – | 10 | 0.80 | 10 | 0.80 | 0.080 | – | – | 10 | 10 | 196 |
| 728530 | 1 | 20 | – | 20 | 0.60 | 20 | 0.50 | 0.100 | 721014 | – | 200 | 20 | 196 |
| 728535 | 1 | 25 | – | 25 | 0.50 | 25 | 0.30 | 0.075 | 721008 | 721018 | 200 | 120 | 196 |
| 728545 | 1 | 50 | – | 50 | 0.50 | 50 | 0.30 | 0.150 | 721008 | 721018 | 200 | 120 | 196 |
| 728550 | 1 | 100 | – | 100 | 0.50 | 100 | 0.30 | 0.30 | 721008 | 721018 | 200 350 | 120 | 196 |
| 728560 | 1 | 200 | – | 200 | 0.40 | 200 | 0.20 | 0.40 | 721007 | 721017 | 200 350 | 200 300 | 196 |
| 728565 | 1 | 250 | – | 250 | 0.40 | 250 | 0.20 | 0.50 | 721006 | 721016 | 1000 | 500 1000 | 196 |
| 728567 | 1 | 500 | – | 500 | 0.30 | 500 | 0.20 | 1.00 | 721006 | 721016 | 1000 | 500 1000 | 196 |
| 728570 | 1 | 1000 | – | 1000 | 0.30 | 1,000 | 0.20 | 2.0 | 721006 | 721016 | 1000 | 1000 | 196 |
| 728575 | 1 | 2000 | – | 2000 | 0.30 | 2,000 | 0.15 | 3.0 | 721005 | 721015 | 5000 | – | 196 |
| 728580 | 1 | 5000 | – | 5000 | 0.30 | 5,000 | 0.15 | 7.5 | 721005 | 721015 | 5000 | – | 196 |
| 728590 | 1 | 10 ml | – | 10000 | 0.60 | 10,000 | 0.20 | 20 | 721005 | 721015 | 10000 | – | 196 |

The listed systematic and random error values can be achieved only under strictly controlled conditions during type tests per ISO 8655. Pipettes are tested at factory default speed settings. Due to the continuous product development by Sartorius, the systematic and random error values are subject to change without notice.

Accessories

| Item | Description of Upgrade | US List Price (\$) |
|--|---|--------------------|
| LH-727640 | Carousel Stand for 6 pipettes | 133 |
| 725610 | Pipette Holder for one pipette | 8.50 |
| 725620 | Linear Stand | 133 |
| 726203 | Calibration tool Tube opener | 31 |
| Pre-Delivery Calibration Certificates | | |
| 84JOP01 | Single Channel 5.3 Calibration Mechanical Pipette | 65 |
| 84JOP02 | (8) Channel 5.3 Calibration Mechanical Pipette | 101 |
| 84JOP10 | (12) Channel 5.3 Calibration Mechanical Pipette | 126 |
| Extended Warranty | | |
| 84WAP01 | 12 months Mechanical Single Channel Pipette | 118 |
| 84WAP02 | 12 months Mechanical (8) Channel Pipette | 215 |
| 84WAP10 | 12 months Mechanical (12) Channel Pipette | 245 |



Pipette Holder



Optifit Tips

Perfect Match to Sartorius Pipettes

In liquid handling, pipetting results are dependent not on the pipette or the tip alone, but a combination of these and the comfort of the user. Optifit Tips are designed and manufactured as a perfect fit for our pipettes, enabling maximal accuracy, precision and ergonomics. Manufacturing the tips in our own production facility allows us to maintain the highest quality and purity standards throughout the manufacturing process.



Features

- Perfect fitting and sealing with Sartorius pipettes
- Compatible also with most other pipette makes (see compatibility with other manufacturers' pipettes at www.sartorius.com)
- Manufactured using diamond polished molds to obtain even surface for enhanced sample recovery
- Packaging and purity options for all needs
- All tip packages, including individual racks, are lot numbered for full traceability
- The highest quality virgin polypropylene (PP) used as a raw material
- Color coding of the tip trays to match compatible Sartorius pipettes

Benefits

Reliable Results

- Perfect fitting and sealing with Sartorius pipettes guarantee the given pipette specifications
- All Sartorius tips are manufactured according to ISO 9001, ISO 14001 and ISO 13485 standards
- High Quality = correct shape, size, material, purity and uniformity
- Color coding of the tip trays allows easy matching with a suitable color coded Sartorius pipette

Sample Safety

- Manufactured in ISO Class 8 certified cleanroom conditions, using highly automated production to avoid contamination
- Every tip lot is tested by an external partner, and certified for being DNase, RNase and endotoxin free
- Autoclavable (20 minutes at 121 °C, 1 bar (15 psi)).
- Pre-sterilized tips are e-beam irradiated

Less Risk for RSI (repetitive strain injury)

- Compatible with Optiload feature in Sartorius Picus® NxT, Picus®, Tacta®, mLINE® and Proline® Plus pipettes enabling ergonomic and light tip attachment and ejection



Optifit Tips, Refill Pack



Optifit Tips, Single Tray



Optifit Tips, Bulk in Box



Optifit Tips, Refill Tower



Optifit Tips, FlexiBulk

Optifit Tips – Specifications & Pricing

| Model | Volume Range | Packaging | Pre-sterilized | Qty/Unit | US List Price (\$) |
|-----------|-----------------|--------------|----------------|----------|--------------------|
| 790010 | ● 0.1 – 10 µl | Single Tray | | 10 × 96 | 81 |
| 790011 | | Single Tray | • | 10 × 96 | 107 |
| 790012 | | Refill Tower | | 10 × 96 | 56 |
| 790013 | | Refill Pack | • | 20 × 96 | 145 |
| 783210 | ● 0.1 – 10 µl | Single Tray | | 10 × 96 | 75 |
| 783211 | Extended | Single Tray | • | 10 × 96 | 86 |
| 790200 | ● 0.5 – 200 µl | Single Tray | | 10 × 96 | 68 |
| 790201 | | Single Tray | • | 10 × 96 | 70 |
| 790202 | | Refill Tower | | 10 × 96 | 40 |
| 790203 | | Refill Pack | • | 15 × 96 | 97 |
| 790350 | ● 5 – 350 µl | Single Tray | | 10 × 96 | 70 |
| 790351 | | Single Tray | • | 10 × 96 | 96 |
| 790352 | | Refill Tower | | 10 × 96 | 47 |
| 790353 | | Refill Pack | • | 15 × 96 | 87 |
| 791000 | ● 10 – 1000 µl | Single Tray | | 10 × 96 | 68 |
| 791001 | | Single Tray | • | 10 × 96 | 86 |
| 791002 | | Refill Pack | | 10 × 96 | 40 |
| 791003 | | Refill Pack | • | 10 × 96 | 66 |
| 791020 | ● 10 – 1000 µl | Single Tray | | 10 × 96 | 70 |
| 791021 | Wide bore tip | Single Tray | • | 10 × 96 | 92 |
| 791200 | ● 50 – 1200 µl | Single Tray | | 10 × 96 | 81 |
| 791201 | | Single Tray | • | 10 × 96 | 101 |
| 791202 | | Refill Pack | | 10 × 96 | 56 |
| 791203 | | Refill Pack | • | 10 × 96 | 76 |
| 791210* | ● 50 – 1200 µl | Single Tray | | 10 × 96 | 96 |
| 791211* | | Single Tray | • | 10 × 96 | 122 |
| 791212* | | Refill Pack | | 10 × 96 | 118 |
| 791213* | | Refill Pack | • | 10 × 96 | 140 |
| 780304+ | ● 100 – 5000 µl | Single Tray | | 50 | 16 |
| 780300 | | Bulk in Box | | 100 | 28 |
| 780305+ | | Single Tray | • | 50 | 19 |
| LH-780314 | ● 1-10 ml | Single Tray | | 35 | 26 |

*Extended length: 90 mm *Minimum order quantity of 10 (10x50). Must order in multiples of 10

NOTE: The best compatibility is achieved when combining Sartorius pipettes and Sartorius tips. The systematic error and random error results, in tests, have been achieved using the listed Sartorius tips and pipettes.

| Model | Volume Range (µl) | Length (mm) | Purity Level | Qty. | US List Price (\$) |
|---|-------------------|-------------|------------------------------|-------|--------------------|
| Optifit Tips, FlexiBulk | | | | | |
| LH-B790204 | 0.5-200 | 51 | RNase, DNase, endotoxin free | 960 | 36 |
| LH-B790354 | 5-350 | 54 | RNase, DNase, endotoxin free | 960 | 36 |
| LH-B791004 | 10-1000 | 71.5 | RNase, DNase, endotoxin free | 480 | 22 |
| LH-B791024 [#] | 10-1000 WB | 68.5 | RNase, DNase, endotoxin free | 480 | 22 |
| LH-B791204 | 50-1200 | 71.5 | RNase, DNase, endotoxin free | 480 | 22 |
| [#] Tip with wide bore | | | | | |
| Optifit Tips, Standard bulk packages | | | | | |
| 790014 | 0.1-10 | 31.5 | - | 1,000 | 37 |
| 780300 | 100-5000 | 150 | - | 100 | 28 |
| 780308 | 100-5000 | 150 | - | 1,000 | 155 |
| LH-780316 | 1-10 ml | 155 | - | 250 | 118 |

All Refill Pack and Single Tray packed tips are free of RNase, DNase and endotoxins.

SafetySpace™ Filter Tips

Improved Sample Safety

With their unique safety air gap, SafetySpace™ Filter Tips are designed to prevent crosscontamination with the filter barrier as well as loss of sample. The unique positioning of the filter leaves more space between the sample and the filter than in conventional filter tips. This allows pipetting any type of liquid or using any pipetting technique without the risk of the valuable sample permeating the filter. In effect, the SafetySpace™ Filter Tips minimize the risk of sample contamination, improve sample recovery and, thus, lead to improved sample safety in two ways.



Features

- Perfect fitting and sealing with Sartorius pipettes guarantee the given pipette specifications
- Compatible with most other pipette makes (see compatibility with other manufacturers' pipettes at www.sartorius.com)
- Manufactured using diamond polished molds to obtain even surface
- Tip packages, including individual racks, are lot numbered for full traceability
- All Sartorius tips are manufactured according to ISO 9001, ISO 14001 and ISO 13485 standards
- High Quality = correct shape, size, material, purity and uniformity
- Color coding of the tip trays allows easy matching with a suitable color coded Sartorius pipette

Applications

The Filter Tips are Most Useful in:

- Molecular biology
- Microbiology
- Cell culture
- Radioactive samples

The SafetySpace™ Feature is Particularly Useful in the Following Applications, where Extra Space in the Tip is Needed:

- Pipetting foaming liquids such as buffers and proteins
- Pipetting solvents
- Multiple dispensing with electronic pipettes
- Reverse pipetting

Specifications & Pricing

| Model | | Volume Range (µl) | Packaging | Pre-sterilized | Qty/Unit | US List Price (\$) |
|---|---|-------------------|-------------|----------------|----------|--------------------|
| 790011F | ● | 0.1 – 10 | Single Tray | • | 10 × 96 | 165 |
| 790021F | ● | 0.5 – 20 | Single Tray | • | 10 × 96 | 165 |
| 790101F | ● | 2 – 120 | Single Tray | • | 10 × 96 | 165 |
| 790201F | ● | 5 – 200 | Single Tray | • | 10 × 96 | 165 |
| 790301F | ● | 5 – 300 | Single Tray | • | 10 × 96 | 165 |
| 791001F | ● | 50 – 1000 | Single Tray | • | 10 × 96 | 165 |
| 791211F* | ● | 50 – 1200 | Single Tray | • | 10 × 96 | 198 |
| LH-795001F | ● | 100 – 5000 | Single Tray | • | 1 × 50 | 42 |
| Filter Tips with Regular Air Gap | | | | | | |
| 783201 | ● | 0.1 – 10 Extended | Single Tray | • | 10 × 96 | 182 |

All Single Tray packed tips are free of RNase, DNase and endotoxins

*Extended length: 90mm

Benefits

Reliable Results

- The safety air gap between the sample and the filter allows accurate results also for foaming liquids or solvents, which otherwise tend to easily penetrate the filter barrier and risk the result accuracy
- Extra space also enables safe use of all pipetting modes (reverse pipetting, multi-dispensing) without the risk of wetting the filter

Sample Safety

- The filter barrier and the extra space in the tip prevent cross-contamination from sample to sample
- The filters (PE) are made without "self-sealing" additives to ensure no particles interfere with the sample and the results
- Manufactured in ISO Class 8 certified cleanroom conditions, using highly automated production to avoid contamination
- Every tip lot is tested by an external partner, and certified for being DNase, RNase and endotoxin free
- E-beam irradiated for sterility

Less Risk for RSI (repetitive strain injury)

- Compatible with Optiload feature in Sartorius Picus® NxT, Picus®, Tacta®, mLINE® and Proline® Plus pipettes enabling ergonomic and light tip attachment and ejection

Extended Tips

Reach the Samples Better!

Pipetting samples from narrow and long tubes without contaminating the pipette can be challenging. New Sartorius Extended tips will guarantee easier reach to wide variety of tubes and vessels. Color-coding of the tip racks ensures easy matching with corresponding Sartorius pipettes.



Specifications & Pricing

| Model | Volume Range (µl) | Length (mm) | Packaging | RNase, DNase, endotoxin-free | Presterilized | Qty/Unit | US List Price (\$) |
|----------------------|-------------------|-------------|-------------|---------------------------------|---------------|----------|-----------------------|
| Standard Tips | | | | | | | |
| LH-X780200 | 0.5-20 | 77.5 | Single Tray | • | | 10 x 96 | 74 |
| LH-X780201 | 0.5-200 | 77.5 | Single Tray | • | • | 10 x 96 | 76 |
| LH-X781000 | 10-1,000 | 102 | Single Tray | • | | 8 x 96 | 74 |
| LH-X781001 | 10-1,000 | 102 | Single Tray | • | • | 8 x 96 | 91 |
| Filter Tips | | | | | | | |
| LH-XF780201 | 0.5-200 | 77.5 | Single Tray | • | • | 10 x 96 | 168 |
| LH-XF781001 | 10-1,000 | 102 | Single Tray | • | • | 8 x 96 | 168 |

Low Retention Tips

Optimum Flow for Optimum Recovery

The Sartorius Low Retention Tips are a perfect companion for pipetting liquids with low surface tension - due to their very even hydrophobic surface, they leave next to no residue in the tip. In addition, the durable tip surface has high chemical resistance securing sample integrity.

Low Retention Tips save your valuable reagents and secure reliable results, for example, with detergent-containing samples in sensitive molecular biology applications. The low retention feature is available with a wide selection of Sartorius Optifit Tips (non-filtered) as well as with SafetySpace™ Filter Tips, with volumes from 10 µl to 1200 µl.

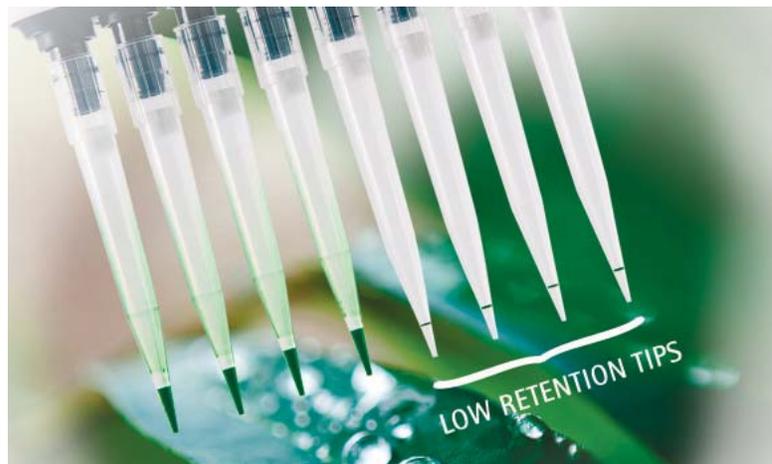
Features

- Manufactured using an advanced proprietary technology to obtain even liquid repellent surface
- Filtered and non-filtered Low Retention Tips available, the filter tips feature extra space between the sample and the filter
- Packaging and purity options for various needs
- Perfect fitting and sealing with Sartorius pipettes, matching color coding of tip trays
- Compatible with most other pipette makes (see compatibility with other manufacturers' pipettes at www.sartorius.com)

Applications

Better sample recovery and reproducibility in pipetting are especially beneficial in sensitive molecular biology applications, where reagents often contain detergents, for example in:

- DNA|RNA techniques, e.g. PCR, real-time PCR, cloning, sequencing, RFLP
- Protein analysis & purification methods, e.g. SDS-PAGE



Benefits

Save Valuable Samples and Reagents

- Maximized sample recovery due to highly hydrophobic tip surface
- Up to 10 times less residue with detergents or other liquids with low surface tension

Reliable Results

- Improved consistency of results and sample recovery due to the highly even liquid-repellent surface
- The safety air gap in filter tips allows accurate results also for foaming liquids or solvents, which otherwise tend to easily penetrate the filter barrier and risk the result accuracy
- All Sartorius tips are manufactured according to ISO 9001, ISO 14001 and ISO 13485 standards
- High Quality = correct shape, size, material, purity and uniformity

Sample Safety

- High chemical resistance secures the sample integrity
- The filter barrier and the extra space in the tip prevent cross-contamination from sample to sample
- The filters (PE) are made without "self-sealing" additives to ensure no particles interfere with the sample and the results
- Manufactured in ISO Class 8 certified cleanroom conditions, using highly automated production to avoid contamination
- Every tip lot is tested by an external partner, and certified for being DNase, RNase and endotoxin free
- Filter tips are e-beam irradiated for sterility
- All tip packages, including individual racks, are lot numbered for full traceability

Less Risk for RSI (Repetitive Strain Injury)

- Compatible with Optiload feature in Sartorius Picus® NxT, Picus®, Tacta®, mLINE® and Proline® Plus pipettes enabling ergonomic and light tip attachment and ejection

Low Retention Optifit Tips – Specifications & Pricing

| Model | Volume Range (µl) | Packaging | RNase, DNase, endotoxin-free | Qty/Unit | US List Price (\$) |
|-------------|-------------------|--------------|------------------------------|----------|--------------------|
| LH-L790010 | 0.1 – 10 | Single Tray | • | 10 × 96 | 86 |
| LH-L790012 | 0.1 – 10 | Refill Tower | | 10 × 96 | 61 |
| LH-L790200 | 0.5 – 200 | Single Tray | • | 10 × 96 | 81 |
| LH-L790202 | 0.5 – 200 | Refill Tower | | 10 × 96 | 48 |
| LH-L790350 | 5 – 350 | Single Tray | • | 10 × 96 | 101 |
| LH-L790352 | 5 – 350 | Refill Tower | | 10 × 96 | 69 |
| LH-L791000 | 10 – 1000 | Single Tray | • | 10 × 96 | 92 |
| LH-L791200 | 50 – 1200 | Single Tray | • | 10 × 96 | 96 |
| LH-L791210* | 50 – 1200 | Single Tray | • | 10 × 96 | 96 |

*Extended length: 90 mm

Low Retention SafetySpace™ Filter Tips – Specifications & Pricing

| Model | Volume Range (µl) | Packaging | Pre-sterilized | Qty/Unit | US List Price (\$) |
|--------------|-------------------|-------------|----------------|----------|--------------------|
| LH-LF790011 | 0.1 – 10 | Single Tray | • | 10 × 96 | 184 |
| LH-LF790021 | 0.5 – 20 | Single Tray | • | 10 × 96 | 184 |
| LH-LF790101 | 2 – 120 | Single Tray | • | 10 × 96 | 184 |
| LH-LF790201 | 5 – 200 | Single Tray | • | 10 × 96 | 184 |
| LH-LF790301 | 5 – 300 | Single Tray | • | 10 × 96 | 184 |
| LH-LF791001 | 50 – 1000 | Single Tray | • | 10 × 96 | 184 |
| LH-LF791211* | 50 – 1200 | Single Tray | • | 10 × 96 | 205 |

All single tray packed SafetySpace™ Filter Tips are RNase, DNase and endotoxin-free.

*Extended length: 90 mm

NOTE: Low Retention Tips are available in volumes up to 1200 µl.



Low Retention Tips, Single Tray



Low Retention Tips, Refill Tower

Optifit Tips- FlexiBulk

New Tip Packaging Concept for Enhanced Usability of Bulk Tips

The FlexiBulk concept is a completely new approach to packing tips - something that has not been seen on the market before. This pack combines the low cost of bulk tips with saving space, improving usability and securing tip purity. Compared to traditional bulk packages, the stacked tip configuration offers you more advantages.



Features & Benefits

- Reduces up to 40% of pack volume
- Cuts packaging waste by nearly 50%
- Quick to “pick & place” tips into racks or to attach to pipettes right out of the package
- Ensures tip purity with lot-specific certificates

Save space with the compact package

The orderly arrangement of tips allows the FlexiBulk tip to pack to approximately 60% of the volume of conventional bulk tip cartons, in which tips are packed in random order. As a result, FlexiBulk gives you more space on your workbench.

Reduce the amount of waste

FlexiBulk reduces packaging waste by nearly 50% in comparison to a regular bulk carton with a plastic bag inside. How? FlexiBulk is compact and made of durable PET (polyethylene terephthalate) material that can be used and stacked as is – without any outer cardboard box needed. The environmentally friendly PET packs are also 100% suitable to be used as energy waste.

Save time and effort with the clever packaging concept

The well-organized FlexiBulk pack makes tip picking faster and more convenient. You can pick an individual tip for attaching directly to a pipette, or grab a handful for filling a tip rack.

FlexiBulk enables you to save as much as 20% of the time it normally takes you to load tips into racks from randomly packed bulk packages.

Minimize the risk of contamination

FlexiBulk tips are certified to be free of RNase, DNase and endotoxins. The certified purity comes in handy, when you are working with a contamination-critical application. The tips are produced and packaged under cleanroom conditions, and their manufacturing process is fully automated, which effectively eliminates contamination. In addition, the lid provides an airtight seal on the FlexiBulk pack, ensuring 100% cleanliness of the tips during transport and storage. The convenient lid can be easily resealed to protect the tips from dust and dirt.

Specifications & Pricing

| Model | Volume Range (µl) | Length (mm) | Purity Level | Qty. | US List Price (\$) |
|--------------------------------|-------------------|-------------|------------------------------|------|--------------------|
| Optifit Tips, FlexiBulk | | | | | |
| LH-B790204 | 0.5-200 | 51 | RNase, DNase, endotoxin free | 960 | 36 |
| LH-B790354 | 5-350 | 54 | RNase, DNase, endotoxin free | 960 | 36 |
| LH-B791004 | 10-1,000 | 71.5 | RNase, DNase, endotoxin free | 480 | 22 |
| LH-B791024* | 10-1,000 WB | 68.5 | RNase, DNase, endotoxin free | 480 | 22 |
| LH-B791204 | 50-1200 | 71.5 | RNase, DNase, endotoxin free | 480 | 22 |

* Tip with wide bore

| | | | | | |
|---|-----------|------|---|-------|-----|
| Optifit Tips, Standard bulk packages | | | | | |
| 790014 | 0.1-10 | 31.5 | - | 1,000 | 37 |
| 780300 | 100-5,000 | 150 | - | 100 | 28 |
| 780308 | 100-5,000 | 150 | - | 1,000 | 155 |
| LH-780316 | 1-10 ml | 155 | - | 250 | 118 |



Safe-Cone Filters

Prevent Cross-Contamination

The replaceable Safe-Cone Filters act as a final barrier to prevent any fluids and liquid vapors from reaching the internal components of the pipette.

The filters are available in two types for all pipette volumes greater than 10 μl : self-sealing Plus Filters and Standard Filters. The filters are made of polyethylene (PE).



Tweezers for exchanging filters in pipettes are included with every pipette package excluding mLINE®.

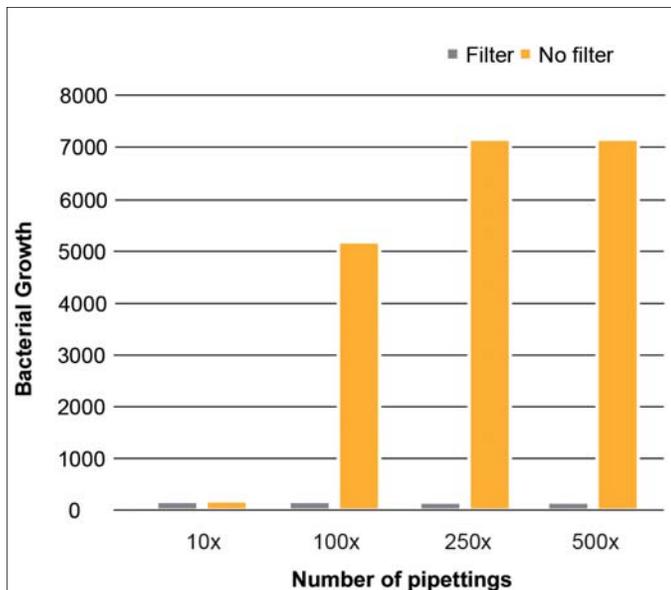
Features

- Protect the pipette and sample from contamination
- Prolong the pipette's lifetime
- Reduce maintenance intervals
- Save service cost

Contamination in Pipette Barrel

| Number of Pipettings | No Filter | Safe-Cone Filter |
|----------------------|-----------|------------------|
| 10x | - | - |
| 100x | + | - |
| 250x | ++ | - |
| 500x | +++ | - |

+: DNA (50 μl plasmid DNA 120 $\mu\text{g/ml}$) contamination in pipette barrel.



Pipette contamination in pipette barrel when pipetting liquid culture of bacteria *Micrococcus Luteus*.

Applications

The Safe-Cone Filters are available in two types to serve various needs and applications:

- Self-sealing Plus Filters are to be used for more demanding applications such as radioactive work, cell culture, bacterial and virological work and molecular biology.
- Standard Filter for general applications. Can also be used for similar applications as the Plus Filter, but then needs to be changed more frequently.

Specifications & Pricing

| Model | Description | Qty/Unit | US List Price (\$) |
|--------|-----------------------------------|----------|--------------------|
| 721008 | Standard \varnothing 2.51 mm PE | 50 | 15 |
| 721007 | Standard \varnothing 3.15 mm PE | 50 | 15 |
| 721006 | Standard \varnothing 5.33 mm PE | 50 | 15 |
| 721005 | Standard \varnothing 6.73 mm PE | 50 | 15 |
| 721014 | Standard \varnothing 1.83 mm PE | 50 | 15 |
| 721018 | Plus \varnothing 2.51 mm PE | 50 | 18 |
| 721017 | Plus \varnothing 3.15 mm PE | 50 | 18 |
| 721016 | Plus \varnothing 5.33 mm PE | 50 | 18 |
| 721015 | Plus \varnothing 6.73 mm PE | 50 | 18 |

Accessories

Ease Your Pipetting Work

The pipetting accessories are designed to ease your work.

The **Elbow Pad** helps you to feel more comfortable while pipetting, especially in long pipetting series. The viscoelastic material of the pad relieves contact stress, pain and discomfort under your elbow.

The **Reagent Vessel** is designed for easy liquid aspiration, and is a perfect fit for a multichannel pipette. Made of polypropylene, the autoclavable and durable liquid reservoir is chemically resistant to all common reagents.



Elbow Pad



Reagent Vessel

Elbow Pad Features

- Improves pipetting ergonomics
- Conforms to any elbow size or shape
- Coating is pleasant to the skin
- The compact size takes up little desk space
- Very durable
- Easy to clean with soapy water, or ethanol (70%)

Accessories

| Item | Description | Qty/Unit | US List Price (\$) |
|--------|----------------------------------|----------|--------------------|
| 723103 | Elbow Pad | 1 | 86 |
| 783500 | Reagent Vessel (capacity 120 ml) | 16 | 68 |

| Item | Description | US List Price (\$) |
|-----------|---|--------------------|
| 730981 | Charging Stand for one pipette | 215 |
| 730991 | Charging Carousel for 4 pipettes | 535 |
| LH-725630 | Carousel Stand for 6 pipettes (Tacta® and mLINE®) | 133 |
| LH-727640 | Pipette Holder for 1 pipette (Tacta®) | 10 |
| 725620 | Linear Stand (non-charging) | 133 |
| 726203 | Calibration tool Tube opener | 31 |
| 726001 | Color coding caps, 5 pcs | 22 |

Pre-Delivery Calibration Certificates

| | | |
|---------|---|-----|
| 84JOP04 | Single Channel 5.3 Calibration Electronic Pipette | 65 |
| 84JOP05 | (8) Channel 5.3 Calibration Electronic Pipette | 101 |
| 84JOP12 | (12) Channel 5.3 Calibration Electronic Pipette | 126 |

Extended Warranty

| | | |
|---------|---|-----|
| 84WAP04 | 12 months Electronic Single Channel Pipette | 179 |
| 84WAP05 | 12 months Electronic (8) Channel Pipette | 270 |
| 84WAP12 | 12 months Electronic (12) Channel Pipette | 320 |

Charging stands include universal AC-adaptor (EU, UK, US | JPN and CHN plugs)



Carousel Stand

Biotrate Digital Burette

Biotrate Premium Digital Burette for Convenient Titration

Sartorius Biotrate is a premium digital burette equipped with sophisticated functions for easy titration. Biotrate offers high chemical resistance and it is a smart solution for titrating various liquids accurately and safely. Biotrate is easy and convenient to use, with its large and clear electronic display, smooth operating wheels, and 360° rotating dispensing.



Features

- Extremely high chemical resistance
- Smooth and light to operate with soft touch operating wheels
- Media recirculation system that allows unused media to be recovered from the device and returned to the bottle
- 360° rotating dispensing head
- Universal connector at the back of the unit for drying tubes and filters
- Easy to attach aspiration tube with a secure threaded connection
- Easily replaceable valves
- Supplied with UV-protected replacement window for protection of light-sensitive media
- Long-life CR2032 battery
- Easy custom adjustment for various liquids
- Wide range of accessories
- Autoclavable liquid pathway

Benefits

- Titration is convenient and more accurate, due to the electronic measurement system
- The exact amount of the titrated liquid can be seen on the display
- Setting up the system is quick and it is easy to carry out a titration series with Biotrate's enabling ergonomic and light tip attachment and ejection

Specifications & Pricing

| Model No. | Nominal Volume (ml) | Reliability (ml) | Test Volume (ml) | Systematic Error (%)* | Systematic Error (ml)* | Random Error (%)* | Random Error (ml)* | US List Price (\$) |
|-----------|---------------------|------------------|------------------|-----------------------|------------------------|-------------------|--------------------|--------------------|
| LH-723080 | 10 | 0.1 | 10 | 0.3 | 0.03 | 0.1 | 0.01 | 1,225 |
| LH-723081 | 20 | 0.1 | 20 | 0.2 | 0.04 | 0.1 | 0.02 | 1,225 |
| LH-723082 | 50 | 0.1 | 50 | 0.2 | 0.10 | 0.1 | 0.05 | 1,225 |

* The listed systematic and random error values can be achieved under strictly controlled conditions during type tests as per ISO 8655. Due to our continuous product development, the systematic and random error values may change without prior notice.

Common Specifications

| | |
|---------------------------------|--|
| Weight | 844 g (20 ml) |
| Length | 260 mm (20 ml) |
| Autoclavability | Autoclavable liquid pathway (121°C, 20 min, 1 bar/100 kPa) |
| Threaded bottle fitting | A45 |
| Bottle adapters included | A32, A38, S40 |
| Battery | CR2032 |

Limitations The accuracy and precision values are valid under the controlled conditions described in ISO 8655. Test temperature: +15°C to +30°C +/-0,5°C Relative humidity: >50%

Prospenser & Prospenser Plus Bottle-top Dispensers

Safe, Convenient & Customizable

Prospenser and Prospenser Plus are premium bottle-top dispensers available in volume ranges from 0.2 to 60 ml. These high quality bottle-top dispensers with excellent chemical resistance are perfect for a wide range of dispensing needs.



Features

- Extremely high chemical and thermal resistance due to ceramic piston, glass cylinder, and highly resistant fluoroplastic parts
- Incremental volume setting ensures accurate and repeatable results
- Smooth and light to operate
- Easy to attach aspiration tube with a secure threaded connection
- User-replaceable valves
- Wide range of accessories
- Fully autoclavable
- Universal connector at back of unit for drying tubes and filter

Prospenser Plus Advanced Features

- Media recirculation system that allows unused media to be recovered from the device and returned to the bottle
- 360° rotating dispensing head
- Universal connector at the back of the unit for drying tubes and filters

Specifications & Pricing

| Model No. | Volume Range (ml) | Increment (ml) | Test Volume (ml) | Systematic Error (%)* | Systematic Error (ml)* | Random Error (%)* | Random Error (ml)* | US List Price (\$) |
|---------------------------------|--|----------------|------------------|-----------------------|------------------------|-------------------|--------------------|--------------------|
| Prospenser Models | | | | | | | | |
| LH-723060 | 0.2-1 | 0.05 | 1 | 0.6 | 0.006 | 0.2 | 0.002 | 500 |
| LH-723061 | 0.4-2 | 0.05 | 2 | 0.6 | 0.012 | 0.2 | 0.004 | 500 |
| LH-723062 | 1-5 | 0.10 | 5 | 0.6 | 0.03 | 0.2 | 0.01 | 500 |
| LH-723063 | 2-10 | 0.25 | 10 | 0.6 | 0.06 | 0.2 | 0.02 | 500 |
| LH-723064 | 5-30 | 0.50 | 30 | 0.6 | 0.18 | 0.2 | 0.06 | 570 |
| LH-723065 | 10-60 | 1.00 | 60 | 0.6 | 0.36 | 0.2 | 0.02 | 660 |
| Prospenser Plus Models | | | | | | | | |
| LH-723070 | 0.2-1 | 0.05 | 1 | 0.6 | 0.006 | 0.2 | 0.002 | 545 |
| LH-723071 | 0.4-2 | 0.05 | 2 | 0.6 | 0.012 | 0.2 | 0.004 | 545 |
| LH-723072 | 1-5 | 0.10 | 5 | 0.6 | 0.03 | 0.2 | 0.01 | 545 |
| LH-723073 | 2-10 | 0.25 | 10 | 0.6 | 0.06 | 0.2 | 0.02 | 545 |
| LH-723074 | 5-30 | 0.50 | 30 | 0.6 | 0.18 | 0.2 | 0.06 | 640 |
| LH-723075 | 10-60 | 1.00 | 60 | 0.6 | 0.36 | 0.2 | 0.02 | 685 |
| Common Specifications | | | | | | | | |
| Weight | 200 g (5 ml, Prospenser) 388 g (5 ml, Prospenser Plus) | | | | | | | |
| Length | 143 mm (5 ml, Prospenser) 175 mm (5 ml, Prospenser Plus) | | | | | | | |
| Autoclavability | Fully autoclavable (121°C, 20 min, 1 bar/100 kPa) | | | | | | | |
| Threaded bottle fitting | A32 (Prospenser) A45 (Prospenser Plus) | | | | | | | |
| Bottle adapters included | A28, S40, A45 (Prospenser) A32, A38, S40 (Prospenser Plus) | | | | | | | |

* The listed systematic and random error values can be achieved under strictly controlled conditions during type tests as per ISO 8655. Due to our continuous product development, the systematic and random error values may change without prior notice.

Biotrate & Prospenser Accessories

| Model No. | Description | Material | For Use With: | US List Price (\$) |
|-----------|---|----------|--|--------------------|
| LH-721647 | Discharge unit | FEP | Prospenser Plus, Biotrate | 37 |
| LH-721648 | Discharge unit, flexible spiral 1m, 1,5mm, fine tip | FEP | Prospenser Plus, Biotrate | 101 |
| LH-721649 | Discharge unit, flexible spiral 1m, 3,0mm | FEP | Prospenser Plus, Biotrate | 101 |
| LH-721650 | Discharge unit for titration | FEP | Titrisart | 37 |
| LH-721651 | Discharge unit for titration, with fine tip | FEP | Titrisart | 50 |
| LH-721652 | Discharge unit for titration, adjustable 0,4m | FEP | Titrisart | 66 |
| LH-721653 | Discharge unit with Luer lock connection | FEP/PP | Prospenser Plus, Biotrate | 96 |
| LH-721654 | Discharge unit with Luer lock connection | FEP/PFA | Prospenser Plus, Biotrate | 134 |
| LH-721655 | Discharge unit | FEP | Prospenser 1, 2, 5 & 10ml models | 14 |
| LH-721656 | Discharge unit | FEP | Prospenser 30 & 60ml models | 35 |
| LH-721657 | Discharge unit, flexible spiral 1m | FEP | Prospenser 1, 2, 5 & 10ml models | 96 |
| LH-721658 | Discharge unit, flexible spiral 1m | FEP | Prospenser 30 & 60ml models | 101 |
| LH-721659 | Discharge unit with Luer lock connection | FEP/PP | Prospenser 30 & 60ml models | 96 |
| LH-721660 | Discharge unit with Luer lock connection | FEP/PFA | Prospenser 30 & 60ml models | 96 |
| LH-721678 | Suction unit, 310mm - aspiration tube | FEP | Prospenser Plus, Prospenser 30 & 60ml models, Biotrate | 15 |
| LH-721679 | Suction unit, 400mm - aspiration tube | FEP | Prospenser Plus, Prospenser 30 & 60ml models, Biotrate | 19 |
| LH-721680 | Suction unit, 310mm - aspiration tube | FEP | Prospenser 1, 2, 5 & 10ml models | 15 |
| LH-721681 | Suction unit, 400mm - aspiration tube | FEP | Prospenser 1, 2, 5 & 10ml models | 19 |
| LH-721682 | Recirculation unit, 70mm | FEP | Prospenser Plus, Biotrate | 8 |
| LH-721683 | Thread adapter, A32 | PP | Prospenser Plus, Biotrate | 16 |
| LH-721684 | Thread adapter, A28 | PP | Prospenser Plus, Biotrate | 16 |
| LH-721685 | Thread adapter, A38/430 | PP | Prospenser Plus, Biotrate | 16 |
| LH-721686 | Thread adapter, A38 | PP | Prospenser Plus, Biotrate | 16 |
| LH-721687 | Thread adapter, S40 | PP | Prospenser Plus, Biotrate | 16 |
| LH-721688 | Thread adapter, A32 | ETFE | Prospenser Plus, Biotrate | 30 |
| LH-721689 | Thread adapter, A28 | ETFE | Prospenser Plus, Biotrate | 30 |
| LH-721732 | Thread adapter, A38/430 | ETFE | Prospenser Plus, Biotrate | 30 |
| LH-721733 | Thread adapter, A38 | ETFE | Prospenser Plus, Biotrate | 30 |
| LH-721734 | Thread adapter, S40 | ETFE | Prospenser Plus, Biotrate | 30 |
| LH-721735 | Thread adapter, NS29/32 | Silicone | Prospenser Plus, Biotrate | 39 |
| LH-721736 | Thread adapter, A25 | PP | Prospenser | 13 |
| LH-721737 | Thread adapter, A28 | PP | Prospenser | 13 |
| LH-721738 | Thread adapter, A38 | PP | Prospenser | 13 |
| LH-721739 | Thread adapter, A45 | PP | Prospenser | 13 |
| LH-721740 | Thread adapter, S40 | PP | Prospenser | 13 |
| LH-721741 | Thread adapter, A45 | ETFE | Prospenser | 30 |
| LH-721742 | Thread adapter, S40 | ETFE | Prospenser | 30 |
| LH-721743 | Bottle support, for bottles 75 - 120mm | - | Biotrate | 163 |
| LH-721744 | Light protection window for sensitive media, brown | - | Biotrate | 20 |

Midi Plus™

Easy and Ergonomic Large-volume Pipetting

Midi Plus™ is a light-weight electronic pipette controller, which allows easy liquid aspiration from bottles and large tubes. Its ergonomic design helps to minimize the need for arm and hand raises that are often required while using serological or volumetric pipettes. In addition the electronic operation of Midi Plus™ reduces the need for finger force compared to a pipette-filler with a squeezable bulb. These qualities ease the workload during long periods of pipetting and protect you from repetitive strain injury (RSI).



Features & Benefits

Ergonomic Design Protects You From RSI (Repetitive Strain Injury)

- The ergonomic design helps to minimize the need for arm and hand raises that are often required while using serological or volumetric pipettes.
- The electronic operation reduces the needed finger force compared to a pipette-filler with a squeezable bulb

Stepless Speed Control for Accurate Dispensing

- Aspiration and dispensing speeds can easily be controlled by using the adjustment wheel or by adjusting finger pressure on the operating buttons
- The speed can be selected according to your application and pipette volume
- Possibility to dispense by the force of gravity for slow, drop-by-drop dispensing. Just by applying a very small force on the dispensing button
- Direct charging cable enables operation while charging

Compatible with a Wide Range of Pipettes and Tips

- Compatible with commonly used glass or plastic pipettes in the 1–100 ml volume range
- Compatible also with Sartorius 5 ml and 10 ml Optifit Tips that can be used when accuracy is not essential

Hydrophobic Filters Prevent Over-Aspiration

- The hydrophobic Sartorius filter prevents over-aspiration, which prevents the pipette controller from contamination
- Filters are available as sterile and non-sterile, to match your purity requirements

Applications

- Cell culture
- Liquid preparation in large volumes

Midi Plus™ & Accessories – Specifications & Pricing

| Item | Description | US List Price (\$) |
|------------|---|--------------------|
| 710931 | Midi Plus™ w/stand | 395 |
| LH-7129120 | Replacement filter, 0.45 µm, non-sterile, autoclavable, 5 pcs | 89 |
| LH-7129130 | Replacement filter, 0.2 µm, sterile, 5 pcs | 93 |
| LH-711019 | Adapter set (standard) including nose-cone and the silicone adapter | 95 |
| LH-711017 | Adapter set for 5 ml pipette tip, autoclavable, including nose-cone and the silicone adapter | 95 |
| LH-711018 | Adapter set for 10 ml pipette tip, autoclavable, including nose-cone and the silicone adapter | 95 |
| 780300 | Optifit Tip 5 ml, 100 pcs | 28 |
| 780308 | Optifit Tip 5 ml, 1000 pcs | 155 |
| 780310 | Optifit Tip 10 ml (extra long tip for Midi Plus), 100 pcs | 60 |

Centrisart® A-14 and A-14C

Micro-Centrifuge

The high-performance, space-saving Centrisart® A-14 micro-centrifuge features an extremely compact footprint. With a top speed of 14,800 rpm and a capacity of 12 × 2 ml reaction vials, this micro-centrifuge is ideally suited for applications in molecular biology ranging from DNA, RNA and protein isolation to PCR. With the oversized control keys and a large display, the centrifuge is easy and convenient to operate. The centrifuge is also available in a refrigerated model, the Centrisart® A-14C.



Features & Benefits

Space-saving design

Easily set up the centrifuge on any laboratory bench top for easy sample loading and unloading.

Very quiet

Extremely low noise level ensures a pleasant working atmosphere.

Special rotor

Specifically designed to support Vivaspin® 500 vials.

Highest safety standards

Secure lid that electronically locks and rotor cover caps that protect against aerosol emissions.

Applications

- Antibody solutions
- Sample deionization
- Buffer adjustment
- Removal of contaminants with small or very large molecular weights

Specifications & Pricing

| Model | Description | Max Speed (rpm) | Max Capacity | Max (g) Force | Refrigeration | US List Price (\$) |
|---------------|--|-----------------|--------------|---------------|---------------|--------------------|
| A-14-1US | Centrifuge 100-120V 50/60Hz | 14,800 | 12 x 1.5-2ml | 16,162 | No | 1,795 |
| A-14-1US-SET | Centrifuge 100-120V 50/60Hz & YCSR-A1C | 14,800 | 12 x 1.5-2ml | 16,162 | No | 2,390 |
| A-14C-1US | Centrifuge with cooling 100-120V 50/60Hz | 15,000 | 24 x 1.5-2ml | 16,602 | Yes | 5,300 |
| A-14C-1US-SET | Centrifuge with cooling 100 – 120 V & YCSR-A1C | 15,000 | 24 x 1.5-2ml | 16,602 | Yes | 5,690 |



Centrisart® D-16C

Refrigerated All Purpose Benchtop Centrifuge

The Centrisart® D-16C is a universal benchtop centrifuge with a mid-sized capacity of 400 ml. This compact, refrigerated centrifuge has a small footprint and features designed for a versatile range of lab applications. An option permitting a high speed of 15,300 rpm makes it useful for molecular biology applications. An ergonomic design, easy to read display and low noise level simplify sample loading and unloading, ensure convenient operation and provide a quiet work environment.



Features & Benefits

High-capacity centrifuge

Specifically developed for a flexible range of applications.

Gradual deceleration and acceleration curve

Prevents samples from churning and mixing, permitting gentle separation of sensitive material.

High cooling efficiency

Strong compressor supplies fast cooling of samples and protects them from heat.

Highest safety standards

Secure lid that electronically locks and rotor cover caps that protect against aerosol emissions.

Applications

- Low-speed applications requiring gentle handling of cells | sensitive samples
- Tissue and cell processing
- High-throughput DNA isolation
- Ultrafiltration
- Microtiter plates

Specifications & Pricing

| Model | Description | Max Speed (rpm) | Max Capacity | Max (g) Force | Refrigeration | US List Price (\$) |
|-----------|--|-----------------|--------------|---------------|---------------|--------------------|
| D-16C-1US | Centrifuge with cooling 100-120V 50/60Hz | 15,300 | 4 x 100ml | 21,913 g | Yes | 6,995 |

Centrisart® G-16 and G-16C

All Purpose Benchtop Centrifuge

The Centrisart® G-16 benchtop centrifuge was specifically developed for high-capacity applications. It features an option for a high speed of 15,300 rpm, making it useful for molecular biology applications. The low profile allows the unit to fit on nearly any laboratory benchtop while the damping system ensures quiet operation. Rotor options are available to accommodate various vessel types and low or high throughput applications. The Centrisart G-16C model also offers refrigeration.



Features & Benefits

High-capacity centrifuge

Easily set up the centrifuge on any laboratory bench top for easy sample loading and unloading.

Variety of rotor options

Accommodates a variety of vessel types for low to high throughput applications.

Large program memory

Options for storing and retrieving several programs at any time.

Gradual deceleration and acceleration curve

Prevents samples from churning and mixing, permitting gentle separation of sensitive material.

High cooling efficiency

Strong compressor supplies fast cooling of samples and protects them from heat allowing flexible range of application.

Highest safety standards

Secure lid that electronically locks and rotor cover caps that protect against aerosol emissions.

Specifications & Pricing

| Model | Description | Max Speed (rpm) | Max Capacity | Max (g) Force | Refrigeration | US List Price (\$) |
|-----------|--|-----------------|--------------|---------------|---------------|--------------------|
| G-16-1US | Centrifuge 100-120V 50/60Hz | 15,300 | 4 x 400ml | 21,460 | No | 6,045 |
| G-16C-1US | Centrifuge with cooling 100-120V 50/60Hz | 15,300 | 4 x 400ml | 21,460 | Yes | 8,480 |

Applications (Centrisart® G-16)

- Phase separation of solutions
- Milk or lipoprotein assays
- PCR
- Separation of nanomaterials

Applications (Centrisart® G-16C)

- Cell harvesting in cell culture or fermentation applications
- Protein isolation and purification
- Ultrafiltration
- Molecular biology
- PCR
- Food technology



Centrisart® G-16



Centrisart® G-16C

Centrisart® G-26C

Universal High-Speed Centrifuge

With a maximum gravitational force of up to 62,000 g, the high-speed, refrigerated Centrisart® G-26C is ideally suited for high speed applications. A low profile allows the unit to fit on nearly any laboratory benchtop while a damping system ensures quiet operation. Rotor options are available to accommodate various vessel types and low to high throughput applications.



Features & Benefits

Ultra high-speed centrifuge

Ideally suited for high-speed applications involving separation and sedimentation of homogeneous materials and solutions.

Variety of rotor options

Accommodates a variety of vessel types for low to high throughput applications.

Large program memory

Options for storing and retrieving several programs at any time.

Gradual deceleration and acceleration curve

Prevents samples from churning and mixing, permitting gentle separation of sensitive material.

High cooling efficiency

Strong compressor supplies fast cooling of samples and protects them from heat.

Highest safety standards

Secure lid that electronically locks and rotor cover caps that protect against aerosol emissions.

Applications

- Virus isolation
- Isolation of organelles or membranes
- Precipitation of proteins
- Purification in molecular biology
- Ultrafiltration



Centrifuges | aCentrisart® G-16 B G-16C

Specifications & Pricing

| Model | Description | Max Speed (rpm) | Max Capacity | Max (g) Force | Refrigeration | US List Price (\$) |
|--------------|---|-----------------|--------------|---------------|---------------|--------------------|
| G-26C-1US-2P | Centrifuge with cooling 208 V 60 Hz, 2 Phases | 26,000 | 6 x 85ml | 61,973 | Yes | 16,975 |

Centrisart® Accessories

| Item | Description | US List Price (\$) | A-14 | A-14C | D-16C | G-16 | G-16C | G-26C |
|---|--|--------------------|------|-------|-------|------|-------|-------|
| Rotors, Fixed Angle and Swinging | | | | | | | | |
| YCSR-A1C | Fixed angle rotor made of polypropylene for 12 × 1.5 2.0 ml conical reaction tubes or 12 × Vivaspin® 500, incl. polysulfone lid YCSM-A1C | 460 | ✓ | ✓ | | | | |
| YCSR-A2B | Fixed angle rotor for 24 × 1.5 2.0 ml conical reaction tubes, incl. polysulfone lid YCSM-A1B | 460 | | ✓ | | | | |
| YCSR-A4B | Fixed angle rotor 24 × 1.5-2 ml reaction vials, include hermetic aluminum lid | 1,695 | | | ✓ | | | |
| YCSR-A9B | Fixed angle rotor for 6 × 50 ml culture tubes include hermetic aluminum lid | 2,380 | | | ✓ | | | |
| YCSR-S1B | Swinging rotor, 4 inserts, for buckets YCSB-B9B | 1,450 | | | ✓ | | | |
| YCSR-S5B | Complete set – Swinging rotor, 2 place, for microtiter plates, including 2 buckets YCSA-S5B for microtiter plates. Max. plate height 56 mm; max. load per bucket 335 g | 2,770 | | | ✓ | | | |
| YCSR-A5B | Fixed angle rotor for 6 × 50 ml round bottom culture tubes (d 28.8 × 107 mm), incl. hermetically sealing aluminium lid | 2,760 | | | | ✓ | ✓ | ✓ |
| YCSR-A6B | Fixed angle rotor for 24 × 1.5 2.0 ml conical reaction tubes, incl. hermetically sealing aluminium lid | 1,695 | | | | ✓ | ✓ | ✓ |
| YCSR-A7B | Fixed angle rotor for 4 × 80 85 ml round bottom culture tubes (d 38 × 112 mm), incl. hermetically sealing aluminium lid | 2,770 | | | | ✓ | ✓ | ✓ |
| YCSR-A8B | Fixed angle rotor for 6 × 85 ml round bottom culture tubes (d 38 × 112 mm), incl. hermetically sealing aluminium lid | 3,185 | | | | ✓ | ✓ | ✓ |
| YCSR-A0B | Fixed angle rotor for 6 × 50 ml conical culture tubes, incl. hermetically sealing aluminium lid | 2,760 | | | | ✓ | ✓ | ✓ |
| YCSR-S2B | Swinging rotor, 4 inserts, for buckets YCSB-B8B | 1,450 | | | | ✓ | ✓ | |
| YCSR-S6B | Complete set – Swinging rotor, 2 place, for microtiter plates, including 2 buckets YCSA-S6B for microtiter plates and lids YCSM-B1C. Max. plate height 55 mm; max. load per bucket 290 g | 3,380 | | | | ✓ | ✓ | |
| YCSR-S3B | Swinging rotor, 4 inserts, for buckets YCSB-B9B | 1,735 | | | | | | ✓ |
| Buckets and Adapters | | | | | | | | |
| YCSB-B9B | Round bucket for swinging rotor YCSR-S1B, sealable with cap, 1 set = 2 pcs. | 540 | | | ✓ | | | ✓ |
| YCSM-B9B | Round polysulfone sealing cap for round bucket YCSB-B9B, clear, 1 set = 2 pcs. | 130 | | | ✓ | | | ✓ |
| YCSA-RDB | Rubber cushion for YCSB-B9B for 100 ml glass tube, 1 set = 2 pcs. | 22 | | | ✓ | | | ✓ |
| YCSA-RAB | Adapter for YCSB-B9B for 4 conical reaction tubes 1.5 2.0 ml, max. d 11 mm, 1 set = 2 pcs. | 184 | | | ✓ | | | ✓ |
| YCSA-R0B | Adapter for YCSB-B9B for 2 conical culture tubes 15 ml, lid max. d 23 mm, 1 set = 2 pcs. | 184 | | | ✓ | | | ✓ |
| YCSA-R9B | Adapter for YCSB-B9B for 1 conical culture tube 50 ml, 1 set = 2 pcs. | 184 | | | ✓ | | | ✓ |
| YCSA-RBB | Adapter for YCSB-B9B for 1 flat bottom culture tube 30 ml, d 25 31 + 65 - 95 mm, 1 set = 2 pcs. | 184 | | | ✓ | | | ✓ |
| YCSA-RCB | Adapter for YCSB-B9B for 3 conical reaction tubes 5.0 ml, 1 set = 2 pcs. | 184 | | | ✓ | | | ✓ |
| YCSB-B8B | Round bucket for adapters YCSA-C2B – YCSA-C8B, sealable with lid YCSM-B8B (max. tube length 110 mm), 1 set = 2 pcs. | 1,145 | | | | | | |
| YCSM-B8B | Round locking cap for buckets YCSB-B8B | 260 | | | | ✓ | ✓ | |
| YCSA-C2B | Adapter for YCSB-B8B for 10 conical reaction tubes 5.0 ml, 1 set = 2 pcs. | 345 | | | | ✓ | ✓ | |
| YCSA-C3B | Adapter for YCSB-B8B for 5 conical culture tubes 15 ml, lid max. d 23 mm, 1 set = 2 pcs. | 345 | | | | ✓ | ✓ | |
| YCSA-C4B | Adapter for YCSB-B8B for 3 conical culture tubes 50 ml, 1 set = 2 pcs. | 345 | | | | ✓ | ✓ | |
| YCSA-C5B | Adapter for YCSB-B8B for 1 flat bottom bottle 250 ml, max. d 61.5 + 90 - 125 mm, 1 set = 2 pcs. | 345 | | | | ✓ | ✓ | |
| YCSA-C6B | Adapter for YCSB-B8B for 20 conical reaction tubes 1.5 2.0 ml, max. d 11 mm, 1 set = 2 pcs. | 345 | | | | ✓ | ✓ | |
| YCSA-C7B | Adapter for YCSB-B8B for 9 conical culture tubes 15 ml, lid max. d 23 mm, 1 set = 2 pcs. (not usable with cap YCSM-B8B) | 345 | | | | ✓ | ✓ | |
| YCSA-C8B | Adapter for YCSB-B8B for 4 conical culture tubes 50 ml, 1 set = 2 pcs. (not usable with cap YCSM-B8B) | 345 | | | | ✓ | ✓ | |

| Item | Description | US List Price (\$) | A-14 | A-14C | D-16C | G-16 | G-16C | G-26C |
|-------------------------------------|---|--------------------|------|-------|-------|------|-------|-------|
| Buckets and Adapters (con't) | | | | | | | | |
| YCSA-1 | Adapter for 0.25 0.4 ml reaction tubes for rotors YCSR-A2B, YCSR-A4B and YCSR-A6B, 1 set = 2 pcs. | 22 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| YCSA-2 | Adapter for 0.5 0.75 ml reaction tubes d 7.9 10 × 28 31 mm for rotors YCSR-A2B, YCSR-A4B and YCSR-A6B, 1 set = 2 pcs. | 22 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| YCSA-3 | Adapter for > 20,000 g for 1.5 ml reaction tubes in rotor YCSR-A6B, 1 set = 2 pcs. | 22 | | | | | | ✓ |
| YCSA-4 | Adapter for 0.2 ml PCR reaction tubes for rotors YCSR-A2B, YCSR-A4B and YCSR-A6B, 1 set = 2 pcs. | 22 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| YCSA-5 | Adapter for 1 conical culture tube 15 ml for rotor YCSR-A9B and YCSR-A0B, 1 set = 2 pcs. | 108 | | | ✓ | ✓ | ✓ | ✓ |
| Tables | | | | | | | | |
| YCST-D16C | Table for centrifuge made of sheet-steel, varnished, with 2 doors and space for accessories, movable on lockable castors (W × D × H = 550 × 600 × 497 mm) | 2,555 | | | ✓ | | | |
| YCST-G16 | Table for centrifuge made of sheet-steel, varnished, with 2 doors and space for accessories, movable on lockable castors (W × D × H = 490 × 684 × 515 mm) | 2,555 | | | | ✓ | | |
| YCST-G16C | Table for centrifuge made of sheet-steel, varnished, with 2 doors and space for accessories, movable on lockable castors (W × D × H = 650 × 647 × 496 mm) | 2,555 | | | | | ✓ | |
| YCST-G26C | Table for centrifuge made of sheet-steel, varnished, with 2 doors and space for accessories, movable on lockable castors (W × D × H = 570 × 616 × 481 mm) | 2,555 | | | | | | ✓ |
| Services | | | | | | | | |
| 84ICM06 | Installation | 1,000 | ✓ | ✓ | | | | |
| 84ICM08 | Installation | 1,185 | | | ✓ | | ✓ | |
| 84ICM07 | Installation | 1,110 | | | | ✓ | | |
| 84ICM09 | Installation | 1,185 | | | | | | ✓ |
| 84CUME | Temperature Calibration | 194 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 84CUMD | Speed Time Calibration | 78 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 84QAM06 | Device Qualification (IQ OQ) | 2,765 | ✓ | ✓ | | | | |
| 84QAM08 | Device Qualification (IQ OQ) | 2,765 | | | ✓ | | ✓ | |
| 84QAM07 | Device Qualification (IQ OQ) | 2,765 | | | | ✓ | | |
| 84QAM09 | Device Qualification (IQ OQ) | 2,765 | | | | | | ✓ |
| 84MBM06 | Preventive Maintenance | 245 | ✓ | ✓ | | | | |
| 84MBM08 | Preventive Maintenance | 475 | | | ✓ | | ✓ | |
| 84MBM07 | Preventive Maintenance | 390 | | | | ✓ | | |
| 84MBM09 | Preventive Maintenance | 475 | | | | | | ✓ |

arium® pro Ultrapure Water Systems

arium® pro for Highest Consistent Water Quality

arium® pro ultrapure water systems meet and exceed ASTM Type 1 water quality at unmatched cost of ownership for any application. Available in a choice of different modular systems, it offers the widest selection of features and options for customized configuration. The glass display with touch-activated functions and intuitive menu navigation ensures error-free operation, even while you are wearing gloves.



Features & Benefits

Five Systems to Choose

Allows to configure the system by application for individual needs.

Optimized Components and Cartridge Materials

Guarantees a long service life and maximize water purification.

High Efficiency UV Lamp (185/254 nm) & TOC Monitoring

Eliminates bacteria and organics for reliable high water quality and reproducible results.

Display with Touch-Function and Intuitive Menu Navigation

Ensures an easy operation in any situation even with gloves.

Integrated Real Time Monitoring

Allows to control water quality without extra costs for reproducible results.

High System Flexibility

Saves maximum space in limited lab environments and ensures optimal operation at eye level.

Applications

- HPLC
- GC-MS, AAS, ICP-MS
- Ion chromatography
- TOC analysis
- PCR
- Electrophoresis
- Endotoxin analysis
- Immunocytochemistry
- Nutrient media for cell culture
- Production of monoclonal antibodies
- Photometry



arium® pro – Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|--|------|--|--------------------|
| arium® pro DI and pro systems for producing ASTM Type 1 ultrapure water | | | |
| Equipment supplied: 1 arium® pro and Connection Set | | | |
| H2Obasic-T | 1 | pro Bench-Top System* | 4,545 |
| H2Obasic-B | 1 | pro Wall-Mounted System incl. Wall Bracket for the system* | 4,545 |
| H2Opro-DI-T | 1 | pro DI Bench-Top System | 6,140 |
| H2Opro-DI-B | 1 | pro DI Wall-Mounted System incl. Wall Bracket for the system | 6,140 |
| arium® pro UF systems for producing ASTM Type 1 ultrapure water | | | |
| Equipment supplied: 1 arium® pro with Ultrafilter and Connection Set | | | |
| H2Opro-UF-T | 1 | pro UF Bench-Top System, incl. Ultrafilter | 7,165 |
| H2Opro-UF-B | 1 | pro UF Wall-Mounted System incl. wall bracket for the system and Ultrafilter | 7,165 |
| arium® pro UV systems for producing ASTM Type 1 ultrapure water | | | |
| Equipment supplied: 1 arium® pro with UV Lamp (185 254 nm) and Connection Set | | | |
| H2Opro-UV-T | 1 | pro UV Bench-Top System, incl. UV Lamp | 7,470 |
| H2Opro-UV-T-TOC | 1 | pro UV Bench-Top System, incl. UV Lamp and TOC Monitor | 8,940 |
| H2Opro-UV-B | 1 | pro UV Wall-Mounted System incl. Wall Bracket for the system and UV Lamp | 7,470 |
| H2Opro-UV-B-TOC | 1 | pro UV Wall-Mounted System incl. Wall Bracket for the system, UV Lamp and TOC Monitor | 8,940 |
| arium® pro VF systems for producing ASTM Type 1 ultrapure water | | | |
| Equipment supplied: 1 arium® pro with UV lamp (185 254 nm), Ultrafilter and Connection Set | | | |
| H2Opro-VF-T | 1 | pro VF Bench-Top System, incl. UV Lamp and Ultrafilter | 8,295 |
| H2Opro-VF-T-TOC | 1 | pro VF Bench-Top System, incl. UV Lamp, Ultrafilter and TOC Monitor | 9,460 |
| H2Opro-VF-B | 1 | pro VF Wall-Mounted System incl. Wall Bracket for the system, UV Lamp and Ultrafilter | 8,295 |
| H2Opro-VF-B-TOC | 1 | pro VF Wall-Mounted System incl. Wall Bracket for the system, UV Lamp, Ultrafilter and TOC Monitor | 9,650 |

Consumables

UV lamps and Ultrafilters are included with new systems where appropriate

| Model | Qty. | Description | Maintenance Interval | US List Price (\$) |
|---------------|------|---|----------------------|--------------------|
| H2O-A-PACK | 1 | Analytical Kit for arium® pro VF & pro UV Ultrapure Water Systems | as needed or 1 yr. | 875 |
| H2O-B-PACK | 1 | Biological Kit for arium® pro UF Ultrapure Water Systems | as needed or 1 yr. | 865 |
| H2O-E-PACK | 1 | Elemental Kit for arium® basic & pro DI Ultrapure Water Systems | as needed or 1 yr. | 865 |
| H2O-U-PACK | 1 | Universal Kit for arium® Ultrapure Water Systems with Tap Water Feed | as needed or 1 yr. | 555 |
| 5441307H4--CE | 1 | Sterile Final Filter | 30 days | 118 |
| 611CDU5 | 1 | Ultrafilter | 1 year | 1,205 |
| 611CEL1 | 1 | UV Lamp | 1 year | 240 |
| 611CDS1 | | Sanitation Syringe. Please contact Technical Services at LPS.techsupport.NA@sartorius.com. This item has been discontinued. | | |

Accessories

| Model | Qty. | Description | US List Price (\$) |
|---------------|------|---|--------------------|
| H2Opro-AMDG1 | 1 | arium® Dispense Gun incl. Height-Adjustable Stand | 1,165 |
| H2Opro-AMDG2 | 1 | arium® Dispense Gun incl. Wall Mounting Kit | 715 |
| H2Opro-ADM1 | 1 | arium® Display Mounting Kit for arium® Built-In System | 790 |
| H2O-ADD | 1 | arium® Multifunction Stand for arium® Built-In Systems | 1,410 |
| H2O-AFS1 | 1 | Footswitch for External Control of the Time Volume Dispense | 330 |
| 610AWG1 | 1 | Water Guard | 445 |
| H2O-ACK-D | 1 | Conversion Kit for Below Bench Mounting or Remote Displays. | 700 |
| YDP30 | 1 | Premium GLP lab printer (paper not included) | 1,485 |
| 69Y03285 | 1 | Printer paper for YDP30 (ink ribbon set for GLP) | 70 |
| 69Y03287 | 5 | Standard thermal paper rolls for YDP30 | 32 |
| SB-12-01-0250 | 1 | Connection cable YDP30 to arium® | 117 |

*No volumetric dispensing and can not connect to a dispense gun
For extended warranty and service options, please see page 196.

arium® Type 2 Pure Water Systems

arium® advance EDI the Ultimate Reliable Type 2 Pure Water System

First-class Type II water: The arium® advance EDI Type 2 water system features the highest ion retention at production rates of up to 10 l/h. Directly from potable feed water source, the system produces the pure water at consistent highest quality at values of 5 to 15 Ω .cm. Its proprietary, unique EDI technology combined with the innovative iJust function optimizes your water consumption and ensures a time and labor-saving operation over long periods.



Features & Benefits

Unique EDI Technology

Ensures reliably, high Type 2 water quality for consistent analytical results.

iJust

Optimizes product water quality and water consumption based on the individual feed water condition.

arium® bagtank

Saves maintenance time and avoids handling with chemical cleaning agents for safe and secure daily operation.

First-Rate RO Module Equipment

Reduces investment costs and saves time for fast and easy installation.

High System Flexibility

Saves maximum space in limited lab environments and ensures optimal operation at eye level.

Visual SOP Monitoring

Always allows an easy and safe operation by displaying all important information at a glance.

Display with Touch-Function and Intuitive Menu Navigation

Ensures an easy operation in any situation even with gloves.

Applications

- Microbiological media and reagents
- Solutions for chemical analysis and synthesis
- Histology
- ELISA, RIA
- Buffers and pH solutions
- Feed water for laboratory devices, such as autoclaves, glassware washers, humidifiers, water baths, etc.



arium® EDI



arium® advance EDI –Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|---|------|--|--------------------|
| arium® advance EDI for Producing Type 2 Pure Water | | | |
| Equipment supplied: 1 arium® advance EDI, RO module(s) (reverse osmosis) and Connection Set | | | |
| H2O-EDI-1-T | 1 | advance EDI Benchtop System, Type 2 Product Water Flow Rate 5 l/h | 6,330 |
| H2O-EDI-1-B | 1 | advance EDI Wall-Mounted System, incl. Wall Bracket, Type 2 Water Flow Rate 5 l/h | 6,330 |
| H2O-EDI-2-T | 1 | advance EDI Bench-Top System, Type 2 Product Water Flow Rate 10 l/h | 8,325 |
| H2O-EDI-2-B | 1 | advance EDI Wall-Mounted System, incl. Wall Bracket, Type 2 Product Water Flow Rate 10 l/h | 8,325 |

Consumables

RO modules are included with new systems

| Item | Qty. | Description | Maintenance Interval | US List Price (\$) |
|---------------|------|-------------------------------------|----------------------------------|--------------------|
| H2O-CPFAD-1 | 1 | Pre-Filter | 3 months | 360 |
| H2O-CRO-H-2 | 2 | RO Modules for advance EDI (10 l/h) | as needed or 2 yrs. | 1,590 |
| H2O-CRO-H-1 | 1 | RO Module for advance EDI (5 l/h) | as needed or 2 yrs. | 795 |
| H2O-CSO-1 | 1 | Softener Cartridges | 6 months | 89 |
| H2O-CCS | 1 | Cleaning Set | 3 months or iJust recommendation | 82 |
| H2O-CBS-20 | 2 | 20L bag for bagtank 20 | 6 months | 126 |
| H2O-CBS-50 | 2 | 50L bag for bagtank 50 & 100 | 6 months | 157 |
| 5441307H4--CE | 1 | Sterile Final Filter | 30 days | 118 |

Accessories

Don't forget to order a bag with the tank

| Item | Qty. | Description | US List Price (\$) |
|----------------|------|--|--------------------|
| H2O-AOV-20 | 1 | 20L bagtank (Pump not included) | 905 |
| H2O-ADP-20-US | 1 | Distribution Pump for 20 l bagtank, 115 VAC, 60 Hz | 405 |
| H2O-AOV-50-US | 1 | 50L bagtank incl. 115 VAC, 60 Hz Distribution Pump | 1,705 |
| H2O-AOV-100-US | 1 | 100L bagtank incl. 115 VAC, 60 Hz Distribution Pump | 2,085 |
| H2O-ATR | 4 | Rollers for bagtank 50L & 100L | 120 |
| H2O-ATB | 1 | Wall Bracket for bagtank 20L | 205 |
| 610AWG1 | 1 | Water Guard | 445 |
| 613-AMDG1 | 1 | Dispense Gun with Height Adjustable Stand | 1,055 |
| 613-AMDG2 | 1 | Dispense Gun with Wall Bracket | 570 |
| H2O-ACK-D | 1 | Conversion Kit for Below Bench Mounting or Remote Displays | 700 |

For extended warranty and service options, please see page 196.

arium® Type 3 Reverse Osmosis Pure Water Systems

First-class Type 3 Reverse Osmosis Water

arium® advance RO features the highest ion retention at production rates of up to 24 l/h. Directly connected to the potable feed water source, the system produces the pure water at highest quality. Its outstanding RO technology combined with the innovative iJust function optimizes your water consumption and ensures a time and labor-saving operation over long periods.



Features & Benefits

iJust

Optimizes product water quality and water consumption based on the individual feed water condition.

arium® bagtank

Saves maintenance time and avoids handling with chemical cleaning agents for safe and secure daily operation.

First-Rate RO Module Equipment

Reduces investment costs and saves time for fast and easy installation.

High System Flexibility

Saves maximum space in limited lab environments and ensures optimal operation at eye level.

Visual SOP Monitoring

Always allows an easy and safe operation by displaying all important information at a glance.

Display with Touch-Function and Intuitive Menu Navigation

Ensures an easy operation in any situation even with gloves.

Applications

- Feed water for ultrapure water systems
- Rinsing glassware and laboratory vessels
- Feed water for diverse laboratory, e.g. humidifiers, autoclaves and dishwasher



advance RO



arium® advance RO – Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|---|------|---|--------------------|
| arium® advance RO reverse osmosis system for producing type 3 pure water | | | |
| Equipment supplied: 1 arium® advance H2ORO, RO (reverse osmosis) module(s) and Connection Set | | | |
| H2O-RO-1-T | 1 | advance RO Bench-Top System, Type 3 Product Water Flow Rate, 8 l/h | 5,815 |
| H2O-RO-1-B | 1 | advance RO Wall-Mounted System, Type 3 Product Water Flow Rate 8 l/h | 5,815 |
| H2O-RO-2-T | 1 | advance RO Bench-Top System, Type 3 Product Water Flow Rate 16 l/h | 6,580 |
| H2O-RO-2-B | 1 | advance RO Wall-Mounted System, incl. Wall Bracket, Type 3 Product Water Flow Rate 16 l/h | 6,580 |
| H2O-RO-3-T | 1 | advance RO Bench-Top System, Type 3 Product Water Flow Rate 24 l/h | 7,535 |
| H2O-RO-3-B | 1 | advance RO Wall-Mounted System, incl. Wall Bracket, Type 3 Product Water Flow Rate 24 l/h | 7,535 |

Consumables

RO modules are included with new systems

| Item | Qty. | Description | Maintenance Interval | US List Price (\$) |
|---------------|------|---|----------------------------------|--------------------|
| H2O-CPFAD-1 | 1 | Pre-Filter | 3 months | 360 |
| 613CPM4 | 1 | RO Module for advance RO & comfort I (8 l/h) | as needed or 2 yrs. | 610 |
| 613CPM4-----V | 2 | RO Modules for advance RO & comfort I 16 l/h) | as needed or 2 yrs. | 1,220 |
| H2O-CCS | 1 | Cleaning Set | 3 months or iJust recommendation | 82 |
| H2O-CBS-20 | 2 | 20L bag for bagtank 20 | 6 months | 126 |
| H2O-CBS-50 | 2 | 50L bag for bagtank 50 & 100 | 6 months | 157 |
| 5441307H4--CE | 1 | Sterile Final Filter | 30 days | 118 |

Accessories

Don't forget to order a bag with the tank

| Item | Qty. | Description | US List Price (\$) |
|----------------|------|---|--------------------|
| H2O-AOV-20 | 1 | 20L Bagtank (Pump not included) | 905 |
| H2O-ADP-20-US | 1 | Distribution Pump for 20 l bagtank, 115 VAC, 60 Hz | 405 |
| H2O-AOV-50-US | 1 | 50L Bagtank incl. 115 VAC, 60 Hz Distribution Pump | 1,705 |
| H2O-AOV-100-US | 1 | 100L Bagtank incl. 115 VAC, 60 Hz Distribution Pump | 2,085 |
| H2O-ATR | 4 | Rollers for Bagtank 50L & 100L | 120 |
| H2O-ATB | 1 | Wall Bracket for bagtank 20L | 205 |
| 610AWG1 | 1 | Water Guard | 445 |
| 613-AMDG1 | 1 | Tank Dispense Gun with Hight Adjustable Stand | 1,055 |
| 613-AMDG2 | 1 | Tank Dispense Gun with Wall Bracket | 570 |
| H2O-ACK-D | 1 | Conversion Kit for Below Bench Installation or Remote Display | 700 |

For extended warranty and service options, please see page 196.

arium® comfort I Combined Water Systems

arium® comfort I All-in-One System

The arium® comfort I delivers ASTM Type 1 ultrapure and Type 3 pure water all in one system. Directly connected to the potable feed water source the system uses outstanding RO technology combined with a unique ion exchange cartridge to produce consistent final water quality at the highest level. Additionally the innovative iJust function optimizes your water consumption and ensures a time and labor-saving operation over a long period.



Features & Benefits

iJust

Optimizes product water quality and water consumption based on the individual feed water condition.

arium® bagtank

Saves maintenance time and avoids handling with chemical cleaning agents for safe and secure daily operation.

First-Rate RO Module Equipment

Reduces investment costs and saves time for fast and easy installation.

High System Flexibility

Saves maximum space at limited lab environment and ensures always best operation at eye level.

Highest Water Quality

Guarantees reproducible results for critical, analytical applications.

Visual SOP Monitoring

Always allows an easy and safe operation by displaying all important information at a glance.

Display with Touch-Function and Intuitive Menu Navigation

Ensures an easy operation in any situation even with gloves.

Applications

- HPLC
- GC-MS, AAS, ICP-MS
- Ion chromatography
- TOC-Analysis
- Photometry
- Buffer and pH-solutions
- Feed water for ultrapure water systems
- Rinsing glassware and laboratory vessels
- Feed water for diverse laboratory, e.g. humidifiers, autoclaves and dish washer
- PCR*
- Endotoxin analysis*
- Production of monoclonal antibodies*

*With the use of arium® CellPlus Ultrafilter



arium® comfort I Combined Water Systems – Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|--|------|--|--------------------|
| arium® comfort I systems for producing ASTM Type 1 ultrapure water and Type 3 pure water | | | |
| Equipment supplied: 1 arium® comfort I, Reverse Osmosis Module(s) and Connection Set, optional with UV Lamp, TOC Monitor | | | |
| H20-I-1-T | 1 | comfort I Bench-Top System, Type 3 Product Water Flow Rate 8 l/h | 6,730 |
| H20-I-1-B | 1 | comfort I Wall-Mounted System, incl. Wall Bracket, Type 3 Product Water Flow Rate 8 l/h | 6,730 |
| H20-I-1-UV-T | 1 | comfort I Bench-Top System with UV, Type 3 Product Water Flow Rate 8 l/h | 7,100 |
| H20-I-1-UV-B | 1 | comfort I Wall-Mounted System, incl. Wall Bracket, UV, Type 3 Product Water Flow Rate 8 l/h | 7,100 |
| H20-I-1-TOC-T | 1 | comfort I Bench-Top System with UV & TOC, Type 3 Product Water Flow Rate 8 l/h | 7,830 |
| H20-I-1-TOC-B | 1 | comfort I Wall-Mounted System, incl. Wall Bracket, UV & TOC, Type 3 Product Water Flow Rate 8 l/h | 7,830 |
| H20-I-2-T | 1 | comfort I Bench-Top System, Type 3 Product Water Flow Rate 16 l/h | 7,830 |
| H20-I-2-B | 1 | comfort I Wall-Mounted System, incl. Wall Bracket, Type 3 Product Water Flow Rate 16 l/h | 7,830 |
| H20-I-2-UV-T | 1 | comfort I Bench-Top System UV, Type 3 Product Water Flow Rate 16 l/h | 8,170 |
| H20-I-2-UV-B | 1 | comfort I Wall-Mounted System, incl. Wall Bracket, UV, Type 3 Product Water Flow Rate 16 l/h | 8,170 |
| H20-I-2-TOC-T | 1 | comfort I Bench-Top System with UV & TOC, Type 3 Product Water Flow Rate 16 l/h | 9,605 |
| H20-I-2-TOC-B | 1 | comfort I Wall-Mounted System, incl. Wall Bracket, UV & TOC, Type 3 Product Water Flow Rate 16 l/h | 9,605 |

Consumables

RO modules are included with new systems

| Item | Qty. | Description | Maintenance Interval | US List Price (\$) |
|---------------|------|---------------------------------------|----------------------------------|--------------------|
| H20-CPFCO-1 | 1 | Pre-Filter | 3 months | 385 |
| 613CPM4 | 1 | RO Module for advance RO & comfort I | as needed or 2 yrs. | 610 |
| 613CPM4-----V | 2 | RO Modules for advance RO & comfort I | as needed or 2 yrs. | 1,220 |
| H20-C-Pack | 1 | comfort Ultrapure Water Cartridge | as needed or 1 yr. | 495 |
| 611CEL1 | 1 | UV Lamp | 1 year | 240 |
| H20-CCS | 1 | Cleaning Set | 3 months or iJust recommendation | 82 |
| H20-CBS-20 | 2 | 20L bag for bagtank 20 | 6 months | 126 |
| H20-CBS-50 | 2 | 50L bag for bagtank 50 & 100 | 6 months | 157 |
| 5441307H4--CE | 1 | Sterile Final Filter | 30 days | 118 |

Accessories

Don't forget to order a bag with the tank

| Item | Qty. | Description | US List Price (\$) |
|----------------|------|---|--------------------|
| H20-AOV-20 | 1 | 20L Bagtank (Pump not included) | 905 |
| H20-ADP-20-US | 1 | Distribution Pump for 20L bagtank, 115 VAC, 60 Hz | 405 |
| H20-AOV-50-US | 1 | 50L Bagtank incl. 115 VAC, 60 Hz Distribution Pump | 1,705 |
| H20-AOV-100-US | 1 | 100L Bagtank incl. 115 VAC, 60 Hz Distribution Pump | 2,085 |
| H20-CUF | 1 | arium® CellPlus Filter | 305 |
| H20-ATR | 4 | Rollers for Bagtank 50L & 100L | 120 |
| H20-ATB | 1 | Wall Bracket for Bagtank 20L | 205 |
| 610AWG1 | 1 | Water Guard (included with new systems) | 445 |
| 613-AMDG1 | 1 | Tank Dispense Gun with Height Adjustable Stand | 1,055 |
| 613-AMDG2 | 1 | Tank Dispense Gun with Wall Bracket | 570 |
| H20pro-AMDG1 | 1 | Dispense Gun with Height Adjustable Stand | 1,165 |
| H20pro-AMDG2 | 1 | Dispense Gun with Wall Bracket | 715 |
| H20pro-ADM1 | 1 | Height Adjustable Display Stand | 790 |
| H20-ADD | 1 | Multifunction Stand | 1,410 |
| H20-AFS1 | 1 | Foot Switch | 330 |
| H20-ACK-D | 1 | Conversion Kit for Under Bench Mounting or Remote Display | 700 |
| YDP30 | 1 | Premium GLP lab printer (paper not included) | 1,485 |
| 69Y03285 | 1 | Printer paper for YDP30 (ink ribbon set for GLP) | 70 |
| 69Y03287 | 5 | Standard thermal paper rolls for YDP30 | 32 |
| SB-12-01-0250 | 1 | Connection cable YDP30 to arium® | 117 |

For extended warranty and service options, please see page 196.

arium® comfort II Combined Water Systems

arium® comfort II Water Purification with Added Value

The arium® comfort II delivers ASTM Type 1 ultrapure and Type 2 pure water all in one system. Directly connected to your potable feed water source the system uses proprietary EDI technology combined with a unique ion exchange cartridge to produce consistent final water quality at the highest level. Additionally the innovative iJust function optimizes your water consumption and ensures a time and labor-saving operation over a long period.



Features & Benefits

Unique EDI Technology

Reliably, high Type 2 water quality for consistent analytical results.

iJust

Optimizes product water quality and water consumption based on the individual feed water condition.

arium® bagtank

Saves maintenance time and avoids handling with chemical cleaning agents for safe and secure daily operation.

First-Rate RO Module Equipment

Reduces investment costs and saves time for fast and easy installation.

High System Flexibility

Saves maximum space in limited lab environments and ensures optimal operation at eye level.

Highest Water Quality

Guarantees reproducible results for critical, analytical applications.

Visual SOP Monitoring

Always allows an easy and safe operation by displaying all important information at a glance.

Display with Touch-Function and Intuitive Menu Navigation

Ensures an easy operation in any situation even with gloves.

Applications

- HPLC
- AAS
- Ion chromatography
- Photometry
- Microbiological media and reagents
- Histology
- ELISA, RIA
- Buffers and pH solutions
- Feed water for laboratory devices, such as autoclaves, glassware washers, humidifiers, water baths, etc.
- PCR*
- Endotoxin analysis*
- Production of monoclonal antibodies*

*With the use of arium® CellPlus Ultrafilter



arium® comfort II – Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|--|------|--|--------------------|
| arium® comfort II for producing ASTM Type 1 ultrapure water and Type 2 pure water | | | |
| Equipment supplied: 1 arium® comfort II, RO module(s) (reverse osmosis) and connection set, optional with UV Lamp, TOC Monitor | | | |
| H20-II-1-T | 1 | comfort II Bench-Top System, Type 2 Product Water Flow Rate 5 l/h | 12,085 |
| H20-II-1-B | 1 | comfort II Wall-Mounted System, Type 2 Product Water Flow Rate 5 l/h | 12,085 |
| H20-II-1-UV-T | 1 | comfort II Bench-Top System with UV, Type 2 Product Water Flow Rate 5 l/h | 12,870 |
| H20-II-1-UV-B | 1 | comfort II Wall-Mounted System with UV, Type 2 Product Water Flow Rate 5 l/h | 12,870 |
| H20-II-1-TOC-T | 1 | comfort II Bench-Top System with UV & TOC Monitor, Type 2 Product Water Flow Rate 5 l/h | 14,170 |
| H20-II-1-TOC-B | 1 | comfort II Wall-Mounted System with UV & TOC Monitor, Type 2 Product Water Flow Rate 5 l/h | 14,170 |
| H20-II-2-T | 1 | comfort II Bench-Top System without UV & TOC, Type 2 Product Water Flow Rate 10 l/h | 18,600 |
| H20-II-2-B | 1 | comfort II Wall-Mounted System without UV & TOC, Type 2 Product Water Flow Rate 10 l/h | 18,600 |
| H20-II-2-UV-T | 1 | comfort II Bench-Top System with UV, Type 2 Product Water Flow Rate 10 l/h | 18,795 |
| H20-II-2-UV-B | 1 | comfort II Wall-Mounted System with UV, Type 2 Product Water Flow Rate 10 l/h | 18,800 |
| H20-II-2-TOC-T | 1 | comfort II Bench-Top System with UV & TOC, Type 2 Product Water Flow Rate 10 l/h | 20,220 |
| H20-II-2-TOC-B | 1 | comfort II Wall-Mounted System with UV & TOC, Type 2 Product Water Flow Rate 10 l/h | 20,220 |

Consumables

RO modules are included with new systems

| Item | Qty. | Description | Maintenance Interval | US List Price (\$) |
|---------------|------|--|----------------------------------|--------------------|
| H20-CPFCO-1 | 1 | Pre-Filter | 3 months | 385 |
| H20-CRO-H-1 | 1 | RO Module for advance EDI & comfort II (5 l/h) | as needed or 2 yrs. | 795 |
| H20-CRO-H-2 | 2 | RO Modules for advance EDI & comfort II (10 l/h) | as needed or 2 yrs. | 1,590 |
| H20-CSO-1 | 1 | Softener Cartridges | 6 months | 89 |
| H20-C-Pack | 1 | Comfort Ultrapure Water Cartridge | as needed or 1 yr. | 495 |
| 611CEL1 | 1 | UV Lamp | 1 year | 240 |
| H20-CCS | 1 | Cleaning Set | 3 months or iJust recommendation | 82 |
| H20-CBS-20 | 2 | 20L bag for bagtank 20 | 6 months | 126 |
| H20-CBS-50 | 2 | 50L bag for bagtank 50 & 100 | 6 months | 157 |
| 5441307H4--CE | 1 | Sterile Final Filter | 30 days | 118 |

Accessories

Don't forget to order a bag with the tank

| Item | Qty. | Description | US List Price (\$) |
|----------------|------|---|--------------------|
| H20-AOV-20 | 1 | 20L Bagtank (No pump included) | 905 |
| H20-ADP-20-US | 1 | Distribution Pump for 20L bagtank, 115 VAC, 60 Hz | 405 |
| H20-AOV-50-US | 1 | 50L Bagtank incl. 115 VAC, 60 Hz Distribution Pump | 1,705 |
| H20-AOV-100-US | 1 | 100L Bagtank incl. 115 VAC, 60 Hz Distribution Pump | 2,085 |
| H20-CUF | 1 | arium® CellPlus Filter | 305 |
| H20-ATR | 4 | Rollers for bagtank 50L & 100L | 120 |
| H20-ATB | 1 | Wall Bracket for bagtank 20L | 205 |
| 610AWG1 | 1 | Water Guard | 445 |
| 613-AMDG1 | 1 | Tank Dispense Gun with Height Adjustable Stand | 1,055 |
| 613-AMDG2 | 1 | Tank Dispense Gun with Wall Bracket | 570 |
| H20pro-AMDG1 | 1 | Dispense Gun with Height Adjustable Stand | 1,165 |
| H20pro-AMDG2 | 1 | Dispense Gun with Wall Bracket | 715 |
| H20pro-ADM1 | 1 | Height Adjustable Display Stand | 790 |
| H20-ADD | 1 | Multifunction Stand | 1,410 |
| H20-AFS1 | 1 | Foot Switch | 330 |
| H20-ACK-D | 1 | Conversion Kit for Under Bench Mounting or Remote Display | 700 |
| YDP30 | 1 | Premium GLP lab printer (paper not included) | 1,485 |
| 69Y03285 | 1 | Printer paper for YDP30 (ink ribbon set for GLP) | 70 |
| 69Y03287 | 5 | Standard thermal paper rolls for YDP30 | 32 |
| SB-12-01-0250 | 1 | Connection cable YDP30 to arium® | 117 |

For extended warranty and service options, please see page 196.

arium® mini, mini plus and mini essential

3...2...1... High Purity Water

The arium® mini is exclusively made of high-grade materials. With its intuitive operator guidance, closed bag system and the practical arium® aqua stop, the unit is ideal for a daily consumption of up to 10 liters of ultrapure water. Moreover, this compact laboratory-grade water purification system stands out by virtue of its superior reliability and user-friendliness.



Lab Water | arium® mini and essential

Features & Benefits

Dispenses 18.2 MΩ x cm water from DI Source or direct from Tap Water

Consistently delivers the highest water quality.

Simple no-hassle installation

Easy to set-up on your own. Plug and play functionality.

Bagtank Technology (mini & mini plus)

No tank cleaning or chemical cleaning agents needed

Large color touch-activated display

Ensures an easy operation in any situation, even with gloves.

Slender design with a width of only 28 cm

Fits into any laboratory environment.

Direct access to all available dispensing options

Ensures fast, reliable and comfortable operation.

High capacity cartridges

Saves costs per liter.

Optional UV lamp and ultrafilter

To be flexible for analytical or cell culture application.

Serial Integrated Aqua Stop

Ensures permanent optimum protection against water leakage.

Applications*

- Sample dilution & Blanks
- Buffer and media preparation
- HPLC
- ICP-MS
- GC-MS
- SPE
- Photometry
- Electrophoresis
- ELISA

* Depending on the application, the system type and optional accessory may vary

Selection Guide

| Type of System | Feed Water |
|-----------------------|---|
| arium® mini | Pretreated water from a supply container |
| arium® mini plus | Directly connects to tap water |
| arium® mini essential | Directly connects to a pretreated water supply line (RO DI EDI) |



arium® mini, mini plus and mini essential – Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|--|------|--------------------------------|--------------------|
| arium® mini (for producing ASTM Type 1 ultrapure water) | | | |
| H2O-MM-T-US | 1 | arium® mini | 3,390 |
| H2O-MM-UV-T-US | 1 | arium® mini with UV Lamp | 3,905 |
| arium® mini plus (for producing ASTM Type 1 and Type 3 ultrapure water) | | | |
| H2O-MA-T-US | 1 | arium® mini plus | 4,835 |
| H2O-MA-UV-T-US | 1 | arium® mini plus incl. UV Lamp | 5,430 |
| arium® mini essential | | | |
| H2O-MU-T-US | 1 | arium® mini essential | 4,220 |
| H2O-MU-UV-T-US | 1 | arium® mini essential UV | 4,805 |

arium® mini, mini plus and mini essential Starter Packages – Specifications & Pricing

| Model | Qty. | Description | US List Price (\$) |
|---|------|--|--------------------|
| arium® mini Starter Packages | | | |
| H2O-MM-SET-US | 1 | arium® mini H2O-MM-T, Scientific Pack, 5 l Bag, Sterile Final Filter | 3,805 |
| H2O-MM-UV-SET-US | 1 | arium® mini H2O-MM-UV-T, Scientific Pack, 5 l Bag, Sterile Final Filter | 4,310 |
| arium® mini plus Starter Packages | | | |
| H2O-MA-SET-US | 1 | arium® mini plus H2O-MA-T Pretreatment & Scientific Pack, 5 l Bag, Sterile Final Filter | 5,610 |
| H2O-MA-UV-SET-US | 1 | arium® mini plus H2O-MA-UV-T Pretreatment & Scientific Pack, 5 l Bag, Sterile Final Filter | 6,190 |
| arium® mini essential Starter Packages | | | |
| H2O-MU-SET-US | 1 | arium® mini essential H2O-MU-T, Scientific back, Sterile Final Filter | 4,650 |
| H2O-MU-UV-SET-US | 1 | arium® mini essential with UV H2O-MU-UV-T, Scientific Pack, Sterile Final Filter | 5,235 |

Consumables

| Model | Qty. | Description | US List Price (\$) |
|---------------|------|--|--------------------|
| H2O-CPR | 1 | mini plus Pretreatment Cartridge, Qty 1 | 390 |
| H2O-S-Pack | 1 | Scientific Pack | 325 |
| H2O-CEL1 | 1 | UV Lamp (185 254 nm) | 405 |
| H2O-CBS-5-S | 1 | 5 l Bag | 43 |
| H2O-CUF | 1 | arium® CellPlus Filter | 305 |
| 5441307H4--CE | 1 | Sterile Final Filter (Sartopore® 2 150 Capsule, 0.2 µm microorganisms) | 118 |

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 & Benefits

Dead stop pocket

Guaranteed sample recovery – no risk of concentrating to dryness

Unique housing design feature

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

Vertical membrane configuration

Fast sample concentration

Flexibility

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.

Applications

- Protein concentration
- Virus concentration
- Nanoparticle concentration
- Sample desalting / diafiltration

Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWC0) in daltons | Qty. PK | US List Price (\$) |
|---|--|---------|--------------------|
| Vivaspin® 500 - Polyethersulfone | | | |
| VS0191 | 3,000 | 25 | 120 |
| VS0192 | 3,000 | 100 | 420 |
| VS0111 | 5,000 | 25 | 120 |
| VS0112 | 5,000 | 100 | 420 |
| VS0101 | 10,000 | 25 | 120 |
| VS0102 | 10,000 | 100 | 420 |
| VS0121 | 30,000 | 25 | 120 |
| VS0122 | 30,000 | 100 | 420 |
| VS0131 | 50,000 | 25 | 120 |
| VS0132 | 50,000 | 100 | 420 |
| VS0141 | 100,000 | 25 | 120 |
| VS0142 | 100,000 | 100 | 420 |
| VS0151 | 300,000 | 25 | 120 |
| VS0152 | 300,000 | 100 | 420 |
| VS0161 | 1,000,000 | 25 | 120 |
| VS0162 | 1,000,000 | 100 | 420 |
| VS0171 | 0.2µm | 25 | 120 |
| VS0172 | 0.2µm | 100 | 420 |
| VS01S1 | 5 each of 5,000/10,000/ 30,000/50,000/100,000 | 25 | 120 |



Vivaspin® 500
100 -500µl

Vivaspin® 2
0.4 - 2ml

Vivaspin® 6
2 - 6 ml



Vivaspin® 15R
4 - 15ml

Vivaspin® 20
6 - 20ml

Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|---|--|---------|--------------------|
| Vivaspin® 2 - Polyethersulfone | | | |
| VS0291 | 3,000 | 25 | 133 |
| VS0292 | 3,000 | 100 | 465 |
| VS0211 | 5,000 | 25 | 133 |
| VS0212 | 5,000 | 100 | 465 |
| VS0201 | 10,000 | 25 | 133 |
| VS0202 | 10,000 | 100 | 465 |
| VS0221 | 30,000 | 25 | 133 |
| VS0222 | 30,000 | 100 | 465 |
| VS0231 | 50,000 | 25 | 133 |
| VS0232 | 50,000 | 100 | 465 |
| VS0241 | 100,000 | 25 | 133 |
| VS0242 | 100,000 | 100 | 465 |
| VS0251 | 300,000 | 25 | 133 |
| VS0252 | 300,000 | 100 | 465 |
| VS0261 | 1,000,000 | 25 | 133 |
| VS0262 | 1,000,000 | 100 | 465 |
| VS0271 | 0.2µm | 25 | 133 |
| VS0272 | 0.2µm | 100 | 465 |
| VS02S1 | 5 each of 5,000/10,000/ 30,000/50,000/100,000 | 25 | 133 |
| Vivaspin® 2 - Cellulose Triacetate | | | |
| VS02U1 | 5,000 | 25 | 133 |
| VS02U2 | 5,000 | 100 | 465 |
| VS02V1 | 10,000 | 25 | 133 |
| VS02V2 | 10,000 | 100 | 465 |
| VS02X1 | 20,000 | 25 | 133 |
| VS02X2 | 20,000 | 100 | 465 |
| Vivaspin® 2 - Hydrosart | | | |
| VS02H91 | 2,000 | 25 | 133 |
| VS02H92 | 2,000 | 100 | 465 |
| VS02H11 | 5,000 | 25 | 133 |
| VS02H12 | 5,000 | 100 | 465 |
| VS02H01 | 10,000 | 25 | 133 |
| VS02H02 | 10,000 | 100 | 465 |
| VS02H21 | 30,000 | 25 | 133 |
| VS02H22 | 30,000 | 100 | 465 |

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|--|--|---------|--------------------|
| Vivaspin® 6 - Polyethersulfone | | | |
| VS0691 | 3,000 | 25 | 150 |
| VS0692 | 3,000 | 100 | 490 |
| VS0611 | 5,000 | 25 | 150 |
| VS0612 | 5,000 | 100 | 490 |
| VS0601 | 10,000 | 25 | 150 |
| VS0602 | 10,000 | 100 | 490 |
| VS0621 | 30,000 | 25 | 150 |
| VS0622 | 30,000 | 100 | 490 |
| VS0631 | 50,000 | 25 | 150 |
| VS0632 | 50,000 | 100 | 490 |
| VS0641 | 100,000 | 25 | 150 |
| VS0642 | 100,000 | 100 | 490 |
| VS0651 | 300,000 | 25 | 150 |
| VS0652 | 300,000 | 100 | 490 |
| VS0661 | 1,000,000 | 25 | 150 |
| VS0662 | 1,000,000 | 100 | 490 |
| VS0671 | 0.2µm | 25 | 150 |
| VS0672 | 0.2µm | 100 | 490 |
| VS06S1 | 5 each of 5,000/10,000/ 30,000/50,000/100,000 | 25 | 150 |
| Vivaspin® 15R - Hydrosart® | | | |
| VS15RH91 | 2,000 | 12 | 133 |
| VS15RH92 | 2,000 | 48 | 450 |
| VS15RH11 | 5,000 | 12 | 133 |
| VS15RH12 | 5,000 | 48 | 450 |
| VS15RH01 | 10,000 | 12 | 133 |
| VS15RH02 | 10,000 | 48 | 450 |
| VS15RH21 | 30,000 | 12 | 133 |
| VS15RH22 | 30,000 | 48 | 450 |
| Vivaspin® 20 - Polyethersulfone | | | |
| VS2091 | 3,000 | 12 | 149 |
| VS2092 | 3,000 | 48 | 545 |
| VS2011 | 5,000 | 12 | 149 |
| VS2012 | 5,000 | 48 | 545 |
| VS2001 | 10,000 | 12 | 149 |
| VS2002 | 10,000 | 48 | 545 |
| VS2021 | 30,000 | 12 | 149 |
| VS2022 | 30,000 | 48 | 545 |
| VS2031 | 50,000 | 12 | 149 |
| VS2032 | 50,000 | 48 | 545 |
| VS2041 | 100,000 | 12 | 149 |
| VS2042 | 100,000 | 48 | 545 |
| VS2051 | 300,000 | 12 | 149 |
| VS2052 | 300,000 | 48 | 545 |
| VS2061 | 1,000,000 | 12 | 149 |
| VS2062 | 1,000,000 | 48 | 545 |
| VS2071 | 0.2 µm | 12 | 149 |
| VS2072 | 0.2 µm | 48 | 545 |
| VS20S1 | 2 each of 5,000/10,000/ 30,000/ 50,000/ 100,000 | 12 | 149 |

Vivaspin® Turbo Centrifugal Concentrators

High Speed & Recovery Protein Concentration

Vivaspin® Turbo 4 and 15 centrifugal concentrators are disposable ultrafiltration devices for processing sample volumes of 2-4 ml and 15 ml respectively. A new design, featuring a polyethersulfone UF membrane in a pH resistant housing, offers the fastest concentration with low non-specific binding. A patent-pending angular dead stop pocket prevents centrifuging to dryness while supporting high concentrate recoveries due to easy pipette access.



Features & Benefits

Twin vertical membranes assembled in an optimized design
Fastest ultrafiltration device on the market for high speed protein concentration that saves time and retains protein activity.

Unique angular dead stop pocket
Patent pending angular design guarantees complete sample recovery with a pipette, while eliminating the risk of concentrating to dryness.

Low binding and pH resistant polystyrene housing material
Negligible non-specific binding, for high recoveries- combined with high chemical compatibility.

Applications

- Protein concentration
- Virus concentration
- Nanoparticle concentration
- Sample desalting / diafiltration
- Buffer exchange

Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) | Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|--------------------------|--|---------|--------------------|--|--|---------|--------------------|
| Vivaspin® Turbo 4 | | | | Vivaspin® Turbo 15 - Polyethersulfone | | | |
| VS04T91 | 3,000 | 25 | 154 | VS15T91 | 3,000 | 12 | 151 |
| VS04T92 | 3,000 | 100 | 545 | VS15T92 | 3,000 | 48 | 575 |
| VS04T11 | 5,000 | 25 | 154 | VS15T11 | 5,000 | 12 | 151 |
| VS04T12 | 5,000 | 100 | 545 | VS15T12 | 5,000 | 48 | 575 |
| VS04T01 | 10,000 | 25 | 154 | VS15T01 | 10,000 | 12 | 151 |
| VS04T02 | 10,000 | 100 | 545 | VS15T02 | 10,000 | 48 | 575 |
| VS04T21 | 30,000 | 25 | 154 | VS15T21 | 30,000 | 12 | 151 |
| VS04T22 | 30,000 | 100 | 545 | VS15T22 | 30,000 | 48 | 575 |
| VS04T31 | 50,000 | 25 | 154 | VS15T31 | 50,000 | 12 | 151 |
| VS04T32 | 50,000 | 100 | 545 | VS15T32 | 50,000 | 48 | 575 |
| VS04T41 | 100,000 | 25 | 154 | VS15T41 | 100,000 | 12 | 151 |
| VS04T42 | 100,000 | 100 | 545 | VS15T42 | 100,000 | 48 | 575 |



Vivaspin® Turbo 4



Vivaspin® Turbo 15

Centrisart® I Reverse Centrifugal Concentrators

Ultrafiltration of Biological Samples

Centrisarts are ready-to-use units for separation of proteins from low molecular weight substances in biological samples. They feature a unique design that allows ultrafiltration in the direction opposite of the centrifugal force which effectively prevents premature blockage of the filter. This permits deproteinization of whole blood samples.



Centrisart I

Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|-----------------------------|--|---------|--------------------|
| Cellulose Triacetate | | | |
| 13229-----E | 5,000 | 12 | 81 |
| 13239-----E | 10,000 | 12 | 81 |
| 13249-----E | 20,000 | 12 | 81 |
| Polyethersulphone | | | |
| 13269-----E | 100,000 | 12 | 81 |
| 13279-----E | 300,000 | 12 | 81 |
| Starter Pack | | | |
| 13209-----E | 3 units each of 5k, 10k, 20k, 100k | 12 | 81 |

Applications

- Serum / blood deproteinization
- Concentration of viscous samples
- Hormone / metabolite determination in serum

Vivaclear® Centrifugal Filters

Clarification of Biological Samples

Vivaclear® Centrifugal Filters are microfiltration devices for fast and reliable clarification of biological samples such as plasma, serum, cells and cell debris as well as simple removal of particles.



Specifications & Pricing

| Model | Description | Qty. PK | US List Price (\$) |
|----------|----------------------------|---------|--------------------|
| VK01P042 | Vivaclear® Mini 0.8 µM PES | 100 | 315 |

Vivacell Pressure Driven Concentrators

Ready to Use and Flexible Protein Concentration

With Vivacell, Sartorius offers a line of pressure driven ultrafiltration devices for concentration of initial sample volumes from 10 ml up to 250 ml. The unique patented design (vertical membrane and dead stop) provides simplicity, safety and speed. These devices are operated either by centrifugation, pressure or a combination of both – pressure-fugation.



Features & Benefits

Ready to use

Devices are ready to use out of the box – no complicated membrane adjustment and no risk of leakage, as the devices come pre-assembled.

Flexibility

Choice of different operation modes possible: centrifugation, pressure or combination of centrifugation and pressure to suit every need.

Mild to proteins

No foaming, thus denaturation, of protein sample as in stirred cells – the device can be placed on a shaker for mild agitation in the pressurized mode.

Integrated dead stop

Prevents sample being concentrated to dryness, as can happen in stirred cells if left unattended.

Vertical membrane design

Fast concentration due to large membrane areas for recovering active proteins.

Complete concentrate recovery

Complete concentrate is easily pipetted from the dead stop pocket.

Applications

- Protein concentration
- Virus concentration
- Nanoparticle concentration
- Sample desalting / diafiltration

Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|--|--|---------|--------------------|
| Vivacell 100 - Polyethersulfone | | | |
| VC1011 | 5,000 | 2 | 82 |
| VC1012 | 5,000 | 10 | 370 |
| VC1001 | 10,000 | 2 | 82 |
| VC1002 | 10,000 | 10 | 370 |
| VC1021 | 30,000 | 2 | 82 |
| VC1022 | 30,000 | 10 | 370 |
| VC1031 | 50,000 | 2 | 82 |
| VC1032 | 50,000 | 10 | 370 |
| VC1041 | 100,000 | 2 | 82 |
| VC1042 | 100,000 | 10 | 370 |
| VC1051 | 300,000 | 2 | 82 |
| VC1052 | 300,000 | 10 | 370 |
| VC1061 | 1,000K | 2 | 82 |
| VC1062 | 1,000K | 10 | 370 |
| VC1071 | 0.2µm | 2 | 82 |
| VC1072 | 0.2µm | 10 | 370 |

Accessories

| Model | Description | US List Price (\$) |
|--------|---|--------------------|
| VCA002 | Air Pressure Controller (APC) Inc. VCA008, VCA010, VCA011, VCA012 | 340 |
| VCA010 | Female Connector | 51 |
| VCA011 | Male Connector | 43 |
| VCA012 | Pressure Tubing | 10 |
| VCA800 | Pressure Head VC100 | 172 |

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 Hydrasart® 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 & Benefits

Various membrane types and molecular weight cut offs
Allows selection of the optimal membrane based on filterability and chemical compatibility.

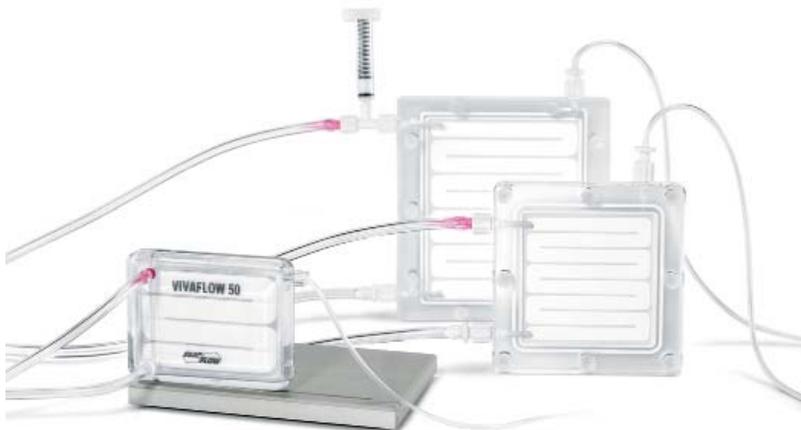
Plug and Play Systems
Simple system set-up. Tubing is connected via luer lock connectors. Everything necessary for operation comes with the device. Only a laboratory peristaltic pump is needed for operation.

Choice between disposable and reusable products
Vivaflow® 50 is disposable for convenience in applications such as virus concentration. Vivaflow® 50R and Vivaflow® 200 can be reused for standard applications.

Serial/parallel operation of multiple devices
Increases filtration area, thus enabling faster filtration and/or increasing total volume throughput.

Applications

- Protein concentration
- Virus concentration
- Nanoparticle concentration
- Sample desalting / diafiltration



Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|--|---|---------|--------------------|
| Vivaflow® 50R Crossflow Cassettes - Hydrosart® | | | |
| VF05H1 | 5,000 | 1 | 250 |
| VF05H0 | 10,000 | 1 | 250 |
| VF05H2 | 30,000 | 1 | 250 |
| VF05H4 | 100,000 | 1 | 250 |
| Vivaflow® 50 Crossflow Cassettes - Polyethersulfone | | | |
| VF05P9 | 3,000 | 2 | 177 |
| VF05P1 | 5,000 | 2 | 177 |
| VF05P0 | 10,000 | 2 | 177 |
| VF05P2 | 30,000 | 2 | 177 |
| VF05P3 | 50,000 | 2 | 177 |
| VF05P4 | 100,000 | 2 | 177 |
| VF05P7 | 0.2µm | 2 | 177 |
| Vivaflow® 50 Complete System Comprises | | | |
| VFS504 | Pump (115 V), Easy load pump head (size 16), tubing, 500ml sample diafiltration reservoir, module stand, pressure indicator, T connectors, series interconnectors | | 1,735 |
| PVC Tubing and Fittings | | | |
| VFA004 | Size 16 PVC pump tubing (3m, 3.2 x 1.6mm) | | 50 |
| VFA009 | Flow restrictor set (2 x 0.4, 0.6, 0.8mm) | | 15 |
| VFA03 | T connectors for running 2 stacks (2 pieces) | | 18 |
| VFA031 | Series interconnectors (6 pieces) | | 19 |
| VFA032 | Female luer fittings (10 pieces) | | 9 |
| VFA034 | VF50 tubing Kit (2 x 1 mm size 16 PVC tubing with inlet fittings, 2 x 50 cm size 16 PVC tubing with 0.6mm flow restrictors, 1 x series interconnector) | | 73 |
| VFA035 | Flow restrictor 0.6mm (6 pieces) | | 18 |
| Accessories | | | |
| VFP002 | Masterflex economy drive variable speed peristaltic pump (115 V) | | 920 |
| VFA006 | 500 ml sample and/or diafiltration reservoir | | 184 |
| VFA012 | Masterflex easy load pump head- size 16 | | 525 |
| VFA013 | Masterflex easy load pump head- size 15 | | 525 |
| VFA016 | Vivaflow 50 stand | | 184 |
| VFA020 | Pressure indicator (1 -3 bar) | | 37 |

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty. PK | US List Price (\$) |
|---|---|---------|--------------------|
| Vivaflow® 200 Crossflow Cassettes - Polyethersulfone | | | |
| VF20P9 | 3,000 | 1 | 460 |
| VF20P1 | 5,000 | 1 | 460 |
| VF20P0 | 10,000 | 1 | 460 |
| VF20P2 | 30,000 | 1 | 460 |
| VF20P3 | 50,000 | 1 | 460 |
| VF20P4 | 100,000 | 1 | 460 |
| VF20P7 | 0.2µm | 1 | 460 |
| Vivaflow® 200 Crossflow Cassettes - Hydrosart | | | |
| VF20H9 | 2,000 | 1 | 460 |
| VF20H1 | 5,000 | 1 | 460 |
| VF20H0 | 10,000 | 1 | 460 |
| VF20H2 | 30,000 | 1 | 460 |
| VF20H4 | 100,000 | 1 | 460 |
| Vivaflow® 200 Complete System Comprises | | | |
| VFS204 | Pump (115 V), Easy load pump head (size 16), tubing, 500ml sample diafiltration reservoir | | 1,480 |
| Tubing and Fittings | | | |
| VFA003 | Size 15 PVC pump tubing (3m, 4.8 x 2.6mm) | | 55 |
| VFA004 | Size 16 PVC pump tubing (3m, 3.2 x 1.6mm) | | 50 |
| VFA005 | Y connector (size 15 to 2 x size 16) | | 11 |
| VFA009 | Flow restrictor set (2 x 0.4, 0.6, 0.8mm) | | 15 |
| VFA032 | Female luer fittings (10 pieces) | | 9 |
| VFA035 | Flow restrictor 0.6mm (6 pieces) | | 9 |
| VFA036 | Female luer fittings size 15 (10 pieces) | | 9 |

Vivacon Centrifugal Concentrators

For High Recovery Concentration of Diluted DNA and Peptide Samples

Vivacon centrifugal units for DNA concentration and buffer exchange are available for initial sample volumes of 500 µl to 2 ml. They are the product of choice for peptide fractionation applications, like FASP*. Select cut offs are available in sterile and DNA-free** versions for DNA concentration and rebuffing applications in which even trace of DNA contamination is harmful. The use of Hydrosart® membranes results in high recoveries from even highly diluted samples.



Features & Benefits

Hydrosart® modified regenerated cellulose membrane
Offers the lowest binding and highest concentrate recoveries. This is ideal for applications working with ng sample quantities.

Reverse spin possibility
Allows complete and reproducible concentrate recovery in a fresh collection tube.

PCR Grade devices for DNA-free products**
Ideal for forensic applications in which even trace DNA is problematic.

Horizontal membrane design
Horizontal configuration of the ultrafiltration membranes leads to improved results when concentrating or fractionating extremely dilute samples.

Applications

- Genomic DNA concentration of forensic samples
- Peptide fractionation (FASP*)
- Primer removal
- Plasmid DNA concentrations / desalting

* Filter aided sample preparation, Jacek R. Wisniewski, Dorota F. Zielinska and Matthias Mann (2010). Anal Biochem Dec 14, 2010

**qPCR assay over 55 cycles with a verified limit of detection < 2 pg



Conversion Table for MWCO to Base Pair Cut-Off

| Membrane | MWCO | Double-Stranded Nucleotide Cut-Off (bp) |
|-------------------|---------|---|
| Hydrosart® | 2 kDa | > 10 |
| Hydrosart® | 10 kDa | > 30 |
| Hydrosart® | 30 kDa | > 50 |
| Hydrosart® | 50 kDa | > 300 |
| Hydrosart® | 100 kDa | > 600 |
| Cellulose Acetate | 125 kDa | > 650 |

Ordering Information

| Model | Description | Qty/Pk | US List Price (\$) |
|------------------------------|---|--------|--------------------|
| Vivacon 500 | | | |
| VN01H91 | 2,000 MWCO | 25 | 127 |
| VN01H92 | 2,000 MWCO | 100 | 420 |
| VN01H01 | 10,000 MWCO | 25 | 127 |
| VN01H02 | 10,000 MWCO | 100 | 420 |
| VN01H21 | 30,000 MWCO | 25 | 127 |
| VN01H22 | 30,000 MWCO | 100 | 420 |
| VN01H31 | 50,000 MWCO | 25 | 127 |
| VN01H32 | 50,000 MWCO | 100 | 420 |
| VN01H41 | 100,000 MWCO | 25 | 127 |
| VN01H42 | 100,000 MWCO | 100 | 420 |
| VN01H81 | 125,000 MWCO | 25 | 127 |
| VN01H82 | 125,000 MWCO | 100 | 420 |
| VN01HL12 | Sample Kit L (4 units each of 2, 10, 30 K) | 12 | 69 |
| VN01HH12 | Sample Kit H (4 units each of 30, 50, 100 K) | 12 | 69 |
| Vivacon 500 PCR Grade | | | |
| VN01H21ETO | 30,000 MWCO | 25 | 140 |
| VN01H22ETO | 30,000 MWCO | 100 | 455 |
| VN01H31ETO | 50,000 MWCO | 25 | 122 |
| VN01H41ETO | 100,000 MWCO | 25 | 140 |
| VN01H42ETO | 100,000 MWCO | 100 | 455 |
| VN01H81ETO | 125,000 MWCO | 25 | 140 |

Accessories

| Item | Description | Qty/Pk | US List Price (\$) |
|--------|------------------|--------|--------------------|
| VNCT01 | Collection Tubes | 100 | 77 |

Ordering Information

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Qty/Pk | US List Price (\$) |
|--|--|--------|--------------------|
| Vivacon 2 - Hydrosart | | | |
| VN02H91 | 2,000 | 25 | 150 |
| VN02H92 | 2,000 | 100 | 535 |
| VN02H93 | 2,000 | 500 | 2,370 |
| VN02H01 | 10,000 | 25 | 150 |
| VN02H02 | 10,000 | 100 | 535 |
| VN02H03 | 10,000 | 500 | 2,370 |
| VN02H21 | 30,000 | 25 | 150 |
| VN02H22 | 30,000 | 100 | 535 |
| VN02H31 | 50,000 | 25 | 150 |
| VN02H32 | 50,000 | 100 | 535 |
| VN02H41 | 100,000 | 25 | 150 |
| VN02H42 | 100,000 | 100 | 535 |
| Vivacon 2 PCR Grade - Hydrosart | | | |
| VN02H21ETO | 30,000 | 25 | 168 |
| VN02H22ETO | 30,000 | 100 | 605 |
| VN02H3SETO | 50,000 | 4 | 30 |
| VN02H31ETO | 50,000 | 25 | 168 |
| VN02H32ETO | 50,000 | 100 | 605 |
| VN02H41ETO | 100,000 | 25 | 168 |
| VN02H42ETO | 100,000 | 100 | 605 |
| Vivacon Accessories | | | |
| VNA001 | Vivacon 2 Rack | 1 | 29 |
| VNCT01 | Collection Tubes | 100 | 77 |



Vivapure® Virus Purification and Concentration Kits

Easy to Use and Fast Adenovirus Type 5 and VSV-G Lentivirus Purification

Adenovirus and Lentivirus purification kits utilize Sartobind® ion exchange membrane chromatography technology for fast and safe virus purification in volumes from 20 ml to 1000 ml. These ready to use kits contain all buffers and devices needed for virus purification in just a few hours. The AdenoPACK kits can recover up to 3×10^{13} purified recombinant adenovirus particles for in vitro transfection. The LentiSELECT kits recover up to 5×10^9 infective Lentivirus particles per ml for in vitro transfection or animal studies.

Features & Benefits

Syringe filter or spin columns based purification columns

No need for expensive ultracentrifuges. Additionally, Sartobind® membrane adsorbers lead to much faster purification of the viruses, compared to traditional methods.

Flexible product range. Applicable from initial construct screening to large scale virus purification as different kit formats are available.

Complete kits. One stop shopping – the kits contain everything needed for Adenovirus and Lentivirus purification – including filtration devices, purification units, Vivaspin ultrafiltration devices and buffers.

Specifications & Pricing

| Model | Description | Sample Size | Qty/PK | US List Price (\$) |
|--|---|-------------|--------|--------------------|
| Vivapure® AdenoPACK | | | | |
| VS-AVPQ020 | AdenoPACK 20 | 6 x 20ml | 1 | 325 |
| VS-AVPQ101 | AdenoPACK 100 | 4 x 60ml | 1 | 585 |
| VS-AVPQ501 | AdenoPACK 500 | 500ml | 1 | 1,280 |
| Vivapure® AdenoPACK Accessories | | | | |
| VS-AVPA001 | AdenoPACK Pump Tubing Set (for Adenopack 100) | n/a | 1 | 23 |
| Vivapure® LentiSELECT | | | | |
| VS-LVPQ040 | LentiSELECT 40 | 4 x 40ml | 1 | 630 |
| VS-LVPQ500 | LentiSELECT 500 | 500ml | 1 | 1,235 |
| VS-LVPQ1000 | LentiSELECT 1000 | 1000ml | 1 | 2,055 |



Applications

- Adenovirus Type 5 purification
- VSV-G pseudotyped lentivirus purification



Vivapore Static Concentrators

Ready to Use and Flexible Protein Concentration

Vivapore static concentrators offer fast and economic concentration of bodily fluids such as urine and cerebrospinal fluid prior to analysis by electrophoresis or immunoelectrophoresis (e.g. Bence Jones proteins in urine). An absorbent pulls solvent and salts through the ultrafiltration membrane, concentrating the sample without the need for additional equipment. Static concentrators are the most economic and user friendly concentration technique available for clinical applications.



Features & Benefits

Single-use devices

Reduce the risk of cross contamination.

Integrated dead stop

Prevents concentrating the sample to dryness. Sample can be left to concentrate unattended overnight.

Easy recovery

Complete concentrate is easily recovered by single-use pipettes provided in every pack.

Economical product

Low budget solution, as no additional instruments are needed.

CE mark

Product is offered for in vitro diagnostic use.

Applications

- Bence Jones Protein concentration from body fluids such as urine

Specifications & Pricing

| Model | Description | Qty. PK | US List Price (\$) |
|-------------------------|--|---------|--------------------|
| Vivapore 5 | | | |
| VP0503 | 7,500 MWCO PES. Includes stand and recovery pipettes | 4 | 31 |
| VP0501 | 7,500 MWCO PES. Includes stand and recovery pipettes | 30 | 210 |
| VP0502 | 7,500 MWCO PES. No stand | 100 | 535 |
| Vivapore 10 20 | | | |
| VP2003 | 7,500 MWCO PES. Includes stand and recovery pipettes | 4 | 45 |
| VP2001 | 7,500 MWCO PES. Includes stand and recovery pipettes | 30 | 230 |
| VP2002 | 7,500 MWCO PES. No stand | 100 | 585 |

Accessories

| Model | Description | Qty. PK | US List Price (\$) |
|--------|---|---------|--------------------|
| VPA002 | Disposable stands for 4 units | 6 | 27 |
| VPA005 | Plastic recovery pipettes (Vivapore 10 20) | 100 | 33 |
| VPA006 | 10 ml expansion reservoir (Vivapore 10 20) | 10 | 25 |
| VPA007 | Plastic recovery pipettes (Vivapore 5) | 100 | 12 |

Vivapure® Ion Exchange Membrane Chromatography

Ready-to-use Protein Purification Spin Columns

Vivapure® ion exchange spin columns are ready-to-use centrifugal devices incorporating Sartobind Membrane Adsorber technology into their chromatography matrix. This makes protein purification as easy as filtration. The rapid 1-2-3 bind- wash-elute protocol can replace time-consuming and tedious column chromatography. Available in three membrane chemistries: Sulphonic acid (S), Quaternary ammonium (Q), and Diethylamine (D).



Features & Benefits

Ready to use

Devices are ready to use out of the box – no column packing necessary. Vivapure makes protein purification as easy as filtration.

Centrifugal devices

Centrifugal devices can be run in parallel – optimal for purification or screening applications.

Scalable

Process scale modules are available with the same Ion Exchange membrane adsorber matrix.

Applications

- Protein purification
- DNA purification
- Sample fractionation
- Endotoxin removal

Specifications & Pricing

| Model | Description | Qty. PK | US List Price (\$) |
|---|--|---------|--------------------|
| Vivapure® Mini Ion Exchange Spin Columns | | | |
| VS-IX01DH24 | Vivapure D Mini H (24 columns, 48 collection tubes) | 24 | 205 |
| VS-IX01QH24 | Vivapure Q Mini H (24 columns, 48 collection tubes) | 24 | 205 |
| VS-IX01SH24 | Vivapure S Mini H (24 columns, 48 collection tubes) | 24 | 205 |
| VS-IX01SQ16 | Vivapure S & Q Mini H (8 each of S & Q, 32 collection tubes) | 16 | 143 |
| Vivapure® Maxi Ion Exchange Spin Columns | | | |
| VS-IX20DH08 | Vivapure D Maxi H (8 columns, 16 collection tubes) | 8 | 390 |
| VS-IX20QH08 | Vivapure Q Maxi H (8 columns, 16 collection tubes) | 8 | 390 |
| VS-IX20SH08 | Vivapure S Maxi H (8 columns, 16 collection tubes) | 8 | 390 |

Claristep® Filtration System

The Easy Choice – Syringeless and Fast

Sartorius has developed a new, easy-to-use and straightforward filtration setup. The manually operated Claristep® Filtration System, which consists of a station and filter units, offers a novel way to easily clarify your samples prior to analysis.



Features & Benefits

- Up to 8 samples are processed simultaneously
- No syringe required
- No need for a vacuum source or a power supply
- For low sample volumes ranging from 60 µL to 600 µL
- Hold-up volume < 30 µL

Filter 8 samples simultaneously – without needing any power supply or a vacuum | pressure source. Simply place the filters on your vials, gently close the station and press on the station lid to filter – that's it!

The Claristep® Station consists of a base, a lid and an exchangeable tray for easy and accurate positioning of sample vials and Claristep® Filter units. The patent-pending design features unique grooves in the station's lid and matching guide ridges on Claristep® Filter units to enable intuitively correct alignment and convenient handling of the system.

Grooves automatically guide the filter unit caps into the correct positions for simultaneous and accurate cap closure.

Claristep® Filter units are made of the purest materials. Another major benefit is that the contact time of the samples with the filters and the caps is extremely short, ensuring optimal, contamination-free results.

Filtered liquids are collected in any 12 × 32 mm outer diameter vials of your choice based on the analytical method to be performed.

Applications

- HPLC Sample Prep
- LC-MS Sample Prep
- Multiple Sample Prep-up to 8 samples simultaneously



Specifications & Pricing

| Model | EFD ¹ | Membrane | Housing | Pore Size | Sterile | Qty. Pk | US List Price (\$) |
|---------------------------|------------------|----------|---------|-----------|---------|---------|--------------------|
| Claristep® Filters | | | | | | | |
| 17C07FT---96 | 9.7 mm | RC | PP | 0.2 µm | No | 96 | 265 |
| 17C07FT--480 | 9.7 mm | RC | PP | 0.2 µm | No | 480 | 1,120 |
| 17C06FT---96 | 9.7 mm | RC | PP | 0.45 µm | No | 96 | 265 |
| 17C06FT--480 | 9.7 mm | RC | PP | 0.45 µm | No | 480 | 1,120 |

¹ Effective Filtration Diameter

RC = Regenerated Cellulose

| Model | Description | Qty. Pk. | US List Price (\$) |
|---------------------------|-----------------------------|----------|--------------------|
| Claristep® Station | | | |
| 17C--M8 | Claristep® Station complete | 1 | 300 |
| 17C--S1 | Claristep® Single Tray | 1 | 71 |



Chemical Compatibility Chart

For Minisart® Syringe Filters

| | PES membrane | SFCA membrane | PTFE membrane | RC membrane | Nylon XXX Nylon Membrane | Nylon Membrane GF depth filter | Housing MBS | Housing PP | Minisart® HighFlow | Minisart® NML Ophthalsart | Minisart® plus Microsart® NML Plus | Minisart® GF | Minisart® HY | Minisart® RC | Minisart® NY | Minisart® SRP |
|----------------------------|--------------|---------------|----------------|-------------|-----------------------------|-----------------------------------|-------------|------------|--------------------|--------------------------------|---------------------------------------|--------------|--------------|--------------|--------------|---------------|
| Filter | PES | SFCA | PTFE | RC | PA | GF | | | PES | SFCA | SFCA + GF | GF | PTFE | RC | PA | PTFE |
| Housing | | | | | | | MBS | PP | MBS | MBS | MBS | MBS | MBS | PP | PP | PP |
| Sterilization | | | | | | | | | | | | | | | | |
| Ethylene oxide | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Gamma irradiation | ++ | ++ | - ¹ | ++ | - | ++ | ++ | - | ++ | ++ | ++ | ++ | - | - | - | - |
| Autoclaving 121 °C, 30 min | ++ | ++ | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Solvents | | | | | | | | | | | | | | | | |
| Acetone | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Acetonitrile | - | - | ++ | ++ | n.a. | ++ | - | ++ | - | - | - | - | - | ++ | n.a. | ++ |
| Gasoline | + | + | ++ | ++ | ++ | ++ | ++ | ++ | + | + | + | ++ | ++ | ++ | ++ | ++ |
| Benzene | - | + | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Benzyl alcohol | - | - | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| n-Butyl acetate | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| n-Butanol | + | + | ++ | ++ | ++ | ++ | ++ | ++ | + | + | + | ++ | ++ | ++ | ++ | ++ |
| Cellosolve | ++ | - | ++ | ++ | ++ | ++ | - | - | - | - | - | - | - | - | - | - |
| Chloroform | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Cyclohexane | - | + | ++ | ++ | ++ | ++ | + | + | - | + | + | + | + | + | + | + |
| Cyclohexanone | - | + | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Diethylacetamide | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Diethyl ether | - | + | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Dimethyl formamide | - | - | ++ | + | + | ++ | - | + | - | - | - | - | - | + | + | + |
| Dimethylsulfoxide | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Dioxane | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Ethanol, 98% | ++ | + | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Ethyl acetate | - | - | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Ethylene glycol | ++ | + | ++ | ++ | ++ | ++ | ++ | ++ | ++ | + | + | ++ | ++ | ++ | ++ | ++ |
| Formamide | ++ | - | ++ | + | ++ | ++ | ++ | ++ | ++ | - | - | ++ | ++ | + | ++ | ++ |
| Glycerin | ++ | + | ++ | ++ | ++ | ++ | + | + | + | + | + | + | + | + | + | + |
| n-Heptane | ++ | + | ++ | ++ | ++ | ++ | + | ++ | + | + | + | + | + | ++ | ++ | ++ |
| n-Hexane | ++ | + | ++ | ++ | ++ | ++ | + | + | + | + | + | + | + | + | + | + |
| Isobutanol | ++ | + | ++ | ++ | ++ | ++ | ++ | - | ++ | + | + | ++ | ++ | - | - | - |
| Isopropanol | ++ | + | ++ | ++ | ++ | ++ | - | ++ | - | - | + | - | - | ++ | ++ | ++ |
| Isopropyl acetate | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Methanol, 98% | + | - | ++ | ++ | ++ | ++ | - | + | + | - | - | - | - | + | + | + |
| Methyl acetate | - | - | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Methylene chloride | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Methyl ethyl ketone | - | - | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Methyl isobutyl ketone | - | - | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Monochlorobenzene | - | - | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Nitrobenzene | - | - | ++ | ++ | + | ++ | - | + | - | - | + | - | - | + | + | + |
| n-Pentane | ++ | + | ++ | ++ | ++ | ++ | + | ++ | + | + | + | + | + | ++ | ++ | ++ |
| Perchloroethylene | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |

Chemical Compatibility Chart

For Minisart® Syringe Filters

| Filter | PES membrane | SFCA membrane | PTFE membrane | RC membrane | Nylon Membrane | GF depth filter | Housing MBS | Housing PP | Minisart® HighFlow | Minisart® NML Ophthalsart | Minisart® NML Plus | Minisart® GF | Minisart® HY | Minisart® RC | Minisart® NY | Minisart® SRP |
|---------------------------|--------------|---------------|---------------|-------------|----------------|-----------------|-------------|------------|--------------------|-----------------------------|--------------------|--------------|--------------|--------------|--------------|---------------|
| | PES | SFCA | PTFE | RC | PA | GF | | | PES | SFCA | SFCA + GF | GF | PTFE | RC | PA | PTFE |
| Housing | | | | | | | MBS | PP | MBS | MBS | MBS | MBS | MBS | PP | PP | PP |
| Sterilization | | | | | | | | | | | | | | | | |
| Pyridine | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | - | - | - | ++ | ++ | ++ |
| Carbon tetrachloride | - | - | ++ | ++ | ++ | ++ | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran | - | - | ++ | ++ | ++ | ++ | - | ++ | - | - | ++ | - | - | ++ | ++ | ++ |
| Toluene | - | + | ++ | ++ | ++ | ++ | - | ++ | - | - | ++ | - | - | ++ | ++ | ++ |
| Trichloroethane | - | - | ++ | ++ | ++ | ++ | - | n.a. | - | - | - | - | - | n.a. | n.a. | n.a. |
| Trichloroethylene | - | + | ++ | ++ | ++ | ++ | - | ++ | - | - | ++ | - | - | ++ | ++ | ++ |
| Xylene | - | + | ++ | ++ | ++ | ++ | - | + | - | - | - | - | - | + | + | + |
| Acids | | | | | | | | | | | | | | | | |
| Acetic acid, 25% | + | + | ++ | ++ | - | ++ | - | + | - | - | - | - | - | + | - | + |
| Acetic acid, 80% | n.a. | - | ++ | ++ | - | ++ | - | + | - | - | - | - | - | + | - | + |
| Hydrofluoric acid, 25% | + | - | ++ | + | - | ++ | + | + | + | - | - | + | + | + | - | + |
| Hydrofluoric acid, 50% | + | - | ++ | + | - | ++ | + | + | + | - | - | + | + | + | - | + |
| Perchloric acid, 25% | - | - | ++ | - | - | ++ | n.a. | + | - | - | - | n.a. | n.a. | - | - | + |
| Phosphoric acid, 1% | ++ | + | ++ | - | - | ++ | + | + | + | + | + | + | + | - | - | + |
| Phosphoric acid, 86% | ++ | + | ++ | - | - | ++ | + | + | + | + | + | + | + | - | - | + |
| Nitric acid, 30% | + | - | ++ | - | - | ++ | + | + | + | - | - | + | + | - | - | + |
| Nitric acid, conc. | - | - | ++ | - | - | ++ | - | - | - | - | - | - | - | - | - | - |
| Hydrochloric acid, 15% | ++ | + | ++ | - | - | ++ | + | + | + | + | + | + | + | - | - | + |
| Hydrochloric acid, 20% | ++ | - | ++ | - | - | ++ | + | + | + | - | - | + | + | - | - | + |
| Sulfuric acid, 25% | + | - | ++ | + | - | ++ | + | ++ | + | - | - | + | + | + | - | ++ |
| Sulfuric acid, 98% | - | - | ++ | - | - | ++ | - | + | - | - | - | - | - | - | - | + |
| Trichloroacetic acid, 25% | n.a. | - | ++ | ++ | - | ++ | - | + | - | - | - | - | - | + | - | + |
| Bases | | | | | | | | | | | | | | | | |
| Ammonia, 1N | ++ | - | ++ | + | ++ | ++ | - | ++ | - | - | - | - | - | + | ++ | ++ |
| Ammonium hydroxide, 25% | + | + | ++ | + | ++ | + | - | + | - | - | - | - | - | + | + | + |
| Potassium hydroxide, 32% | ++ | - | ++ | - | + | + | - | ++ | - | - | - | - | - | - | + | ++ |
| Sodium hydroxide, 32% | ++ | - | ++ | - | + | + | - | + | - | - | - | - | - | - | + | + |
| Sodium hydroxide, 1N | ++ | - | ++ | + | ++ | + | - | ++ | - | - | - | - | - | + | ++ | ++ |
| Aqueous solutions | | | | | | | | | | | | | | | | |
| Formalin, 30% | + | ++ | ++ | + | ++ | ++ | + | + | + | + | + | + | + | + | + | + |
| Sodium hypochlorite, 5% | ++ | - | ++ | - | - | ++ | + | + | + | - | - | + | + | - | - | + |
| Hydrogen peroxide, 35% | ++ | - | ++ | - | - | ++ | + | ++ | + | - | - | + | + | - | - | ++ |
| pH range | | | | | | | | | | | | | | | | |
| pH 1-14 | - | - | ++ | - | - | ++ | - | ++ | | | | | | | | |
| pH 1-13 | ++ | - | ++ | - | - | ++ | - | ++ | | | | | | | | |
| pH 3-14 | + | - | ++ | + | ++ | ++ | - | ++ | | | | | | | | |
| pH 3-12 | ++ | - | ++ | ++ | ++ | ++ | + | ++ | | | | | | | | |
| pH 4-8 | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | | | | | | | | |

Legend

| | |
|-----------------------|------|
| Compatible | ++ |
| Limited compatibility | + |
| Not compatible | - |
| not analyzed | n.a. |

¹⁾ gamma irradiation feasible for Minisart® Air

Contact time: 24 hours at 20 °C. Chemical compatibilities can be influenced by various factors. Therefore, we recommend that you confirm compatibility with the liquid you want to filter by performing a trial filtration run before you start your actual filtration.

Minisart® Syringe Filters – Sample Preparation

Reliable Removal of Particles and Microorganisms from Liquids to Protect Your Analytical Instruments

Elimination of particles from your samples prior to HPLC or other chromatographic analysis is essential in order to maintain the integrity of your chromatography column and to maximize its operating life. Minisart® syringe filters for sample preparation consist of a PP housing and membrane components featuring maximum chemical compatibility and minimum extractables to ensure excellent results.



Features & Benefits

Low adsorption.

Lowest non-specific binding for minimal analyte loss.

Maximum chemical compatibility.

Minisart® are suitable for sample preparation across multiple application areas.

Minimum extractables or leachables.

Low background noise and pure analytical results.

Superior flow rate.

Fast and easy sample preparation.

In-production integrity leakage test

Highest quality Minisart® syringe filters for reliable results.

Applications

- Sample preparation prior to analytical methods
- Filtration of organic solvents, running buffers, and harsh chemical solutions
- Sterile filtration of gases and air with Minisart SRP



* Sterile Minisarts are individually packaged. If not stated otherwise, Minisarts have been sterilized by ethylene oxide. The following Minisarts are NOT presterilized unless specifically noted. RC, PTFE and Nylon can be sterilized by autoclaving at 121°C for 30 min/or by using ethylene oxide (EO).

Specifications & Pricing

Minisart® RC (Regenerated Cellulose)

| Model | Ø mm | Membrane | Housing | Pore Size | Connector Outlet | Color/Printing | Sterile* | Qty/Pk | US List Price (\$) |
|---------------|-------|----------|---------|-----------|------------------|----------------|----------|--------|--------------------|
| 17764-----ACK | 25 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | Yes | 50 | 135 |
| 17764-----K | 25 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 50 | 120 |
| 17764-----S | 25 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 200 | 385 |
| 17764-----Q | 25 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 500 | 830 |
| 17765-----K | 25 mm | RC | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 50 | 120 |
| 17765-----S | 25 mm | RC | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 200 | 385 |
| 17765-----Q | 25 mm | RC | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 500 | 830 |
| 17761-----ACK | 15 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | Yes | 50 | 120 |
| 17761-----K | 15 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 50 | 110 |
| 17761-----Q | 15 mm | RC | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 500 | 790 |
| 17762-----K | 15 mm | RC | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 50 | 110 |
| 17762-----Q | 15 mm | RC | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 500 | 790 |
| 17821-----K | 4 mm | RC | PP | 0.2 µm | Male Luer Slip | Blue Tray | No | 50 | 77 |
| 17821-----Q | 4 mm | RC | PP | 0.2 µm | Male Luer Slip | Blue Tray | No | 500 | 670 |
| 17822-----K | 4 mm | RC | pp | 0.45 µm | Male Luer Slip | Yellow Tray | No | 50 | 77 |
| 17822-----Q | 4 mm | RC | PP | 0.45 µm | Male Luer Slip | Yellow Tray | No | 500 | 670 |

Minisart® SRP (Hydrophobic PTFE)

| | | | | | | | | | |
|-----------------|-------|------|----|---------|----------------|----------------|-----|-----|-----|
| S7575-----FXOSK | 25 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | Yes | 50 | 169 |
| 17575-----K | 25 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 50 | 152 |
| 17575-----S | 25 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 200 | 505 |
| 17575-----Q | 25 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 500 | 915 |
| 17576-----K | 25 mm | PTFE | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 50 | 152 |
| 17576-----S | 25 mm | PTFE | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 200 | 505 |
| 17576-----Q | 25 mm | PTFE | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 500 | 915 |
| 17558-----K | 15 mm | PTFE | PP | 0.2 µm | Male Spike | White, Printed | No | 50 | 141 |
| 17558-----Q | 15 mm | PTFE | PP | 0.2 µm | Male Spike | White, Printed | No | 500 | 800 |
| 17573-----ACK | 15 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | Yes | 50 | 146 |
| 17573-----K | 15 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 50 | 135 |
| 17573-----Q | 15 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 500 | 795 |
| 17559-----K | 15 mm | PTFE | PP | 0.45 µm | Male Spike | White, Printed | No | 50 | 141 |
| 17559-----Q | 15 mm | PTFE | PP | 0.45 µm | Male Spike | White, Printed | No | 500 | 800 |
| 17574-----K | 15 mm | PTFE | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 50 | 135 |
| 17574-----Q | 15 mm | PTFE | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 500 | 795 |
| 17844-----Q | 4 mm | PTFE | PP | 0.2 µm | Male Luer Slip | Blue Tray | No | 500 | 670 |
| 17820-----K | 4 mm | PTFE | PP | 0.45 µm | Male Luer Slip | Yellow Tray | No | 50 | 77 |
| 17820-----Q | 4 mm | PTFE | PP | 0.45 µm | Male Luer Slip | Yellow Tray | No | 500 | 670 |

Minisart® NY (Nylon) & NY25 Plus (Glass Fiber 1.2 µm + Nylon)

| | | | | | | | | | |
|---------------|-------|----------|----|---------|----------------|----------------|-----|-----|-------|
| 17845-----ACK | 25 mm | Nylon | PP | 0.2 µm | Male Luer Slip | White, Printed | Yes | 50 | 135 |
| 17845-----Q | 25 mm | Nylon | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 500 | 830 |
| 17846-----ACK | 25 mm | Nylon | PP | 0.45 µm | Male Luer Slip | White, Printed | Yes | 50 | 135 |
| 17846-----Q | 25 mm | Nylon | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 500 | 830 |
| 1776B-----K | 15 mm | Nylon | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 50 | 110 |
| 1776B-----Q | 15 mm | Nylon | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 500 | 790 |
| 1776C-----K | 15 mm | Nylon | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 50 | 110 |
| 1776C-----Q | 15 mm | Nylon | PP | 0.45 µm | Male Luer Slip | White, Printed | No | 500 | 790 |
| 1784B-----K | 25 mm | Nylon+GF | PP | 0.2 µm | Male Luer Slip | White, Printed | No | 50 | 169 |
| 1784B-----Q | 25 mm | Nylon+GF | PP | 0.2 µm | Male Luer Slip | White, printed | No | 500 | 1,190 |
| 1784C-----K | 25 mm | Nylon+GF | PP | 0.45 µm | Male Luer Slip | White, printed | No | 50 | 169 |
| 1784C-----Q | 25 mm | Nylon+GF | PP | 0.45 µm | Male Luer Slip | White, printed | No | 500 | 1,190 |

Minisart® Syringe Filters – Aqueous Liquids

Make Your Choice from a Broad Range of Pore Sizes, Materials and Formats

For clarification and sterilization of liquids, filtration is the optimal method. It removes all microorganisms and particles reliably, without any effects on the ingredients, due to adsorption or decomposition. Minisart® filters, made of MBS housing, provide high flow rates and the lowest adsorption characteristics. The MBS housing is color-coded for an easy pore size identification.



Features & Benefits

Low adsorption

Lowest non-specific binding for minimal loss of dissolved reagents, biomolecules and drugs.

Minimum leachables and particulates

Pure filtrates.

Superior flow rates

Fast and easy filtration of liquids.

High total throughput

Optimal filtration volume.

In-production integrity leakage test

Ensures highest quality Minisart® syringe filters for reliable results.

Applications

- Clarification of aqueous solutions prior to downstream applications
- Sterile filtration of aqueous liquids, protein solutions, buffers, etc.
- Sterile filtration of cell culture buffers and additives



Specifications & Pricing

Minisart® High Flow (PES – Polyethersulfone)

| Model | Ø mm | Membrane | Housing | Pore Size | Connector Outlet | Color/Printing | Sterile* | Qty/Pk | US List Price (\$) |
|---------------|-------|----------|---------|-----------|------------------|----------------|----------|--------|--------------------|
| 16553-----K | 28 mm | PES | MBS | 0.1 µm | Male Luer Lock | Dark Red | Yes | 50 | 141 |
| 16532-----GUK | 28 mm | PES | MBS | 0.2 µm | Male Luer Lock | Royal Blue | Yes# | 50 | 141 |
| 16532-----K | 28 mm | PES | MBS | 0.2 µm | Male Luer Lock | Royal Blue | Yes | 50 | 141 |
| 16541-----K | 28 mm | PES | MBS | 0.2 µm | Male Luer Slip | Royal Blue | Yes | 50 | 141 |
| 16532-----Q | 28 mm | PES | MBS | 0.2 µm | Male Luer Lock | Royal Blue | No | 500 | 785 |
| 16541-----Q | 28 mm | PES | MBS | 0.2 µm | Male Luer Slip | Royal Blue | No | 500 | 785 |
| 16537-----K | 28 mm | PES | MBS | 0.45 µm | Male Luer Lock | Amber | Yes | 50 | 141 |
| 16537-----Q | 28 mm | PES | MBS | 0.45 µm | Male Luer Lock | Amber | No | 500 | 785 |
| 16533-----GUK | 28 mm | PES | MBS | 0.45 µm | Male Luer Slip | Amber | Yes# | 50 | 141 |
| 16533-----K | 28 mm | PES | MBS | 0.45 µm | Male Luer Slip | Amber | Yes | 50 | 141 |
| 16533-----Q | 28 mm | PES | MBS | 0.45 µm | Male Luer Slip | Amber | No | 500 | 785 |

Minisart® NML (SFCA - Surfactant-free Cellulose Acetate)

| | | | | | | | | | |
|-----------------|-------|------|-----|---------|----------------|--------|------|-----|-----|
| S6534-----FMOSK | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | Yes | 50 | 141 |
| S6534-----FMGUK | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | Yes# | 50 | 141 |
| S6534-----FM--Q | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | No | 500 | 815 |
| S7597-----FXOSK | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Slip | Blue | Yes | 50 | 141 |
| S7597-----FX--Q | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Slip | Blue | No | 500 | 815 |
| S6555-----FMOSK | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | Yes | 50 | 141 |
| S6555-----FMGUK | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | Yes# | 50 | 141 |
| S6555-----FM--Q | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | No | 500 | 815 |
| S7598-----FXOSK | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Slip | Yellow | Yes | 50 | 141 |
| S7598-----FX--Q | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Slip | Yellow | No | 500 | 815 |
| 16569-----K | 28 mm | SFCA | MBS | 0.65 µm | Male Luer Slip | Pink | Yes | 50 | 132 |
| 16592-----K | 28 mm | SFCA | MBS | 0.8 µm | Male Luer Lock | Green | Yes | 50 | 132 |
| 16592-----GUK | 28 mm | SFCA | MBS | 0.8 µm | Male Luer Lock | Green | Yes# | 50 | 132 |
| 16592-----Q | 28 mm | SFCA | MBS | 0.8 µm | Male Luer Lock | Green | No | 500 | 790 |
| 17593-----K | 28 mm | SFCA | MBS | 1.2 µm | Male Luer Lock | Red | Yes | 50 | 132 |
| 17593-----Q | 28 mm | SFCA | MBS | 1.2 µm | Male Luer Lock | Red | No | 500 | 790 |
| S7594-----FMOSK | 28 mm | SFCA | MBS | 5 µm | Male Luer Lock | Brown | Yes | 50 | 141 |
| 17594-----Q | 28 mm | SFCA | MBS | 5 µm | Male Luer Lock | Brown | No | 500 | 815 |

Minisart® NML Plus (Glass Fiber 1.2 µm + SFCA)

| | | | | | | | | | |
|-------------|-------|---------|-----|---------|----------------|--------|-----|-----|-----|
| 17823-----K | 28 mm | GF+SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | Yes | 50 | 158 |
| 17823-----Q | 28 mm | GF+SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | No | 500 | 930 |
| 17829-----K | 28 mm | GF+SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | Yes | 50 | 158 |
| 17829-----Q | 28 mm | GF+SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | No | 500 | 930 |
| 17825-----Q | 28 mm | GF+SFCA | MBS | 1.2 µm | Male Luer Lock | Red | No | 500 | 930 |
| 17824-----K | 28 mm | GF | MBS | 0.7 µm | Male Luer Lock | White | No | 50 | 87 |
| 17824-----Q | 28 mm | GF | MBS | 0.7 µm | Male Luer Lock | White | No | 500 | 685 |

* Sterilized Minisarts are individually packaged. If not stated otherwise, Minisarts are sterilized by ethylene oxide.

#-Mark indicates sterilization by gamma irradiation.

Minisarts on this page are supplied individually wrapped and sterile, except in packs of 500 (Q). PES, SFCA, GF+SFCA and GF can be sterilized by ethylene oxide or gamma irradiation.

Minisart® Syringe Filters – Venting & Special Applications

Make Your Choice from a Broad Range of Pore Sizes, Materials and Formats

Minisart® syringe filters are available in a broad range of pore sizes. They are ideal for clarification of liquids laden with particles, e.g. for preparation of pharmaceuticals or infusion solutions. Syringe filters are ideal for sterilization and removal of particles from air and other gases as well as the sterile venting of containers, bioreactors, fermenters and tubing systems. Minisart® syringe filters are available in a wide choice of membranes, connectors and housing materials.



Features & Benefits

In-production integrity leakage test

Highest quality Minisart® syringe filters for reliable results.

Low adsorption

Lowest non-specific binding for minimal loss of biomolecules and drugs.

Superior flow rates

Fast and easy filtration of liquids or optimal sterile venting of containers.

Minimum leachables and particulates

Purify filtered solutions or gases without contamination.

Various connectors

Many choices of connector inlets and outlets for optimal usage or assembling to tubing systems.

Applications

- Particulate removal from liquids and gasses
- Sterile filtration of biomolecules and drug solutions
- Sterile venting of bags, fermenters and bioreactors
- Moisture barriers for electronic and other devices



Specifications & Pricing

Minisart® NML (SFCA - Cellulose Acetate) Aqueous Filtration

| Model | Ø mm | Membrane | Housing | Pore Size | Connector Outlet | Color/Printing | Sterile* | Qty/Pk | US List Price (\$) |
|-----------------|-------|----------|---------|-----------|------------------|----------------|----------|--------|--------------------|
| S6534-----FMOSK | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | Yes | 50 | 141 |
| S6534-----FM--Q | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Lock | Blue | No | 500 | 815 |
| S7597-----FXOSK | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Slip | Blue | Yes | 50 | 141 |
| S7597-----FX--Q | 28 mm | SFCA | MBS | 0.2 µm | Male Luer Slip | Blue | No | 500 | 815 |
| S6555-----FMOSK | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | Yes | 50 | 141 |
| S6555-----FMGUK | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | Yes# | 50 | 141 |
| S6555-----FM--Q | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Lock | Yellow | No | 500 | 815 |
| S7598-----FXOSK | 28 mm | SFCA | MBS | 0.45 µm | Male Luer Slip | Yellow | Yes | 50 | 141 |
| S7598-----FX--Q | 28mm | SFCA | MBS | 0.45 | Male Luer Slip | Yellow | No | 500 | 815 |
| S7594-----FMOSK | 28 mm | SFCA | MBS | 5 µm | Male Luer Lock | Brown | Yes | 50 | 141 |

Minisart® Ophthalmart (SFCA - Cellulose Acetate) Aqueous Filtration

| | | | | | | | | | |
|-------------|-------|-------------|-----|--------|----------------|------|-----|----|-----|
| 17528-----K | 28 mm | Ophthalmart | MBS | 0.2 µm | Male Luer Slip | Pink | Yes | 50 | 141 |
|-------------|-------|-------------|-----|--------|----------------|------|-----|----|-----|

Minisart® High Flow (PES - Polyethersulfon) Aqueous Filtration

| | | | | | | | | | |
|-------------|-------|-----|-----|--------|----------------|----------|-----|----|-----|
| 16553-----K | 28 mm | PES | MBS | 0.1 µm | Male Luer Lock | Dark Red | Yes | 50 | 141 |
|-------------|-------|-----|-----|--------|----------------|----------|-----|----|-----|

Minisart® (PES - Polyethersulfon) Aqueous Filtration

| | | | | | | | | | |
|---------------|-------|-----|----|--------|----------------|-------|-----|----|-----|
| 1776D-----ACK | 15 mm | PES | PP | 0.2 µm | Male Luer Slip | White | Yes | 50 | 146 |
|---------------|-------|-----|----|--------|----------------|-------|-----|----|-----|

Minisart® Air (hydrophobic PTFE) Venting & Gas Filtration

| | | | | | | | | | |
|---------------|-------|------|-----|--------|-------------------------|--------|------|-----|-----|
| 1751A-----Q | 15 mm | PTFE | MBS | 0.2 µm | Male Luer Slip | Yellow | No | 500 | 815 |
| 16596-----HMK | 15 mm | PTFE | MBS | 0.2 µm | Male Luer Slip + Needle | Yellow | Yes# | 50 | 230 |

Minisart® HY (hydrophobic PTFE) CE-marked Venting & Gas Filtration

| | | | | | | | | | |
|-----------------|-------|------|-----|--------|-----------------------------|-------|-----|-----|-----|
| S6596-----FMOSK | 26 mm | PTFE | MBS | 0.2 µm | Male Luer Lock | Clear | Yes | 50 | 141 |
| S6596-----FM--Q | 26 mm | PTFE | MBS | 0.2 µm | Male Luer Lock | Clear | No | 500 | 815 |
| 16599-----HYQ | 26 mm | PTFE | MBS | 0.2 µm | Male Luer Lock ^a | Clear | No | 500 | 815 |
| 1659A-----HYQ | 26 mm | PTFE | MBS | 1 µm | Male Luer Lock | Clear | No | 500 | 815 |

Minisart® Acticosart with Dome Reservoir + hydrophobic PTFE Venting & Ultracleaning of Gases

| | | | | | | | | | |
|-------------|-------|-------------------------------|-----|---------|-----------------------------|------|----|-----|-------|
| 17840-----Q | 26 mm | active carbon reservoir +PTFE | MBS | 0.45 µm | Male Luer Slip ^a | Blue | No | 500 | 2,090 |
|-------------|-------|-------------------------------|-----|---------|-----------------------------|------|----|-----|-------|

Minisart® SRP (hydrophobic PTFE) CE-marked Venting, Gas Filtration & Filtration of Solvents

| | | | | | | | | | |
|-----------------|-------|------|----|--------|----------------|-------|-----|-----|-------|
| S7575-----FXOSK | 25 mm | PTFE | PP | 0.2 µm | Male Luer Slip | White | Yes | 50 | 169 |
| 1757A-----Q | 26 mm | PTFE | PP | 0.2 µm | Hose Barb | White | No | 500 | 1,075 |

* Sterilized Minisarts are individually packaged. If not stated otherwise, Minisarts are sterilized by ethylene oxide.

#-mark indicates sterilization by gamma irradiation

Minisarts NOT presterilized: SFCA can be sterilized by ethylene oxide or gamma irradiation. PTFE can be sterilized by ethylene oxide.

^a Connector inlet: Male Luer slip (all other Minisarts have female luer lock inlets)

^b Hose barbs, inlet and outlet, 5 mm diameter

Sartolab® Filter Units

Sterile Filtration of Sample Volumes Up to 5 Liter

Sartolab® filters are ready-to-use filtration units for sterile filtration of tissue culture media and components, biological fluids, and other aqueous solutions. The large filtration area and the optimal design guarantees high flow rates with high total throughput. Sartolab® P20 disposable filters are designed for pressure filtration of volumes from 100 ml to 5 l. Sartolab® RF/BT or 150V filter systems are designed for the vacuum filtration of volumes from 100 ml to 15 l.



Features & Benefits

Lowest adsorption with Sartolab® P20 SFCA

For lowest non-specific binding and minimal loss of dissolved reagents, biomolecules and drugs

Highest flow rates with Sartolab® P20 PES

For fastest processing of solutions

High total throughput

For optimal filtration volumes

Applications

- Sterile filtration of media and aqueous solutions
- Filtration of sera and difficult-to-filter solutions with Sartolab® P20 Plus with incorporated prefilter

Specifications & Pricing

| Model | Pore Size | Membrane | Housing | Inlet | Outlet | Sterile | Qty/Pk | US List Price (\$) |
|---------------------------|-----------|-----------|---------|-------------|-------------|---------|--------|--------------------|
| Sartolab® P20 | | | | | | | | |
| 18052-----D | 0.2µm | SFCA | PC | Hose Nipple | Hose Nipple | Yes | 10 | 96 |
| 18053-----D | 0.2µm | SFCA | PC | Luer Lock | Hose Nipple | Yes | 10 | 96 |
| 18075-----D | 0.2µm | PES | PC | Luer Lock | Hose Nipple | Yes | 10 | 100 |
| Sartolab® P20 Plus | | | | | | | | |
| 18056-----D | 0.2µm | SFCA + GF | PC | Hose Nipple | Hose Nipple | Yes | 10 | 135 |
| 18058-----D | 0.2µm | SFCA + GF | PC | Luer Lock | Hose Nipple | Yes | 10 | 135 |
| 18068-----D | 0.2µm | PES + GF | PC | Luer Lock | Hose Nipple | Yes | 10 | 135 |

SFCA - Cellulose Acetate, PES - Polyethersulfone, GF - Glass Fiber Prefilter, PC - Polycarbonate



Sartolab® RF/BT & Sartolab® 150V

Vacuum Filter Systems and Bottle Top Filters

Features

- Sartolab® RF and BT units with optimized support grid
For maximum flow rate, reduced foaming and protein denaturation
- Sartolab® RF and BT units with enlarged, square filtration area
For higher total throughput and optimized preparation time
- Sartolab® 150V capsule with 150 cm² pleated PES membrane surface
For highest filtration volumes up to 15 l

Applications

- Vacuum filtration of tissue culture media and components, biological fluids, and other aqueous solutions
- Sartolab® RF including receiver flasks - a complete systems including containers for storage down to -20°C
- Sartolab® BT bottle top filters - gasket design ensures a vacuum-tight seal with a choice of receiver bottles
- Sartolab® 150V capsules - compatible with various receiver flask bottle neck diameters for collection of high filtrate volumes

Specifications & Pricing

| Model | Volume | Filter Area | Membrane | Qty/Pk | US List Price (\$) |
|---|----------|---------------------|-------------|--------|--------------------|
| Sartolab® RF Filtration System Including Collection Bottle | | | | | |
| 180C1-----E | 150 ml | 18 cm ² | 0.2 µm PES | 12 | 90 |
| 180C7-----E | 250 ml | 24 cm ² | 0.2 µm PES | 12 | 101 |
| 180C2-----E | 500 ml | 39 cm ² | 0.2 µm PES | 12 | 166 |
| 180C3-----E | 1,000 ml | 62 cm ² | 0.2 µm PES | 12 | 240 |
| 180A1-----E | 250 ml | 24 cm ² | 0.45 µm CA | 12 | 133 |
| 180A2-----E | 500 ml | 39 cm ² | 0.45 µm CA | 12 | 220 |
| 180A3-----E | 1,000 ml | 62 cm ² | 0.45 µm CA | 12 | 320 |
| 180C8-----E | 1,000 ml | 62 cm ² | 0.1 µm PES | 12 | 250 |
| Sartolab® 150V Filtration Capsule | | | | | |
| 18080-----M | n/a | 150 cm ² | 0.22 µm PES | 3 | 113 |
| Sartolab® BT Bottle Top Filters Without Integrated Collection Bottle | | | | | |
| 180C4-----K | 150 ml | 18 cm ² | 0.2 µm PES | 48 | 280 |
| 180C5-----E | 500 ml | 39 cm ² | 0.2 µm PES | 12 | 106 |
| 180C6-----E | 1,000 ml | 62 cm ² | 0.2 µm PES | 12 | 161 |
| 180A4-----E | 500 ml | 39 cm ² | 0.45 µm CA | 12 | 138 |



Sartolab® RF50

Vacuum Filtration Unit for Volumes of up to 50 mL

Sartolab® RF 50 vacuum filtration units are single-use units, designed for the filtration of sample volumes of up to 50 mL. They are available either with a 0.22 or a 0.45 µm polyethersulfone membranes. These provide fastest flow rates due to their asymmetric structure and ensure lowest protein binding as well as low extractables. The 0.22 µm version is ideal for sterile filtration; the 0.45 µm for clarification.



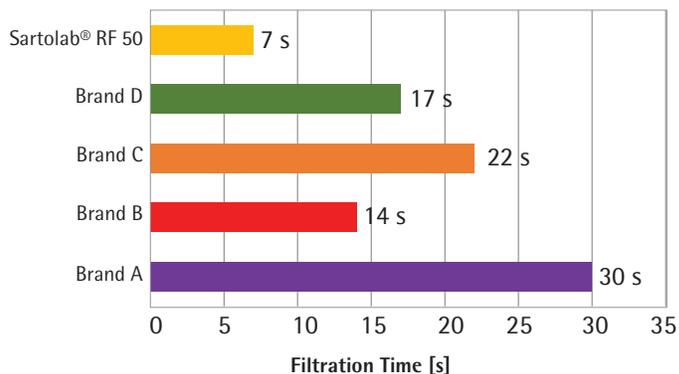
Features & Benefits

- Highest flow rates with an asymmetric membrane and a large surface area
- No loss of protein with a very low protein binding membrane
- Low dead volume thanks to an optimized membrane support
- Minimized risks of contamination with a complete ready-to-use unit
- Designed as standalone system or for a parallel filtration of up to 6 samples with Sartolab® MultiStation
- The yellow adapter connecting the funnel to the conical tube ensures a vacuum-tight seal and enables the filtration unit to be used on the Sartolab® MultiStation

Applications

- Ideal for sterile filtration of cell cultures, buffers, aqueous solutions and for clarification

Sartolab® RF 50 is the fastest 50 mL vacuum filtration unit compared to 4 of the leading competitor's units



Comparison of filtration times for 50 mL cell media + 10 % FBS in five 0.22 µm 50 mL vacuum filtration units

Specifications & Pricing

| Model | Description | Qty. | US List Price (\$) |
|--------------|-------------------------------|----------|--------------------|
| 180E01-----2 | Sartolab® RF 50, 0.22 µm, PES | 24 units | 193 |
| 180F01-----2 | Sartolab® RF 50, 0.45 µm, PES | 24 units | 193 |

| Common Specifications | |
|--|--|
| Hold-up volume | 1.2 mL |
| Filtration capacity | 50 mL |
| Size of the 50 mL conical tube | Height: 115.5 mm External/internal diameter: 29.5 mm/27.48 mm |
| Autoclavable | No |
| Sterilization method | E-Beam (beta) irradiation |
| Storage temp. of the conical tube | -80°C to max. 100°C |
| Packaging | Single-packaged, sterile |
| Operating pressure | -350 to -700 mbar |
| Materials | |
| Membrane filter | 0.22 µm polyethersulfone (order no. 180E01) 0.45 µm polyethersulfone (order no. 180F01) |
| Funnel adapter | Polyethylene |
| Tubing connector for vacuum connection | Polyethylene |
| Conical tube | Polypropylene |

Sartolab® Multistation

For Hands-free Parallel Filtration of up to 6 Samples

Sartolab® MultiStation is a stand specially designed to hold 1 to 6 vacuum filtration units, allowing simultaneous filtration of up to 6 samples. The MultiStation is permanently connected to your vacuum source. Easily install your vacuum filtration units in the MultiStation for quick and easy filtration of samples without the need for installation of extra connectors and time-consuming stabilization.



Features & Benefits

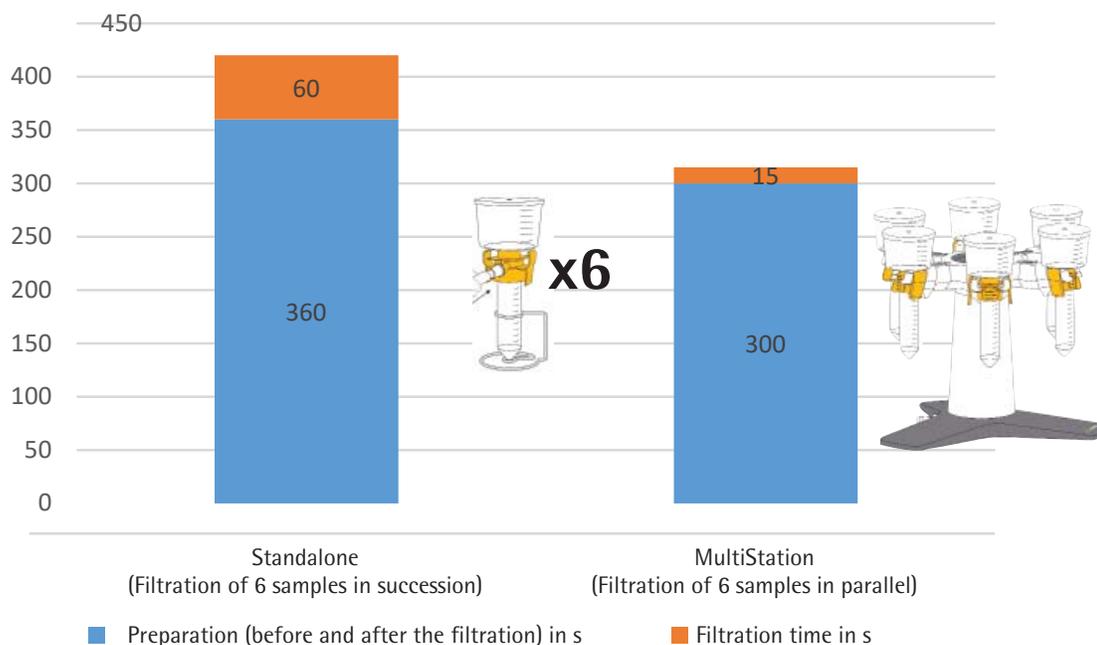
- Single vacuum source enables simultaneous filtration of up to 6 samples
- Time-saving (no installation time for each filter unit before use)
- Hands-free filtration
- With one click, connect the filtration unit to the device, assuring perfect filter stability
- With a second click, engage the vacuum automatically and begin filtering
- Manipulate your samples with the rotating, multi-directional head
- Easily keep track of your samples during filtration with the numbered brackets

Specifications & Pricing

| Model | Description | Qty. | US List Price (\$) |
|---------|--------------------------------|--------|--------------------|
| SDLC01 | Sartolab® Multistation | 1 unit | 2,875 |
| 166MP-4 | Microsart® e.jet Transfer Pump | 1 unit | 1,485 |

| Specifications | |
|--------------------------------------|---|
| Material (visible parts) | ABS/Aluminum/Stainless steel |
| Dimensions (Length x Width x Height) | 307 x 348 x 281 mm |
| Weight | 4.6 kg |
| Tubing Connector | Designed for tubing with an inner diameter between 4 and 100 mm and with a wall thickness of minimum 3 mm |

Example of Filtration of 6 x 50 mL Samples with and without the Sartolab® MultiStation



Sartoclear Dynamics® Lab V-Series

For Direct Harvest of Mammalian Cell Cultures up to 1L

The Sartoclear Dynamics® Lab V Kits combine the use of a filter aid for clarification and a vacuum filtration unit with a 0.22 µm polyethersulfone membrane for sterile filtration of up to 1 L of mammalian cell cultures. The filter aid is provided in pouches ready-to-use, dust-free and gamma irradiated. The accompanying pre-sterilized, Sartolab® RF bottle-top filters with receiving flasks are available in capacities ranging from 150 mL to 1,000 mL.



Features

- Pre-wetted, pharmaceutical-grade filtration aid
- Pre-sterilized vacuum filtration unit
- Body feed filtration process
- Disposable, single-use system
- Available in volumes ranging from 150 mL to 1,000 mL

Applications

- Direct harvest of mammalian cell cultures

Benefits

Reduces preparation time

The pre-packaged, dust-free filtration aid and pre-sterilized filtration unit come ready to use.

Faster harvesting

The porous structure of the pharmaceutical grade filtration aid acts as a spacer between solids that build up on the membrane to avoid clogging and increase throughput.

Easy, single-step processing

The simple body feed filtration process provides a product that is free of cell debris and sterile.

Eliminates the need for centrifugation

Samples are processed quickly using a small vacuum pump without the need for time-consuming centrifugation.

Avoids the need for cleaning between samples

The disposable filter and membrane are designed for single use, eliminating the need for cleaning between samples.

Specifications & Pricing

| Model | Description | Qty/Pk | US List Price (\$) |
|-------------------------------------|--|--------|--------------------|
| Sartolab® P20 | | | |
| SDLV-1000-40C--E | Sartoclear Dynamics® Lab V, 1000 ml, 40 g | 12 | 495 |
| SDLV-1000-20C--E | Sartoclear Dynamics® Lab V, 1000 ml, 20 g | 12 | 460 |
| SDLV-1000-10C--2 | Sartoclear Dynamics® Lab V, 1000 ml, 10 g | 24 | 845 |
| SDLV-0500-20C--E | Sartoclear Dynamics® Lab V, 500 ml, 20 g | 12 | 335 |
| SDLV-0500-10C--2 | Sartoclear Dynamics® Lab V, 500 ml, 10 g | 24 | 590 |
| SDLV-0500-05C--2 | Sartoclear Dynamics® Lab V, 500 ml, 5 g | 24 | 535 |
| SDLV-0250-10C--2 | Sartoclear Dynamics® Lab V, 250 ml, 10 g | 24 | 480 |
| SDLV-0250-05C--2 | Sartoclear Dynamics® Lab V, 250 ml, 5 g | 24 | 425 |
| SDLV-0150-05C--2 | Sartoclear Dynamics® Lab V, 150 ml, 5 g | 24 | 395 |
| SDLV-0150-02C--E | Sartoclear Dynamics® Lab V, 150 ml, 2 g | 12 | 183 |
| Sartoclear Dynamics® Lab V50 | | | |
| SDLV-0050-01E0-2 | Sartoclear Dynamics® Lab V50, 0.22 µm, 1 g | 24 | 310 |
| SDLV-0050-01F0-2 | Sartoclear Dynamics® Lab V50, 0.45 µm, 1 g | 24 | 310 |
| SDLV-0050-02E0-2 | Sartoclear Dynamics® Lab V50, 0.22 µm, 2 g | 24 | 345 |
| SDLV-0050-02F0-2 | Sartoclear Dynamics® Lab V50, 0.45 µm, 2 g | 24 | 345 |

Sartoclear Dynamics® Lab P15

For Clarification and Sterile Filtration of Mammalian Cell Culture in a Single Step

Ready-to-use Sartoclear Dynamics® Lab P15 takes the pain out of protein harvesting by enabling clarification and sterile filtration of 15 mL cell culture stock in one simple step. The Sartoclear Dynamics Lab P15 kit combines a syringe pre-filled with a pharmaceutical grade filtration aid for clarification and an integrated 0.2µm polyethersulfone filter for sterile filtration.

Features

- Ready-to-use
- Pharmaceutical grade filtration aid
- Single step methodology
- Disposable
- 15 ml sample capacity

Applications

- Cell culture harvesting



Benefits

Reduces preparation time

The pre-packed syringe comes ready to use.

Faster cell culture harvesting

The porous structure of the filtration aid acts as a spacer between solids that build up on the membrane to avoid clogging and increase throughput.

Easy, single-step processing

A simple push of the plunger provides a product that is both free of cell debris and sterile.

Eliminates the need for additional equipment

Samples are processed without the need for a power supply or additional equipment.

Avoids the need for cleaning between samples

The product is designed for one time use, eliminating the need for cleaning between samples.

Specifications & Pricing

| Model | Description | US List Price (\$) |
|------------------|---|--------------------|
| SDLP--0015-----C | 6 x 20 mL syringes, pre-filled with 0.5 g DE, including caps and filling tubes, 6 x sterile filters | 142 |



Ultrafiltration Membrane Discs

For Flexible Sample Concentration

Ultrafiltration membrane discs for sample concentration are available in three materials: Polyethersulfone (PES) with high flux provides no hydrophobic or hydrophilic interactions and low fouling characteristics, cellulose triacetate (CTA) for high hydrophilicity and high ultrafiltrate recovery and Hydrosart® modified regenerated cellulose for extremely low protein binding and extended chemical resistance. Our ultrafiltration membrane discs are available in various MWCOs and diameters.



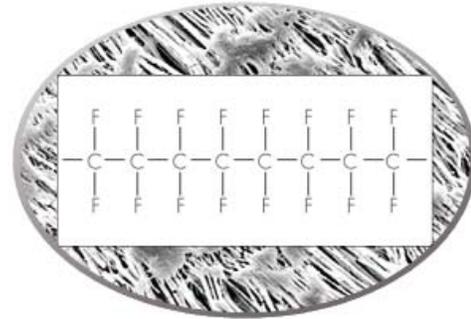
Specifications & Pricing

| Model | Molecular Weight Cut-Off (MWCO) in daltons | Diameter (mm) | Qty. PK | US List Price (\$) | Model | Molecular Weight Cut-Off (MWCO) in daltons | Diameter (mm) | Qty. PK | US List Price (\$) |
|-------------------------|--|---------------|---------|--------------------|-----------------------------|--|---------------|---------|--------------------|
| Polyethersulfone | | | | | Cellulose Triacetate | | | | |
| 14609--47-----D | 1,000 | 47 | 10 | 106 | 14529--25-----D | 5,000 | 25 | 10 | 68 |
| 14609--63-----D | 1,000 | 63 | 10 | 128 | 14529--47-----D | 5,000 | 47 | 10 | 109 |
| 14609--76-----D | 1,000 | 76 | 10 | 210 | 14539--25-----D | 10,000 | 25 | 10 | 68 |
| 14629--25-----D | 5,000 | 25 | 10 | 79 | 14439--47-----D | 10,000 | 47 | 10 | 133 |
| 14629--47-----D | 5,000 | 47 | 10 | 109 | 14539--50-----D | 10,000 | 50 | 10 | 109 |
| 14629--63-----D | 5,000 | 63 | 10 | 151 | 14549--25-----D | 20,000 | 25 | 10 | 64 |
| 14629--76-----D | 5,000 | 76 | 10 | 255 | 14549--43-----D | 20,000 | 43 | 10 | 103 |
| 14639--25-----D | 10,000 | 25 | 10 | 79 | 14549--63-----D | 20,000 | 47 | 10 | 157 |
| 14639--63-----D | 10,000 | 63 | 10 | 151 | | | | | |
| 14639--76-----D | 10,000 | 76 | 10 | 255 | | | | | |
| 14639-150-----D | 10,000 | 150 | 10 | 470 | | | | | |
| 14659--25-----D | 30,000 | 25 | 10 | 68 | | | | | |
| 14659--63-----D | 30,000 | 63 | 10 | 151 | | | | | |
| 14659--76-----D | 30,000 | 76 | 10 | 255 | | | | | |
| 14650--25-----D | 50,000 | 25 | 10 | 68 | | | | | |
| 14650--47-----D | 50,000 | 47 | 10 | 109 | | | | | |
| 14650--76-----D | 50,000 | 76 | 10 | 210 | | | | | |
| 14679--25-----D | 300,000 | 25 | 10 | 73 | | | | | |
| 14679--47-----D | 300,000 | 47 | 100 | 109 | | | | | |
| 14679--76-----D | 300,000 | 76 | 10 | 210 | | | | | |
| Hydrosart | | | | | | | | | |
| 14429--25-----D | 5,000 | 25 | 10 | 98 | | | | | |
| 14429--44-----D | 5,000 | 44 | 10 | 129 | | | | | |
| 14429--63-----D | 5,000 | 63 | 10 | 188 | | | | | |
| 14429--76-----D | 5,000 | 76 | 10 | 310 | | | | | |
| 14439--25-----D | 10,000 | 25 | 10 | 98 | | | | | |
| 14439--47-----D | 10,000 | 47 | 10 | 133 | | | | | |
| 14439--63-----D | 10,000 | 63 | 10 | 188 | | | | | |
| 14439--76-----D | 10,000 | 76 | 10 | 310 | | | | | |
| 14459--25-----D | 30,000 | 25 | 10 | 85 | | | | | |
| 14459--47-----D | 30,000 | 47 | 10 | 133 | | | | | |
| 14459--63-----D | 30,000 | 63 | 10 | 188 | | | | | |
| 14459--76-----D | 30,000 | 76 | 10 | 265 | | | | | |

Hydrophobic PTFE

Membrane Filters

For filtration of air, gases or chemicals. These filters are made of PTFE (polytetrafluorethylene) only and are therefore permanently hydrophobic. Unlike other (hydrophilic) filter types, they are not wetted by air humidity, allowing unhindered passage of air at low differential pressures. PTFE membrane filters have an excellent chemical compatibility (pH 1-14), and are therefore suitable for filtration of solvents and acids. Due to their hydrophobic characteristics, they must be pre-wetted with ethanol or methanol before the filtration of aqueous media.



Features

- Resistant to all known solvents (pH 1-14)
- Very low protein binding
- Hydrophobic
- Good thermal resistance up to 200 °C
- Available in pore sizes 0.2, 0.45, 1.2 & 5 µm

Applications

- Particle removal in solvents
- Sterile venting
- Filtration of air & gases (environment)

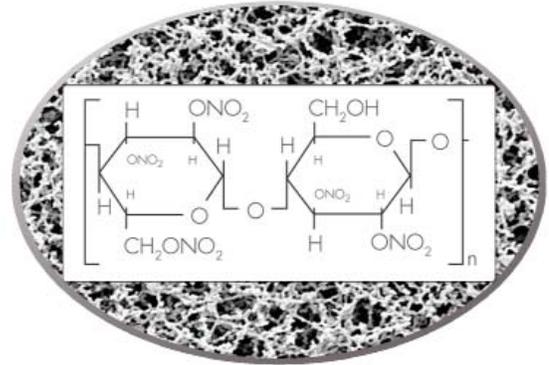
Specifications & Pricing

| Model | Grade | Pore Size (µm) | Thickness (µm) | Bubble point (bar) | Isopropanol flow rate (ml/min/cm ² /bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|----------------|----------------|--------------------|---|---------------|---------------|--------------------|
| 11807--13-----N | 11807 | 0.2 | 65 | 1.0 | 11 | 13 | 100 | 230 |
| 11807--25-----N | | | | | | 25 | 100 | 275 |
| 11807--47-----N | | | | | | 47 | 100 | 410 |
| 11807--50-----N | | | | | | 50 | 100 | 395 |
| 11807--90-----G | | | | | | 90 | 25 | 410 |
| 11807-100-----G | | | | | | 100 | 25 | 410 |
| 11806--13-----N | 11806 | 0.45 | 80 | 0.8 | 20 | 13 | 100 | 230 |
| 11806--25-----N | | | | | | 25 | 100 | 275 |
| 11806--37-----N | | | | | | 37 | 100 | 410 |
| 11806--47-----N | | | | | | 47 | 100 | 410 |
| 11806--50-----N | | | | | | 50 | 100 | 410 |
| 11806--90-----G | | | | | | 90 | 25 | 410 |
| 11806-100-----G | | | | | | 100 | 25 | 410 |
| 11803--13-----N | 11803 | 1.2 | 100 | 0.45 | 80 | 13 | 100 | 275 |
| 11803--25-----N | | | | | | 25 | 100 | 320 |
| 11803--47-----N | | | | | | 47 | 100 | 410 |
| 11803--50-----N | | | | | | 50 | 100 | 410 |
| 11803--90-----G | | | | | | 90 | 25 | 325 |
| 11803-100-----G | | | | | | 100 | 25 | 410 |
| 11842--25-----N | 11842 | 5 | 100 | 0.10 | 210 | 25 | 100 | 320 |
| 11842--42-----N | | | | | | 42 | 100 | 560 |
| 11842--47-----G | | | | | | 47 | 25 | 138 |
| 11842--47-----N | | | | | | 47 | 100 | 410 |
| 11842--50-----N | | | | | | 50 | 100 | 410 |
| 11842-100-----G | | | | | | 100 | 25 | 410 |

Cellulose Nitrate

Membrane Filters

Cellulose nitrate membrane filters are used for many general laboratory applications where a membrane with a high non-specific adsorption is suitable. They are hydrophilic, have high flow rates due to their symmetric structure and are compatible with aqueous solutions (pH 4-8), hydrocarbons and several other organic solvents. The cellulose nitrate membranes are available in different pore sizes from 0.2 μm to 8 μm .



Features

- High protein adsorption
- Hydrophilic
- High flow rates
- Compatible with aqueous solutions (pH 4-8), hydrocarbons and several other organic solvents
- Available in pore sizes from 0.2 μm to 8 μm

Applications

- General laboratory applications where a high non-specific adsorption is suitable
- Particle and cell retention in aqueous solutions & air

Specifications & Pricing

| Model | Grade | Pore Size (μm) | Thickness (μm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /bar) | Burst pressure (bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|-----------------------------|-----------------------------|--------------------|---|----------------------|---------------|---------------|--------------------|
| 11327--25-----N | 11327 | 0.2 | 130 | 4.2 | 25 | ≥ 0.35 | 25 | 100 | 75 |
| 11306--13-----N | 11306 | 0.45 | | 2.4 | 70 | ≥ 0.3 | 13 | 100 | 96 |
| 11306--20-----N | | | | | | | 20 | 100 | 102 |
| 11306--25-----N | | | | | | | 25 | 100 | 108 |
| 11306--30-----N | | | | | | | 30 | 100 | 131 |
| 11306--37-----N | | | | | | | 37 | 100 | 150 |
| 11306--47-----N | | | | | | | 47 | 100 | 126 |
| 11306--50-----N | | | | | | | 50 | 100 | 126 |
| 11306--85-----N | | | | | | | 85 | 100 | 495 |
| 11306--90-----G | | | | | | | 90 | 25 | 126 |
| 11306--90-----N | | | | | | | 90 | 100 | 480 |
| 11306-100-----G | | | | | | | 100 | 25 | 179 |
| 11306-100-----N | | | | | | | 100 | 100 | 525 |
| 11306-110-----N | | | | | | | 110 | 100 | 555 |
| 11305--13-----N | 11305 | 0.65 | 130 | 2 | 130 | ≥ 0.25 | 13 | 100 | 113 |
| 11305--25-----N | | | | | | | 25 | 100 | 108 |
| 11305--47-----N | | | | | | | 47 | 100 | 154 |

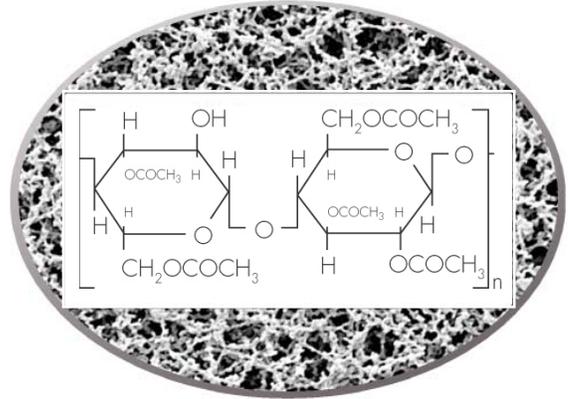
Specifications & Pricing

| Model | Grade | Pore Size (µm) | Thickness (µm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /bar) | Burst pressure (bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|----------------|----------------|--------------------|---|----------------------|---------------|---------------|--------------------|
| 11305--50-----N | | | | | | | 50 | 100 | 126 |
| 11305-100-----N | | | | | | | 100 | 100 | 695 |
| 11304--13-----N | 11604 | 0.8 | 130 | 1.4 | 200 | ≥ 0.2 | 13 | 100 | 81 |
| 11304--20-----N | | | | | | | 20 | 100 | 131 |
| 11304--25-----N | | | | | | | 25 | 100 | 108 |
| 11304--37-----N | | | | | | | 37 | 100 | 131 |
| 11304--47-----N | | | | | | | 47 | 100 | 153 |
| 11304--50-----N | | | | | | | 50 | 100 | 153 |
| 11304--90-----G | | | | | | | 90 | 25 | 215 |
| 11304-100-----G | | | | | | | 100 | 25 | 153 |
| 11303--13-----N | 11603 | 1.2 | 130 | 1 | 200 | ≥ 0.2 | 13 | 100 | 108 |
| 11303--25-----N | | | | | | | 25 | 100 | 96 |
| 11303--47-----N | | | | | | | 47 | 100 | 175 |
| 11303--50-----N | | | | | | | 50 | 100 | 149 |
| 11303--90-----G | | | | | | | 90 | 25 | 220 |
| 11303-100-----G | | | | | | | 100 | 25 | 150 |
| 11302--13-----N | 11602 | 3 | 130 | 0.5 | 430 | ≥ 0.2 | 13 | 100 | 81 |
| 11302--25-----N | | | | | | | 25 | 100 | 108 |
| 11302--47-----N | | | | | | | 47 | 100 | 137 |
| 11302--50-----N | | | | | | | 50 | 100 | 149 |
| 11302--90-----G | | | | | | | 90 | 25 | 220 |
| 11302-100-----G | | | | | | | 100 | 25 | 169 |
| 11342--13-----N | 11642 | 5 | 130 | 0.5 | 570 | ≥ 0.15 | 13 | 100 | 108 |
| 11342--25-----N | | | | | | | 25 | 100 | 137 |
| 11342--47-----N | | | | | | | 47 | 100 | 179 |
| 11342--50-----N | | | | | | | 50 | 100 | 189 |
| 11342--90-----G | | | | | | | 90 | 25 | 240 |
| 11301--13-----N | 11601 | 8 | 130 | 0.3 | 750 | ≥ 0.1 | 13 | 100 | 81 |
| 11301--25-----N | | | | | | | 25 | 100 | 108 |
| 11301--37-----N | | | | | | | 37 | 100 | 137 |
| 11301--47-----N | | | | | | | 47 | 100 | 177 |
| 11301--50-----N | | | | | | | 50 | 100 | 149 |
| 11301--70-----G | | | | | | | 70 | 25 | 150 |
| 11301-100-----G | | | | | | | 100 | 25 | 169 |
| 11301-100-----N | | | | | | | 100 | 100 | 480 |

Cellulose Acetate

Membrane Filters

Cellulose acetate membranes combine high flow rates and thermal stability with very low adsorption characteristics, and are therefore excellently suited for use in pressure filtration devices. They are hydrophilic, have a symmetric structure and are compatible with aqueous solutions (pH 4-8), oils, alcohols and other organic solvents. The 0.2 μm membrane is the filter of choice for sterile filtration of aqueous solutions, such as nutrient media, buffers and sera.



Features

- Very low protein adsorption
- High flow rates
- Thermally stable
- Compatible with aqueous solutions (pH 4-8), oils, alcohols and other organic solvents
- Available in pore sizes from 0.2 μm to 5 μm

Applications

- Particle removal & retention
- Sterility testing
- Use in pressure filtration devices

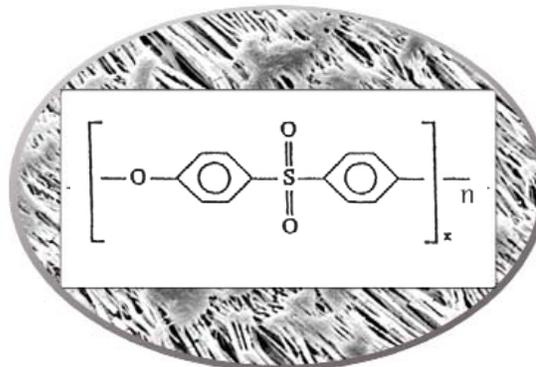
Specifications & Pricing

| Model | Grade | Pore Size (µm) | Thickness (µm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /bar) | Burst pressure (bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|----------------|----------------|--------------------|---|----------------------|---------------|---------------|--------------------|
| 11107--13-----N | 11507 | 0.2 | 120 | 2.9 | 24 | 0.8 | 13 | 100 | 70 |
| 11107--25-----N | | | | | | | 25 | 100 | 81 |
| 11107--30-----N | | | | | | | 30 | 100 | 111 |
| 11107--47-----N | | | | | | | 47 | 100 | 108 |
| 11107--50-----N | | | | | | | 50 | 100 | 108 |
| 11107--90-----G | | | | | | | 90 | 25 | 126 |
| 11107-100-----G | | | | | | | 100 | 25 | 179 |
| 11107-100-----N | | | | | | | 100 | 100 | 565 |
| 11106--13-----N | 11506 | 0.45 | 120 | 1.9 | 69 | 0.7 | 13 | 100 | 33 |
| 11106--25-----N | | | | | | | 25 | 100 | 33 |
| 11106--30-----N | | | | | | | 30 | 100 | 28 |
| 11106--37-----N | | | | | | | 37 | 100 | 131 |
| 11106--47-----N | | | | | | | 47 | 100 | 106 |
| 11106--50-----N | | | | | | | 50 | 100 | 61 |
| 11106--85-----N | | | | | | | 85 | 100 | 475 |
| 11106--90-----G | | | | | | | 90 | 25 | 126 |
| 11106-100-----G | | | | | | | 100 | 25 | 33 |
| 11106-100-----N | | | | | | | 100 | 100 | 450 |
| 11106-110-----N | | | | | | | 110 | 100 | 560 |
| 11105--25-----N | 11505 | 0.65 | 120 | 1 | 200 | 0.7 | 25 | 100 | 70 |
| 11105--47-----N | | | | | | | 47 | 100 | 70 |
| 11105--50-----N | | | | | | | 50 | 100 | 70 |
| 11105--90-----G | | | | | | | 90 | 25 | 167 |
| 11104--13-----N | 11504 | 0.8 | 120 | 1 | 200 | 0.5 | 13 | 100 | 121 |
| 11104--25-----N | | | | | | | 25 | 100 | 220 |
| 11104--47-----N | | | | | | | 47 | 100 | 100 |
| 11104--50-----N | | | | | | | 50 | 100 | 112 |
| 12303--25-----N | 12303 | 1.2 | 140 | 0.8 | 320 | 0.4 | 25 | 100 | 365 |
| 12303--47-----N | | | | | | | 47 | 100 | 365 |
| 12303--50-----N | | | | | | | 50 | 100 | 255 |
| 12303-100-----G | | | | | | | 100 | 25 | 365 |
| 12342--25-----N | 12342 | 5 | 140 | 0.4 | 570 | 0.25 | 25 | 100 | 137 |
| 12342--47-----N | | | | | | | 47 | 100 | 189 |

Polyethersulfone

Membrane Filters

Polyethersulfone (PES) membrane filters are hydrophilic, have high flow rates, symmetric structure, and a low non-specific protein adsorption. They are chemically resistant over a pH range of 1-14, and are therefore recommended for the filtration of aqueous solutions as well as for the filtration of proteins. A low level of extractables also makes them suitable for environmental analysis.



Features

- Low protein binding
- Low level of extractables
- Hydrophilic
- High flow rates
- High thermal resistance with max. 200°C
- High solvent resistance (pH 1-14)
- Available in pore sizes 0.1, 0.2 & 0.45 μm

Applications

- Filtration of aqueous solutions
- Filtration of cell culture media, buffers
- Environmental analyses

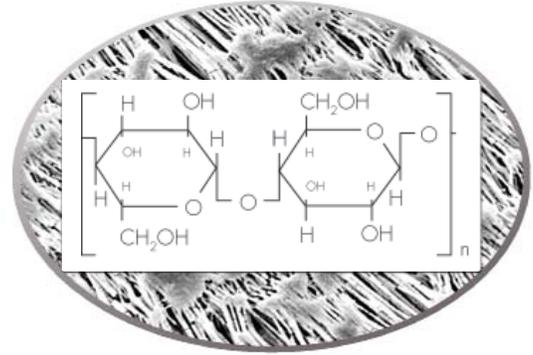
Specifications & Pricing

| Model | Grade | Pore Size (μm) | Thickness (μm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /bar) | Burst pressure (bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|------------------|-------|-----------------------------|-----------------------------|--------------------|---|----------------------|---------------|---------------|--------------------|
| 15458--25-----N | 15458 | 0.1 | 150 | 3.8 | 10 | ≥ 0.6 | 25 | 100 | 124 |
| 15458--47-----N | | | | | | | 47 | 100 | 180 |
| 15458--50-----N | | | | | | | 50 | 100 | 180 |
| 15407--25----MIN | 15407 | 0.2 | 150 | 3.5 | 25 | ≥ 0.5 | 25 | 100 | 124 |
| 15407--47----MIN | | | | | | | 47 | 100 | 180 |
| 15407--50----MIN | | | | | | | 50 | 100 | 180 |
| 15406--25-----N | 15406 | 0.45 | 150 | 2.6 | 46 | ≥ 0.5 | 25 | 100 | 186 |
| 15406--47-----N | | | | | | | 47 | 100 | 180 |
| 15406--50-----N | | | | | | | 50 | 100 | 171 |

Regenerated Cellulose

Membrane Filters

These very low adsorption membranes are hydrophilic, solvent-resistant (pH 3 – 12) and ideally suited for particle removal from solvents. The membrane is asymmetric and reinforced with nonwoven cellulose.



Features

- Very low non-specific adsorption
- Hydrophilic
- High thermal resistance with max. 200°C
- High solvent resistance (pH 3-12)
- Available in pore sizes 0.2 µm & 0.45 µm

Applications

- General purpose filtration
- Particle removal from solvents
- Degassing

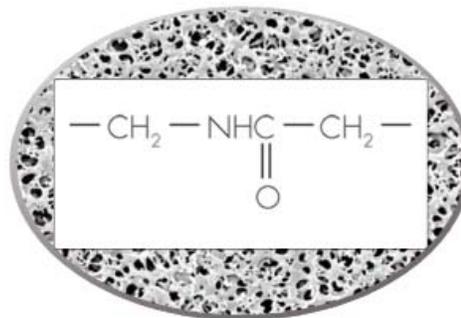
Specifications & Pricing

| Model | Grade | Pore Size (µm) | Thickness (µm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|----------------|----------------|--------------------|---|---------------|---------------|--------------------|
| 18407--13-----N | 18407 | 0.2 | 170 | 4.4 | 15 | 13 | 100 | 120 |
| 18407--25-----N | | | | | | 25 | 100 | 132 |
| 18407--47-----N | | | | | | 47 | 100 | 175 |
| 18407--50-----N | | | | | | 50 | 100 | 175 |
| 18407-100-----G | | | | | | 100 | 25 | 175 |
| 18406--13-----N | 18406 | 0.45 | 170 | 2.9 | 30 | 100 | 100 | 120 |
| 18406--25-----N | | | | | | 100 | 100 | 132 |
| 18406--47-----N | | | | | | 100 | 100 | 175 |
| 18406--50-----N | | | | | | 100 | 100 | 300 |
| 18406-100-----G | | | | | | 100 | 25 | 132 |

Polyamide

Membrane Filters

Polyamide membrane filters are hydrophilic and chemically resistant to alkaline solutions and organic solvents. They are therefore recommended for the particle removal from aqueous solutions and solvents for analytical determination such as HPLC, for the sterile filtration of these liquids as well as for applications in which a membrane with a relatively high non-specific adsorption is suitable.



Features

- High protein adsorption
- Low level of extractables
- Hydrophilic
- Compatible with a broad range of solvents (pH 3-14)
- Available in pore sizes 0.2 μm & 0.45 μm

Applications

- Applications in which a non-specific adsorption is suitable
- Particle removal
- Filtration of alkaline solutions

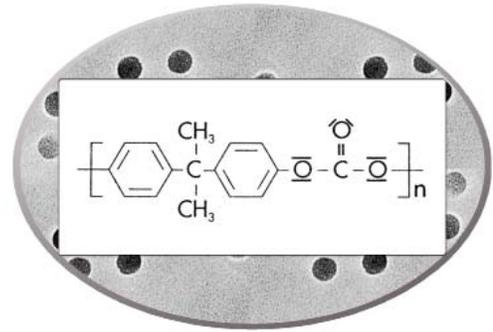
Specifications & Pricing

| Model | Grade | Pore Size (μm) | Thickness (μm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /bar) | Burst pressure (bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|-----------------------------|-----------------------------|--------------------|---|----------------------|---------------|---------------|--------------------|
| 25007--13-----N | 25007 | 0.2 | 115 | 3.2 | 15 | ≥ 0.25 | 13 | 100 | 68 |
| 25007--25-----N | | | | | | | 25 | 100 | 152 |
| 25007--47-----N | | | | | | | 47 | 100 | 136 |
| 25007--50-----N | | | | | | | 50 | 100 | 153 |
| 25007--90-----G | | | | | | | 90 | 25 | 124 |
| 25006--13-----N | 25006 | 0.45 | 115 | 2.3 | 35 | ≥ 0.25 | 13 | 100 | 68 |
| 25006--25-----N | | | | | | | 25 | 100 | 148 |
| 25006--47-----N | | | | | | | 47 | 100 | 124 |
| 25006--50-----N | | | | | | | 50 | 100 | 166 |
| 25006--90-----G | | | | | | | 90 | 25 | 124 |

Polycarbonate Track-Etched

Membrane Filters

These white and hydrophilic polycarbonate membranes are manufactured from high grade polycarbonate film using track-etch technology. Their capillary pore structure is uniform and precise, with a narrow pore size distribution to retain particles on their surface. Track-etched membranes are an excellent choice for accurate fractionation of particulates because of their precise pore size. Track-etch technology offers the user distinct performance advantages with excellent surface capture and high sample visibility.



Features

- True pore size
- Low protein binding
- Low extractables
- Hydrophilic
- Available in defined pore sizes 0.2, 0.4 μm

Applications

- Particulate analyses
- Cytology
- Epifluorescence Microscopy
- Environmental analyses

Specifications & Pricing

| Model | Grade | Pore Size (μm) | Thickness (μm) | Bubble point (bar) | Water flow rate (ml/min/cm ² /0.7 bar) | Burst pressure (bar) | Diameter (mm) | Qty. per pack | US List Price (\$) |
|-----------------|-------|-----------------------------|-----------------------------|--------------------|---|----------------------|---------------|---------------|--------------------|
| 23007--25-----N | 23007 | 0.2 | 25 | 4.8 | ≥ 10 | ≥ 0.7 | 25 | 100 | 114 |
| 23007--47-----N | 23007 | 0.2 | 25 | 4.8 | ≥ 10 | ≥ 0.7 | 47 | 100 | 165 |
| 23007--50-----N | 23007 | 0.2 | 25 | 4.8 | ≥ 10 | ≥ 0.7 | 50 | 100 | 164 |
| 23006--25-----N | 23006 | 0.4 | 25 | 2.5 | ≥ 30 | ≥ 0.7 | 25 | 100 | 114 |
| 23006--47-----N | 23006 | 0.4 | 25 | 2.5 | ≥ 30 | ≥ 0.7 | 47 | 100 | 167 |

Reusable Syringe Filter Holders

For the Ultracleaning of volumes up to 100 ml

These reusable syringe filter holders are available in PTFE, polycarbonate and stainless steel. With their Luer Lock connectors, they are easy to use with a standard syringe and can be autoclaved.



Features

- Easy connection with Luer connectors (Female Luer Lock inlet, luer slip outlet)
- Low hold-up volumes
- Autoclavable
- Reusable

Applications

- Particle removal from samples and reagents
- Filtration of aqueous liquids
- Clarification
- Sterile filtration

Specifications & Pricing

| Model | Material | Filtration area (cm ²) | Membrane filter dia. (mm) | Max. autoclaving temperature (°C) | Hold-up volume (ml) | Max. operating procedure | Qty/Pack | US List Price (\$) |
|-------------|-----------------|------------------------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|--------------------|
| 16574 | PTFE | 0.5 | 13 | 134 | 0.3 | 5 bar/ 500 kPa/ 72.5 psi | 1 | 315 |
| 16514-----E | Polycarbonate | 0.5 | 13 | 121 | 0.2 | 7 bar/ 700 kPa/ 101.5 psi | 12 | 92 |
| 16517-----E | Polycarbonate | 3 | 25 | 121 | 0.3 | 7 bar/ 700 kPa/ 101.5 psi | 12 | 96 |
| 16214 | Stainless steel | 3 | 25 | 134 | 0.1 | 7 bar/ 700 kPa/ 101.5 psi | 1 | 240 |

Glass Vacuum Filter Holders

For Aqueous and Organic Solvent Filtration

These vacuum filter holders are produced from borosilicate glass with a choice of two support screens. The glass frit support ensures uniform distribution of retained particles and therefore recommended when residue on the filter surface is of interest. The PTFE-coated support is easy to clean and is therefore recommended when the filtrate is of interest or when working with liquids difficult to remove from glass frits.



Features

- Borosilicate glass material
- Chemically resistant to most aqueous and solvent solutions
- Sterilizable by autoclave (max. 134°C) or dry heat (max. 180°C)
- Vacuum filtration

Applications

- General laboratory filtration
- Sterility testing
- Microbial enumeration

Specifications & Pricing

| Model | Membrane filter diameter (mm) | Filtration area (cm ²) | Funnel capacity (ml) | Capacity of the filtrate flask (l) | Filter support material | O-ring Material | Outlet spouts (mm) | Qty/Pack | US List Price (\$) |
|-------|-------------------------------|------------------------------------|----------------------|------------------------------------|-------------------------|-----------------|--------------------|----------|--------------------|
| 16306 | 24 or 25 | 3 | 30 | n.a. | Glass | Silicone | 12 | 1 | 174 |
| 16315 | 24 or 25 | 3 | 30 | n.a. | PTFE-coated | Silicone | 12 | 1 | 260 |
| 16307 | 47 or 50 | 12.5 | 250 | n.a. | Glass | Silicone | 15 | 1 | 300 |
| 16316 | 47 or 50 | 12.5 | 250 | n.a. | PTFE-coated | Silicone | 15 | 1 | 370 |
| 16309 | 47 or 50 | 12.5 | 250 | 1 | Glass | Viton | 15 | 1 | 580 |

Filter Holders for In-Line Filtration

For the filtration of liter volumes of aqueous solutions

These in-line holders are available in stainless steel and Polycarbonate. They can be connected to a pump or a pressure container due to their excellent pressure resistance.



Features

- Autoclavable
- Leak-proof sealing
- Hose nipple connectors

Applications

- In-Line filtration

Specifications & Pricing

| Model | Material | Filtration area (cm ²) | Membrane filter dia. (mm) | Max. autoclaving temperature (°C) | Max. operating procedure | Connectors | Qty/Pack | US List Price (\$) |
|-------------|-----------------|------------------------------------|---------------------------|-----------------------------------|-------------------------------|---------------------------------|----------|--------------------|
| 16508-----B | Polycarbonate | 12.5 | 50 | 121 | 7 bar/ 700 kPa/ 101.5 psi | Hose nipples for 10 mm hose | 5 | 245 |
| 16251 | Stainless steel | 3 | 25 | 134 | 5 bar/ 500 kPa/ 72.5 psi | Hose nipples for 10 mm hose | 1 | 315 |
| 16254 | Stainless steel | 13 | 47 | 134 | 20 bar/ 2,000 kPa/ 290 psi | Hose nipples for 10 mm hose | 1 | 600 |
| 16278 | Stainless steel | 13 | 47 | 134 | 20 bar/ 2,000 kPa/ 290 psi | Hose nipples for 4-5 mm hose | 1 | 475 |

Pressure Filter Holders

For the filtration of aggressive liquids

These pressure filter holders are available either in PTFE or stainless steel. The PTFE holder is resistant to almost all chemicals and has a filtration capacity of 200 ml. The stainless steel version can be used for the filtration of small volumes when connected directly to a pressure source or for the filtration of up to 5 liter volumes when used in combination with a pressure tank. The stainless steel version is also available with a double jacket to keep the temperature of the filtered solution stable.



Features

- Chemically resistant to most aqueous and solvent solutions
- Sterilizable by autoclave (max. 134°C) or dry heat (max. 180°C)

Applications

- General laboratory filtration
- Sterility testing

Specifications & Pricing

| Model | Description | Filtration area (cm ²) | Membrane filter dia. (mm) | Max. autoclaving temperature (°C) | Max. operating procedure | Connectors | Qty/Pack | US List Price (\$) |
|-------|--|------------------------------------|---------------------------|-----------------------------------|--------------------------------|------------------------|----------|--------------------|
| 16579 | PTFE pressure filter holder with 200 ml capacity | 12.5 | 47 | 134 | 5 bar 500 kPa 72.5 psi | M 14 x 1.5 male thread | 1 | 2,610 |
| 16249 | Stainless steel pressure filter holder up to 200 ml capacity | 13 | 47 | 134 | 10 bar 1,000 kPa 145 psi | M 12 x 1 female thread | 1 | 1,010 |

MYCAP® Bottle Closures

One-for-All, Robust & Reliable Bottle Closure System

MYCAP® is a one-piece, ready-to-use closure system for bottles. MYCAP® features integral tubing and a robust platinum-cured silicone seal. MYCAP® is available pre-installed to plastic containers and gamma irradiated or standalone for field installation and autoclave. MYCAP® is easily configurable. Modify the number, size or material of tube ports. Design complex manifolds from a variety of components. MYCAP® may be used in any application.



Features & Benefits

Ready-to-Use

Save time and eliminate waste from non value-added operations.

Single-Use

Every use is the first use. There is no contamination risk from improper or ineffective parts washing or cleaning.

One-For-All Silicone Closure

All MYCAP® use a silicone closure regardless of the cap configuration, tube material or bottle. Perform material validation on MYCAP® once and apply it all bottle closure systems.

Secure and Robust Closure

Silicone is proven as a robust container closure over a wide temperature range. MYCAP® passes microbial ingress testing.

One-Piece Construction with Integral Tubing

The integral tubing eliminates connection points to eliminate the chance of leaks. MYCAP® is easy-to-handle throughout its life cycle.

Easy Customization

Unique manufacturing process enables quick and efficient customization. Simply request design with more or different tube ports.

Applications

- Buffer and Media Storage
- Buffer and Media Addition
- Bioreactor Feeds
- Sample Collection
- Bulk Harvest
- Product Pooling
- Bulk Intermediate Hold
- Short or Long-Term Storage



GL45 MYCAP® Closure Systems– Specifications & Pricing

May be attached to glass bottles with GL45 threads. Tube dimensions have been optimized for Corning® Pyrex® Laboratory Bottles and Duran® Protect® Laboratory Bottles. Silicone Tubing, no QUICKSEAL®; Capped male Luer® on inlet; 0.2µm hydrophobic PES vent filter.

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|---|---|--------------------|-------------------------|
| Silicone Tubing, no QUICKSEAL®; Capped male Luer on inlet; 0.2µm hydrophobic PES vent filter. Not Irradiated | | | |
| MYCAP13950100A | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube; for 100mL Glass Bottle | 5 | 81 |
| MYCAP13950250A | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube; for 250mL Glass Bottle | 5 | 81 |
| MYCAP13950500A | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube; for 500mL Glass Bottle | 5 | 82 |
| MYCAP13951000A | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube; for 1000mL Glass Bottle | 5 | 82 |
| MYCAP13952000A | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube; for 2000mL Glass Bottle | 5 | 83 |
| Silicone Tubing with QUICKSEAL®; Capped male Luer® on inlet; 0.2µm hydrophobic PES vent filter. Not Irradiated | | | |
| MYCAP13950100C | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL®; for 100mL Glass Bottle | 5 | 89 |
| MYCAP13950250C | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL®; for 250mL Glass Bottle | 5 | 89 |
| MYCAP13950500C | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL®; for 500mL Glass Bottle | 5 | 90 |
| MYCAP13951000C | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL®; for 1000mL Glass Bottle | 5 | 90 |
| MYCAP13952000C | 2-Port GL45 MYCAP®; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL®; for 2000mL Glass Bottle | 5 | 91 |
| C-Flex® Tubing, no QUICKSEAL®; Tube plug on inlet; 0.2µm hydrophobic PES vent filter. Not Irradiated | | | |
| MYCAP13950100B | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube; for 100mL Glass Bottle | 5 | 67 |
| MYCAP13950250B | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube; for 250mL Glass Bottle | 5 | 68 |
| MYCAP13950500B | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube; for 500mL Glass Bottle | 5 | 68 |
| MYCAP13951000B | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube; for 1000mL Glass Bottle | 5 | 69 |
| MYCAP13952000B | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube; for 2000mL Glass Bottle | 5 | 69 |
| C-Flex® Tubing with QUICKSEAL®; Tube plug on inlet; 0.2µm hydrophobic PES vent filter. Not Irradiated | | | |
| MYCAP13950100D | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL®; for 100mL Glass Bottle | 5 | 71 |
| MYCAP13950250D | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL®; for 250mL Glass Bottle | 5 | 71 |
| MYCAP13950500D | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL®; for 500mL Glass Bottle | 5 | 71 |
| MYCAP13951000D | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL®; for 1000mL Glass Bottle | 5 | 72 |
| MYCAP13952000D | 2-Port GL45 MYCAP®; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL®; for 2000mL Glass Bottle | 5 | 72 |



QUICKSEAL® Aseptic Disconnect™

C-Flex® is a registered trademark of St. Gobain Performance Plastics
 Duran® is a registered trademark of Wheaton Industries
 Pyrex® and Corning® is a registered trademark of Corning Incorporated

Nalgene® MYCAP® Bottle Closures – Specifications & Pricing

MYCAP® bottle assemblies on Nalgene® square media bottles are gamma irradiated and ready for immediate use. Each assembly is individually double bagged.

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|---|---|--------------------|-------------------------|
| Silicone Tubing, no QUICKSEAL®; Capped male Luer® on inlet; 0.2µm hydrophobic PES vent. Gamma Irradiated | | | |
| MYCAPNGPG0030A | 2-Port MYCAP®; 30mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 102 |
| MYCAPNGPG0060A | 2-Port MYCAP®; 60mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 97 |
| MYCAPNGPG0125A | 2-Port MYCAP®; 125mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 98 |
| MYCAPNGPG0250A | 2-Port MYCAP®; 250mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 109 |
| MYCAPNGPG0500A | 2-Port MYCAP®; 500mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 113 |
| MYCAPNGPG1000A | 2-Port MYCAP®; 1000mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 122 |
| Silicone Tubing, no QUICKSEAL®; Capped male Luer® on inlet; 0.2µm hydrophobic PES vent. Gamma Irradiated | | | |
| MYCAPNGPG0030C | 2-Port MYCAP®; 30mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 110 |
| MYCAPNGPG0060C | 2-Port MYCAP®; 60mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 104 |
| MYCAPNGPG0125C | 2-Port MYCAP®; 125mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 105 |
| MYCAPNGPG0250C | 2-Port MYCAP®; 250mL PETG; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 116 |
| MYCAPNGPG0500C | 2-Port MYCAP®; 500mL PETG ; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 121 |
| MYCAPNGPG1000C | 2-Port MYCAP®; 1000mL PETG ; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 129 |
| C-Flex® Tubing, no QUICKSEAL®; Tube plug on inlet; 0.2µm hydrophobic PES vent filter. Gamma Irradiated | | | |
| MYCAPNGPG0030B | 2-Port MYCAP®; 30mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 90 |
| MYCAPNGPG0060B | 2-Port MYCAP®; 60mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 83 |
| MYCAPNGPG0125B | 2-Port MYCAP®; 125mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 83 |
| MYCAPNGPG0250B | 2-Port MYCAP®; 250mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 95 |
| MYCAPNGPG0500B | 2-Port MYCAP®; 500mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 98 |
| MYCAPNGPG1000B | 2-Port MYCAP®; 1000mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 108 |
| C-Flex® Tubing with QUICKSEAL®; Tube plug on inlet; 0.2µm hydrophobic PES vent filter. Gamma Irradiated | | | |
| MYCAPNGPG0030D | 2-Port MYCAP®; 30mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 93 |
| MYCAPNGPG0060D | 2-Port MYCAP®; 60mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 88 |
| MYCAPNGPG0125D | 2-Port MYCAP®; 125mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 88 |
| MYCAPNGPG0250D | 2-Port MYCAP®; 250mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 98 |
| MYCAPNGPG0500D | 2-Port MYCAP®; 500mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 101 |
| MYCAPNGPG1000D | 2-Port MYCAP®; 1000mL PETG; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 111 |

Falcon® Centrifuge Tube MYCAP® Bottle Assemblies – Specifications & Pricing

MYCAP® bottle assemblies on Falcon® centrifuge tubes are gamma irradiated and ready for immediate use. Each assembly is individually double bagged.

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|---|---|--------------------|-------------------------|
| Silicone Tubing, no QUICKSEAL®; Capped male Luer® on inlet; 0.2µm hydrophobic PES vent filter. Gamma Irradiated | | | |
| MYCAPPCSG0015A | 2-Port MYCAP®; 15mL Polystyrene Centrifuge Tube; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 98 |
| MYCAPPCPG0050A | 2-Port MYCAP®; 50mL PP Centrifuge Tube; 1/8in.x1/4in. Sil (Pt) w/dip tube | 5 | 93 |
| Silicone Tubing with QUICKSEAL®; Capped male Luer® on inlet; 0.2µm hydrophobic PES vent filter. Gamma Irradiated | | | |
| MYCAPPCSG0015C | 2-Port MYCAP®; 15mL Polystyrene Centrifuge Tube; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 105 |
| MYCAPPCPG0050C | 2-Port MYCAP®; 50mL PP Centrifuge Tube; 1/8in.x1/4in. Sil (Pt) w/dip tube & QUICKSEAL® | 5 | 100 |
| C-Flex® Tubing, no QUICKSEAL®; Tube plug on inlet; 0.2µm hydrophobic PES vent filter. Gamma Irradiated | | | |
| MYCAPPCSG0015B | 2-Port MYCAP®; 15mL Polystyrene Centrifuge Tube; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 83 |
| MYCAPPCPG0050B | 2-Port MYCAP™; 50mL PP Centrifuge Tube; 1/8in.x1/4in. C-Flex® w/dip tube | 5 | 78 |
| C-Flex® Tubing with QUICKSEAL®; Tube plug on inlet; 0.2µm hydrophobic PES vent filter. Gamma Irradiated | | | |
| MYCAPPCSG0015D | 2-Port MYCAP®; 15mL Polystyrene Centrifuge Tube; 1/8in.x1/4in. C-Flex® w/dip tube & QUICKSEAL® | 5 | 87 |
| MYCAPPCPG0050D | 2-Port MYCAP®; 50mL PP Centrifuge Tube; 1/8in.x1/4in C-Flex® w/dip tube & QUICKSEAL® | 5 | 81 |

C-Flex® is a registered trademark of St. Gobain Performance Plastics

Nalgene® is a registered trademark of ThermoFisher Scientific

Falcon® is a registered trademark of Corning Incorporated

MYCAP® for Media

MYCAP® for Media assemblies include Nalgene® square media bottles, are gamma irradiated and ready for immediate use. Includes a Sartopore® 2 Filter (0.2µm) at the inlet for sterile filtration of media directly into the bottle. Disconnect filled bottles using QUICKSEAL® aseptic disconnect to take filtered media directly to point-of-use in easy-to-handle single bottles. Each assembly is individually double bagged.

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|--|---|--------------------|-------------------------|
| Single Bottles with 3-port MYCAP® Closure; Sartopore® 2 at inlet (stepped barb 1/4"-1/2"), 1/8"x1/4". Gamma Irradiated | | | |
| MCMD1000010204A | 3 Port MYCAP®; 1000mL PETG Bottle; silicone with Aseptiquik® S at outlet | 5 | 285 |
| MCMD0500010204A | 3 Port MYCAP®; 500mL PETG Bottle; silicone with Aseptiquik® S at outlet | 5 | 240 |
| MCMD0250010204A | 3 Port MYCAP®; 250mL PETG Bottle; silicone with Aseptiquik® S at outlet | 5 | 225 |
| MCMD1000010204W | 3 Port MYCAP®; 1000mL PETG Bottle; C-Flex® at outlet | 5 | 260 |
| MCMD0500010204W | 3 Port MYCAP®; 500mL PETG Bottle; C-Flex® at outlet | 5 | 215 |
| MCMD0250010204W | 3 Port MYCAP®; 250mL PETG Bottle; C-Flex® at outlet | 5 | 200 |
| MCMD1000010204B | 3 Port MYCAP®; 1000mL PETG Bottle; C-Flex® & Aseptiquik® S at outlet | 5 | 290 |
| MCMD0500010204B | 3 Port MYCAP®; 500mL PETG Bottle; C-Flex® & Aseptiquik® S at outlet | 5 | 245 |
| MCMD0250010204B | 3 Port MYCAP®; 250mL PETG Bottle; Sartopore®; C-Flex® & Aseptiquik® S at outlet | 5 | 230 |
| Six Bottle Manifold with 3-port MYCAP® Closure. Sartopore® 2 at inlet (stepped barb 1/4"-1/2"), 1/8"x1/4". Gamma Irradiated | | | |
| MCMD1000060204A | 3 Port MYCAP®; 6x1000mL PETG Bottle; silicone with Aseptiquik® S at outlet | 5 | 1,055 |
| MCMD0500060204A | 3 Port MYCAP®; 6x500mL PETG Bottle; silicone with Aseptiquik® S at outlet | 5 | 1,035 |
| MCMD0250060204A | 3 Port MYCAP®; 6x250mL PETG Bottle; Aseptiquik® S at outlet | 5 | 995 |
| MCMD1000060204W | 3 Port MYCAP®; 6x1000mL PETG Bottle; C-Flex® at outlet | 5 | 915 |
| MCMD0500060204W | 3 Port MYCAP®; 6x500mL PETG Bottle; C-Flex® at outlet | 5 | 895 |
| MCMD0250060204W | 3 Port MYCAP®; 6x250mL PETG Bottle; C-Flex® at outlet | 5 | 850 |
| MCMD1000060204B | 3 Port MYCAP®; 6x1000mL PETG Bottle; C-Flex® & Aseptiquik® S at outlet | 5 | 1,090 |
| MCMD0500060204B | 3 Port MYCAP®; 6x500mL PETG Bottle; C-Flex® & Aseptiquik® S at outlet | 5 | 1,075 |
| MCMD0250060204B | 3 Port MYCAP®; 6x250mL PETG Bottle; C-Flex® & Aseptiquik® S at outlet | 5 | 1,030 |

Quickseal® Cutting Tools

Hand held tools for making aseptic disconnection and cut on QUICKSEAL® Collar

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|----------------|---|--------------------|-------------------------|
| QSCUTTERS | QUICKSEAL® cutting tool for QUICKSEAL® collar up to 1/4" (6.4 mm) OD | 1 | 310 |
| QSCUTTERLD | Large Diameter QUICKSEAL Cutter for tubes up to 1.125" (28.6 mm) OD; 120V Battery Charger and two 18V Batteries | 1 | 4,145 |
| QSCUTTERLD230V | Large Diameter QUICKSEAL Cutter for tubes up to 1.125" (28.6 mm) OD; 230V Battery Charger and two 18V Batteries | 1 | 4,230 |

Quickseal® Protective Caps

Silicone caps can be installed after disconnection to shield cut QUICKSEAL® Collar

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|--------------|-------------------------------------|--------------------|-------------------------|
| QS04CAPSILNT | QUICKSEAL® Silicone Caps, 1/4" OD | 50 | 3.75 |
| QS06CAPSILNT | QUICKSEAL® Silicone Caps, 3/8" OD | 50 | 3.75 |
| QS07CAPSILNT | QUICKSEAL® Silicone Caps, 7/16" OD | 50 | 3.75 |
| QS08CAPSILNT | QUICKSEAL® Silicone Caps, 1/2" OD | 50 | 3.75 |
| QS10CAPSILNT | QUICKSEAL® Silicone Caps, 5/8" OD | 50 | 3.75 |
| QS12CAPSILNT | QUICKSEAL® Silicone Caps, 3/4" OD | 50 | 3.75 |
| QS18CAPSILNT | QUICKSEAL® Silicone Caps, 1 1/8" OD | 50 | 3.75 |

MYCAP® CCX

Expand Outside the Hood

MYCAP® CCX is an all-inclusive cell expansion system for suspension cultures including Erlenmeyer flask and closure system that supports cell growth in the incubator and all fluid transfers – outside of the laminar flow hood.

MYCAP® CCX cap includes the specialized gas exchange cartridge to support cell growth and integral tubing for aseptic fluid transfers. Perform all steps of each passage (media fills, cell inoculation, aseptic sampling and flask-to-flask transfers) outside the laminar flow hood and avoid contaminations.

Features

MYCAP® Family includes:

- **Transfer Caps.** Install to small 125mL Erlenmeyer flask for cell passages after initial thaw
- **Growth and Transfer Caps.** All-in-one Closure and Flask. Grow Cell and Aseptically Transfer Liquids including sampling – outside laminar flow hood
- **Transfer Lines.** Aseptically connect media bottles to flasks, flasks to flasks or flasks to seed reactor to transfer liquid

MYCAP® CCX has it all in one revolutionary system:

- Innovative gas exchange cartridge supports vigorous cell growth in the incubator
- Integral tubing for aseptic fluid transfers
- Performance of passages up to 3L Erlenmeyer flasks possible
- Gamma-irradiated & Single-Use
- Based on reliable & robust MYCAP® closure system
- Ready to use



Benefits

- Feed media, inoculate flasks, collect samples and transfer out of flasks outside the laminar flow hood
- Never open a flask. Never change a cap.
- Improve ergonomics and process efficiency by eliminating hood operations and hand-pipetting fluid transfers
- Put an end to contaminations and eliminate wasteful backup passages



Transfer Caps



Growth and Transfer Caps



Transfer Lines

MYCAP® CCX Transfer Caps

Install to 125mL flasks after initial growth to enable aseptic transfer to next flask. **Gamma Irradiated.**

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|--------------|--|--------------------|-------------------------|
| MCX01250204A | 2-Port MYCAP®; for 125mL Corning Erlenmeyer Flask; Aseptiquik® S at outlet | 3 | 121 |
| MCX01250204W | 2-Port MYCAP®; for 125mL Corning Erlenmeyer Flask; 1/8"x1/4" C-Flex® at outlet | 3 | 93 |
| MCX01250204B | 2-Port MYCAP®; for 125mL Corning Erlenmeyer Flask; 1/8"x1/4" C-Flex® & Aseptiquik® S at outlet | 3 | 124 |

MYCAP® CCX Growth and Transfer Caps

Aseptically add media, inoculate, sample and grow cells in flasks from 250mL to 3L without work in BSC or removing caps. **Gamma Irradiated.**

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|------------------|--|--------------------|-------------------------|
| MCX02500204AG | MYCAP® CCX on 250mL Corning Erlenmeyer Flask; 3 x Aseptiquik® S | 3 | 295 |
| MCX050002040204A | MYCAP® CCX on 500mL Corning Erlenmeyer Flask; 3 x Aseptiquik® S | 3 | 305 |
| MCX100002040204A | MYCAP® CCX on 1000mL Corning Erlenmeyer Flask; 3 x Aseptiquik® S | 3 | 320 |
| MCX200002040204A | MYCAP® CCX on 2000mL Corning Erlenmeyer Flask; 3 x Aseptiquik® S | 3 | 400 |
| MCX300002040204A | MYCAP® CCX on 3000mL Corning Erlenmeyer Flask; 3 x Aseptiquik® S | 3 | 585 |
| MCX02500204WG | MYCAP® CCX on 250mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® | 3 | 197 |
| MCX050002040204W | MYCAP® CCX on 500mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® | 3 | 220 |
| MCX100002040204W | MYCAP® CCX on 1000mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® | 3 | 240 |
| MCX200002040204W | MYCAP® CCX on 2000mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® | 3 | 320 |
| MCX300002040204W | MYCAP® CCX on 3000mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® | 3 | 500 |
| MCX02500204BG | MYCAP® CCX on 250mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® & Aseptiquik® S | 3 | 295 |
| MCX050002040204B | MYCAP® CCX on 500mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® & Aseptiquik® S | 3 | 315 |
| MCX100002040204B | MYCAP® CCX on 1000mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® & Aseptiquik® S | 3 | 330 |
| MCX200002040204B | MYCAP® CCX on 2000mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® & Aseptiquik® S | 3 | 410 |
| MCX300002040204B | MYCAP® CCX on 3000mL Corning Erlenmeyer Flask; 3 x 1/8"x1/4" C-Flex® & Aseptiquik® S | 3 | 590 |

MYCAP® CCX Transfer Lines

Convenient transfer lines to connect media bottles to flasks, flasks to flasks or flasks to seed reactor. **Gamma Irradiated.**

| Model | Description | Minimum Order Qty. | US List Price/Unit (\$) |
|-----------------|--|--------------------|-------------------------|
| X020412W020418A | 1/8"x1/4" C-Flex®, 12", plugged; 1/8"x1/4" silicone, 18" w/Aseptiquik® | 3 | 69 |
| X020436AA | 1/8"x1/4" silicone, 36" w/Aseptiquik® at each end | 3 | 98 |
| X020436BB | 1/8"x1/4" C-Flex®, 36" w/Aseptiquik® at each end | 3 | 97 |
| X040712W020418A | 1/4"x7/16" C-Flex®, 12", plugged; 1/8"x1/4" silicone, 18" w/Aseptiquik® | 3 | 72 |
| X020412W020412W | 1/8"x1/4" C-Flex®, 12", plugged; 1/8"x1/4" silicone, 18"; 1/8"x1/4" C-Flex®, 12", plugged | 3 | 43 |
| X020412W040712W | 1/8"x1/4" C-Flex®, 12", plugged; 1/8"x1/4" silicone, 18"; 1/4"x7/16" C-Flex®, 12", plugged | 3 | 46 |
| XY020403A | 1/8"x1/4" silicone, 3" w/Aseptiquik® | 3 | 147 |
| XY020418W | 3 x 1/8"x1/4" C-Flex®, 18", plugged | 3 | 49 |
| XY020418B | 3 x 1/8"x1/4" C-Flex®, 18" w/Aseptiquik® | 3 | 146 |

MYCAP® CCX Flask Stands

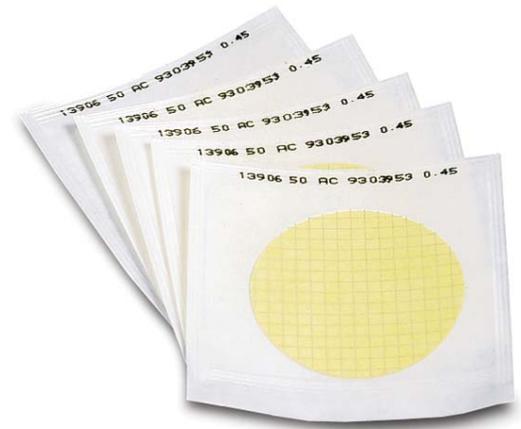
Reusable stands to hold and stabilize flasks while performing cell passaging

| | | | |
|---------------|--|---|-----|
| MCX0250STDCRN | MYCAP® CCX Stand; 250mL Corning Flask | 2 | 362 |
| MCX0500STDCRN | MYCAP® CCX Stand; 500mL Corning Flask | 2 | 342 |
| MCX1000STDCRN | MYCAP® CCX Stand; 1000mL Corning Flask | 2 | 389 |

Sterile Membrane Filters, Gridded

Cellulose Nitrate (Cellulose Mixed Ester Membrane Filters)

Individually packaged filters have long become standard for routine microbiological quality control. Pre-sterilized and ready-to-use, they offer several user benefits including reduced preparation time. Individual packaging reduces contamination risk for remaining filters in opened packs, while filter identification and lot number indication on individual filter envelopes provides GLP conformance.

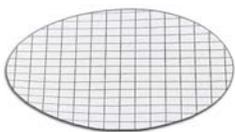


Feature

- Outstanding recovery rates for microorganisms
- 0.45 μm are acc. to ISO 7704
- High flow membranes available
- Four membrane/grid color combinations available
- Certified quality
- Gamma irradiated, 25 kGray
- Shelf life: 4 years

Applications

- Microbial enumeration
- Particle testing
- Microscopy



Specifications and Pricing

White Membrane with Black Grid, for Detection of Bacteria with Dyed Media, Particle Count & Microscopy, Type 114, Individually. Sterile Packaged

| Model | Pore Size | Diameter | Pack Size | US List Price (\$) |
|------------------|------------|----------|-----------|--------------------|
| 11407--47----ACN | | 47 mm | 100 | 125 |
| 11407--50----ACN | 0.2 µm | 50 mm | 100 | 127 |
| 11407--50----ACR | | 50 mm | 1,000 | 556 |
| 11406--47----ACN | 0.45 µm | 47 mm | 100 | 125 |
| 11406--47----ACR | | 47mm | 1,000 | 565 |
| 114H6--47----ACN | 0.45 µm | 47 mm | 100 | 125 |
| 114H6--47----ACR | High Flow* | 47 mm | 1,000 | 565 |
| 114H6--50----ACR | | 50 mm | 1,000 | 565 |
| 11405--47----ACN | 0.65 µm | 47 mm | 100 | 125 |
| 11405--50----ACN | | 50 mm | 100 | 127 |
| 11404--47----ACN | 0.8 µm | 47 mm | 100 | 125 |
| 11404--50----ACN | | 50 mm | 100 | 127 |
| 11403--47----ACN | | 47 mm | 100 | 125 |
| 11403--47----ACR | 1.2 µm | 47 mm | 1,000 | 565 |
| 11403--50----ACN | | 50 mm | 100 | 127 |

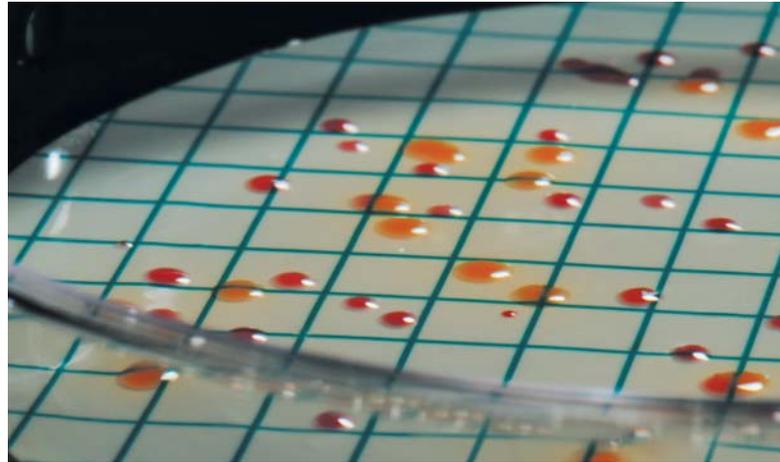
Gray Membrane (after wetting, black) with white grid, for detection of yeasts and molds, particle count and microscopy, type 130, individually, sterile packaged

| | | | | |
|------------------|---------|-------|-------|-----|
| 13006--47----ACN | | 47 mm | 100 | 125 |
| 13006--47----ACR | 0.45 µm | 47 mm | 1,000 | 560 |
| 13006--50----ACN | | 50 mm | 100 | 127 |
| 13006--50----ACR | | 50 mm | 1,000 | 565 |
| 13004--47----ACN | 0.8 µm | 47 mm | 100 | 125 |

Non-Sterile Membrane Filters, Gridded

Cellulose Nitrate (Cellulose Mixed Ester) Membrane Filters

Cellulose nitrate (cellulose ester) membrane filters are recommended for applications in which agar plates or absorbent pads wetted with liquid culture media are used instead of nutrient pad sets. These filters can be boiled or autoclaved and are offered in a choice of four membrane/grid color combinations to provide a high contrast to colonies or particles for various applications.



Features

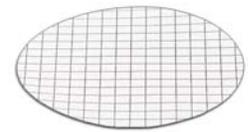
- Outstanding recovery rates for microorganisms
- 0.45 μm are acc. to ISO 7704
- Four membrane/grid color combinations available

Applications

- Microbial enumeration
- Particle testing
- Microscopy

Specifications & Pricing

| Model | Pore Size | Diameter | Pack Size | US List Price (\$) |
|--|--------------------|----------|-----------|--------------------|
| White Membrane with Black Grid, for Detection of Bacteria with Dyed Media, Particle Count & Microscopy, Type 114, Non-Sterile | | | | |
| 11407--25-----N | | 25 mm | 100 | 80 |
| 11407--47-----N | 0.2 μm | 47 mm | 100 | 112 |
| 11407--47-----R | | 47 mm | 1,000 | 780 |
| 11407--50-----N | | 50 mm | 100 | 114 |
| <hr/> | | | | |
| 11406--25-----N | | 25 mm | 100 | 80 |
| 11406--47-----N | 0.45 μm | 47mm | 100 | 112 |
| 11406--47-----R | | 47 mm | 1,000 | 780 |
| 11405--47-----N | 0.65 μm | 47 mm | 100 | 114 |
| <hr/> | | | | |
| 11404--25-----N | 0.8 μm | 25 mm | 100 | 80 |
| 11404--47-----N | | 47 mm | 100 | 112 |
| <hr/> | | | | |
| 11403--25-----N | 1.2 μm | 25 mm | 100 | 80 |
| 11403--47-----N | | 47 mm | 100 | 112 |
| <hr/> | | | | |
| White Membrane with Green Grid, for Detection of Bacteria with Dyed Media, Particle Count & Microscopy, Type 139, Non-Sterile | | | | |
| 13906--47-----N | 0.45 μm | 47mm | 100 | 115 |
| 13906--50-----N | | 50 mm | 100 | 114 |
| <hr/> | | | | |
| Green Membrane with Dark Green Grid, Providing Optimal Contrast to Light-Colored or Transparent Bacteria Colonies, Type 138, Non-Sterile | | | | |
| 13806--47-----R | 0.45 μm | 47 mm | 1,000 | 785 |
| 13806--50-----N | | 50 mm | 100 | 114 |
| <hr/> | | | | |
| Gray Membrane (After Wetting, Black) with White Grid, for Detection of Yeasts and Molds, Particle Count and Microscopy, Type 130, Non-Sterile | | | | |
| 13006--25-----N | | 25 mm | 100 | 84 |
| 13006--47-----N | 0.45 μm | 47 mm | 100 | 112 |
| 13006--50-----N | | 50 mm | 100 | 114 |
| <hr/> | | | | |
| 13004--47-----N | 0.8 μm | 47 mm | 100 | 112 |



Microsart® e.motion Membrane Dispenser & Membrane Rolls

Fully Automated Membrane Dispenser and Sterile Membrane Filter Rolls, Gridded

The Microsart® e.motion membrane dispenser is designed to simplify microbial testing. The fully automated dispenser releases membranes from their sterile packaging at the touch of a button, through hands-free motion detection or via an optional foot pedal. Specifically designed membrane filter rolls insert conveniently and are changed quickly and easily.



Features

Microsart® e.motion Dispenser

- Holds rolls of up to 250 membrane filters at a time for more efficient operation with fewer interruptions
- Three operating modes – foot pedal, sensor or push button for maximum operational flexibility
- Option for standalone, wire-free battery operation
- Compact size makes the unit portable and easy to handle

Applications

- Microbial enumeration

Microsart® e.motion Specifications & Pricing

| Model | Description | US List Price (\$) |
|-------------|--|--------------------|
| 16713----BO | Microsart® e.motion dispenser with integrated battery and power supply | 1,920 |
| 16713----PS | Microsart® e.motion dispenser with power supply only | 1,640 |
| 1ZE---0028 | Foot switch for Microsart® e.motion dispenser | 74 |

Membrane Filters Specifications & Pricing

Diameter 47 mm or 50 mm, in Pack of 3 x 100 Membranes, Individually Sterile Packaged, Without Protective Paper

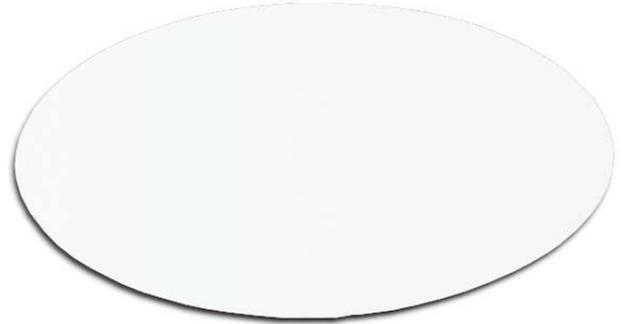
| Model | Membrane Filter Color Grid Color | Diameter | Pore Size | US List Price (\$) |
|------------------|------------------------------------|----------|-------------------|--------------------|
| 11407Z-47----SCM | White black | 47 mm | 0.2 µm | 205 |
| 114H6Z-47----SCM | White black | 47 mm | 0.45 µm High Flow | 225 |
| 11406Z-47----SCM | White black | 47 mm | 0.45 µm | 205 |
| 139H6Z-47----SCM | White green | 47 mm | 0.45 µm High Flow | 225 |
| 13806Z-47----SCM | Green dark green | 47 mm | 0.45 µm | 205 |
| 13006Z-47----SCM | Gray* white | 47 mm | 0.45 µm | 205 |
| 13005Z-47----SCM | Gray* white | 47 mm | 0.65 µm | 205 |
| 13005Z-50----SCM | Gray* white | 50 mm | 0.65 µm | 205 |
| 13004Z-47----SCM | Gray* white | 47 mm | 0.8 µm | 205 |
| 13004Z-50----SCM | Gray* white | 50 mm | 0.8 µm | 205 |
| 114H6Z-47----SFM | White black | 47mm | 0.45 µm | 290 |
| 11302Z-47----SFM | White | 47mm | 3 µm | 275 |
| 11402Z-47----SFM | White black | 47mm | 3 µm | 275 |



Sterile Membrane Filters without Grid

Cellulose Nitrate (Cellulose Mixed Ester) and Cellulose Acetate

Individually packaged filters have long become standard for routine microbiological quality control. Pre-sterilized and ready-to-use, they offer several user benefits including reduced preparation time. Individual packaging reduces contamination risk for remaining filters in opened packs, while filter identification and lot number indication on individual filter envelopes provides GLP conformance.



Features

- Outstanding recovery rates for microorganisms
- Defined particle retention
- 0.45 µm are acc. to ISO 7704
- 0.2 µm are validated by BCT
- Certified quality
- Gamma irradiated, 25 kGray

Applications

- Microbial enumeration
- Particle testing
- Microscopy

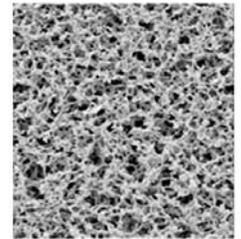
Specifications & Pricing

Cellulose Nitrate Membrane Filters, White, for Colony Counting, Sterility Testing, Particle Count & Microscopy, Type 113, Individually, Sterile Packaged

| Model | Pore Size | Diameter | Pack Size | US List Price (\$) |
|------------------|-----------|----------|-----------|--------------------|
| 11306--47----ACN | 0.45 µm | 47 mm | 100 | 125 |
| 11306--50----ACN | | 50 mm | 100 | 125 |
| 11304--47----ACN | 0.8 µm | 47 mm | 100 | 190 |
| 11304--50----ACN | | 50 mm | 100 | 200 |
| 11303--47----ACN | 1.2 µm | 47 mm | 100 | 240 |
| 11302--47----ACN | 3 µm | 47 mm | 100 | 240 |
| 11301--47----ACN | 8 µm | 47 mm | 100 | 190 |
| 11301--50----ACN | | 50 mm | 100 | 198 |

Cellulose Acetate Membrane Filters, White, for Colony Counting, Sterility Testing, Particle Count & Microscopy, Type 111, Individually, Sterile Packaged

| | | | | |
|------------------|---------|-------|-----|-----|
| 11107--47----ACN | 0.2 µm | 47 mm | 100 | 149 |
| 11106--47----ACN | 0.45 µm | 47 mm | 100 | 149 |
| 11106--50----ACN | | 50 mm | 100 | 154 |



Microsart® Funnel

Sterile disposable funnels with Click-fit closure

Sterile Microsart® Funnels provide quick filtration for the routine testing of water, food and beverages, pharmaceuticals and cosmetic products. To use, the Microsart® Funnel is simply fitted over a gridded membrane and placed on top of a Microsart® stainless steel filter support. The polypropylene construction provides elasticity for optimal sealing with the Click-fit closure.



Features & Benefits

Reliable results

Use a new, sterile funnel for each test to reduce the risk of cross-contamination.

Time-saving

Eliminate the need for funnel sanitation. Simply change the funnel between samples.

Sample handling

Avoid the need to handle hot funnels and easily see the status of the filtration process.

Applications

- Microbial Testing of water, food and beverages, pharmaceutical and cosmetic products.

Ordering Information

| Model | Description | Qty. | US List Price (\$) |
|-----------------|---|------|--------------------|
| 16A07--10-----N | Microsart® Funnel 100, sterile in 5 sealed bags. 100 ml | 100 | 141 |
| 16A07--25-----N | Microsart® Funnel 250, sterile in 5 sealed bags. 250 ml | 96 | 155 |

Accessories

| Item | Description | US List Price (\$) |
|-------|------------------|--------------------|
| 16A08 | Funnel Dispenser | 640 |

Nutrient Pad Sets

Dehydrated Media Pads in Petri Dishes with Matching Membrane Filters

Nutrient pads are sterile, dehydrated culture media. Once they are moistened with 3.0–3.5 ml of sterile and demineralized (or distilled) water they are ready for immediate use. Practical and easy to handle, they reduce labor and simplify many microbiological testing procedures. All Nutrient Pad Sets are supplied with the appropriate membrane filters, which are also pre-sterilized and individually packaged.



Features & Benefits

Economical

Eliminates time-consuming and labor-intensive preparation of culture media.

Simple to use

Nutrient pad sets are useful for laboratories that do not have extensive microbiological equipment.

Consistent quality

During production, QA procedures compare growth promoting properties of the nutrient pad sets with corresponding agar media to ensure consistent quality and reproducible results.

Trouble-free storage

Nutrient Pad Sets have a shelf life up to 24 months at room temperature.

Highly versatile

Nutrient Pad Sets can be modified by additives in the solution used to wet them; for example, Wort or Orange Serum Nutrient Pads when wetted with 5 – 8% ethanol promote the growth of acetic-acid bacteria.

Applications

- Microbial quality control of liquid products in water and beverage testing



Pricing & Specifications

| Model | Determination of | NPS Type | Pore Size | Mb Color/ Grid Color | Qty. | US List Price (\$) |
|--|--|-------------------------------|-----------|-------------------------|------|-----------------------|
| Nutrient Pad Sets for Total Colony Count, 47mm - Sterile | | | | | | |
| 14063--47-----N | Total colony count | Caso | 0.45 µm | Green/Dark Green | 100 | 205 |
| 14084--47-----N | Total colony count | R2A | 0.45 µm | Green/Dark Green | 100 | 205 |
| 14064--47-----N | Total colony count | Standard | 0.45 µm | Green/Dark Green | 100 | 205 |
| 14055--47-----N | Total colony count | Standard TTC | 0.45 µm | Green/Dark Green | 100 | 205 |
| 14076--47-----N | Total colony count | TGE | 0.45 µm | Green/Dark Green | 100 | 205 |
| 14090--47-----N | Total colony count | Yeast Extract | 0.45 µm | Green/Dark Green | 100 | 200 |
| Nutrient Pad Sets for E. coli, Coliforms and Enterobacteria, 47mm - Sterile | | | | | | |
| 14082--47-----N | E. coli | ECD | 0.45 µm | White/Green | 100 | 205 |
| 14053--47-----N | E. coli and coliforms | Endo | 0.45 µm | White/Green | 100 | 205 |
| 14068--47-----N | E. coli and coliforms | m FC | 0.45 µm | White/Green | 100 | 205 |
| 14097--47-----N | Enterobacteria and E. coli | MacConkey | 0.45 µm | White/Green | 100 | 205 |
| 14067--47-----N | E. coli and coliforms | Teepol Lauryl Sulfate | 0.45 µm | White/Green | 100 | 200 |
| 14056--47-----N | E. coli and coliforms | Tergitol TTC | 0.45 µm | White/Green | 100 | 200 |
| Nutrient Pad Sets for other Fecal Bacteria, 47mm - Sterile | | | | | | |
| 14051--47-----N | Enterococci | Azide | 0.45 µm | Green/Dark Green | 100 | 200 |
| 14057--47-----N | Salmonellae | Bismuth Sulfite | 0.45 µm | Green/Dark Green | 100 | 205 |
| Nutrient Pad Sets for Non-fecal, Pathogenic Bacteria, 47mm - Sterile | | | | | | |
| 14075--47-----N | Pseudomonas aeruginosa | Cetrimide | 0.45 µm | White/Green | 100 | 205 |
| 14074--47-----N | Staphylococci, Staph. Aureus | Chapman | 0.45 µm | White/Green | 100 | 205 |
| Nutrient Pad Sets for Yeasts and Molds, 47mm - Sterile | | | | | | |
| 14078--47-----N | Yeasts and molds | Wort NPS & gridded MF | 0.65 µm | Gray*/White | 100 | 200 |
| 14061--47-----N | Wild yeasts | Lysine | 0.65 µm | Gray*/White | 100 | 205 |
| 14086--47-----CCN | Yeasts and molds | Malt Extract NPS & gridded MF | 0.45 µm | Gray*/White | 100 | 200 |
| 14089--47-----N | Yeasts and molds | WL Nutrient NPS & gridded MF | 0.45 µm | Gray*/White | 100 | 205 |
| 14058--47-----N | Yeasts and molds | Wort (pH 4.4) | 0.65 µm | Gray*/White | 100 | 200 |
| 14086--47-----N | Yeasts and molds | Malt Extract | 0.8 µm | Gray*/White | 100 | 205 |
| 14072--47-----N | Yeasts and molds | m Green NPS & gridded M | 1.2 µm | Gray*/White | 100 | 200 |
| 14083--47-----N | Yeasts and molds and bacteria | m Green NPS & gridded M | 0.45 µm | White/Green | 100 | 200 |
| 14069--47-----N | Yeasts and molds | Sabouraud NPS & gridded M | 0.45 µm | White/Green | 100 | 200 |
| 14070--47-----N | Yeasts and molds | m Green NPS & gridded M | 0.65 µm | White/Green | 100 | 200 |
| Nutrient Pad Sets for Product-spoiling Microorganisms, 47mm - Sterile | | | | | | |
| 14079--47-----N | Leuconostoc oenos and other wine spoiling organ. | Tomato Juice | 0.45 µm | Green/Dark Green | 100 | 200 |
| 14062--47-----N | Acid-tolerant microorganisms | Orange Serum | 0.45 µm | Green/Dark Green | 100 | 200 |
| 14065--47-----N | Mesophilic slime forming bacteria esp. Leuconostoc mesenteroides | Weman | 0.45 µm | Green/Dark Green | 100 | 200 |
| 14066--47-----N | Thermophilic spore formers and mesophilic bacteria | Glucose Tryptone | 0.45 µm | White/Green | 100 | 205 |
| 14059--47-----N | Lactobacilli and Pediococci and other beer spoiling microorg. | VLB-S7-S | 0.45 µm | White/Green | 100 | 205 |
| 14077--47-----N | Lactobacilli and other soft drink-spoiling microorganisms | MRS | 0.45 µm | Green/Dark Green | 100 | 220 |

Biosart® 100 Monitors

Sterile funnels, ready-to-use due to the incorporated membrane filter and cellulose pad

Biosart® 100 Monitors have been specifically designed for the detection and enumeration of microorganisms in pharmaceuticals, cosmetics, food, beverages, water and other liquids. These ready-to-use sterile funnels have incorporated membrane filters and cellulose pads. Following filtration, the 100 ml funnel is removed to convert the unit from a funnel to a petri dish, reducing contamination risk.



Features & Benefits

Superior performance

- High flow rate. High total throughput

Safe & reliable

- Sterile, individually packed
- Certified membrane filters: meet ISO 7704
- Membranes available in various colors
- Without any hydrophobic adhesive areas validated

Economical

- Ready to connect, easy to use and practical handling features
- Minimal amount of equipment

Specifications & Pricing

| Model | Pore Size | Color Grid Color | US List Price (\$) |
|---|-------------------|---------------------|--------------------|
| Biosart® 100 Monitors, 100 ml, 47 mm, Individually Packaged, Sterile, 48 Units | | | |
| 16401-47-07--ACK | 0.2 µm | CN white black | 235 |
| 16401-47-06--ACK | 0.45 µm | CN white black | 235 |
| 16402-47-06--ACK | 0.45 µm | CN green dark green | 235 |
| 16403-47-06--ACK | 0.45 µm | CN gray white** | 235 |
| Biosart® 100 Monitors, 100 ml, 47 mm, Packaged on Trays, Sterile, 48 Units | | | |
| 16401-47-07----K | 0.2 µm | CN white black | 153 |
| 16401-47-H6----K | 0.45 µm High Flow | CN white black | 153 |
| 16401-47-06----K | 0.45 µm | CN white black | 148 |
| 16402-47-06----K | 0.45 µm | CN green dark green | 149 |
| 16403-47-06----K | 0.45 µm | CN gray white** | 153 |
| 16403-47-04----K | 0.8 µm | CN gray white** | 153 |
| 16404-47-06----K | 0.45 µm | RC white | 149 |
| Biosart® 100 Monitors, 100 ml, 47 mm, Sterile, 48 Units | | | |
| 16401-47-H6-V--K | 0.45 µm High Flow | CN white black | 115 |
| 16401-47-06-V--K | 0.45 µm | CN white black | 115 |
| 16403-47-06-V--K | 0.45 µm | CN gray white** | 115 |
| 16403-47-04-V--K | 0.8 µm | CN gray white** | 115 |
| Biosart® 100 Monitors, 100 ml, 47 mm, Sterile, 48 Units, Membrane Fixed | | | |
| 16401-47-H6-VWMK | 0.45 µm High Flow | CN white black | 115 |
| 16401-47-06-VWMK | 0.45 µm | CN white black | 115 |
| 16403-47-H6-VWMK | 0.45 µm High Flow | CN gray white** | 115 |
| 16403-47-06-VWMK | 0.45 µm | CN gray white** | 115 |

Applications

- Detection and enumeration of microorganisms in pharmaceuticals, cosmetics, food, beverages, water and other liquids



Biosart® 100 Nutrient Media

Sterile Media Ampoules

Biosart® 100 Nutrient Media are used for microbiological testing of pharmaceuticals, food, beverages, water and other liquids. Each box contains 50 ready-to-use ampoules with 2.5 ml sterile nutrient media and lot-specific certification. The nutrient media comply with international regulations and recommendations and supersede the use of glass ampoules.



Features

Safe & reliable

Pre-sterilized media

- Certificate of quality for every batch
- In compliance with international standards
- Consistent recovery

Economical

- Ready-to-use
- Long shelf life

Specifications & Pricing

| Model | Determination of | Media Type | US List Price (\$) |
|---|----------------------------------|---|--------------------|
| Biosart® 100 Nutrient media, 2.5ml, Individually, Sterile-Packed in Ampoules, 50 Units | | | |
| 16400-02----CA-K | Total Count | Caso (acc.USP) | 83 |
| 16400-02----RA-K | Total Count | R2A (acc. EP) | 83 |
| 16400-02----TC-K | Total Count | TGE Total Count | 83 |
| 16400-02----TZ-K | Total Count | Total Count TTC | 83 |
| 16400-02----EN-K | E.coli and coliforms | m Endo | 83 |
| 16400-02----MF-K | E.coli and coliforms | m FC | 83 |
| 16400-02-----S-K | E.coli and coliforms | Lauryl Sulfate Teepol | 81 |
| 16400-02----TT-K | E.coli and coliforms | Tergitol TTC | 83 |
| 16400-02----KF-K | Enterococci | KF Strep Azide | 81 |
| 16400-02----CE-K | Pseudomonas aeruginosa | Certimide | 83 |
| 16400-02----SB-K | Yeasts and molds | Sabouraud (acc. USP) | 83 |
| 16400-02----MG-K | Yeasts and molds | m Green yeast and mold Schaufus Pottinger | 83 |
| 16400-02----GS-K | Yeasts and molds | m Green yeast and mold selective | 83 |
| 16400-02----WZ-K | Yeasts and molds | Wort | 83 |
| 16400-02---WN-K | Yeasts and molds and bacterias | WL Nutrient Wallerstein Differential | 83 |
| 16400-02-----WL-K | Bacteria in fermentation process | WL Nutrient Wallerstein Differential | 83 |
| 16400-02----OS-K | Acid-tolerant microorganisms | Orange Serum | 83 |



Applications

- Detection and enumeration of microorganisms in pharmaceuticals, cosmetics, food, beverages, water and other liquids

Microsart® @filter

Sterile Disposable Filter Units for Advanced Colony Counting

Microsart® @filters are ready-to-use combinations of funnel, filter base and gridded membranes in a single unit. Options include 100 ml and 250 ml volume sizes in multiple membrane color variations. They are available stacked in bags for safe removal using the Microsart Funnel Dispenser or as tray versions with lids.



Specifications & Pricing

| Model | Membrane Filter® Color Grid Color | Pore Size | US List Price (\$) |
|--|--|-----------------|--------------------|
| Microsart® @filter 250, Sterile Disposable Filter Units with lid, 47 mm, 250 ml, Packaged on Trays, Ideal for the Use in Clean Benches, 16 Units | | | |
| 16D01--25-07--TF | CN white black | 0.2 | 91 |
| 16D01--25-H6--TF | CN white black | 0.45, High Flow | 91 |
| 16D03--25-H6--TF | CN gray white** | 0.45, High Flow | 91 |
| 16D02--25-06--TF | CN green dark green | 0.45 | 91 |
| 16D03--25-05--TF | CN gray white** | 0.65 | 91 |
| Microsart® @filter 100, Sterile Disposable Filter Units, 47 mm, 100 ml, Stacked and Packaged in Bags, Ideal for the Use with Microsart® Funnel Dispenser, 60 Units | | | |
| 16D01--10-07--BL | CN white black | 0.2 | 260 |
| 16D01--10-H6--BL | CN white black | 0.45, High Flow | 260 |
| 16D03--10-H6--BL | CN gray white** | 0.45, High Flow | 260 |
| 16D02--10-06--BL | CN green dark green | 0.45 | 260 |
| 16D05--10-06--BL | RC white (w/o grid) | 0.45 | 260 |
| Microsart® @filter 250, Sterile Disposable Filter Units, 47 mm, 250 ml, Stacked and Packaged in Bags, Ideal for the Use with Microsart® Funnel Dispenser, 48 Units | | | |
| 16D01--25-07--BK | CN white black | 0.2 | 240 |
| 16D01--25-H6--BK | CN white black | 0.45, High Flow | 240 |
| 16D03--25-H6--BK | CN gray white** | 0.45, High Flow | 240 |
| 16D02--25-06--BK | CN green dark green | 0.45 | 240 |
| 16D03--25-05--BK | CN gray white** | 0.65 | 240 |
| Microsart® @filter 100, Sterile Disposable Filter Units, 47 mm, 100 ml, Stacked and Packaged in Trays, Ideal for the Use with Microsart® Funnel Dispenser, 24 Units | | | |
| 16D01--10-07--TG | CN white black | 0.2 | 121 |
| 16D01--10-H6--TG | CN white black | 0.45, High Flow | 122 |
| 16D02--10-06--TG | CN green dark green | 0.45 | 122 |
| 16D03--10-H6--TG | CN gray white** | 0.45, High Flow | 122 |
| 16D05--10-06--TG | RC white (w/o grid) | 0.45 | 122 |

| Model | Membrane Filter® Color Grid Color | Pore Size | US List Price (\$) |
|--|-------------------------------------|-----------------|--------------------|
| Microsart® @filter 100, Sterile Disposable Filter Units, 47 mm, 100 ml, Individually Packaged in Bags with Covers, 27 Units | | | |
| 16D03--10-H6-ACG | CN black white | 0.45, High Flow | 157 |
| 16D01--10-07-ACG | CN white black | 0.2 | 157 |
| 16D01--10-H6-ACG | CN white black | 0.45, High Flow | 157 |
| Microsart® @filter 250, Sterile Disposable Filter Units, 47 mm, 100 ml, Individually Packaged in Bags with Covers, 18 Units | | | |
| 16D03--25-H6-ACF | CN black white | 0.45, High Flow | 114 |
| 16D01--25-07-ACF | CN white black | 0.2 | 114 |
| 16D01--25-H6-ACF | CN white black | 0.45, High Flow | 114 |

Accessories

| Item | Description | US List Price (\$) |
|-------|--|--------------------|
| 16A08 | Funnel dispenser for secure removal of single, sterile Microsart® @filter packaged in bags | 640 |

* CN = Cellulose Nitrate (Cellulose ester), RC = Regenerated Cellulose

** Gray membranes after wetting black

Microsart® @media

Advanced System for Agar and Membrane Transfer

Microsart® @media are sterile, ready-to-use media dishes pre-filled with various agar media types. Together with Microsart® @filter units, they provide a new membrane transfer concept for the Microbial Limit Test. The innovative lid of Microsart® @media allows a touch-free membrane transfer from the Microsart® @filter base, minimizing the risk of secondary contamination.



Features & Benefits

Innovative Membrane Transfer Concept

The active lid enables touch-free membrane transfer and, therefore, reduces the risk of secondary contamination. The special design also avoids introduction of air bubbles.

Easy Handling

Fits perfectly onto the Microsart® @filter base and enabling an easy and reliable transfer of the membrane filter onto the agar. No forceful cracking of plastic is required.

Safe & Reliable

Touch-free membrane transfer reduces handling, minimizing major sources of secondary contamination. Results in best growth conditions and reliable results.

Time-saving

Innovative click-fit closure permits fast and easy removal of the funnel after filtration.

Applications

- Microbiological quality control in biopharmaceutical laboratories.

Specifications & Pricing

| Model | Media Type | Target Microorganisms | Typical incubation time and Temperature | US List Price (\$) |
|------------------|--------------------------|-----------------------|---|--------------------|
| 14313--47----ACN | TSA (Tryptic Soy Agar) | Total Count | 48 to 72 hrs (USP) or 1 to 5 days (EP) at 30 to 35° | 460 |
| 14314--47----ACN | SDA (Sabouraud Dextrose) | Yeasts and Molds | 5 to 7 days at 20 to 25° | 460 |
| 14322--47----ACN | R2A | Total Count | 5 to 7 days at 20 to 28° | 460 |

Microsart® Manifolds

The Filtration Stand That Adapts to Your Needs

The ability to accurately detect and quantify microorganisms in liquid samples is of prime importance for any quality control laboratory. This is why membrane filtration is the established method of choice for liquid testing as it provides reliable and reproducible results. A suitable and thoughtful filtration equipment is at least as important as high quality membrane filters and reliable media plates.

Facilitate your daily microbiological testing procedures with the new Microsart® Manifold: select the proper manifold for your individual microbiological testing procedure, choose between reusable and single use funnels or filtration units, and decide between different sizes of manifolds and enjoy the manifold that adapts to your needs.

Features & Benefits

The manifold that adapts to daily needs

Depending on the number of daily tests you can choose between different sizes of manifolds, from single branch to multi-branch. The different Manifold sizes are interconnectable by quick connection to enable the manifold to adapt to your daily workload. Standardized quick connectors at both sides of the manifolds enable fast connections of tubing, another manifold or end caps. Depending on your application choose between different funnel and filtration units, from complete reusable to single sterile solutions. Simply connect the filter onto the manifold by using the correct adaptor. Push the filter adapter into the manifold to fix it and choose your favorite between 3 different working positions. This new and fast way to connect the respective filter adapter (base support) to the manifold eliminates the need for additional tools.

Minimized risk of secondary contamination by design

100% stainless steel. For sterilization of your working equipment, no disassembly is needed - simply put the complete manifold, including the filter adapters, into the autoclave for sterilization.

During filtration, residual remaining liquid below the filter could potentially cross-contaminate the filter and, therefore, your results. The newly designed and integrated sterile venting step enables full drainage of liquid below the filter when using the Microsart Filter Adapter (Microsart Base). This integrated venting step eliminates the risk of secondary contamination and ensures a secure working procedure.

Safe and stable ergonomic working procedures

Ruber feet provide better stability. Low height ensures efficient and ergonomic working under the laminar flow. Shorter manifold lengths save valuable space at the lab bench or in the laminar flow, to minimize the risk of an overloaded working space.



Applications

Microbiological quality control of liquid samples:

- Beverages (beer, wine, soft drinks, bottled water)
- Pharmaceutical analysis (WFI, purified water, microbial limit testing of non-sterile products, bioburden testing)
- Environmental water testing (water monitoring)
- Cosmetics

Specifications

Materials of Construction

Manifold and base supports Stainless Steel 316L (1.4404)

Valves Monel

O-rings Silicon

Feet Silicon

Dimensions (L x H x W) in mm (without Funnels and Tubing)

1 branch 176 x 120 x 98

2 branch 246 x 130 x 118

3 branch 474 x 120 x 98

6 branch 924 x 120 x 98

Autoclaving Conditions

121°C for 30 min

Microsart® Manifolds

| Item | Description | US List Price (\$) |
|--|--|--------------------|
| Manifolds for critical Applications in the Pharmaceutical and Cosmetic Industry | | |
| 168M1-MS | 1 branch Microsart Manifold for Microsart consumables | 1,575 |
| 168M2-MS | 2 branch Microsart Manifold for Microsart consumables | 2,425 |
| 168M3-MS | 3 branch Microsart Manifold for Microsart consumables | 2,935 |
| 168M6-MS | 6 branch Microsart Manifold for Microsart consumables | 4,485 |
| Manifolds for the Beverage Industry | | |
| 168M1-BS100 | 1 branch Microsart Manifold for Biosart 100 Monitors | 1,600 |
| 168M2-BS100 | 2 branch Microsart Manifold for Biosart 100 Monitors | 2,450 |
| 168M3-BS100 | 3 branch Microsart Manifold for Biosart 100 Monitors | 2,990 |
| 168M6-BS100 | 6 branch Microsart Manifold for Biosart 100 Monitors | 4,575 |
| Manifolds for the Environmental Industry | | |
| 168M1-BS250 | 1 branch Microsart Manifold for Biosart 250 Funnels | 1,555 |
| 168M3-BS250 | 3 branch Microsart Manifold for Biosart 250 Funnels | 2,935 |
| 168M6-BS250 | 6 branch Microsart Manifold for Biosart 250 Funnels | 4,545 |
| Manifolds for the Beverage and Environmental Industry | | |
| 168M1-SS100 | 1 branch Microsart Manifold with 100ml Stainless Steel Funnel | 1,670 |
| 168M3-SS100 | 3 branch Microsart Manifold with 100ml Stainless Steel Funnels | 3,395 |
| 168M6-SS100 | 6 branch Microsart Manifold with 100ml Stainless Steel Funnels | 5,520 |
| 168M1-SS500 | 1 branch Microsart Manifold with 500ml Stainless Steel Funnel | 1,735 |
| 168M3-SS500 | 3 branch Microsart Manifold with 500ml Stainless Steel Funnels | 3,565 |
| 168M6-SS500 | 6 branch Microsart Manifold with 500ml Stainless Steel Funnels | 5,740 |

Accessories

| Item | Description | US List Price (\$) |
|-----------------|--|--------------------|
| S7575-----FXOSK | Venting filter | 169 |
| 166MP-4 | Microsart e.jet Pump | 1,485 |
| 1ZAS--0007 | Silicone tubing, for connection with Microsart e.jet Pump, pressure-sided, 1m | 25 |
| 1ZAS--0016 | Vacuum silicone tubing with Quick Connection, 1m | 37 |
| 1ZA---0006 | Silicone tubing with Quick Connection Coupling, 20 cm, vacuum-sided, for connection between Microsart manifold and Microsart e.jet pump | 30 |
| 168SP-A0001 | Blind coupling for 1, 3 and 6 place Microsart Manifold, Stainless Steel | 109 |
| 168SP-B0001 | Quick Connection Coupling for Silicon Tubing, PSU, 2 units | 9 |
| 6981065 | 100ml Stainless steel funnel with closure clamp | 275 |
| 6981063 | Lid, stainless steel, for 100ml Funnel | 69 |
| 6981064 | Lid seal, silicone, for 100ml Funnel | 10 |
| 6981002 | 500ml Stainless steel funnel with closure clamp | 300 |
| 6981001 | Lid, stainless steel, for 500ml Funnel | 76 |
| 6981003 | Lid seal, silicone, for 500ml Funnel | 17 |
| 168ZA-A0001 | Base support for Microsart Manifold, stainless steel, for use of 47mm Filter with Microsart Funnels, Microsart@filter, Biosart 100 Monitors | 215 |
| 168ZA-B0001 | Base support for Microsart Manifold, stainless steel, for use of 47 or 50mm Filter with Biosart 250 Funnels or 100ml/500ml Stainless Steel Funnels | 163 |
| 168ZA-C0001 | Double Coupling for Connection of 2 Manifolds, Stainless Steel | 178 |
| 168ZA-D0001 | Adapter 16511 on Microsart Manifolds | 52 |

Microsart® mini.vac & maxi.vac

Vacuum Pump

Microsart® mini.vac and maxi.vac are electric neoprene membrane pumps that offer low noise levels and maintenance-free operation. The ability to easily adjust and control the vacuum level reduces damage in sensitive cell applications (e.g. bacteria). This results in higher recovery rates and may allow for shorter incubation periods.



Features

- Neoprene membrane pumps with low noise level
- Oil- and maintenance-free
- Reliable sources of vacuum

Applications

- Microbiological quality control of liquid products and particle testing

Pricing & Specifications

| Model | Description | US List Price (\$) |
|-------------------|---|--------------------|
| 16694-1-60-22 | Microsart® maxi.vac for multiple filtration runs, 115 V, 60 | 1,270 |
| 16694-1-60-06 | Microsart® mini.vac up to 3 filter stations in parallel, 115 V, 60 Hz | 595 |
| Replacement Parts | | |
| 1ED---0055 | Replacement kit for 16694-2-50-22 and -1-60-22, set of one membrane, two valve springs and two head seals | 76 |
| 1ED---0054 | Replacement kit for 16694-2-50-06 and -1-60-06, set of one membrane, two valve springs and two head seals | 58 |
| 1EH---0002 | Sound absorber for 16694-2-50-22 and -1-60-22 | 60 |
| 1EH---0001 | Sound absorber for 16694-2-50-06 and -1-60-06 | 24 |
| 1EV---0002 | Fine adjustment head for 16694-2-50-22 and -1-60-22 | 173 |
| 1EV---0001 | Fine adjustment head for 16694-2-50-06 and -1-60-06 | 168 |
| 1EV---0003 | Fine adjustment head for 16694-2-50-06 and -1-60-06, for positive pressure applications | 168 |

Microsart® e.jet

Vacuum Pump

The Microsart® e.jet is a laboratory vacuum pump which is capable of simultaneously creating a vacuum and transferring filtered liquids to waste. With the ability to achieve a trans membrane pressure of 600 mbar and a flow rate of 4.0 NI/min (4.0 Normliters water displacement by air in one minute), it is ideal for sample preparation in microbiological analysis. Constant flow rates and a defined maximum vacuum guarantee smooth and reliable filtration.



Features

- Ideal for microbiology applications
- A defined maximum vacuum guarantees smooth and reliable filtration
- Assembly and disassembly of the whole system is completed in seconds with a push-to-connect and pull-to disconnect design
- Saves 70% of working space
- Reduced operating complexity: No need for suction flasks and water traps
- Safe operation | Maintenance-free

Applications

- Microbiological quality control of liquid products and particle testing

Pricing & Specifications

| Model | Description | US List Price (\$) |
|---------|--|--------------------|
| 166MP-4 | Microsart® e.jet Transfer Pump with Quick Connection, without tubings, inlet and outlet hose nipples for DN 10 tubings | 1,485 |

Accessories

| Item | Description | US List Price (\$) |
|------------|--|--------------------|
| 1ZA---0006 | Silicone tubing with Quick Connection. Coupling, 20 cm, vacuum-sided | 30 |
| 1ZAS--0007 | Silicone tubing, pressure-sided, 1 m | 25 |
| 1ZAS--0019 | Silicone tubing, pressure-sided, 2 m | 26 |
| 1ZAS--002 | Silicone tubing, pressure-sided, 10 m | 88 |
| 1ZE---0053 | Foot switch for Microsart® e.jet Transfer Pump | 395 |

Replacement Parts

| | | |
|------------|-----------------------------------|-----|
| 1EP---0003 | Pump head complete for 166MP-4 | 350 |
| 1EE---0012 | Power supply complete for 166MP-4 | 235 |

Threaded Fittings

| | | |
|------------|---|----|
| 1EAS--0027 | Quick Connection set, 2 Nipples (POM) on R3/8" male thread and 2 Couplings (PSU) on DN 10 hose nipple | 28 |
|------------|---|----|

Accessories

For Microbial Enumeration and Vacuum Filtration

Suction Flask

Vacuum-resistant flask made of Duran 50 glass with plastic safety hose nipple according to the – German Industrial Standard No. 12476. Outer diameter of the hose nipple, 9 mm. Inner diameter of the opening, 60 mm.

| Model | Description | US List Price (\$) |
|--|--|--------------------|
| Suction Flasks | | |
| 16672-----1 | Suction flask, 5 liters acc. to DIN 12476, incl. stopper 75 D and glass tube | 250 |
| 16672 | Suction flask, 2 liters acc. to DIN 12476, without stopper | 188 |
| 17204 | Tube connector for connecting a Combisart® stainless steel manifold to a suction flask 1 or 2 liters (not necessary when a Vacusart® is connected directly to the bored stopper) | 8 |
| 16606 | Suction flask, 1 liter (not available in countries which have safety restrictions on glass hose nipples) | 62 |
| Replacement Parts | | |
| 1EAS--0019 | Bored stopper 75 D for suction flask 5 liters 16672-----1 | 96 |
| Model Description Adaptation US List Price (\$) | | |
| Bored Stoppers for Suction Flask 2 liters 16672 | | |
| 17173 | Silicone stopper Combisart® individual base 16841 or other individual stainless steel filter holders (16201, 16219, 16220) onto the suction flask 16672 | 33 |
| 17174 | Silicone stopper 16306 15 (glass funnels, 30 ml) onto the suction flask 16672 | 34 |
| 17175 | Silicone stopper 16307 (glass funnel, 250 ml) onto the suction flask 16672 | 34 |
| Bored Stoppers for Suction Flask 1 liter 16606 | | |
| 17004 | Silicone stopper Combisart® individual base 16841 or other individual stainless steel filter holders (16201, 16219, 16220) onto the suction flask 16606 | 9 |
| 17005 | Silicone stopper 16306 15 (glass funnels, 30 ml) onto the suction flask 16606 | 50 |
| 17006 | Silicone stopper 16307 16 (glass funnel, 250 ml) onto the suction flask 16606 | 49 |



Suction Flask

Woulff's Bottle, 500 ml

Used between suction flask and vacuum source. Allows simple control of the vacuum with glass units without a separate tap and prevents the filtrate from overflowing from the suction flask.

| Model | Description | US List Price (\$) |
|-------|-------------------------|--------------------|
| 16610 | Woulff's Bottle, 500 ml | 148 |

Rubber Vacuum Hose (1 Meter)

Thick-walled rubber hose for connecting the system components, e. g. suction flasks, vacuum pumps, etc. When ordering, please state length required in meters.

| Model | Description | US List Price (\$) |
|-------|------------------------------|--------------------|
| 16623 | Rubber Vacuum Hose (1 meter) | 14 |

Stainless Steel Tweezers

Sartorius stainless steel tweezers can be flamed and they are autoclavable. They have blunt-edged tips for a careful, firm hold on the membrane filter.

| Model | Description | US List Price (\$) |
|-------|--------------------------|--------------------|
| 16625 | Stainless steel tweezers | 37 |

Water Traps

Used between suction flask and vacuum source, in order to prevent overflow of filtrate into an electric vacuum pump.

| Model | Description | US List Price (\$) |
|-------------|---------------------------------|--------------------|
| 17804-----M | Vacusart® water trap, pack of 3 | 47 |



Woulff's Bottle

Sterisart® NF

Your Choice For Sterility Testing

International Pharmacopeia require testing for sterility and certification of each batch of sterile product prior to distribution. The Sterisart® NF System is a unique and completely disposable technology based on the membrane filtration method. It enables the sterility testing of pharmaceutical / medical products in full compliance with international Pharmacopeia.



Features

- Unique septum
- Low adsorption
- High mechanical stability
- Sharp metal needle
- Pre-installed color-coded tube clamps
- Product/lot number identification
- Huge variety of adapters and more than 20 unit types

Applications

- Sterility Testing of (bio)pharmaceutical products, medical devices and ophthalmological products in ampoules, vials, bags, syringes, bottles, powders, etc.

Benefits

Unique Septum Version for aseptic sampling

For aseptic sampling during incubation for dilution, rapid detection or inactivation of antibiotics.

Sharp Metal needle

Convenient penetration of septum on bottles, bags and vials.

Pre-installed color-coded tube clamps

Color coded clamps for easy and reliable assignment of the Sterisart NF container.

Product-/lot number identification

Traceability of the product for documentation/security.

Huge variety of adapters and more than 20 different unit types

Pre-Sterilized gamma or ethyleneoxide units double or single packed, for testing of ampoules, vials, bags, syringes, bottles, powders, etc. are available.



| Model | Type of Sample | Type of Sample Container | Description | US List Price (\$) |
|--|---|---|---|--------------------|
| Sterisart® NF – Sterility Test Systems, Gamma Sterilized, 10/box | | | | |
| 16466-----GBD | LVPs | Closed glass bottles with septum | Long dual-needle metal spike, sterile vented | 450 |
| 16467-----GBD | LVPs; SVP's | Open containers, i.e. glass ampoules, glass bottles, Collapsible bags | 60 mm long needle and protective plate, inclusive sterile venting needle | 450 |
| 16477-----GBD | LVPs, SVPs, Eye drops | Closed plastic containers / vials / ampoules, plastic containers of Blow-Fill-Seal fillings | Long needle, (side opening, with solid pointed tip, non-coring), protective plate, inclusive sterile venting needle | 450 |
| 16475-----GBD | Lyophilisates, Soluble powders, Liquid antibiotics | Closed glass vials with septum | Two dual-needle metal spikes of different length, one is sterile-vented | 455 |
| 16468-----GBD | Medical Devices | Tubing systems and bags with Luer Lock | Luer Lock connector, inclusive long needle and sterile venting needle | 450 |
| 16478-----GBD | Medical devices | Containers / bags with Luer Lock male connectors | Female Luer Lock connector | 450 |
| 16469-----GBD | Pre-filled syringes | Syringes with and without needles | Universal Luer adapter and long dual-needle spike, sterile venting needle | 450 |
| 16476-----GBD | SVPs | Closed glass vials with septum | Short dual-needle metal spike, sterile-vented | 450 |
| Sterisart® CA – Sterility Test Systems, Gamma Sterilized, CA Membrane, 10/box | | | | |
| 1646601-----GBD | LVPs | Closed glass bottles with septum | Long dual-needle metal spike, sterile | 465 |
| 1646701-----GBD | LVPs; SVPs | Open containers, i.e. glass ampoules, glass bottles, Collapsible bags | Sterisart 6-cm metal needle for open containers | 465 |
| Sterisart® NF – Sterility Test Systems, Gamma Sterilized, Septum, 10/box | | | | |
| 16466-----GSD | LVPs | Closed glass bottles with septum | Sterisart NF alpha, dual-needle metal spike for closed containers | 485 |
| 16467-----GSD | LVPs; SVPs | Open containers, i.e. glass ampoules, glass bottles, Collapsible bags | Sterisart NF alpha, 6-cm metal needle for open containers | 485 |
| 16475-----GSD | Lyophilisates, Soluble powders, Liquid antibiotics | Closed glass vials with septum | Two dual-needle metal spikes of different length, one is sterile-vented | 485 |
| 16469-----GSD | Pre-filled syringes | Syringes with and without needles | Universal Luer adapter and long dual-needle spike, sterile vented | 485 |
| 16476-----GSD | SVPs | Closed glass vials with septum | Short dual-needle metal spike, sterile-vented | 485 |
| Sterisart® NF – Accessories | | | | |
| 16470-----GBD | Sterisart® NF gamma tubing systems with two dual-needle metal spikes of different length, needles made of flammable stainless steel; g-sterile; 10pk | | Tubing system with two dual-needle metal spikes of different length, needles made of flammable SS | 189 |
| 16471-----GBD | Transfer Kit for liquids | | | 150 |
| 16596-----HNK | Minisart® Air Syringe Filter - 0.2 µm PTFE membrane; MBS housing; 25mm; Luer Slip outlet; Gamma sterile; Individually packaged for isolators; Air/gas filtration; 50/pk | | | 230 |
| 1ZGL--0033 | Bottle Holder for 16420 & 16419 | | | 240 |
| Millipore Pump Adapters | | | | |
| 1ZA---0028 | Sterisart® NF canister adapter for Millipore Symbio pumps | | | 86 |
| 1ZG---0014 | Sterisart® NF adapter for Millipore Equinox Pumps* | | | 30 |

*Contact your Microbiology Sales Specialist to discuss adapters for using Sterisart® Canisters on Millipore Pumps. Many adapters need to be custom-ordered as Millipore regularly changes their pumps. Information needed: Model and Serial number of the Millipore pump.

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

- Closed system – no ventilation
- Sophisticated & modular design
- Easy to clean
- Barcode Scanner
- Programmable
- Ergonomic Handling

Applications

- Liquid transfer during sterility test

Benefits

Closed system – no ventilation

Enhanced safety concerning particle release.

Sophisticated & modular design

Compact design.

Easy to clean

With Peracetic acid, H₂O₂ and acetic acid (2.5%); Quaternary ammonium; Formaldehyde and glutaraldehyde; Isopropyl alcohol, Ethanol 70%.

Barcode Scanner

Enhanced traceability and documentation of the used media and products.

Ergonomic Handling

Adjustable display

Specifications & Pricing

| Model | Description | US List Price (\$) |
|-------|--|--------------------|
| 16420 | Sterisart® Universal pump, upgraded version with display and user software | 16,030 |
| 16419 | Sterisart® Universal pump, basic version | 11,335 |

Note: The following items must now be ordered separately as optional accessories:

Ampoule breaker (1ZW---0002)

Draining container cover (Millipore sterility test units) (1ZG---0024)

Footswitch (1ZE---0033) [footswitch is highly recommended]

Accessories

| Item | Description | US List Price (\$) |
|------------|--|--------------------|
| 1ZE---0033 | Footswitch | 240 |
| 1ZG---0014 | Adapter for Sterisart® NF units, fitting into container for draining of Millipore Equinox pumps* | 30 |
| 1ZW---0002 | Ampoule breaker | 620 |
| 1ZG---0024 | Cover drain container (Millipore Steritest Canisters) | 132 |
| 1ZE---0039 | Transport trolley | 300 |
| 1ZE---0050 | Installation kit for isolators | 750 |
| 1ZG---0028 | Container for draining | 595 |
| 1ZA---0002 | Drain Tubing | 34 |
| 1ZGF--0020 | Sterisart® 10-fold holder | 320 |
| 1ZGD--0031 | Sterisart Rotor Cover (Stainless Steel) | 1,010 |

*Contact your Microbiology Sales Specialist do discuss adapters for using Sterisart® Canisters on Millipore Pumps. Many adapters need to be custom-ordered as Millipore regularly changes their pumps. Information needed: Model and Serial number of the Millipore pump.

Microsart® Geneprep

For Rapid and Complete Concentration and Extraction of Microbial DNA from Liquids

Microsart® Geneprep, offers fast, convenient and reliable DNA concentration and extraction to support rapid contamination testing via any PCR or DNA-based detection assay. The unique, patented membrane dissolving technology of Microsart® Geneprep ensures maximum recovery of all microbes from the membrane while convenient, touch free membrane handling minimizes cross-contamination and the risk to worker safety.



Features

- Fast and flexible DNA extraction platform
- Patented, dissolving membrane
- Touch-free membrane transfer

Applications

- Water testing – Legionella and others
- Beverage testing
- Clinical hygiene and pharmaceutical applications

Technical Specifications

Each kit contains reagents for 20 filtrations and DNA extractions. The kit components are stored until use at room temperature (18 to 25°C). Rehydrated Carrier RNA has to be stored in aliquots at -18°C.

| Kit Component | Quantity |
|-------------------------------|-------------------------------|
| Microsart® @filter | 20 |
| Microsart® @solve | 20 |
| Membrane Solvent | 20 × 800 µl (Glass Vials) |
| Lysis Buffer | 20 × 500 µl (Plastic Tubes) |
| Separation Paste | 20 × prefilled Plastic Tubes |
| 1.5 ml Reaction Tube | 20 |
| Carrier RNA | 2 Plastic Tubes (lyophilized) |
| RNA Rehydration Buffer | 1 Plastic Tube |
| Isopropanol | 14 ml |
| 70% Ethanol | 14 ml |
| DNA Rehydration Solution | 2 × 1.5 ml (Plastic Tubes) |
| Manual (Instructions for use) | 1 |

Benefits

Fast and flexible extraction platform delivers ready to analyze DNA extracts for subsequent use with any PCR or DNA-based detection assay.

Patented dissolving membrane technology improves data quality by ensuring maximum recovery of all microbes.

Convenient filter concentration and touch-free membrane transfer reduce the risk of cross contamination and improve user safety.

Pricing & Specifications

| Model | Description | Qty. | US List Price (\$) |
|------------|--------------------|----------------|--------------------|
| SMB95-2004 | Microsart Geneprep | 20 extractions | 690 |

Microsart® RESEARCH Mycoplasma

Fast and Easy Monitoring of Mycoplasma Contamination

Microsart® RESEARCH Mycoplasma enables a fast and reliable detection of Mycoplasma DNA in cell culture supernatants most applicable to R&D applications. Carefully selected primer | probe combinations are highly specific for a region within the 16S rRNA gene of at least 110 Mycoplasma species. The detection procedure can be performed within 3 hours. The use of TaqMan® probes adds specificity to the PCR detection system. Only 2 µL of starting material is required. A standard qPCR cyclers is used for amplification and evaluation is performed with standard cyclers software.



Benefits

Microsart® RESEARCH Mycoplasma is based on Real-time PCR technology:
Easy-to-use and Fast: Results in hours not days!

Primers and probes detect a highly conserved region of the 16S rRNA gene of numerous Mycoplasma species
High specificity to detect all 9 Mycoplasma species according to EP & easy result interpretation .

No specific hardware requirements
Uses common lab equipment reducing the need for additional hardware expenses.

Technical Specifications

Each kit contains reagents for 25 to 100 reactions. The expiry date of the unopened package is specified on the package label. The kit components are to be stored until use at +2 to 8°C and must be stored after opening and rehydration below -18°C. The lot specific Certificate of Analysis can be downloaded from the manufacturer's website (www.minerva-biolabs.com).

| Kit Component | 25 Reactons | 100 Reactions |
|--------------------|-----------------|-----------------|
| Model | SMB95-1005 | SMB95-1006 |
| Mycoplasma Mix | 1 x lyophilized | 4 x lyophilized |
| Rehydration Buffer | 1 x 1.0 ml | 2 x 1.0 ml |
| Positive Control | 1 x lyophilized | 1 x lyophilized |
| PCR grade Water | 1 x 1.0 ml | 4 x 1.0 ml |

Pricing & Specifications

| Model | Description | Qty. | US List Price (\$) |
|--------------------|-------------------------------|----------------|--------------------|
| SMB95-1005 | Microsart RESEARCH Mycoplasma | 25 | 335 |
| SMB95-1006 | Microsart RESEARCH Mycoplasma | 100 | 1,215 |
| Accessories | | | |
| SMB95-2003 | Microsart® AMP Extraction | 50 extractions | 580 |

Applications

- Mycoplasma contamination control in research & development

Notice to purchaser: Limited License

Purchase of this product includes an immunity from suit under patents specified in the product insert to use only the amount purchased solely in industrial microbiology QA/QC field and also for the purchaser's own internal research. No other patent rights are conveyed expressly, by implication, or by estoppel. Further information on purchasing licenses may be obtained by contacting:

Director of Licensing, Applied Biosystems,
850 Lincoln Centre Drive,
Foster City, California 94404, USA

Microsart® ATMP and AMP Mycoplasma Kits

Fast and Easy Detection of Mycoplasma Contamination

Reduce your testing time from weeks to 3 hours with the Microsart® ATMP and AMP Mycoplasma kits. The kits utilize quantitative, real-time PCR and are suitable for the sensitive but robust detection of Mycoplasma contamination in various raw materials in the biopharmaceutical process. With the ability to be very flexible in sample volume and sample preparation, the kits are specifically designed for the control of fermentation materials, in-process control, and lot release testing of finished products.



Pricing & Specifications

| Model | Description | Qty. | US List Price (\$) |
|------------|----------------------------|------|--------------------|
| SMB95-1003 | Microsart® ATMP Mycoplasma | 25 | 540 |
| SMB95-1004 | Microsart® ATMP Mycoplasma | 100 | 1,975 |
| SMB95-1001 | Microsart® AMP Mycoplasma | 25 | 710 |
| SMB95-1002 | Microsart® AMP Mycoplasma | 100 | 2,575 |

Microsart® Calibration Reagent Mycoplasma

Each kit contains 1 vials of mycoplasma DNA as well as 3 vials containing buffer for the preparation of comparable negative controls and dilutions. Each vial contains 1x10⁶ genomes / µl of the complete Mycoplasma genome.

| | | |
|------------|---------------|-----|
| SMB95-2021 | Argininii | 325 |
| SMB95-2022 | Orale | 325 |
| SMB95-2023 | Gallisepticum | 325 |
| SMB95-2024 | Pneumoniae | 325 |
| SMB95-2025 | Synoviae | 325 |
| SMB95-2026 | Fermentans | 325 |
| SMB95-2027 | Hyorginis | 325 |
| SMB95-2028 | Laidlawii | 325 |
| SMB95-2029 | Citri | 325 |

Microsart® AMP Validation Standard Mycoplasma

Each kit contains 3 vials of mycoplasma particles as well as 2 vials containing the same carrier matrix as the mycoplasma vials for the preparation of comparable negative controls. Each vial contains 10 culture forming units (CFU) of inactivated mycoplasma particles.

| | | |
|------------|-------------------|-----|
| SMB95-2011 | Argininii | 325 |
| SMB95-2012 | Orale | 325 |
| SMB95-2013 | Gallisepticum | 325 |
| SMB95-2014 | Pneumoniae | 325 |
| SMB95-2015 | Synoviae | 325 |
| SMB95-2016 | Fermentans | 325 |
| SMB95-2017 | Hyorginis | 325 |
| SMB95-2018 | Laidlawii | 325 |
| SMB95-2019 | Spiroplasma citri | 325 |

Accessories

| Item | Description | Qty. | US List Price (\$) |
|------------|-------------------------------|----------------|--------------------|
| SMB95-2003 | Microsart® AMP Extraction | 50 extractions | 620 |
| VS0641 | Vivaspin 6, 100,000 MWCO | 25 | 150 |
| VS2041 | Vivaspin 20, 100,000 MWCO | 12 | 149 |
| SMB95-2002 | Microsart® AMP Coating Buffer | 20 x 2 ml | 85 |

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Director of Licensing, Applied Biosystems,
850 Lincoln Centre Drive,
Foster City, California 94404, USA

Microsart® RESEARCH Bacteria

For Detection of Bacterial Contamination in Hours, Not Days

Designed specifically for R&D use, Microsart® RESEARCH Bacteria provides rapid (2-4 hour) and reliable detection of >95% of all known bacteria. Use of a special Taqman® probe and integration of an inhibition control in the master mix provide high result confidence and minimize prep time. Microsart® RESEARCH Bacteria is compatible with any qPCR cyclers that detects FAM® and ROX® so you can begin testing immediately using your existing equipment.



Features

- Rapid, real-time qPCR
- No DNA extraction or gel electrophoresis required
- Highly specific primers and special Taqman® probe
- Negative (inhibition) control integrated into a ready-to-use master mix
- Easy, color-coded protocol
- Compatible with any qPCR cyclers that detects fluorescent dyes FAM® and ROX®
- Lyophilized reagents and validation standards
- Expert validation guidance

Benefits

- Rapid, real-time PCR provides yes/no results in just 2-4 hours
- Reduces hands on time to approximately ½ hour
- Reliable detection of >95% of all known bacteria
- Integrated control provides high result confidence and minimizes prep time
- Simplified testing process
- Permits use of existing lab equipment
- Reduced risk of infection

Applications

- PCR
- Rapid testing for bacterial contamination

Specifications & Pricing

| Model | Description | US List Price (\$) |
|--|---|--------------------|
| SMB95-1009 | Microsart® RESEARCH Bacteria (Bacteria Detection Kit for qPCR, 25 reactions) | 615 |
| SMB95-1010 | Microsart® RESEARCH Bacteria (Bacteria Detection Kit for qPCR, 100 reactions) | 2,450 |
| Microsart® Validation Standards | | |
| SMB95-2005 | Bacillus subtilis | 400 |
| SMB95-2006 | Microsart Validation Standard -Pseudomonas aeruginosa | 400 |
| SMB95-2007 | Kocuria rhizophila | 400 |
| SMB95-2008 | Clostridium sporogenes | 400 |
| SMB95-2009 | Bacteroides vulgatus | 400 |
| SMB95-2010 | Staphylococcus aureus | 400 |
| SMB95-2018 | Acholeplasma laidlawii | 400 |
| SMB95-2019 | Spiroplasma citri | 400 |
| Microsart® Calibration Reagents | | |
| SMB95-2028 | Acholeplasma laidlawii | 400 |
| SMB95-2029 | Spiroplasma citri | 400 |
| SMB95-2030 | Bacillus subtilis | 400 |
| SMB95-2031 | Pseudomonas aeruginosa | 400 |
| SMB95-2032 | Kocuria rhizophila | 400 |
| SMB95-2033 | Clostridium sporogenes | 400 |
| SMB95-2034 | Bacteroides vulgatus | 400 |
| SMB95-2035 | Staphylococcus aureus | 400 |
| Accessories | | |
| SMB95-2001 | Microsart® Bacteria Extraction, 50 extractions (optional) | 755 |

Microsart® ATMP Bacteria Kits

Fast and Easy Detection of Mycoplasma Contamination

The Microsart® ATMP Bacteria kit is validated according to EP 5.1.6 with respect to sensitivity, specificity and robustness for detection of bacteria in cell cultures, cell culture derived biologicals and ATMPs. Use of a special Taqman® probe and integration of an inhibition control in the master mix provide high result confidence and minimize prep time. Microsart® ATMP Bacteria is compatible with any qPCR cyler that detects FAM® and ROX® so you can begin testing immediately using your existing equipment.



Features

- Rapid, real-time qPCR
- No DNA extraction or gel electrophoresis required
- Highly specific primers and special Taqman® probe
- Negative (inhibition) control integrated into a ready-to-use master mix
- Easy, color-coded protocol
- Compatible with any qPCR cyler that detects fluorescent dyes FAM® and ROX®
- Lyophilized reagents and validation standards
- Expert validation guidance

Benefits

- Detecting >95% of all known bacteria in one test
- 3h-result: prior to treatment
- Specific TaqMan® probes reduce false-positives
- Non-infectious validation standards
- Less pipetting: controls already included

Applications

- PCR
- Rapid testing for bacterial contamination

Specifications & Pricing

| Model | Description | US List Price (\$) |
|--|---|--------------------|
| SMB95-1008 | Microsart® ATMP Bacteria (Bacteria Detection Kit for qPCR, 25 reactions) | 3,765 |
| SMB95-1007 | Microsart® ATMP Bacteria (Bacteria Detection Kit for qPCR, 100 reactions) | 1,255 |
| Microsart® Validation Standards | | |
| SMB95-2011 | Mycoplasma arginini | 400 |
| SMB95-2012 | Mycoplasma orale | 400 |
| SMB95-2013 | Mycoplasma gallisepticum | 400 |
| SMB95-2014 | Mycoplasma pneumoniae | 400 |
| SMB95-2015 | Mycoplasma synoviae | 400 |
| SMB95-2016 | Mycoplasma fermentans | 400 |
| SMB95-2017 | Mycoplasma hyorhinis | 400 |
| Microsart® Calibration Reagents | | |
| SMB95-2021 | Mycoplasma arginini | 400 |
| SMB95-2022 | Mycoplasma orale | 400 |
| SMB95-2023 | Mycoplasma gallisepticum | 400 |
| SMB95-2024 | Mycoplasma pneumoniae | 400 |
| SMB95-2025 | Mycoplasma synoviae | 400 |
| SMB95-2026 | Mycoplasma fermentans | 400 |
| SMB95-2027 | Mycoplasma hyorhinis | 400 |
| Accessories | | |
| SMB95-2001 | Microsart® Bacteria Extraction, 50 extractions (optional) | 755 |

MD-8 Airscan®

Fixed Sampling System for Microbial Air Monitoring of Controlled Environments

The MD8 Airscan®, together with gelatin membrane filter disposables, constitutes a sampling system for accurate, reproducible and quantitative detection of airborne microorganisms in clean rooms and isolators, whether conventionally ventilated or under laminar flow. This system is capable of detecting even the smallest airborne contaminants, including viruses.



Features

- Proprietary, ready-to-use, USP-approved gelatin membrane filters
- Compact, modular design
- Delayed start feature
- Stainless steel sampling head
- Storage of calibration and test data
- Compatibility with YDP30 thermal transfer printer and all MD8 accessories

Applications

- Microbial air monitoring of controlled environments

Benefits

Non-nutrient based USP-approved gelatin membranes permit continuous air monitoring for 8+ hours and do not promote bacterial growth.

A single command unit can be used in conjunction with multiple sampling heads in various test locations.

Modularity ensures maximum versatility to accommodate current and future needs, fits in small work areas.

Delayed start feature permits personnel to exit the sampling area and minimizes the impact of area traffic on test results.

Sampling head compatibility with in-line sterilization processes allows disinfection and prevention of secondary contamination. System stores calibration data and up to 300 test results.

Specifications & Pricing

| Model | Description | US List Price (\$) |
|---------------|---|--------------------|
| 16746SHBCOM | MD8 Airscan® System Package with Bayonet Sampling Head (Includes Command Unit, Bayonet Sampling Head, and Cable) | 9,475 |
| 16746SHTCOM | MD8 Airscan System Package with Tri-Clamp Sampling Head (Includes Command Unit, Tri-Clamp Sampling Head, and Cable) | 10,175 |
| 16746-01--SHB | MD8 Airscan® Bayonet Sampling Head | 5,140 |
| 16746-01--SHT | MD8 Airscan® Tri-Clamp Sampling Head | 5,140 |
| 16746-01--COM | MD-8 Airscan® Command Unit | 4,605 |



Accessories

| Item | Description of Upgrade | US List Price (\$) |
|--|---|--------------------|
| 17085 | Flexible PVC hose with reinforced ends (2 m) | 101 |
| 17088 | Flexible PVC hose with reinforced ends (5 m) | 170 |
| 17662 | Silicone tubing, sterilizable (1 m, state length required) | 105 |
| 17658 | Connector (air sampler inlet to flexible hose), aluminum | 112 |
| 17659 | Connector (flexible hose to filter holder adapter), aluminum | 108 |
| 17656 | Aluminum Stack for MD8 air samplers | 2,140 |
| 17660 | Middle part replacement | 162 |
| 17661 | End cap replacement | 69 |
| 17030 | Adapter (DN 30 hose barb to 1"-1 1/2" sanitary flange) to connect to isolator via flexible PVC hose and filter capsule, stainless steel | 141 |
| 17659---003 | Connector (flexible hose to filter holder adapter), tri clamp, stainless steel | 620 |
| 17801---001 | Adapter for gelatine filter disposables, stainless steel | 325 |
| 17801 | Adapter for gelatin membrane filter | 90 |
| 17659---003 | Adapter, Tri-Clamp (TC 50.5) to bayonet, stainless steel | 620 |
| 1ZAD-0025 | Adapter, bayonet to Tri-Clamp (TC 50.5), stainless steel | 380 |
| 16746-01--EXC | MD8 Airscan® Extension cable | 590 |
| Disposable Gelatine Units, Sterile, Pack of 10 | | |
| 17528--80----ACD | Individually packed in 1 polyethylene bag each | 112 |
| 17528--80----BZD | Individually packed in 3 polyethylene bags each | 123 |
| 17528--80----VPD | Individually packed in 3 polyethylene bags each, but label on innermost bag | 126 |
| Gelatine Disc Filter, Sterile, Sealed in Units of Five Each in a Polyethylene Bag | | |
| 12602--80----ALK | 80 mm dia. Package Size: 50 | 280 |
| 12602--50----ALK | 50 mm dia. Package Size: 50 | 265 |
| 12602--47----ALN | 47 mm dia. Package Size: 100 | 420 |
| 12602--47----ALK | 47 mm dia. Package Size: 50 | 265 |
| 12602--37----ALK | 37 mm dia. Package Size: 50 | 184 |



Gelatine Membrane Filters

MD-8 Airport

A Portable Solution for Microbial Air Monitoring of Controlled Environments

The battery operated, portable MD8 Airport is a convenient solution for microbial air monitoring. The MD8 Airport can be used with either gelatin membrane filters or BACTair culture plates. It provides accurate, reproducible and quantitative detection of airborne microorganisms and is capable of detecting even the smallest airborne contaminants, including viruses.



Features

- Battery powered and portable
- Compatible with agar-free gelatin membrane filters or culture media plates
- Built-in air flow compensation
- Battery power level indicator
- Ergonomic, easy to clean design
- Adjustable flow and sample volume settings
- User-friendly prompts
- Five language options: English, French, German, Italian and Spanish
- Automatic storage of most recent test parameters
- On-site calibration

Benefits

- Provides maximum flexibility in testing location selection
- High recovery rates
- Fast and simple set-up
- Consistent and reliable performance
- Ease of use

Applications

- Microbial air monitoring of controlled environments

Specifications & Pricing

| Model | Description | US List Price (\$) |
|-------|--|--------------------|
| 16757 | MD-8 Airport and battery charger (must order Gelatin Disposable or BACTair adapter separately) | 3,750 |

*Each version can be switched from 50 to 60 Hz and back.



Accessories

| Item | Description of Upgrade | US List Price (\$) |
|--|--|--------------------|
| 17803 | Adapter for BACTair™ plates | 124 |
| 17801 | Adapter for gelatine disposables | 90 |
| 17801---001 | Adapter for gelatine disposables, stainless steel | 325 |
| BACTair™ Culture Plates | | |
| 12PX-D0002 | Covers for BACTair™ Culture Media Plates, 10+ 2 units individually, sterile packaged | 20 |
| 14301-110-----K | BACTair™ Plates, sterile, without media, qty: 50 | 105 |
| 14320-110----ACD | Tryptic Soy Agar (TSA), 110 mm, single packed, qty: 10 | 65 |
| 14321-110----ACD | Sabouraud Agar, 110 mm , single packed, qty: 10 | 65 |
| Disposable Gelatine Units, Sterile, Pack of 10 | | |
| 17528--80----ACD | Individually packed in 1 polyethylene bag each | 112 |
| 17528--80----BZD | Individually packed in 3 polyethylene bags each | 123 |
| 17528--80----VPD | Individually packed in 3 polyethylene bags each, but label on innermost bag | 126 |
| Gelatine Disc Filter, Sterile, Sealed in Units of Five Each in a Polyethylene Bag | | |
| 12602--80----ALK | 80 mm dia. Package Size: 50 | 280 |
| 12602--50----ALK | 50 mm dia. Package Size: 50 | 265 |
| 12602--47----ALN | 47 mm dia. Package Size: 100 | 420 |
| 12602--47----ALK | 47 mm dia. Package Size: 50 | 265 |
| 12602--37----ALK | 37 mm dia. Package Size: 50 | 184 |



Gelatine Membrane Filters



BACTair™ Culture Plates

Sartorius | lab academy

The Sartorius Lab Academy is a training program presented by our product specialists to convey a new understanding of techniques and applications in the areas of weighing, moisture analysis, lab water, liquid handling and filtration. These courses teach how to enhance the operation of your equipment to maximize performance as well as improve the efficiency and productivity of laboratory workflows. Each academy comes with a select number of modules to choose from. Simply choose the most appropriate module(s) based on your requirements. We can host our Lab Academy courses at your own company or at our Sartorius Applications Center in Bohemia, NY. Certificates can also be provided after course completion.

weighing academy

The Sartorius Weighing Academy provides the core fundamentals of weighing, details the proper location for a balance, identifies common influencing factors that can affect weighing results and suggests the best operating practices for minimizing errors to promote accurate weighing. This academy also discusses the importance of calibration (verification) and the balance qualification process as well as how to comply with regulatory requirements where compliance with international regulations and quality standards (USP Chapter 41, ISO 17025, 21 CFR Part 11, etc.) is mandatory.

Module 1: Weighing Fundamentals (1 hour)

Module 2: Balance Calibration (30 minutes)

Module 3: Weighing in Regulated Environments (45 minutes)

moisture academy

Moisture analysis of materials using the thermogravimetric method can be tricky. Not only does the technology differ from the traditional oven drying method, but there are also differences in heating technologies and sample preparation. The Sartorius Moisture Academy discusses factors to show how differences in technology and sample preparation can affect the final results. Hands-on demonstrations to show proper sample preparation techniques are also reviewed.

Module 1: Thermogravimetric Moisture Analysis of Materials (1.5 hours)

water academy

The Sartorius Water Academy discusses the types of impurities in drinking water, the effect of impurities on water purification systems and measurements, the testing and removing of impurities and how to minimize the risk of recontamination and bacterial growth. This academy also focuses on the classification of water, the definition of water qualities and regulatory affairs and standards. It also identifies the ideal lab water solution for a given application as well as the best practices for efficiency, correct quality and quality consistency.

Module 1: Water Impurities (30 minutes)

Module 2: Water Quality (30 minutes)

Module 3: Lab Water Systems (30 minutes)

pipetting academy

The Sartorius Pipetting Academy gives you the background knowledge and practical insights to work efficiently and safely to receive the most accurate pipetting results. These modules discuss what your pipette is capable of, when to use specific pipetting techniques, how to instruct your co-workers on ergonomic pipetting postures and solutions, and calibrating your pipette correctly to work in accordance with international quality standards (ISO 8655).

Module 1: Basics of Pipetting and Ergonomics (1 hour)

Module 2: Advanced Laboratory Pipetting and Ergonomics (1 hour)

Module 3: Pipetting Techniques for Best Results (1 hour)

Module 4: Best Pipetting Practices for Cell Culture Application (1 hour)

Module 5: Pipette Calibration & Maintenance (1 hour)

filtration academy

Filtration basics are crucial for you to select the right filtration devices and membranes in order to sterilize reagents and to protect chromatography columns. The Sartorius Filtration Academy gives an overview of the most important filtration methods and devices. The practical and theoretical training parts enable you to ensure ergonomic handling and to achieve the fastest process speeds and the highest possible sample recoveries.

Module 1: Basic Filtration (30 minutes)

Module 2: Filtration Devices (30 minutes)

Module 3: Ultrafiltration Devices (30 minutes)

For more information or to schedule a lab academy, please contact your local sales representative.

Pipette Preventive Maintenance Programs

Available for all Sartorius Liquid Handling brand pipettes

All pipettes are precision instruments, with mechanical and/or electronic components that are naturally subject to wear and possibly even damage over time, for example:

- The piston surface can deteriorate, wear, or corrode over time from friction and/or chemical attack
- Tipcones are subject to chemical corrosion and wear, especially in the tip sealing area
- Batteries within electronic pipettes have a normal lifespan of 1-2 years and must be replaced periodically

Pipette failure rates can be significantly reduced with the application of a regular Preventative Maintenance Program. Enhance the reliability of your pipette and the integrity of your data!



Sartorius Liquid Handling recommends Preventive Maintenance programs be applied once a year.

Ordering Information

| Pipette Type | PM Program Includes: | US List Price (\$) |
|-----------------------|--|--------------------|
| 1-channel mechanical | Tip cone, piston, calibration | 82 |
| 8-channel mechanical | Tip cones, pistons, calibration | 150 |
| 12-channel mechanical | Tip cones, pistons, calibration | 172 |
| 1-channel electronic | Tip cone, piston, battery, calibration | 125 |
| 8-channel electronic | Tip cones, pistons, battery, calibration | 195 |
| 12-channel electronic | Tip cones, pistons, battery, calibration | 245 |

Sartorius Liquid Handling can provide Preventive Maintenance Programs to any Sartorius Liquid Handling pipette, including Proline Plus, Proline Electronic, ePET models, as well as non-biohit pipettes. Contact us for additional details.

Pricing subject to change without notice. May not be combined with any other special offers or promotions. Parts-only pricing without calibration can be quoted separately at a non-promotional level upon request.

Calibration Combined with Preventive Maintenance Package

Preventive Maintenance Packages are designed for Biohit-Sartorius pipettes only. A typical Preventive Maintenance Package includes the replacement of the unit's critical parts (piston(s), tip cone(s), and battery on electronic models) and your choice of three service levels.

- Cleaning of the exterior and interior surfaces
- Replacement of the critical parts (tip cone, piston, and battery for electronic units)
- "After Service" evaluation performed (additional "As Found" performance checks available)
- A wide range of calibration levels to meet your Lab's needs
- Visual linearity check performed on all multi-channel units
- All calibration equipment and certificates traceable through NIST

Certificates and Reports

Detailed ISO 17025/NIST compliant service reports and calibration certificates are included with every pipette evaluation and or repair.

Pipette Repairs

Pipette repairs are performed at our service center. We simplify the repair process by providing affordable prices, based on the model type.

Our depot repair service features:

- Genuine factory parts
- Repairs are performed by a factory-trained technician
- Instrument will pass the same quality control guidelines required when the unit was new
- One year guarantee on parts and labor

Contact:

Call: 1.800.635.2906

Email: pipette.service@sartorius.com

arium® Maintenance and Service Contracts

On-site Maintenance and Calibration

Maximized longevity of your water system can be realized by scheduling our factory trained field service engineers for preventive maintenance visits.



Feature

Take advantage of the range of offers from our laboratory service team:

- Needs analysis
- Installation and startup
- Technical support
- Equipment qualification (IQ, OQ) and validation
- Preventive maintenance service and service contracts
- Corrective maintenance and spare part service

Water Systems

The exchanging of consumable items, such as cartridges, filters, and UV bulbs are key elements in reducing unforeseen downtime.

Extended Warranty

| Description | Maintenance # | US List Price (\$) |
|-----------------------------------|---------------|--------------------|
| 12 months arium® advance RO | 84WAB14 | 1,380 |
| 12 months arium® advance EDI | 84WAB17 | 1,380 |
| 12 months arium® pro (basic) | 84WAB19 | 755 |
| 12 months arium® pro DI | 84WAB63 | 755 |
| 12 months arium® pro UF | 84WAB64 | 755 |
| 12 months arium® pro UV | 84WAB65 | 755 |
| 12 months arium® pro VF | 84WAB66 | 755 |
| 12 months arium® pro UV-TOC | 84WAB67 | 755 |
| 12 months arium® pro VF-TOC | 84WAB68 | 755 |
| 12 months arium® comfort I | 84WAB80 | 1,575 |
| 12 months arium® comfort II | 84WAB81 | 1,575 |
| 12 months arium® mini H2O-MM-T | 84WAB97 | 560 |
| 12 months arium® mini H2O-MM-UV-T | 84WAB98 | 560 |
| 12 months arium® mini H2O-MA-T | 84WAB85 | 705 |
| 12 months arium® mini H2O-MA-UV-T | 84WAB96 | 705 |

Installation & Setup

| Model | Maintenance # | US List Price (\$) |
|----------------------------------|---------------|--------------------|
| PRO (basic) | 84ICB19 | 1,060 |
| PRO-DI | 84ICB63 | 1,060 |
| PRO-UF | 84ICB64 | 1,060 |
| PRO-UV | 84ICB65 | 1,060 |
| PRO-VF | 84ICB66 | 1,060 |
| PRO-UV-TOC | 84ICB67 | 1,060 |
| PRO-VF-TOC | 84ICB68 | 1,060 |
| 61316RO | 84ICB14 | 1,165 |
| 61215 EDI | 84ICB17 | 1,165 |
| Advanced RO-1 | 84ICB82 | 1,405 |
| Advanced RO-3 | 84ICB83 | 1,405 |
| Comfort I RO-2 + UV + TOC | 84ICB80 | 1,405 |
| Comfort II RO-2 + UV + TOC | 84ICB81 | 1,405 |
| Advance EDI RO-1 + EDI | 84ICB84 | 1,405 |
| Comfort I RO-1 | 84ICB86 | 1,405 |
| Comfort I RO-1 + UV | 84ICB87 | 1,405 |
| Comfort I RO-1 + UV + TOC | 84ICB88 | 1,405 |
| Comfort I RO-2 | 84ICB89 | 1,405 |
| Comfort I RO-2 + UV | 84ICB90 | 1,405 |
| Comfort II RO-2 + EDI | 84ICB91 | 1,405 |
| Comfort II RO-2 + EDI + UV | 84ICB92 | 1,405 |
| Comfort II RO-1 + EDI | 84ICB93 | 1,405 |
| Comfort II RO-1 + EDI + UV | 84ICB94 | 1,405 |
| Comfort II RO-1 + EDI + UV + TOC | 84ICB95 | 1,405 |
| arium® mini H2O-MM-T-US | 84ICB97 | 645 |
| arium® mini H2O-MM-UV-T-US | 84ICB98 | 645 |
| arium® mini H2O-MA-T-US | 84ICB85 | 750 |
| arium® mini H2O-MA-UV-T-US | 84ICB96 | 750 |

Contact:

Call: 1.800.635.2906

Email: LPS.service.NA@sartorius.com

Advanced Preventive Maintenance Packages

Preventive Service and Consumable packages are bundled into a single price. Factory-trained field engineers ensure each system is maintained to deliver optimal performance. The engineer will exchange the consumables that were included with the package.

| Model | Maintenance No. | Pre-Treatment Cartridge | Comfort Pre-Treatment Cartridge | RO Module Cleaning Set | Replacement Bag | RO-Modules | RO-Module | EDI RO-Modules | EDI RO-Module | Softener Cartridge | 612 Softener Cartridge | Elemental Kit | Biological Kit | Analytical Kit | Comfort Kit | Final Filter | UV Lamp | Ultrafilter | Biocleaner Syringe | TOC Module |
|----------------------------------|-----------------|-------------------------|---------------------------------|------------------------|-------------------------|---------------|-----------|----------------|---------------|--------------------|------------------------|---------------|----------------|----------------|-------------|---------------|---------|-------------|--------------------|------------|
| 61316 RO System | 84MAB14 | ✓ | ✓ | | ✓ | | | | | | | | | | ✓ | | | | ✓ | |
| 61215 EDI System | 84MAB17 | ✓ | ✓ | | ✓ | | | | | ✓ | | | | | ✓ | | | | ✓ | |
| Advance RO-1 | 84MAB82 | ✓ | ✓ | ✓ | | ✓ | | | | | | | | | ✓ | | | | | |
| Advance RO-2 | 84MAB14 | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | | | | | |
| Advance RO-3 | 84MAB83 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | ✓ | | | | | |
| Advance EDI RO-1 + EDI | 84MAB84 | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | | | | ✓ | | | | | |
| Advance EDI RO-2 + EDI | 84MAB17 | ✓ | ✓ | ✓ | | | ✓ | | ✓ | | | | | | ✓ | | | | | |
| 611DI | 84MAB10 | | | | | | | | | | ✓ | | | | ✓ | | | | ✓ | |
| 611UF | 84MAB11 | | | | | | | | | | | ✓ | | | ✓ | | ✓ | ✓ | | |
| 611UV | 84MAB12 | | | | | | | | | | | | ✓ | | ✓ | ✓ | | ✓ | | |
| 611VF | 84MAB13 | | | | | | | | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | | |
| pro (Basic) | 84MAB19 | | | | | | | | | | ✓ | | | | ✓ | | | | | |
| pro DI | 84MAB63 | | | | | | | | | | ✓ | | | | ✓ | | | | ✓ | |
| pro UF | 84MAB64 | | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | |
| pro UV | 84MAB65 | | | | | | | | | | | ✓ | | | ✓ | ✓ | | ✓ | | |
| pro VF | 84MAB66 | | | | | | | | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | | |
| pro UV-TOC | 84MAB67 | | | | | | | | | | | ✓ | | | ✓ | ✓ | | ✓ | ✓ | ✓ |
| pro VF-TOC | 84MAB68 | | | | | | | | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| comfort I RO-1 | 84MAB86 | ✓ | ✓ | ✓ | | ✓ | | | | | | | | ✓ | ✓ | | | | | |
| comfort I RO-1 + UV | 84MAB87 | ✓ | ✓ | ✓ | | ✓ | | | | | | | | ✓ | ✓ | ✓ | | | | |
| comfort I RO-1 + UV + TOC | 84MAB88 | ✓ | ✓ | ✓ | | ✓ | | | | | | | | ✓ | ✓ | ✓ | | | | ✓ |
| comfort I RO-2 | 84MAB89 | ✓ | ✓ | ✓ | ✓ | | | | | | | | | ✓ | ✓ | | | | | |
| comfort I RO-2 + UV | 84MAB90 | ✓ | ✓ | ✓ | ✓ | | | | | | | | | ✓ | ✓ | ✓ | | | | |
| comfort I RO-2 + UV + TOC | 84MAB80 | ✓ | ✓ | ✓ | ✓ | | | | | | | | | ✓ | ✓ | ✓ | | | | ✓ |
| comfort II RO-1 + EDI | 84MAB93 | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | | | | ✓ | ✓ | | | | | |
| comfort II RO-1 + EDI + UV | 84MAB94 | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | | | | |
| comfort II RO-1 + EDI + UV + TOC | 84MAB95 | ✓ | ✓ | ✓ | | | | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | | | | ✓ |
| comfort II RO-2 + EDI | 84MAB91 | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | | | | ✓ | ✓ | ✓ | | | | |
| comfort II RO-2 + EDI + UV | 84MAB92 | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | | | | ✓ | ✓ | ✓ | | | | |
| comfort II RO-2 + EDI + UV + TOC | 84MAB81 | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | | | | ✓ | ✓ | ✓ | | | | ✓ |
| | | H2O-CPAD-1 | H2O-CPFCO-1 | H2O-CCS | H2O-CBS-20 / H2O-CBS-50 | 613CPM4-----V | 613CPM4 | H2O-CRO-H-2 | H2O-CRO-H-1 | H2O-CSO-1 | 612CPS1 | H2O-E-Pack | H2O-B-Pack | H2O-A-Pack | H2O-C-Pack | 5441307H4--CE | 611CEL1 | 611CDU5 | | 84MAB69 |

Note: ✓ Identifies that the final filter is only to be added when the tank is included

Lab Balance Installations, Maintenance, and Service Contracts

On-site Maintenance and Calibration

Our nationwide field service network makes it convenient and easy for installation and maintenance of all balances and moisture analyzers. Whether you need basic service, general installation, calibration, specific certificates or reports, count on our factory-trained engineers to give the best service experience in the industry.

Installation Service Includes:

- Installation of equipment; tested for reproducibility corner load error, and linearity
- Certificate of calibration
- Basic user training

| Installation Service | | Item | US List Price (\$) |
|----------------------|---|---------|--------------------|
| Lab Balances | Electronic Precision Balance | 84ICL01 | 275 |
| | Electronic Analytical Balance | 84ICL02 | 275 |
| | Electronic Semi-Micro Balance | 84ICL03 | 285 |
| | Electronic Micro Balance | 84ICL04 | 570 |
| Moisture Analysis | Moisture Analyzer (MA units) | 84ICL10 | 575 |
| | Moisture Analyzer (MK 3 units) | 84ICL11 | 690 |
| | Microwave dryer (LMA200) | 84ICL13 | 690 |
| Certificates | ISO 17025 Measurement Uncertainty Certificate | 84CENC | 131 |
| | USP Chapter 41 Certificate | 84CGNA | 99 |

| IQOQ | | Item | US List Price (\$) |
|-------------------|---|---------|--------------------|
| Lab Balances | Electronic Precision Balance | 84QAL01 | 1,160 |
| | Electronic Analytical Balance | 84QAL02 | 1,160 |
| | Electronic Semi-Micro Balance | 84QAL03 | 1,245 |
| | Electronic Micro Balance | 84QAL04 | 1,330 |
| Moisture Analysis | Infrared Moisture Analyzer | 84QAL10 | 1,160 |
| | Moisture Analyzer with Microwave resonance technology | 84QAL11 | 1,160 |

Regular maintenance ensures continued proper functioning of your equipment and reliability of your measurement results while helping to prevent unscheduled downtime. Whether performed at fixed intervals in the scope of a service contract or as needed, our maintenance service gives you the reliability you need in your equipment.

| Preventive Maintenance Contract Includes | Standard Contract | Basic Maintenance |
|---|-------------------|-------------------|
| Service technician visit at scheduled intervals | ✓ | ✓ |
| Check workplace-specific functioning of the equipment | ✓ | ✓ |
| Check metrological specifications | ✓ | ✓ |
| Inspect equipment, including mechanical and electrical sub-assemblies | ✓ | ✓ |
| Test device configuration settings | ✓ | ✓ |
| Cleaning, in accordance with equipment use | ✓ | ✓ |
| Adjust equipment as needed | ✓ | ✓ |
| Repair labor discount | ✓ | |
| Spare parts discount | ✓ | |
| Certificate of Calibration | ○ | ○ |
| ISO 17025 Measurement Uncertainty Certificate | ○ | ○ |
| USP Chapter 41 Certificate | ○ | ○ |
| Temperature record for moisture analyzers | ✓ | |

✓ = included ○ = optional

Contact:

Call: 1.800.635.2906

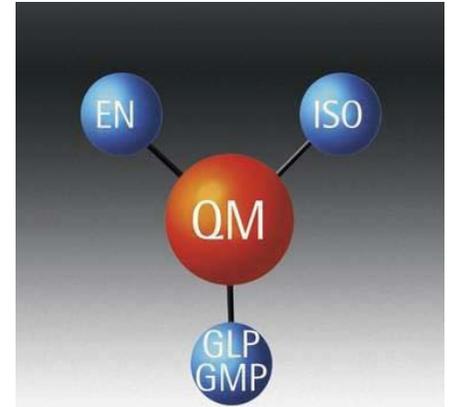
Email: LPS.service.NA@sartorius.com

Calibration, Measurement Uncertainty and USP Chapter 41 Certificates

Sartorius has been accredited by ANAB to issue ISO/IEC 17025 calibration certificates for non-automatic electronic weighing instruments, which is internationally recognized and gives you and your auditors absolute certainty in assessing your results of measurement.

Your advantages:

- Traceability to a national standard and the international prototype kilogram
- Precise indication of the uncertainty of measurement
- Reliability for your monitoring of inspection, measuring, and test equipment
- International validity



USP Chapter 41 – Determination of the Operating Range of a Balance

Our experienced service technicians test your balance to determine the operating range in accordance with USP guidelines and prepare a quantity certificate as described in the USP. A label is then affixed to the weighing instrument indicating the smallest permissible sample quantity in accordance with USP.

- Testing of your weighing instrument in accordance with the latest USP guidelines
- Determination of the operating range as described in USP guidelines
- Affixing the label on your weighing instrument

Original Spare Parts Service

Constant availability of more than 4000 different original spare parts and consumables in our central warehouse guarantees fast repairs. Because spare parts are always required in a hurry, over 95% of all spare parts leave the warehouse within 24 hours of ordering. We would be happy to help you determine which parts you need.

Our services include:

- Constant availability of all the main spare parts
- Spare parts for all current product models up to at least 5 years past the last date of production
- Order by telephone or in our Web-based e-shop
- Availability and net price indicated when you order
- Short delivery times from our central warehouse



Instrument Repair

Instrument repairs are performed at our service center. We simplify the repair process by providing affordable flat rate prices, based on the model type.

Our depot repair service features:

- Genuine factory parts
- Repairs are performed by a factory-trained technician
- Instrument will pass the same quality control guidelines required when the unit was new
- 90-Day guarantee on parts and labor
- Turnaround is less than 10 business days for most models

Need a repair quote? Give us a call. 1.800.635.2906



After Service Installation Option

We now offer, in local zones only, installation services for repairs performed in the New York Service Center. Customers can opt to have a Sartorius Service Engineer deliver and install their balance after repair. This service is provided where we have local representation.



Extended Warranties | 2020

| Model | Description | US List Price (\$) |
|---------|--|--------------------|
| 84WAL01 | 12 months electronic precision balance | 320 |
| 84WAL02 | 12 months electronic analytical balance | 320 |
| 84WAL03 | 12 months electronic semi-micro balance | 320 |
| 84WAL04 | 12 months electronic micro balance | 655 |
| 84WAL10 | 12 months IR moisture analyzer | 655 |
| 84WAL13 | 12 months μ w dryer | 2,020 |
| 84WAB14 | 12 months arium advance RO | 1,380 |
| 84WAB17 | 12 months arium advance EDI | 1,380 |
| 84WAB19 | 12 months arium [®] pro (basic) | 755 |
| 84WAB63 | 12 months arium [®] pro DI | 755 |
| 84WAB64 | 12 months arium [®] pro UF | 755 |
| 84WAB65 | 12 months arium [®] pro UV | 755 |
| 84WAB66 | 12 months arium [®] pro VF | 755 |
| 84WAB67 | 12 months arium [®] pro UV-TOC | 755 |
| 84WAB68 | 12 months arium [®] pro VF-TOC | 755 |
| 84WAB80 | 12 months arium [®] comfort I | 1,575 |
| 84WAB81 | 12 months arium [®] comfort II | 1,575 |
| 84WAP01 | 12 months mechanical single channel pipette | 118 |
| 84WAP02 | 12 months mechanical 8 channel pipette | 215 |
| 84WAP03 | 12 months mechanical 8 channel pipette $\leq 10\mu$ l | 215 |
| 84WAP04 | 12 months electronic single channel pipette | 179 |
| 84WAP05 | 12 months electronic 8 channel pipette | 270 |
| 84WAP06 | 12 months electronic 8 channel pipette $\leq 10\mu$ l | 270 |
| 84WAP09 | 12 months Dispenser | 245 |
| 84WAP10 | 12 months mechanical 12 channel pipette | 245 |
| 84WAP11 | 12 months mechanical 12 channel pipette $\leq 10\mu$ l | 245 |
| 84WAP12 | 12 months electronic 12 channel pipette | 320 |
| 84WAP13 | 12 months electronic 12 channel pipette $\leq 10\mu$ l | 320 |

For more information on warranty policies, please contact Sartorius, or reference the "Certificate of Warranty" document.

Sartorius Corporation

565 Johnson Ave.
 Bohemia, NY 11716
 Phone | 800.635.2906
 Fax | 631.254.4252
www.sartorius.com

Warranty Information

| Item Description | Duration |
|--|----------|
| Laboratory Balances (Cubis® II, Cubis®, Secura®, Quintix®, Practum®, Entris®, Mass Comparators, Speedcal Mobile, etc.) | 2 years |
| Paint Mixing Scales & Terminals | 2 years |
| Cubis® Dosing System | 1 year |
| Balance Accessories | 1 year |
| Infrared Moisture Analyzers | 2 years |
| Microwave Moisture Analyzers | 1 year |
| Safety Powder Hoods | 1 year |
| Pipettes | 2 years |
| pH Meters | 2 years |
| pH Electrodes | 1 year |
| Laboratory Water Systems | 2 years |
| Water System Accessories | 1 year |
| Centrifuges & Accessories | 1 year |
| MD8 Air Samplers | 2 years |
| MD8 Air Sampler Accessories | 1 year |
| e.motion Membrane Dispenser | 2 years |
| Microsart Vacuum, e.Jet, & Pumps | 2 years |
| Pump Accessories | 1 year |
| Combisart® & Combi.jet Manifolds | 1 year |
| Combisart® Accessories | 1 year |
| Sterisart® Universal Pumps | 2 years |
| Sterisart® Pump Accessories | 1 year |

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All prices and specifications listed herein are subject to change without notice. List prices effective January 1, 2019 through December 31, 2020.
Version0120