# 2025
# PRODUCT GUIDE

| Liquid Handling
| Purification
| Extraction
| Services

GILSON®

# TABLE OF CONTENTS

### Gilson's Interactive Guide

This version of Gilson's product guide includes interactive links to documents, articles, and other resources that allow you to learn more about our technology and solutions. On each relevant product page, simply click on the icons to access relevant documentation or resources. Visit gilson.com to access any of the relevant links throughout this guide.

# ABOUT US

## SUPPORTING SCIENTISTS FOR THREE GENERATIONS

Gilson is a family-owned global manufacturer of sample management and purification solutions for the life sciences industry. We help researchers advance the pace of discovery by creating easy-to-use lab devices that improve reproducibility and traceability. Since 1957, we've been developing innovative products, such as the first continuously adjustable-volume pipette, PIPETMAN®. By partnering closely with the scientific community, we have advanced our portfolio offerings, adding automated pipetting systems and sample separation instruments, plus intuitive software management capabilities. Backed by worldwide R&D, service, and support, Gilson strives to enable verifiable science and to make lab life easier for our customers.

## ENABLING VERIFIABLE SCIENCE

Today, one of the biggest challenges facing scientists centers on verifiable data. Scientists need to trust that published conclusions are accurate and will stand the test of time. Trusted sample preparation is at the core of data accuracy and reliability. That's why we create instruments and services that help reduce errors and improve scientific results

We have been manufacturing reliable instruments for decades, like the legendary PIPETMAN®. When researchers use trusted, built-to-last tools, scientific experiments become more reproducible, the speed to discovery is faster, costs are reduced, and confidence grows.

**Our Vision**
Enabling verifiable science and making lab life easier for researchers.

**Our Mission**
To partner with the scientific community and help researchers advance the pace of discovery by creating instruments and services that improve their results.

## AUTOMATION: A GRADUAL TRANSITION

Automation does not have to be a drastic change; instead, it can be a gradual transition from manual to hybrid processes, eventually leading to full automation. We can assist you in shifting your manual tasks to automated ones while guiding you through the necessary changes to enhance your lab's productivity, traceability, and reproducibility. By following a comprehensive approach, we help labs transition to automation smoothly and efficiently, ultimately enhancing overall performance and scientific results.

**Automate Your Lab Your Way**

## CORPORATE RESPONSIBILITY

Gilson has been around for 75 years and counting, and sustainability is in our genes. Our involvement in protecting the environment extends to our financial resources, operations, employees, suppliers, customers, and the communities we live and work in daily.

From carefully designing our products to be greener, to protecting our environment through small changes in our daily work, you can be sure that sustainability is at the core of what we do. Our plastic manufacturing center has been awarded the EcoVadis Bronze Medal for Excellence in Environmental Responsibility, Social Laws, Business Ethics, and Supply Chain Management. We also maintain a number of initiatives that help us to give back to the amazing scientists in the field and support access to science for all.In addition to our initiatives at Gilson Plastics, our Gilson manual liquid handling site in Villiers-le-bel, France, received the "Committed Company" badge from EcoVadis for its sustainability practices.

Learn More

**BRONZE | Top 35%**
**ecovadis**
Sustainability Rating
**AUG 2024**

## A GLOBAL PRESENCE

We have an integrated network all over the world, along with a team of distributors to support you.

○ Product Organization (PO)
● Market Organization (MO)
● Gilson Distributor

# EXPERTISE FOR YOUR APPLICATIONS

For decades, we've been helping researchers advance their discoveries with easy-to-use, application-based lab tools that improve reproducibility and traceability. Click below to search our diverse application library, using techniques such as liquid handling, sample extraction, and purification.

## Molecular Biology

Molecular Biology is the study of how molecules interact with one another in living organisms to perform the functions of life. Mostly focusing on genes and proteins, molecular biologists use techniques like the polymerase chain reaction (PCR) to amplify DNA for various applications such as cloning, gene expression analysis (RT-PCR, RT-qPCR), Next Generation Sequencing (NGS), and more.

**Learn More**

## Proteomics

Proteomics is the study of proteins in living systems. They carry out a variety of functions such as generating an immune response to foreign bodies, catalysis of biochemical reactions, movement, structural support, and cell signaling to name a few. Our range of instruments help aid in the purification and characterization of proteins from simple low-pressure systems to mass-directed purification.

**Learn More**

## Environment & Food Safety

As we find new ways to grow food, clean our water supply, and identify new pathogens, it is increasingly important to make sure your application is accurate and optimized to ensure quality, nutritious food and a safe environment for us to live in. From analyzing pesticides on crops to identifying perfluorinated compounds (PFCs) in water, your food safety and environmental applications can benefit from our range of extraction and liquid handling solutions.

**Learn More**

## Drug Discovery

Drug discovery is the process of identifying and developing new therapeutic compounds to treat diseases. These compounds can be chemically synthesized or derived from natural sources, such as plant extracts. The process typically involves compound purification and automation, particularly during lead discovery—where libraries of molecules are screened—and lead optimization, where lead compounds are refined to enhance efficacy and safety.

**Learn More**

## FEATURED APPLICATIONS CONTENT
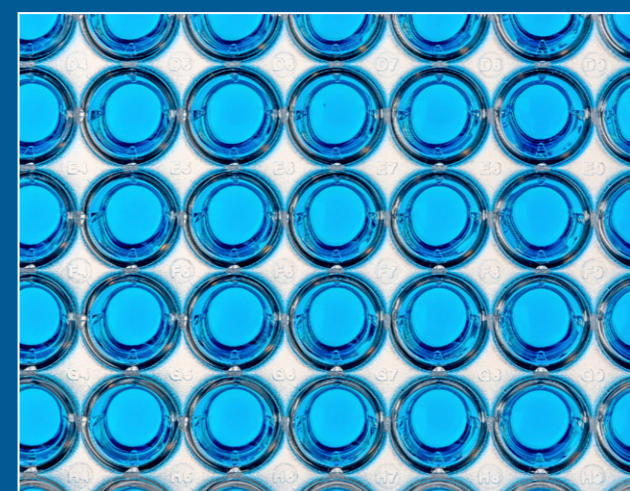
### Three Approaches to qPCR Reaction Setup

Quantitative PCR (qPCR) is essential for gene expression analysis and pathogen identification in life science labs. While qPCR is sensitive, its plate preparation is time-consuming and requires skilled technicians. Automation enhances efficiency and reproducibility. This study compared manual pipettes, the semi-automated TRACKMAN® Connected, and the fully automated PIPETMAX® 268 liquid handler. All tools provided precise results with varying degrees of automation. Choose manual, semi-automated, or fully automated solutions to optimize processes, improve traceability, reduce errors, and free up time for critical tasks.

**Learn More**

### Streamlined Purification of Assay-Ready Oligonucleotides by Automated HPLC

Custom manufactured oligonucleotides require additional purification steps after synthesis to separate the full-length products from contaminants. The GX-271 Oligo Purification System can be used to isolate, analyze, and desalt reagent-grade oligonucleotides in one continuous run. Learn how in this application note.

**Learn More**

# SERVICE EXPERTS READY TO HELP

## WE'RE HERE TO HELP

We are committed to the highest caliber of quality and complete customer satisfaction with our suite of products and services. This commitment doesn't end with your purchase—it only just begins. We provide custom solutions to help you meet a wide range of laboratory requirements including: service, preventative maintenance, calibration, and general product support. Gilson has dedicated service, support, and training teams worldwide to help you maintain maximum performance of your instruments, make your lab life easier, and ensure reliability of your data.

## AUTOMATED LIQUID HANDLING

### Avoid Unexpected System Downtime and Assure Accuracy

Keep your instruments running like new by signing up for preventative maintenance services. With regularly scheduled preventative maintenance, you'll extend the life of your instruments and save time and money by avoiding unexpected interruptions to your work. Additionally, you can have confidence in the accuracy and reliability of your results because we'll ensure your instruments are operating within original specifications.
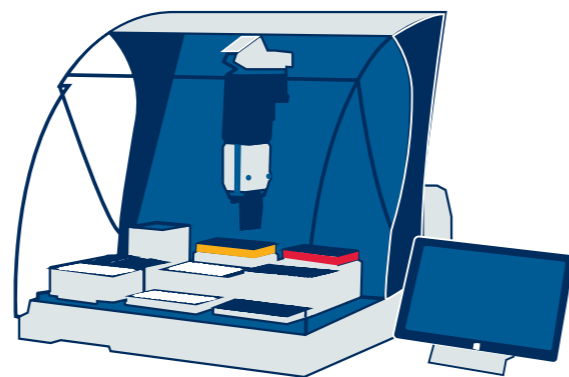
## MANUAL LIQUID HANDLING

### Have our Expert Technicians Restore your Pipettes

Gilson is the expert on pipettes with over 50 years of experience in the industry. Regular maintenance of your pipettes ensures they operate within specification and deliver reproducible data with the accuracy you need. Regular service also helps minimize downtime in your lab, reduces the likelihood of unplanned, costly repairs, and increases the lifespan of your pipettes. Gilson service technicians are factory trained and use manufacturer parts along with proprietary software, such as Gilson Volumetrics™. Gilson Volumetrics utilizes automatic data transfer from our analytical balances and environmental probes to generate your service documentation with the utmost attention to detail and accuracy of data. Gilson is an ISO 9001-certified company and ISO 17025-accredited service is available throughout the organization.
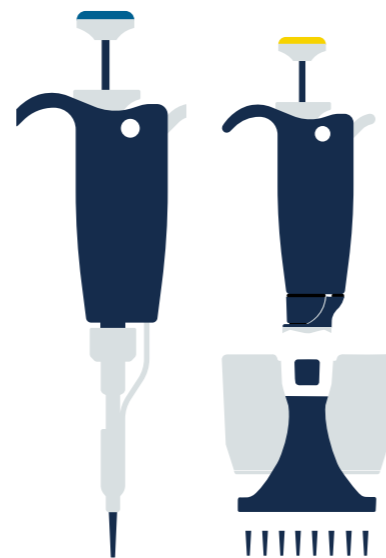
# SERVICES & SUPPORT

## QUALITY PIPETTE SERVICE MADE EASY

Never question the integrity of your samples. Our flexible, tiered service level offerings, along with the option for ISO 17025 accredited service, are tailored to fit your lab's needs. By regularly servicing your pipettes, you can minimize unplanned, costly repairs while increasing the lifespan of your pipettes.

### Quality Pipette Service Made Easy

Never question the integrity of your samples. Our flexible, tiered service level offerings, along with the option for ISO 17025 accredited service, are tailored to fit your lab's needs. By regularly servicing your pipettes, you can minimize unplanned, costly repairs while increasing the lifespan of your pipettes.

| WHAT'S INCLUDED | LITE | PRO | PREMIUM |
|---|---|---|---|
| Visual & Functional Inspection | ● | ● | ● |
| Internal & External Cleaning | ● | ● | ● |
| Leak Test | ● | ● | ● |
| Gravimetric Check | ● | ● | ● |
| Preventative Maintenance | ● | ● | ● |
| Re-grease As Needed | ● | ● | ● |
| Pipette Label | ● | ● | ● |
| Mail-In or Onsite Service Available | ● | ● | ● |
| Calibration and Detailed Certificate | | ● | ● |
| ISO 17025 Calibration Available | | ● | ● |
| Lifetime Warranty | | | ● |
| Free Repairs | | | ● |

Center of EXCELLENCE
GILSON AUTHORIZED SERVICE
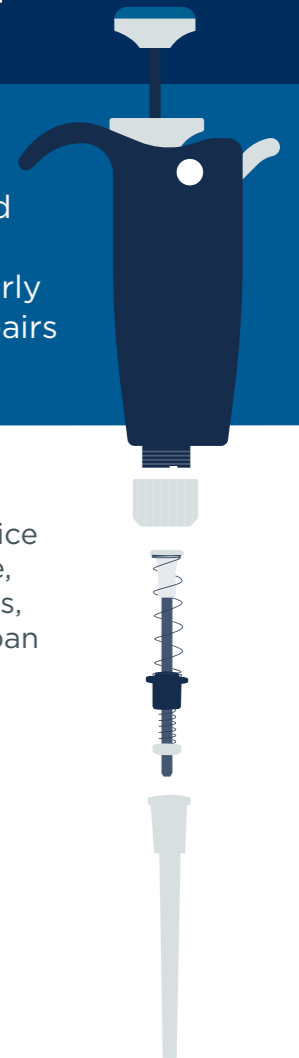
### Ensure Accuracy and Reliability for your Instruments & Systems

Keep your instruments running like new by signing up for preventative maintenance services with our team of expert technicians. With regularly scheduled preventative maintenance, you'll extend the life of your systems and save time and money by avoiding unexpected interruptions to your work. Additionally, you can have confidence in the accuracy and reliability of your results because we'll ensure your instruments are operating within original specifications.

### ISO 17025 Accredited Service Available

Gilson's ISO 17025 accredited calibration labs can offer additional reporting on your calibration certificates for maximum traceability, perfect for GLP/GMP compliant labs. We can provide ISO 17025 compliant service both in our dedicated Service Centers as well as on-site in your lab. You can be sure your pipettes maintain their original accuracy, precision, and performance capabilities.

**Learn more**

These pipette service offerings are only available in select locations. Visit www.gilson.com to learn more about our service and support options for your pipettes, instruments, and lab systems.

# OEM CAPABILITIES

## ORIGINAL EQUIPMENT MANUFACTURER PRODUCTS

Bring your ideas to market faster and with lower development and manufacturing costs by becoming an Original Equipment Manufacturer (OEM) partner with Gilson. We provide reliable and precise liquid handling components or complete systems that can be easily integrated into your core instrument, with support from a worldwide network you can depend on. Our philosophy is simple: build and support relationships that are as strong and reliable as our products.

### Get to Market Faster with Our OEM Solutions

As a partner with Gilson, you will work closely with our research and development scientists and engineers and draw on their technical expertise to solve problems and develop your product. From proposal development to finished product and beyond, our team of experts is here to help you every step of the way.

### Customization Capabilities

Draw on our proven experience and strong engineering and manufacturing capabilities to help develop your custom product. We offer expertise and assistance throughout the entire process—from development and integration of the product, to support and on-going training.

Visit www.gilson.com to learn more about our OEM capabilities.

**Bring Us Your Idea**

**Partner with Gilson**

**Fast Product Development**

**On-Time Delivery**

### Highly Customizable Automated Liquid Handling Systems to Fit your Exact Needs

Gilson can provide standard liquid handling instruments to highly customized instrumentation across a wide variety of applications. Customization can be applied to simple, small components or to complete liquid handlers tailored to your unique specifications. Gilson has the liquid handling solutions to meet your requirements. Whether you want to aspirate, collect, dispense, inject, mix, or pump liquids, we can provide reliable, quality OEM products to fit your application.

Learn more

### Increase your Brand Awareness with Value Added Manual Liquid Handling Products

Gilson offers the ability to help increase your brand awareness with value added products. As an industry leader in manual pipetting, we can provide customized tools that deliver the precise control needed for accurate sample and reagent volume transfers. We offer a variety of pipettes in a range of ergonomic designs and volume sizes, as well as pipette controllers, tips, and accessories that enhance the pipetting experience and provide reproducible results. Our OEM/PL pipette is a genuine Gilson product providing the "Best Value" combination of quality, features, service, and price. Additionally, our Account Managers can help you align your company vision with product offerings that can be customized to increase your recognition in the market.

Learn more

### Automate Your Kits Through a Value Added Partnership (VAP)

The Value Added Partnership (VAP) is a shared cooperation in which Gilson maintains ownership of installation and support at your customers' sites. Our VAP option is ideal for reagent manufacturers who wish to offer a complete, automated assay method to their customers without investing in sales or hardware support. In a VAP, you will work with our technical team to automate your method and validate your protocol on a specified Gilson liquid handling system. This shared cooperation allows you to benefit from our technical expertise and global coverage while increasing your kit and consumable revenue.

Learn more

## KEY BENEFITS

- Custom Products
- Software Control Options
- Fully Tested and Validated Product
- Custom Branding
- Outstanding Service and Support

- Modular Design for Easy Integration
- ISO 9001 Certified
- Regulatory Compliance
- Custom Packaging and Literature

# LIQUID HANDLING

## TRUSTED RESULTS BEGIN WITH TRUSTED LIQUID HANDLING TOOLS

Gilson liquid handling tools deliver the precise control you need for sample and reagent volume transfers, ensuring reproducible results while making life in the lab easier. Beginning with the legendary PIPETMAN® technology, our liquid handling tools have evolved with your needs. Ergonomically designed with scientists like you in mind, we offer durable solutions from manual, single channel units to completely automated liquid handling systems.

### SELECTION GUIDE

| | Description | | Benefits | Throughput | Comfort |
|---|---|---|---|---|---|
| Positive-displacement | MICROMAN® E | | • Reliable Results Even with Non-Aqueous Liquids<br>• Overall Protection<br>• Designed with Comfort in Mind | L—M—H | ✓✓✓ |
| Single Channel, Air-displacement | PIPETMAN® M<br>PIPETMAN® M Connected | | • Ease-of-Use<br>• On-Target Performance<br>• PIPETMAN® M Connected Makes Manual Processes Verifiable | L—M—H<br>Medium to High | ✓✓✓✓✓ |
| | MyPIPETMAN® | | • Technical and Functional Choices<br>• Ergonomic Design<br>• Personalizable<br>• Fully Autoclavable | L—M—H<br>Medium to High | ✓✓✓✓ |
| | PIPETMAN® L | | • Performance and Comfort<br>• Secure Pipetting<br>• Fully Autoclavable | L—M—H<br>Medium to High | ✓✓✓✓ |
| | PIPETMAN® | | • Reliable Results<br>• Built-to-Last<br>• Easy Pipetting and Handling | L—M—H<br>Low to Medium | ✓✓✓ |
| Multichannel, Air-displacement | PIPETMAN® M<br>PIPETMAN® M Connected | | • Ease-of-Use<br>• On-Target Performance<br>• PIPETMAN® M Connected Makes Manual Processes Verifiable | L—M—H<br>Medium to High | ✓✓✓✓✓ |
| | MyPIPETMAN® | | • Technical and Functional Choices<br>• Ergonomic Design<br>• Personalizable<br>• Fully Autoclavable | L—M—H<br>Medium to High | ✓✓✓✓ |
| | PIPETMAN® L | | • Performance and Comfort<br>• Secure Pipetting<br>• Fully Autoclavable<br>• Models Equipped with V-rings Fit Most Tip Brands | L—M—H<br>Medium to High | ✓✓✓✓ |
| | PIPETMAN® | | • Reliable Results<br>• Built-to-Last<br>• Easy pipetting and handling | L—M—H<br>Low to Medium | ✓✓ |
| Manual 96-channel | PLATEMASTER® | | • Save Time and Increase Your Productivity<br>• Simplifies Sample Prep<br>• Convenient for any Microplate Application | L—M—H<br>High | ✓✓✓✓ |
| Semi-auto | PIPETMAN® M96 | | • Increase Productivity of Your Workflows<br>• Smart and Intuitive Interface on a Large Touchscreen<br>• Optimized Accessories for a Well Organized Working Space | L—M—H<br>High | ✓✓✓✓✓ |
| | VERITY® Diluter Dispenser | | • Accuracy and precision of a syringe pump<br>• Simple to program<br>• Save multiple routines<br>• First step to automation | L—M—H<br>Medium to High | ✓✓✓✓ |

## PIPETTE FAMILIES

### What are Manual Air-Displacement Pipettes?

Air-displacement pipettes are very accurate for standard pipetting applications. The piston, integrated in the lower part of the pipette, moves the liquid under the action of an air cushion (called dead volume) between the pipette and the liquid sample. It is recommended to use an air-displacement pipette with aqueous and non-viscous samples. Temperature and atmospheric pressure, as well as the specific weight and viscosity of the solution, can affect the performance of air-displacement pipettes.

### What are Electronic Air-Displacement Pipettes?

Electronic pipettes work like manual air-displacement pipettes under the action of an air cushion. The manual movement of the piston is carried out by an electronic motor, requiring virtually zero pipetting forces. They decrease the risk of RSI-type injuries caused by repetitive pipetting and improve comfort as well as reproducibility at the bench.

Air cushion
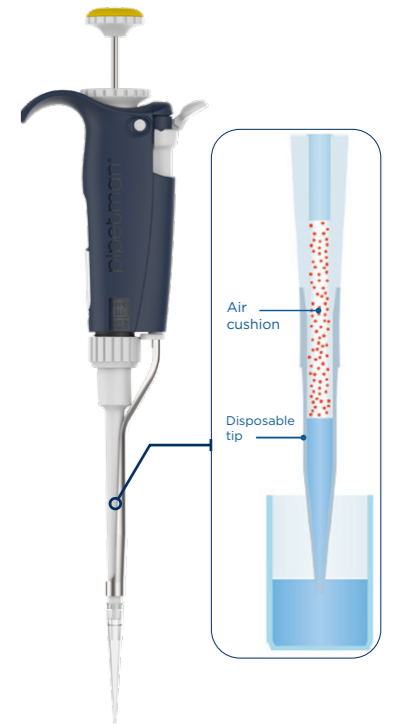
Disposable tip

### What are Positive-Displacement Pipettes?

Positive-displacement technology is ideal when working with infectious, viscous, foaming, hot, cold, or volatile liquids because the disposable piston within the capillary piston (CP) tip is in direct contact with the sample. The CP technology thus removes any air cushion inside the pipette and ensures the volume accuracy is not affected by the fluid's properties. This also helps prevent contamination and protects both the user and the pipette.

Disposable capillary
Disposable piston
Piston seal
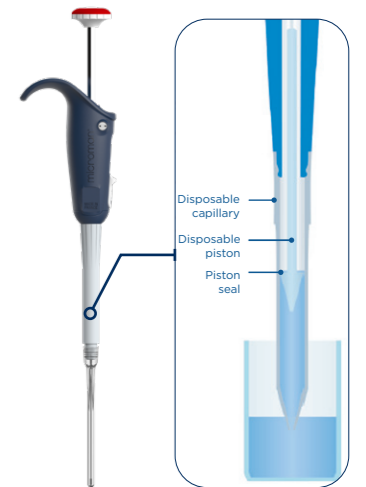
### THE RIGHT CHOICE FOR YOUR LIQUID HANDLING

| Liquid Types | Applications | Your Gilson Solutions | Associated Gilson Consumables |
|---|---|---|---|
| Aqueous (ex. water, sucrose, Tris, buffer with a pH of 7) | Biology<br>Biochemistry<br>Clinical assays and immunoassays<br>Cell culture<br>Analytical chemistry | **1, 8- and 12-channel pipettes**<br>PIPETMAN® M Connected<br>PIPETMAN® M<br>MyPIPETMAN®<br>PIPETMAN® L<br>PIPETMAN®<br>PIPETMAX® 268<br><br>**96-channel pipettes**<br>PLATEMASTER®<br>PIPETMAN® M96 | PIPETMAN® DIAMOND Tips<br>AmpliPur® Expert Tips<br>PIPETMAN® Expert Tips* |
| Viscous (ex. glycerol, surfactants, oil) | Molecular Biology<br>Petrochemistry<br>Point of Care Diagnostic<br>Pharmaceutical<br>Cosmetics<br>Environment<br>Food Quality Control | MICROMAN® E<br>DISTRIMAN® | Capillary Pistons<br>DISTRITIPS® |
| Volatile (ex. ethanol, hexane, formaldehyde) | | | |
| Hot or cold | | | |
| Foaming | | | |
| Contaminated or toxic (ex. blood, infectious bacteria or viruses, hazardous radioactive isotopes) | | | |
| Corrosive (ex. hydrochloric or sulfuric acid) | | | |

## GILSON®

### HOW TO CHOOSE THE RIGHT PIPETTE

From positive-displacement to air displacement or fixed volume to variable volume, how do you go about choosing the right pipette? Watch our video to learn what factors to consider when choosing the perfect pipette for your lab.

**Watch Video**

# pipetman®

**M CONNECTED**

## PIPETTE SMARTER. REPORT FASTER. CONFIDENTLY.

PIPETMAN® M Connected is an electronic, Bluetooth®-enabled pipette that offers accuracy and precision in both standard and repetitive pipetting modes. Requiring virtually no pipetting forces to aspirate and dispense samples, PIPETMAN M Connected helps reduce pipetting fatigue and increase pipetting efficiency. PIPETMAN M Connected is available in 20 models, covering a volume range from 0.5 µL to 10 mL for single channel models, and 0.5 µL to 1200 µL for multichannel models.

### Make Manual Processes Verifiable

With PIPETMAN M Connected, explore new possibilities in protocol execution assistance and data acquisition through the Bluetooth® connection to Gilson applications.
The pipette interacts in real time with your TRACKMAN® Connected system for increased accuracy and efficiency in both standard and repetitive modes.

### GILSON SOFTWARE APPLICATIONS

The PipettePilot app comes preloaded on the TRACKMAN Connected tablet. The app displays where and when to pipette in real time to prevent pipetting errors. The app also provides you with a report for complete traceability of your experiment.

#### PIPETMAN M Connected Software

Executing custom protocols has never been easier. PIPETMAN M Connected Software allows you to create, save, and transfer up to ten custom protocols into PIPETMAN M Connected.

#### PipetteScope®

With PipetteScope, know exactly when your pipette needs to be calibrated, request a calibration appointment, and view service history reports, all in one location. Additionally, with the app, you'll gain visibility into your pipette's usage analytics and get quick access to user's guides.

Download PipetteScope and PIPETMAN M Connected Software for free on www.gilson.com.

[Download App]
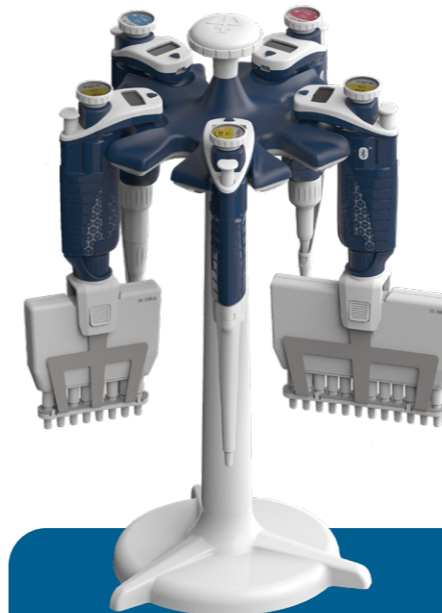
### Store Your Electronic Pipettes On Our POWER CARROUSEL™ Charging Stand

Improved efficiency, organization, and protection.

Keep your PIPETMAN M Connected operational.

## PIPETMAN® M CONNECTED SINGLE CHANNEL

| Model | PIPETMAN DIAMOND Tips | | Part Number | Gilson Specifications | ISO 8655-2 |
|---|---|---|---|---|---|
| | | | | Standard PIPET mode | REPETITIVE mode volume |
| | | | | Volume Range | Volume Range |
| P10M | D10 DL10 | DF10ST DFL10ST | F81040 | 0.5–10 µL | 0.5–10 µL |
| P20M | D200 | DF30ST | F81041 | 2–20 µL | 2–20 µL |
| P100M | D200 | DF100ST | F81042 | 5–100 µL | 5–100 µL |
| P200M | D200 D300 | DF200ST DF300ST | F81043 | 20–200 µL | 5–200 µL |
| P300M | D200 D300 | DF200ST DF300ST | F81044 | 20–300 µL | 10–300 µL |
| P1200M | D1000 D1200 | DF1000ST DF1200ST | F81045 | 100–1200 µL | 20–1200 µL |
| P5000M | D5000 | | F81046 | 500–5000 µL | 100–5000 µL |
| P10mLM | D10mL | | F81047 | 1–10 mL | 200 µL–10 mL |

## PIPETMAN® M CONNECTED MULTICHANNEL

| Model | PIPETMAN DIAMOND Tips | | Part Number | Standard PIPET mode Volume Range | REPETITIVE mode volume Volume Range |
|---|---|---|---|---|---|
| P8x10M | D10 DL10 | DF10ST DFL10ST | F81048 | 0.5–10 µL | 0.5–10 µL |
| P12x10M | | | F81049 | | |
| P8x20M | DL10 D200 | DFL10ST DF30ST | F81050 | 1–20 µL | 1–20 µL |
| P12x20M | | | F81051 | | |
| P8x100M | D200 | DF100ST | F81052 | 10–100 µL | 5–100 µL |
| P12x100M | | | F81053 | | |
| P8x200M | D200 D300 | DF100ST DF200ST DF300ST | F81054 | 20–200 µL | 5–200 µL |
| P12x200M | | | F81055 | | |
| P8x300M | D200 D300 | DF200ST DF300ST | F81056 | 10–300 µL | 10–300 µL |
| P12x300M | | | F81057 | | |
| P8x1200M | D1200 | DF1200ST | F81058 | 50–1200 µL | 50–1200 µL |
| P12x1200M | | | F81059 | | |

Gilson maximum permissible errors are guaranteed only when PIPETMAN pipettes are used with the recommended PIPETMAN DIAMOND Tips.

**Full range of accessories can be found on **

### Tools and Resources
**Specsheet:** PIPETMAN M Connected Specifications
**Guide to Pipetting:** Tips from Our Experts

Contact your local Gilson sales representative to find out about the availability of this product in your country.

[SHOP NOW]   Visit www.gilson.com

# pipetman® M

## GUARANTEED PERFORMANCE WITH OUTSTANDING ACCURACY

The PIPETMAN® M electronic pipette combines the simplicity of a mechanical pipette with the consistency of an electronic liquid handling tool. The PIPETMAN M range has been designed for guaranteed accuracy and precision in both standard and repetitive modes for reliable sample preparation.

### On-Target Performance

Trust your results with guaranteed performancein both standard and repetitive pipetting modes.

### Pipetting Comfort

Lightweight and perfectly balanced with low ejection and volume setting forces, for hours of pipetting comfort.

### Ease-of-Use

With a streamlined user interface and four pipetting modes, control of your sample prep is at your fingertips. Switch to custom mode to execute your own protocol transferred from the PIPETMAN M Software.

Mode Button

Turn and Click Push Button

### Store and Charge Your Electronic Pipettes with Our CARROUSSEL™ Stand Adapter

Fit onto the CARROUSSEL™ Pipette Stand, allowing a electronic PIPETMAN M or PIPETMAN M Connected pipette to be safely stored and charged.

**Full range of accessories can be found on page 28.**

| PIPETMAN® M SINGLE CHANNEL | | | | | |
|---|---|---|---|---|---|
| Model | PIPETMAN DIAMOND Tips | Part Number | Gilson Specifications — Standard PIPET mode — Volume Range | ISO 8655-2 — REPETITIVE mode volume — Volume Range |
| P10M | D10 DL10 | DF10ST DFL10ST | F81022 | 0.5–10 µL | 0.5–10 µL |
| P20M | D200 | DF30ST | F81023 | 2–20 µL | 2–20 µL |
| P100M | D200 | DF100ST | F81013 | 5–100 µL | 5–100 µL |
| P200M | D200 D300 | DF200ST DF300ST | F81024 | 20–200 µL | 5–200 µL |
| P300M | D200 D300 | DF200ST DF300ST | F81014 | 20–300 µL | 10–300 µL |
| P1200M | D1000 D1200 | DF1000ST DF1200ST | F81015 | 100–1200 µL | 20–1200 µL |
| P5000M | D5000 | | F81016 | 500–5000 µL | 100–5000 µL |
| P10mLM | D10mL | | F81017 | 1–10 mL | 200 µL–10 mL |

| PIPETMAN® M MULTICHANNEL | | | | | |
|---|---|---|---|---|---|
| P8x10M | D10 DL10 | DF10ST DFL10ST | F81025 | 0.5–10 µL | 0.5–10 µL |
| P12x10M | | | F81026 | | |
| P8x20M | DL10 D200 | DFL10ST DF30ST | F81027 | 1–20 µL | 1–20 µL |
| P12x20M | | | F81028 | | |
| P8x100M | D200 | DF100ST | F81018 | 10–100 µL | 5–100 µL |
| P12x100M | | | F81019 | | |
| P8x200M | D200 D300 | DF100ST DF200ST DF300ST | F81029 | 20–200 µL | 5–200 µL |
| P12x200M | | | F81030 | | |
| P8x300M | D200 D300 | DF200ST DF300ST | F81031 | 10–300 µL | 10–300 µL |
| P12x300M | | | F81032 | | |
| P8x1200M | D1200 | DF1200ST | F81020 | 50–1200 µL | 50–1200 µL |
| P12x1200M | | | F81021 | | |

Gilson maximum permissible errors are guaranteed only when PIPETMAN pipettes are used with the recommended PIPETMAN DIAMOND Tips.

### Tools and Resources
**Guide to Pipetting:** Tips from Our Experts

PIPETMAN M is only available in select locations. For more information, please contact your local Gilson representative.

SHOP NOW    Visit www.gilson.com

# trackman®

**CONNECTED**

## MAKE YOUR LAB AS SMART AS YOUR SCIENCE

TRACKMAN® Connected is a tablet with exclusive applications and accessories that make pipetting on different labware more reliable, improving the efficiency and traceability of your experiment.

### Boost Your Experiment Reliability

When paired with PIPETMAN® M Connected, the installed PipettePilot® app guides you through your pipetting protocol. The app displays where, when, and how much to pipette with real-time interactions to prevent errors.

### Get Immediate Reproducibility

With the digitally documented protocol, your team can be confident that a protocol is being executed the same each time.

### Improve the Traceability of your Experiment

Integrate connected tools into your protocols in a safe and convenient way.

TRACKMAN Connected offers complete traceability of your experiments by recording pipetting actions and environmental conditions.

### Access Pipette Analytics and Calibration History

PipetteScope® informs you exactly when your pipette needs to be calibrated. Through the app, you can easily request a calibration appointment and also view service history reports in one central location. PipetteScope gives you instant access to the pipette usage analytics as well as access to the user guide.

**Download App**

### Pair it with PIPETMAN® M Connected

Explore new possibilities in protocol execution assistance, traceability, and data acquisition through its Bluetooth® connection to Gilson applications.

For more information about PIPETMAN M Connected, refer to

**Watch TRACKMAN® Connected in action**

**Watch Video**

### Make Pipetting Easier for Your Molecular Biology Applications

We've worked closely with QIAGEN to program their gold-standard protocols into TRACKMAN Connected to reduce errors and bring greater traceability to your molecular biology applications.

Depending on your protocol needs, we have three TRACKMAN Connected Starter Kits available: Single Channel, Multichannel, and Pro. Each starter kit includes PIPETMAN M Connected pipettes, TRACKMAN Connected tablet and accessories, and tips.

Contact your local Gilson sales representative to find out about the availability of this product in your country.

### Inside Your Kit

**Tablet with PipettePilot® and PipetteScope® Apps**

Interact with all your apps at the bench with the tablet included in your kit. The tablet comes preloaded with PipettePilot to create and track pipetting tasks. The app displays where and when to pipette with real time interactions to prevent pipetting errors and provides you with a report for complete traceability of your experiment.

Our other application, PipetteScope, helps you keep tabs on your pipette last calibration, user's guide, and other useful pipetting metrics.

**Environment Sensor**

Monitor temperature, pressure, and humidity during your experiment with your environment sensor.

**Benchtop Pipetting Accessories**

Get all the accessories to integrate your tablet at the bench in a safe way: microplate holder, tempered glass screen protector, microplate adapter, and strip adapters.

**Full range of accessories can be found on page 28.**

| TRACKMAN® CONNECTED | |
|---|---|
| Model | Part Number |
| TRACKMAN Connected EU Plug | FB1020 |
| TRACKMAN Connected UK Plug | FB1021 |
| TRACKMAN Connected US Plug | FB1022 |

**SHOP NOW**   Visit **www.gilson.com**

### Tools and Resources
**Guide to Pipetting:** Tips from Our Experts
**Case Study:** The first Steps of Digitalisation and Interoperability in the Analytical Lab

| TRACKMAN® CONNECTED STARTER KITS | |
|---|---|
| Model | Part Number |
| TRACKMAN Connected Starter Kit Single Channel (EU) | FB10200 |
| TRACKMAN Connected Starter Kit Single Channel (UK) | FB10201 |
| TRACKMAN Connected Starter Kit Single Channel (US) | FB10202 |
| TRACKMAN Connected Starter Kit Multichannel (EU) | FB10210 |
| TRACKMAN Connected Starter Kit Multichannel (UK) | FB10211 |
| TRACKMAN Connected Starter Kit Multichannel (US) | FB10212 |
| TRACKMAN Connected Starter Kit Pro (EU) | FB10220 |
| TRACKMAN Connected Starter Kit Pro (UK) | FB10221 |
| TRACKMAN Connected Starter Kit Pro (US) | FB10222 |

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# MyPipetman®

**ENTERPRISE**

FULLY AUTOCLAVABLE

## A UNIQUE COMBINATION OF FUNCTIONAL CHOICES AND PIPETTE PERSONALIZATION

MyPIPETMAN® Enterprise is a series of fully autoclavable pipettes that include technical and personalization options. Unique, reliable, and ergonomic, they are the right solution for enterprises or industries that are looking for better efficiency and performance in daily activities through various applications and workflows.
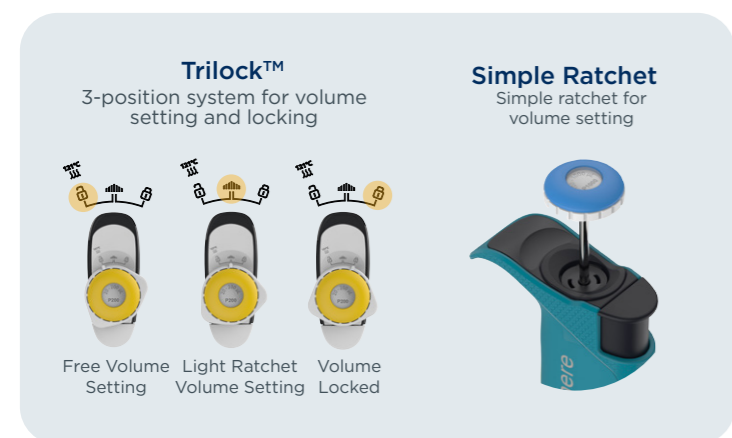
### Design Your Very Own Gilson Pipette Series

MyPIPETMAN Enterprise offers several customization options to ensure efficiency and answer your pipetting needs within various workflows.

### Technical Features

Choose your preferred technical features to optimize the use of your pipette and increase overall productivity in the lab:

- With or without volume locking system (Trilock™ or simple ratchet)
- Reduced or standard pipetting and ejection forces
- Metal or plastic tip ejector (from P2 to P1000 single channel models)

**Trilock™**
3-position system for volume setting and locking

Free Volume Setting · Light Ratchet Volume Setting · Volume Locked

**Simple Ratchet**
Simple ratchet for volume setting

### Colors and Extra Personalization Options

Color choices and printing options on your pipette allow for better organization and identification within your applications:

- Handle and lower parts color choices
- One side of the pipette can be laser-printed

MyPIPETMAN Enterprise pipettes are made-to-order pipettes based on your design and technical choices. They are produced in a series of a minimum of 150 units (mix of different volumes). All pipettes inside a series will have the same technical features, same design, and same information printed on the handle.

### Watch MyPIPETMAN® in action

BOOST PRODUCTIVITY

**Watch Video**

### Tools and Resources

**Specsheet:** MyPIPETMAN Pipette Specifications
**Guide to Pipetting:** Tips from Our Experts
**Video:** MyPIPETMAN Two-Minute Inspection Video

## MYPIPETMAN® ENTERPRISE SINGLE CHANNEL MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
|---|---|---|---|---|
| P2 | D10 DL10 | DF10ST DFL10ST | FP10001E | 0.2–2 |
| P10 | D10 DL10 | DF10ST DFL10ST | FP10002E | 1–10 |
| P20 | D200 | DF30ST | FP10003E | 2–20 |
| P100 | D200 | DF100ST | FP10004E | 10–100 |
| P200 | D200 D300 | DF200ST DF300ST | FP10005E | 20–200 |
| P1000 | D1000 D1200 | DF1000ST DF1200ST | FP10006E | 100–1000 |
| P5000 | D5000 | | FP10007E | 500–5000 |
| P10mL | D10mL | | FP10008E | 1000–10000 |

## MYPIPETMAN® ENTERPRISE MULTICHANNEL MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
|---|---|---|---|---|
| P8x10 | D10 DL10 | DF10ST DFL10ST | FP10009E | 0.5–10 |
| P12x10 | | | FP10010E | |
| P8x20 | DL10 D200 | DFL10ST DF30ST | FP10011E | 2–20 |
| P12x20 | | | FP10012E | |
| P8x200 | D200 D300 | DF200ST DF300ST | FP10013E | 20–200 |
| P12x200 | | | FP10014E | |
| P8x300 | D200 D300 | DF200ST DF300ST | FP10015E | 20–300 |
| P12x300 | | | FP10016E | |

### Colored Windows

| Model | Part Number |
|---|---|
| Window 3digit Dark Blue MyPIPETMAN | FP070101 |
| Window 3digit White MyPIPETMAN | FP070102 |
| Window 3digit Blue MyPIPETMAN | FP070103 |
| Window 3digit Red MyPIPETMAN | FP070104 |
| Window 3digit Yellow MyPIPETMAN | FP070105 |
| Window 3digit Green MyPIPETMAN | FP070106 |

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# MyPipetman®

**SELECT**

## SELECT OPTIONS FOR IMPROVED PIPETTING

Ergonomic, safe, and reliable, MyPIPETMAN® Select offers volume setting choice and optional text personalization on the handle for an optimal use in various protocols.

FULLY AUTOCLAVABLE

### Set and Secure the Volume your Preferred Way

The unique and Trilock™ volume-locking system enables you to choose different positions when setting the volume:

- Free volume setting position for quick and effortless volume adjustment
- Light ratchet volume setting for precise volume adjustment
- Volume locked position for secure pipetting

With this new Trilock™ system, the volume is adjusted simply by turning the push button of the pipette.

Free Volume Setting

Light Ratchet Volume Setting

Volume Locked

### Ergonomic Design

Lightweight and well-balanced, MyPIPETMAN Select has an elegant design with a textured effect for a better grip.

With no compromise on quality and performance, the built-in ejection system provides reduced tip ejection forces. This patented ejection system reinforces the pipette's ergonomics for convenient use throughout the day.

### Extra Personalization with Accessories

Other accessories like colored windows, tip holders, and tip ejectors are available in different colors and material for additonal customization and ease of use. Standard accessories, such as pipette stands and holders, are also available.

### Personalize your Pipette for Optimal Use

MyPIPETMAN Select can have their handles printed on demand. Identify your pipette to avoid any risk of contamination by dedicating it to a specific liquid or workflow step and improve your lab Lean Management process.

Dark Blue | White | Blue
Red | Yellow | Green

MyPIPETMAN Select can be personalized with a special text. Part numbers are finishing with SP (Select Personalized) instead of S (Select). Please contact your Gilson Account Manager for special text printing and SP part numbers.

### MYPIPETMAN® SELECT SINGLE CHANNEL MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
|---|---|---|---|---|
| P2 | D10 DL10 | DF10ST DFL10ST | FP10001S | 0.2–2 |
| P10 | D10 DL10 | DF10ST DFL10ST | FP10002S | 1–10 |
| P20 | D200 | DF30ST | FP10003S | 2 –20 |
| P100 | D200 | DF100ST | FP10004S | 10–100 |
| P200 | D200 D300 | DF200ST DF300ST | FP10005S | 20–200 |
| P1000 | D1000 D1200 | DF1000ST DF1200ST | FP10006S | 100–1000 |
| P5000 | D5000 | | FP10007S | 500–5000 |
| P10mL | D10mL | | FP10008S | 1000–10000 |

### MYPIPETMAN® SELECT MULTICHANNEL MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
|---|---|---|---|---|
| P8x10 | D10 DL10 | DF10ST DFL10ST | FP10009S | 0.5–10 |
| P12x10 | | | FP10010S | |
| P8x20 | DL10 D200 | DFL10ST DF30ST | FP10011S | 2–20 |
| P12x20 | | | FP10012S | |
| P8x200 | D200 D300 | DF200ST DF300ST | FP10013S | 20–200 |
| P12x200 | | | FP10014S | |
| P8x300 | D200 D300 | DF200ST DF300ST | FP10015S | 20–300 |
| P12x300 | | | FP10016S | |

### MYPIPETMAN® SELECT KIT

| Model | Part Number | Models | PIPETMAN® DIAMOND Tips | Accessories |
|---|---|---|---|---|
| MyPIPETMAN® Select 4-Pipette Kit | F167390 | P2 P20 P200 P1000 | DL10 D200 D1000 | 4 SINGLE pipette holders 4 Plastic ejectors 6 colored windows (1 of each color) |

### Colored Windows

| Model | Part Number |
|---|---|
| Window 3digit Dark Blue MyPIPETMAN | FP070101 |
| Window 3digit White MyPIPETMAN | FP070102 |
| Window 3digit Blue MyPIPETMAN | FP070103 |
| Window 3digit Red MyPIPETMAN | FP070104 |
| Window 3digit Yellow MyPIPETMAN | FP070105 |
| Window 3digit Green MyPIPETMAN | FP070106 |

### Tools and Resources

**Specsheet:** MyPIPETMAN Specifications
**Guide to Pipetting:** Tips from Our Experts

**Video:** MyPIPETMAN Select Video
**Video:** MyPIPETMAN Two-Minute Inspection Video

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# pipetman®

**L**

FULLY
VARIABLE VOLUME MODELS
AUTOCLAVABLE
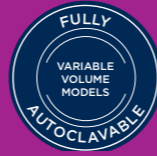
## INCREASED COMFORT AND PRODUCTIVITY

Designed for performance and comfort, PIPETMAN® L offers a comprehensive range of models, adapted to all your needs.

### Convenient Use

Lightweight and balanced, PIPETMAN L combines an ergonomic design with minimized pipetting forces, giving you the ability to pipette longer without fatigue.

Right-handed or left-handed? No problem. Adjust the location of the tip ejector to the most comfortable position for you.

### Secure Pipetting

Reduce pipetting errors and avoid accidental volume changes during pipetting cycles with a true volume-locking mechanism for improved accuracy and precision. PIPETMAN L variable volume models are all fully autoclavable without disassembly for maximum convenience and protection from cross-contamination.

### Extended Range & Tip Compatibility

Available as a fixed or variable volume, the PIPETMAN L line covers a full volume range from 0.2 µL to 10 mL for single channel models, and from 0.5 µL to 1200 µL for multichannel models. Precise, accurate, and reliable, they can be intensively used with confidence in many applications.

Four PIPETMAN L multichannel models (model name ending with VR), covering a volume range from 20 µL to 300 µL, are equipped with V-rings at the bottom of the tip holders for a proper fit with most tip brands *(using the Rocky Rack technique is recommended)*.

To determine if your PIPETMAN L is autoclavable, check to see if the serial number begins with NK or newer versions. If you're unsure, please contact your local Gilson representative.

### Store Your Pipettes On Our CARROUSSEL™ Pipette Stand

The CARROUSEL™ Pipette Stand holds up to seven Gilson single or multichannel pipettes, protecting them from contamination.

Full range of accessories can be found on .

### Watch PIPETMAN® L in action

**Watch Video**

### Tools and Resources

**Specsheet:** PIPETMAN L Specifications
**Guide to Pipetting:** Tips from Our Experts
**Poster:** Two-Minute Inspection Poster

### PIPETMAN® L SINGLE CHANNEL VARIABLE VOLUME MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | | Volume Range (µL) |
|---|---|---|---|---|---|
| | | | With Stainless Steel Ejector | With Plastic Ejector | |
| P2L | D10 DL10 | DF10ST DFL10ST | FA10001M | FA10001P | 0.2-2 |
| P10L | D10 DL10 | DF10ST DFL10ST | FA10002M | FA10002P | 1-10 |
| P20L | D200 | DF30ST | FA10003M | FA10003P | 2-20 |
| P100L | D200 | DF100ST | FA10004M | FA10004P | 10-100 |
| P200L | D200 D300 | DF200ST DF300ST | FA10005M | FA10005P | 20-200 |
| P1000L | D1000 D1200 | DF1000ST DF1200ST | FA10006M | FA10006P | 100-1000 |
| P5000L | D5000 | | FA10007 | | 500-5000 |
| P10mLL | D10mL | | FA10008 | | 1000-10000 |

### PIPETMAN® L MULTICHANNEL MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume (µL) |
|---|---|---|---|---|
| P8x10L | D10 DL10 | DF10ST DFL10ST | FA10013 | 0.5-10 |
| P12x10L | | | FA10014 | |
| P8x20L | DL10 D200 | DFL10ST DF30ST | FA10009 | 2-20 |
| P12x20L | | | FA10010 | |
| P8x200L | D200 D300 | DF200ST DF300ST | FA10011 | 20-200 |
| P12x200L | | | FA10012 | |
| P8x200LVR | D200 D300 | DF200ST DF300ST | FA10035 | 20-200 |
| P12x200LVR | | | FA10036 | |
| P8x300L | D200 D300 | DF200ST DF300ST | FA10015 | 20 - 300 |
| P12x300L | | | FA10016 | |
| P8x300LVR | D200 D300 | DF200ST DF300ST | FA10037 | 20-300 |
| P12x300LVR | | | FA10038 | |
| P8x1200L | D1200 | DF1200ST | FA10039 | 100-1200 |
| P12x1200L | | | FA10040 | |

Gilson maximum permissible errors are guaranteed only when PIPETMAN® pipettes are used with the recommended PIPETMAN® DIAMOND Tips. | For a pipette with a plastic tip ejector. the part number ends with the letter P. | For a pipette with a stainless steel tip ejector, the part number ends with the letter M. | P5000L and P10mLL are equipped with plastic tip ejectors.

### PIPETMAN® L KITS

| Model* | Part Number | PIPETMAN L Models | PIPETMAN® DIAMOND Tips | Accessories |
|---|---|---|---|---|
| PIPETMAN L Starter Kit | F167350 | P20L P200L P1000L | D200 D1000 | 3 SINGLE™ pipette holders 3 plastic ejectors |
| PIPETMAN L Micro-volume Kit | F167550 | P2L P10L P100L | DL10 D200 | 3 SINGLE™ pipette holders 3 plastic ejectors |
| PIPETMAN L 4-Pipette Kit | F167370 | P2L P20L P200L P1000L | DL10 D200 D1000 | 4 SINGLE™ pipette holders 4 Plastic ejectors |

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# pipetman®

L

## COMFORTABLE PIPETTING WITH SECURED FIXED VOLUME

The PIPETMAN® L Fixed pipettes offer the same comfortable, lightweight design as the variable volume models with a fixed volume that reduces the risk of any volume error during pipetting. This makes them an ideal choice for clinical diagnostics, quality control, and any routine testing applications even for non-trained lab technicians. Fifteen models of the air-displacement-based PIPETMAN L Fixed pipettes are available, covering a volume range of 1 µL to 5 mL.

### PIPETMAN® L FIXED VOLUME MODELS

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume (µL) |
|---|---|---|---|---|
| F1L | D10 DL10 | DF10ST DFL10ST | FA10017 | 1 |
| F2L | D10 DL10 | DF10ST DFL10ST | FA10018 | 2 |
| F5L | D10 DL10 | DF10ST DFL10ST | FA10019 | 5 |
| F10L | D10 DL10 | DF10ST DFL10ST | FA10020 | 10 |
| F20L | D200 | DF30ST | FA10021 | 20 |
| F25L | D200 | DF30ST | FA10022 | 25 |
| F50L | D200 | DF100ST | FA10023 | 50 |
| F100L | D200 | DF100ST | FA10024 | 100 |
| F200L | D200 | DF200ST | FA10025 | 200 |
| F250L | D300 | DF300ST | FA10026 | 250 |
| F300L | D1000 | DF1000ST | FA10027 | 300 |
| F400L | D1000 | DF1000ST | FA10028 | 400 |
| F500L | D1000 | DF1000ST | FA10029 | 500 |
| F1000L | D1000 | DF1000ST | FA10030 | 1000 |
| F5000L | D5000 | | FA10031 | 5000 |

Fixed volume PIPETMAN L are equipped with a plastic ejector. Depending on your needs and applications, metal ejectors are available as spare parts.

### Tools and Resources
**Specsheet:** PIPETMAN L Specifications
**Guide to Pipetting:** Tips from Our Experts
**Poster:** Two-Minute Inspection Poster

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### Store Your Pipettes on Our CARROUSSEL™ Pipette Stand

The CARROUSEL™ Pipette Stand holds up to seven Gilson single or multichannel pipettes, protecting them from contamination.

**Full range of accessories can be found on page 28.**

# pipetman®

## RECOGNIZED RELIABILITY AND PROVEN DURABILITY COMBINED WITH EASY PIPETTING AND HANDLING

Recognized as the pipetting standard for its reliability and proven durability, PIPETMAN® combines legendary accuracy, precision, and durability with easy pipetting and handling.

### Legendary Performance

Accurate and precise, PIPETMAN® air-displacement pipettes are recognized as one of the world standard.

They come in a large range of volumes, including single and multichannel models, allowing you to handle various sample types with confidence.

### Easy Pipetting

PIPETMAN feels like the PIPETMAN® Classic but with lower forces and enhanced standard pipetting habits.

### Built-to-Last and Convenient

Made of resistant materials, PIPETMAN offers premium durability. Built-to-last, it is the economical solution for years of pipet ting.

### Simple to Maintain

Routine cleaning and maintenance are all that is required to keep PIPETMAN in top condition for years. The PIPETMAN design allows for easy access to user-serviceable parts, along with a fully autoclavable tip holder and ejector.

### Store Your Pipettes On Our SINGLE™ Holder Pipette Stand

Convenient option for holding a single or multichannel PIPETMAN® pipette, protecting the pipette from contamination without taking up any precious bench space.

**Full range of accessories can be found on page 28.**

### Increased Comfort with PIPETMAN® Comfort Handle

The ergonomically designed PIPETMAN® Comfort Handle attaches to any PIPETMAN with the classic design to provide improved comfort and reduce pipetting fatigue. The handles are easy to personalize with the PIPETMAN Comfort Handle labels.

**Personnalize your PIPETMAN Comfort Handle labels**

**Full range of accessories can be found on page 28.**

### PIPETMAN® SINGLE CHANNEL

| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
|---|---|---|---|---|
| P2 | D10 DL10 | DF10ST DFL10ST | F144054M | 0.2-2 |
| P10** | D10 DL10 | DF10ST DFL10ST | F144055M | 1-10 |
| P20 | D200 | DF30ST | F144056M | 2-20 |
| P100 | D200 | DF100ST | F144057M | 10-100 |
| P200 | D200 D300 | DF200ST DF300ST | F144058M | 20-200 |
| P1000 | D1000 D1200 | DF1000ST DF1200ST | F144059M | 100-1000 |
| P5000*** | D5000 | | F144066 | 500-5000 |
| P10mL*** | D10mL | | F144067 | 1000-10000 |

### PIPETMAN® MULTICHANNEL

| | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
|---|---|---|---|---|
| P8x10 | D10 DL10 | DF10ST DFL10ST | F144068 | 1-10 |
| P12x10 | | | F144069 | |
| P8x20 | DL10 D200 | DFL10ST DF30ST | F144070 | 2-20 |
| P12x20 | | | F144071 | |
| P8x200 | D200 D300 | DF200ST DF300ST | F144072 | 20-200 |
| P12x200 | | | F144073 | |
| P8x300 | D200 D300 | DF200ST DF300ST | F144074 | 30-300 |
| P12x300 | | | F144075 | |

Gilson maximum permissible errors are guaranteed only when PIPETMAN® pipettes are used with the recommended PIPETMAN® DIAMOND Tips. | **P10 model can be used up to 0.5 µL. | ***P5000 and P10mL do not have tip ejectors.

### PIPETMAN® KIT

| Description | Part Number | PIPETMAN® Models | PIPETMAN DIAMOND Tips Included | Accessories |
|---|---|---|---|---|
| PIPETMAN® Starter Kit | F167900 | P20 P200 P1000 | D200 D1000 | 3 SINGLE pipette holders 3 PIPETMAN Comfort Handles 1 Sheet of 12 Comfort Handle labels |
| PIPETMAN® Micro-volume Kit | F167800 | P2 P10 P100 | DL10 D200 | 3 SINGLE pipette holders 3 PIPETMAN Comfort Handles 1 Sheet of 12 Comfort Handle labels |
| PIPETMAN® Large-volume Kit | F167920 | P5000 P10mL | D5000 D10mL | 2 SINGLE pipette holders 2 PIPETMAN Comfort Handles 1 Sheet of 12 Comfort Handle labels 2 bags of 10 filters |
| PIPETMAN® Four Pipette Kit | F167360 | P2 P20 P200 P1000 | DL10 D200 D1000 | 4 SINGLE pipette holders 4 PIPETMAN Comfort Handles 1 Sheet of 12 Comfort Handle labels |

### Tools and Resources

**Specsheet:** PIPETMAN Specifications
**Guide to Pipetting:** Tips from Our Experts
**Poster:** Two-Minute Inspection Poster

Benefit from a special care with our flexible, tiered service level offerings, tailored to fit your lab's needs, while increasing the lifespan of your pipettes.

PIPETMAN DIAMOND® Tips are designed to fit your MyPIPETMAN perfectly and guarantee maximum accuracy and precision.

**SHOP NOW**  Visit www.gilson.com

# PIPETTE ACCESSORIES

## ACCESSORIES TO SUPPORT YOUR PIPETTING TASKS

Small things that make all the difference in your pipetting experience. Discover a variety of accessories that make day-to-day pipetting more convenient for you.

### CARROUSEL™ PIPETTE STAND

Protects pipettes from shocks and contamination

Holds up to seven Gilson pipettes for space saving

| Ordering information | |
|---|---|
| CARROUSEL, stand for 7 pipettes | F161401 |

SHOP NOW

### SINGLE™ PIPETTE HOLDER

Holds your single or multichannel PIPETMAN®, PIPETMAN® L, MyPIPETMAN® and MICROMAN® E models

Sticks to any smooth, dry surface

Prevents liquid from running inside shaft

| Ordering information | |
|---|---|
| Single Pipette Holder | F161406 |

SHOP NOW

### TRIO™ PIPETTE STAND

Safely stores and protects three PIPETMAN®, PIPETMAN® L, MyPIPETMAN® and MICROMAN® E models

Helps organize your workbench

| Ordering information | |
|---|---|
| TRIO Pipette Stand for 3 pipettes | F161405 |

SHOP NOW

### DISPOSABLE FILTERS

For PIPETMAN®, PIPETMAN® L, and MyPIPETMAN® P5000 and P10mL models

| Ordering information | |
|---|---|
| Bag of 10 Filters for P5000/P10mL | F161280 |
| Bag of 100 Filters for P5000/P10mL | F161241 |

SHOP NOW

### POWER CARROUSEL™

PIPETMAN® M and PIPETMAN® M Connected charging stand

Charges up to five pipettes at once in one hour

Always keeps your PIPETMAN M and PIPETMAN M Connected operational

| Ordering information | |
|---|---|
| POWER CARROUSEL | FB1001 |
| PIPETMAN M Stand Adaptor for CARROUSEL Pipette Stand | F807023 |

SHOP NOW

### UNIVERSAL MULTICHANNEL STAND

Holds any brand of 8- or 12-channel pipettes securely Compact design to save space

| Ordering information | |
|---|---|
| Universal Multichannel Stand | F161417 |

SHOP NOW

### GILSON REAGENT RESERVOIRS

Disposable, ideal for dispensing reagent with multichannel pipettes

25 mL and 50 mL available

| Ordering information | |
|---|---|
| Reagent Reservoir 25 mL, 100 | F267660 |
| Reagent Reservoir 50 mL, 100 | F267670 |

SHOP NOW

### JIMMY™ MICROTUBE OPENER

Clips on to PIPETMAN® models

Increases pipetting efficiency

Lessens the fatigue associated with manual tube opening

| Ordering information | |
|---|---|
| The JIMMY Microtube Opener | F144983 |

SHOP NOW

### COLORED WINDOWS FOR MYPIPETMAN®

Colored windows for MyPIPETMAN® models

Ideal for identification, extra-personalization, or more convenient use

| Ordering information | |
|---|---|
| Window 3digit Dark Blue | FP070101 |
| Window 3digit White | FP070102 |
| Window 3digit Blue | FP070103 |
| Window 3digit Red | FP070104 |
| Window 3digit Yellow | FP070105 |
| Window 3digit Green | FP070106 |

SHOP NOW

### METAL TIP EJECTORS FOR MYPIPETMAN®

For MyPIPETMAN®

| Ordering information | | |
|---|---|---|
| Metal Ejector P2/P10 MyPIPETMAN | FP070111 (Dark Blue) | |
| | FP070112 (White) | |
| Metal Ejector P20 MyPIPETMAN | FP070121 (Dark Blue) | |
| | FP070122 (White) | |
| Metal Ejector P100 MyPIPETMAN | FP070131 (Dark Blue) | |
| | FP070132 (White) | |
| Metal Ejector P200 MyPIPETMAN | FP070141 (Dark Blue) | |
| | FP070142 (White) | |
| Metal Ejector P1000 MyPIPETMAN | FP070151 (Dark Blue) | |
| | FP070152 (White) | |

SHOP NOW

### PLASTIC EJECTORS FOR PIPETMAN®

For PIPETMAN® and PIPETMAN® L models

| Ordering information | |
|---|---|
| Plastic ejector P2/P10 with adapter | F107027 |
| Plastic ejector P20 | F107028 |
| Plastic ejector P100 | F107029 |
| Plastic ejector P200 | F107030 |
| Plastic ejector P1000 | F107031 |

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### EJECTOR ADAPTORS FOR MYPIPETMAN®

For MyPIPETMAN®

| Ordering information | |
|---|---|
| Metal Ejector Adaptor P2/P10 Translucent | FP070210 |
| Metal Ejector Adaptor P2/P10 White | FP070212 |
| Plastic Ejector Adaptor P2/P10 White | FP070222 |

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### COLORIS™ IDENTIFICATION CLIPS

Identify or personalize your PIPETMAN®, PIPETMAN® L, and MyPIPETMAN® models

Write your name or application to avoid mix-ups and then snap into place

| Ordering information | |
|---|---|
| 10 Coloris Identification Clips, mixed colors | F161301 |
| 10 Coloris Identification Clips, red | F161302 |
| 10 Coloris Identification Clips, yellow | F161303 |
| 10 Coloris Identification Clips, green | F161304 |
| 10 Coloris Identification Clips, blue | F161305 |
| 10 Coloris Identification Clips, white | F161306 |

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### PLASTIC TIP EJECTORS FOR MYPIPETMAN®

For MyPIPETMAN®

| Ordering information | | |
|---|---|---|
| Plastic Ejector P2/P10 MYPIPETMAN | FP070161 (Dark Blue) | |
| | FP070162 (White) | |
| Plastic Ejector P20 MYPIPETMAN | FP070171 (Dark Blue) | |
| | FP070172 (White) | |
| Plastic Ejector P100 MYPIPETMAN | FP070181 (Dark Blue) | |
| | FP070182 (White) | |
| Plastic Ejector P200 MYPIPETMAN | FP070191 (Dark Blue) | |
| | FP070192 (White) | |
| Plastic Ejector P1000 MYPIPETMAN | FP070201 (Dark Blue) | |
| | FP070202 (White) | |

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### PIPETMAN COMFORT HANDLE

Clips on to PIPETMAN® models

Reduces the force needed to grip the pipette for maximum comfort

| Ordering information | |
|---|---|
| COMFORT HANDLE pack of 3, blue | F161486 |
| COMFORT HANDLE pack of 3, white | F161488 |
| COMFORT HANDLE pack of 50, blue | F161485 |
| COMFORT HANDLE pack of 50, white | F161487 |
| COMFORT HANDLE stickers, 120 | F161499 |

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# pipetman®

**DIAMOND TIPS**

## HIGHEST QUALITY TIPS FOR SUPERIOR RESULTS

Not all pipette tips are created equal. Trust Gilson's PIPETMAN® DIAMOND Tips to deliver the accuracy and precision your experiments demand. All tips are manufactured using the highest quality materials and state-of-the-art manufacturing techniques so you can be assured of consistent lot-to-lot performance.

### Guarantee Your PIPETMAN® Results

PIPETMAN DIAMOND Tips are designed to fit your PIPETMAN perfectly. Using PIPETMAN DIAMOND Tips in conjunction with your Gilson pipette guarantees maximum accuracy and precision.

### Affordable and Versatile For Every Application

Your needs, budget, and tip consumption vary according to your specific research activity. With our extensive range of packaging, PIPETMAN DIAMOND Tips are an affordable option for every lab and every application.

### Contamination-Free

Our tips are made of the highest-grade material within a fully traceable clean room environment, ensuring each tips are free of detectable DNA, RNA, DNase, RNase, ATP, and Endotoxins (Pyrogens). From mold to bench, they are traceable, and certified to meet the most stringent demands in a variety of applications.

### Choose the Right Tip for Your Needs

From purity level to volume range, this handy interactive tip selection guide will help you find the perfect tip for your application. Download now to get a clear view of our entire pipette tips offering.

**Tools and Resources**
**Poster:** Filter Tips Compatibility Chart

**Download Tip Selection Table**

## WIDE RANGE OF TIP PACKAGING

### TIPACK™

The design is more compact, convenient, ergonomic and eco-friendly

ROCKY RACK system and hinged 180° angled lid makes it extremely easy to fit tips on multichannel pipettes

Fully autoclavable

Available as sterilized and filter tips

**SHOP NOW**

### TOWERPACK

A quick, easy, and affordable rack refill system

Uses 60% less space on your bench and 70% less plastic than regular rack boxes

The whole range of TOWERPACK fits the amazingly easy-to-use universal reload box

One-hand system operation

Fully autoclavable

Available sterilized

**SHOP NOW**

### REFILL VERSIONS

Individually wrapped racks of tips that are convenient, clean, and eco-friendly

Ready to use, just peel the lid and insert into the empty box

Uses 45% less plastic than regular rack box

Fully autoclavable

Available as sterilized and filter tips

**SHOP NOW**

### RELOAD PACK

Quickest way to reload an empty box

Uses 70% less plastic, recyclable packaging is eco-friendly

Easy to store, takes up less bench space

Affordable and convenient

Fully autoclavable

**SHOP NOW**

### EASYPACK AND ECOPACK

Purchase in bulk and save money by simply reloading these tips into empty racks

Bags are sealed with rapid-sealing strip for easy access and to prevent contamination

Minimal waste

Fully autoclavable

EASYPACK: 5 bags x 200 tips

ECOPACK: 10 bags x 1000 tips

**SHOP NOW**

### STERILPACK

Individually wrapped sterilized tips

Complete protection from contaminants up to the moment of use

Wrapped in medical-grade quality plastic

Sterilization guaranteed for 5 years

400 individually wrapped sterilized tips

**SHOP NOW**

After your purchase, detailed quality and conformity information can be found on our quality certificates, available for download at http://go.gilson.com/TIPQC.

# pipetman®

## DIAMOND TIPS

### STANDARD PIPETMAN® DIAMOND TIPS

| | Description | Volume Range | Tip Length | Qty/Pack | Autoclavable Tips Part Number | Sterilized Tips Part Number |
|---|---|---|---|---|---|---|
| **RELOAD PACK** | DL10 RELOAD PACK | 0.1–20 μL | 45 mm | 960 | F167012 | - |
| | D200 RELOAD PACK | 2–200 μL | 51 mm | 960 | F167013 | - |
| | D1000 RELOAD PACK | 100–1000 μL | 66 mm | 576 | F167014 | - |
| **REFILL VERSIONS** | DL10 REFILL VERSIONS | 0.1–20 μL | 45 mm | 960 | F172200 | F172201 |
| | D200 REFILL VERSIONS | 2–200 μL | 51 mm | 960 | F172300 | F172301 |
| | D300 REFILL VERSIONS | 10–300 μL | 51 mm | 960 | F172400 | F172401 |
| | D1000 REFILL VERSIONS | 100–1000 μL | 66mm | 960 | F172500 | F172501 |
| | D1200 REFILL VERSIONS | 50–1200 μL | 84 mm | 960 | F172800 | F172801 |
| **TIPACK** | D10 TIPACK | 0.1–10 μL | 30 mm | 960 | F171100 | F171101 |
| | DL10 TIPACK | 0.1–20 μL | 45 mm | 960 | F171200 | F171201 |
| | D200 TIPACK | 2–200 μL | 51 mm | 960 | F171300 | F171301 |
| | D300 TIPACK | 10–300 μL | 51 mm | 960 | F171400 | F171401 |
| | D1000 TIPACK | 100–1000 μL | 66 mm | 960 | F171500 | F171501 |
| | D1200 TIPACK | 50–1200 μL | 84 mm | 960 | F171600 | F171601 |
| | D5000 TIPACK | 0.5–5 mL | 10.4 cm | 600 | F161370 | - |
| | D10mL TIPACK | 1–10 mL | 16 cm | 240 | F161230 | - |
| **TOWERPACK** | D10 TOWERPACK | 0.1–10 μL | 30 mm | 960 | F167101 | F167201 |
| | DL10 TOWERPACK | 0.1–20 μL | 45 mm | 960 | F167102 | F167202 |
| | D200 TOWERPACK | 2–200 μL | 51 mm | 960 | F167103 | F167203 |
| | D300 TOWERPACK | 10–300 μL | 51 mm | 960 | F167105 | F167205 |
| | D1000 TOWERPACK | 100–1000 μL | 66 mm | 672 | F167104 | F167204 |
| **ECOPACK** | D10 ECOPACK | 0.1–10 μL | 30 mm | 10,000 | F161630 | - |
| | DL10 ECOPACK | 0.1–20 μL | 45 mm | 10,000 | F161450 | - |
| | D200 ECOPACK | 2–200 μL | 51 mm | 10,000 | F161930 | - |
| | D300 ECOPACK | 10–300 μL | 51 mm | 10,000 | F161730 | - |
| | D1000 ECOPACK | 100–1000 μL | 66 mm | 10,000 | F161670 | - |
| | D1200 ECOPACK | 50–1200 μL | 84 mm | 10,000 | F161110 | - |
| **EASYPACK** | D10 EASYPACK (5 bags of 200) | 0.1–10 μL | 30 mm | 1,000 | F161631 | - |
| | DL10 EASYPACK (5 bags of 200) | 0.1–20 μL | 45 mm | 1,000 | F161451 | - |
| | D200 EASYPACK (5 bags of 200) | 2–200 μL | 51 mm | 1,000 | F161931 | - |
| | D300 EASYPACK (5 bags of 200) | 10–300 μL | 51 mm | 1,000 | F161731 | - |
| | D1000 EASYPACK (5 bags of 200) | 100–1000 μL | 66 mm | 1,000 | F161671 | - |
| | D1200 EASYPACK (5 bags of 200) | 50–1200 μL | 84 mm | 1,000 | F161111 | - |
| | D5000 EASYPACK (3 bags of 334) | 0.5–5 mL | 10.4 cm | 1,002 | F161571 | - |
| | D10mL EASYPACK (4 bags of 50) | 1–10 mL | 16 cm | 200 | F161210 | - |
| **STERIL PACK** | D200ST STERILPACK | 2–200 μL | 51 mm | 400 | - | F161330 |
| | D1000ST STERILPACK | 100–1000 μL | 66 mm | 400 | - | F161340 |

### PIPETMAN® DIAMOND FILTER TIPS

| | Description | Volume Range | Tip Length | Qty/Pack | Sterilized Tips Part Number |
|---|---|---|---|---|---|
| **REFILL VERSIONS** | DFL10ST REFILL VERSIONS | 0.1–10 μL | 45 mm | 960 | F172203 |
| | DF30ST REFILL VERSIONS | 2–30 μL | 51 mm | 960 | F172303 |
| | DF100ST REFILL VERSIONS | 10–100 μL | 51 mm | 960 | F172403 |
| | DF200ST REFILL VERSIONS | 20–200 μL | 51 mm | 960 | F172503 |
| | DF300ST REFILL VERSIONS | 10–300 μL | 51 mm | 960 | F172703 |
| | DF1000ST REFILL VERSIONS | 100–1000 μL | 66 mm | 960 | F172603 |
| | DF1200ST REFILL VERSIONS | 50–1200 μL | 84 mm | 960 | F172803 |
| **TIPACK** | DF10ST Filter TIPACK | 0.1–10 μL | 30 mm | 960 | F171103 |
| | DFL10ST Filter TIPACK | 0.1–10 μL | 45 mm | 960 | F171203 |
| | DF30ST Filter TIPACK | 2–30 μL | 51 mm | 960 | F171303 |
| | DF100ST Filter TIPACK | 10–100 μL | 51 mm | 960 | F171403 |
| | DF200ST Filter TIPACK | 20–200 μL | 51 mm | 960 | F171503 |
| | DF300ST Filter TIPACK | 10–300 μL | 51 mm | 960 | F171603 |
| | DF1000ST Filter TIPACK | 100–1000 μL | 66 mm | 960 | F171703 |
| | DF1200ST Filter TIPACK | 50–1200 μL | 84 mm | 960 | F171803 |

D10 are short collar tips. DL10 are long collar tips.

### EMPTY RELOAD BOXES

| Description | Qty/Pack | Part Number |
|---|---|---|
| Universal Reload Box (1 rack) for TOWERPACK | 1 | F167100 |
| Empty Box for Use With REFILL VERSIONS and RELOAD PACKS: DL10/DFL10ST  D200/DF30ST/DF100ST/DF200ST  D300/DF300ST | 2 | F171204 |
| Empty Box for Use With REFILL VERSIONS and RELOAD PACKS: D1000/D1200/DF1000ST/DF1200ST | 2 | F171504 |

### EMPTY RELOAD RACKS

| Description | Qty/Pack | Part Number |
|---|---|---|
| D10 Empty Racks for ECOPACK and EASYPACK | 2 | F171102 |
| DL10 Empty Racks for ECOPACK and EASYPACK | 2 | F171202 |
| D200 Empty Racks for ECOPACK and EASYPACK | 2 | F171302 |
| D300 Empty Racks for ECOPACK and EASYPACK | 2 | F171402 |
| D1000/D1200 Empty Racks for ECOPACK and EASYPACK | 2 | F171502 |
| D5000 Empty Rack for ECOPACK and EASYPACK | 1 | F161360 |
| D10mL Empty Rack for ECOPACK and EASYPACK | 1 | F161220 |

Universal Reload Box for use with TOWERPACKS.

Empty Box for use with REFILL VERSIONS and RELOAD PACKS.

Empty Rack for use with ECOPACK and EASYPACK loose tips.

### REFILL VERSIONS FOR PIPETMAX®268-CERTIFIED 384-WELL

| | Description | Volume Range | Tip Length | Qty/Pack | Autoclavable Tips Part Number | Sterilized Tips Part Number |
|---|---|---|---|---|---|---|
| **REFILL VERSIONS** | DSL10 REFILL VERSIONS 384-Certified | 0.1–20 μL | 45 mm | 960 | F172210 | F172211 |
| | DS200 REFILL VERSIONS 384-Certified | 2–200 μL | 51 mm | 960 | F172310 | F172311 |
| | DS1000 REFILL VERSIONS 384-Certified | 100–1000 μL | 66 mm | 960 | F172510 | F172511 |
| | D1200 REFILL VERSIONS 384-Certified | 50–1200 μL | 84 mm | 960 | F172800 | F172801 |
| **FILTER REFILL VERSIONS** | DSFL10ST REFILL VERSIONS 384-Certified | 0.1–10 μL | 45 mm | 960 | - | F172213 |
| | DSF30ST REFILL VERSIONS 384-Certified | 2–30 μL | 51 mm | 960 | - | F172313 |
| | DSF200ST REFILL VERSIONS 384-Certified | 20–200 μL | 51 mm | 960 | - | F172513 |
| | DSF1000ST REFILL VERSIONS 384-Certified | 100–1000 μL | 66 mm | 960 | - | F172613 |

# pipetman®

**EXPERT TIPS**

PIPETMAN EXPERT Tips are available in select countries only.

Universal fit PIPETMAN® EXPERT Tips are designed to fit leading pipette brands, allowing you to stock one brand of tips saving time, money, and bench space.

## PIPETMAN® EXPERT TIPS

| | Description | Volume Range | Tip Length | Pack Qty | Pack Part Number | Case Qty | Case Part Number |
|---|---|---|---|---|---|---|---|
| **FILTER TIPS** | EF10ST Sterilized Filter Tips | 0.1 - 10 µL | 28.83 mm | 960 | F1731031 | 4,800 | F1731032 |
| | EFL10ST Sterilized Filter Tips | 0.1 - 10 µL | 45.34 mm | 768 | F1732031 | 3,072 | F1732032 |
| | EF20ST Sterilized Filter Tips | 1 - 20 µL | 51.44 mm | 768 | F1733031 | 3,072 | F1733032 |
| | EF100ST Sterilized Filter Tips | 1 - 100 µL | 51.44 mm | 768 | F1734031 | 3,072 | F1734032 |
| | EF200ST Sterilized Filter Tips | 1 - 200 µL | 58.57 mm | 768 | F1735031 | 3,072 | F1735032 |
| | EF300ST XL Sterilized Filter Tips | 1 - 300 µL | 77.50 mm | 384 | F1736031 | 3,072 | F1736032 |
| | EF1000ST XL Sterilized Filter Tips | 50 - 1250 µL | 102.2 mm | 384 | F1737031 | 3,072 | F1737032 |
| **TIPACK** | E10 TIPACK | 0.1 - 10 µL | 28.83 mm | 960 | F1731001 | 4,800 | F1731002 |
| | EL10 TIPACK | 0.1 - 20 µL | 45.34 mm | 768 | F1732001 | 3,072 | F1732002 |
| | E200 TIPACK | 1 - 200 µL | 51.44 mm | 768 | F1733001 | 3,072 | F1733002 |
| | E300 TIPACK | 1 - 300 µL | 58.57 mm | 768 | F1736001 | 3,072 | F1736002 |
| | E1000 XL TIPACK | 50 - 1250 µL | 102.2 mm | 384 | F1735001 | 3,072 | F1735002 |
| **STERILIZED TIPACK** | E10ST Sterilized TIPACK | 0.1 - 10 µL | 28.83 mm | 960 | F1731011 | 4,800 | F1731012 |
| | EL10ST Sterilized TIPACK | 0.1 - 20 µL | 45.34 mm | 768 | F1732011 | 3,072 | F1732012 |
| | E200ST Sterilized TIPACK | 1 - 200 µL | 51.44 mm | 768 | F1733011 | 3,072 | F1733012 |
| | E300ST Sterilized TIPACK | 1 - 300 µL | 58.57 mm | 768 | F1736011 | 3,072 | F1736012 |
| | E1000ST XL Sterilized TIPACK | 50 - 1250 µL | 102.2 mm | 384 | F1735011 | 3,072 | F1735012 |
| **TOWERPACK** | EL10 TOWERPACK Reload System | 0.1 - 20 µL | 45.34 mm | 960 | F1732051 | 3,840 | F1732052 |
| | E200 TOWERPACK Reload System | 1 - 200 µL | 51.44 mm | 960 | F1733051 | 3,840 | F1733052 |
| | E300 TOWERPACK Reload System | 1 - 300 µL | 58.57 mm | 960 | F1736051 | 3,840 | F1736052 |
| | E1000 XL TOWERPACK Reload System | 50 - 1250 µL | 102.2 mm | 768 | F1735051 | 3,072 | F1735052 |
| | EL10 TOWERPACK Reload Kits | 0.1 - 20 µL | 45.34 mm | 960 | F1732061 | - | - |
| | E200 TOWERPACK Reload Kits | 1 - 200 µL | 51.44 mm | 960 | F1733061 | - | - |
| | E300 TOWERPACK Reload Kits | 1 - 300 µL | 58.57 mm | 960 | F1736061 | - | - |
| | E1000 TOWERPACK Reload Kits | 50 - 1250 µL | 102.2 mm | 768 | F1735061 | - | - |
| **MEGAPACK / EASYPACK** | EL10ST Sterilized MEGAPACK | 0.1 - 20 µL | 45.34 mm | 960 | F1732071 | 4,800 | F1732072 |
| | EL200ST Sterilized MEGAPACK | 1 - 200 µL | 51.44 mm | 960 | F1733071 | 4,800 | F1733072 |
| | EL10 EASYPACK | 0.1 - 20 µL | 45.34 mm | 1,000 | F1734511 | 10,000 | F1734512 |
| | E200 EASYPACK | 1 - 200 µL | 51.44 mm | 1,000 | F1739311 | 10,000 | F1739312 |
| | 10 µL Empty Racks | - | - | 1 | F1732021 | 24 | F1732022 |
| | 200 µL Empty Racks | - | - | 1 | F1733021 | 24 | F1733022 |
| | 300 µL Empty Racks | - | - | 1 | F1734021 | 24 | F1734022 |
| | 1000 µL Empty Racks | - | - | 1 | F1735021 | 16 | F1735022 |
| **GEL LOADING TIPS** | E10 Gel Loading Flat Tips | 0.1 - 10 µL | 45.72 mm | 200 | F1731181 | 800 | F1731182 |
| | E10 Gel Loading Round Tips | 0.1 - 10 µL | 45.72 mm | 200 | F1731281 | 800 | F1731282 |
| | E200 Gel Loading Flat Tips | 1 - 200 µL | 82.55 mm | 200 | F1733181 | 800 | F1733182 |
| | E200ST Sterilized Gel Loading Flat Tips | 1 - 200 µL | 82.55 mm | 200 | F1733381 | 800 | F1733382 |
| | E200 Gel Loading Round Tips | 1 - 200 µL | 82.55 mm | 200 | F1733281 | 800 | F1733282 |
| | E200ST Sterilized Gel Loading Round Tips | 1 - 200 µL | 82.55 mm | 200 | F1733481 | 800 | F1733482 |

Certified Free - RNase/DNase, Human DNA, Pyrogens, PCR Inhibitors

RNase/DNase
Human DNA
**CERTIFIED FREE**
Pyrogens
PCR Inhibitors

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# WIDE RANGE OF TIP PACKAGING

## TIPACK™

Filter, Autoclavable, Sterilized

Uniquely designed TIPACK features a dual-purpose lid

Hinged to easily open and close while using tips

Pull it out of the hinges to set on top or discard for high-throughput tip usage

**SHOP NOW**

## MEGAPACK

Autoclavable, Sterilized

Uses 70% less plastic

Sterilized MEGAPACKS give you the choice to expose 96 tips at a time or 192

Ideal for high throughput pipetting

**SHOP NOW**

## EASYPACK

Autoclavable

Purchase in bulk and save money by simply reloading these tips into empty racks

Resealable bags for easy access

EASYPACK: 5 bags x 200 tips

**SHOP NOW**

## TOWERPACK

A quick, easy and affordable rack refill system

Uses 60% less space on your bench and 70% less plastic than regular rack box

One-hand system operation

**SHOP NOW**

## Certified Contaminant Free

These tips are certified free of human DNA, RNases, DNases, PCR inhibitors, and pyrogens.

## Gilson Universal Fit Tips

Designed to fit perfectly and provide the best results with Gilson pipettes, the universal design of PIPETMAN EXPERT Tips allows them to be used with most leading pipette brands. Additionally, because of the universal fit, PIPETMAN EXPERT Tips allow you to stock up on one brand of tips with practical packaging options, saving you time, money, and bench space.

## Space Saving Environment Friendly Packaging

The Towerpack and MegaPack configurations allow labs to store more tips using less space on the bench. Less packaging material is used and the plastic is recyclable.

## Gel Loading Tip Solutions

Receive maximum accuracy and the best possible results when using PIPETMAN EXPERT long, round tips and the specially patented flat gel loading tips.

## Choose the Right Tip for Your Needs

From purity level to volume range, this handy interactive tip selection guide will help you find the perfect tip for your application. Download now to get a clear view of our entire pipette tips offering.

**Tools and Resources**
Poster: Filter Tips Compatibility Chart

GILSON TIPS SELECTION GUIDE

**Download Tip Selection Table**

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# microman®

E

## ERGONOMIC PIPETTING FOR NON-AQUEOUS LIQUIDS

MICROMAN® E positive-displacement pipettes, along with capillary pistons, offer the highest precision when ergonomically pipetting non-aqueous samples, such as viscous or volatile liquids. Capillary pistons eliminate the air cushion between the sample and disposable piston, ensuring the accuracy of the pipette is not affected by the physical properties of the sample.

### Contamination-Free Pipetting

Minimize the potential for pipette, sample, and human contamination with MICROMAN E. Dispose of the capillary piston (CP) tip safely and without hand contact by simply pushing the push button until the last stop.

### Reliable Results Even with Non-Aqueous Liquids

Whether a viscous, volatile, hot, or cold sample, MICROMAN E can handle the job with accuracy and precision. Have complete confidence in your results with the volume-control switch that reduces the risk of accidental volume change.

### Capillary Pistons

### 100% Protection Against Contamination

The disposable piston is located inside the capillary tip so users can be assured that no harmful samples will contaminate the pipette.

- No risk of chemical contamination
- Slender profile—fits most tubes

### Triple Protection

Positive-displacement technology is the ideal solution to prevent from aerosols contamination or sample carry-over, protecting the pipette, the user, and the sample.

Volume-control switch

#### Watch MICROMAN® E in action

VOLUME CONTROL SWITCH

**Watch Video**

### MICROMAN® E

| | Model | Capillary Piston | Part Number | Nominal Volume (µL) | Volume Range (µL) |
|---|---|---|---|---|---|
| | M10E | CP10 CP10ST | FD10001 | 10 | 1 - 10 |
| | M25E | CP25 CP25ST | FD10002 | 25 | 3 - 25 |
| | M50E | CP50 CP50ST | FD10003 | 50 | 20 - 50 |
| | M100E | CP100 CP100ST | FD10004 | 100 | 10 - 100 |
| | M250E | CP250 CP250ST | FD10005 | 250 | 50 - 250 |
| | M1000E | CP1000 CP1000ST | FD10006 | 1000 | 100 - 1000 |

**Full range of accessories can be found on .**

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### CAPILLARY PISTON

| | Capillary Piston Model | Volume Range | MICROMAN® E Model Compatibility | CP Qty/ Rack | Rack Qty/ Commercial Unit | CP Qty/ Commercial Unit | Part Number |
|---|---|---|---|---|---|---|---|
| TIPACK - Assembled CP | Capillary Piston 10 µL (CP10) | 1 - 10 µL | M10E | 96 | 2 | 192 | F148412 |
| | | | | | 10 | 960 | F148312 |
| | Capillary Piston 25 µL (CP25) | 3 - 25 µL | M25E | 96 | 10 | 960 | F148012 |
| | Capillary Piston 50 µL (CP50) | 20 - 50 µL | M50E | 96 | 10 | 960 | F148013 |
| | Capillary Piston 100 µL (CP100) | 10 - 100 µL | M100E | 96 | 2 | 192 | F148414 |
| | | | | | 10 | 960 | F148314 |
| | Capillary Piston 250 µL (CP250) | 50 - 250 µL | M250E | 96 | 10 | 960 | F148014 |
| | Capillary Piston 1000 µL (CP1000) | 100 - 1000 µL | M1000E | 91 | 2 | 182 | F148560 |
| TIPACK - Assembled Sterilized CP | Sterilized Capillary Piston 10 µL (CP10ST) | 1 - 10 µL | M10E | 96 | 2 | 192 | F148413 |
| | | | | | 10 | 960 | F148313 |
| | Sterilized Capillary Piston 25 µL (CP25ST) | 3-25 µL | M25E | 96 | 6 | 576 | F148712 |
| | Sterilized Capillary Piston 50 µL (CP50ST) | 20 - 50 µL | M50E | 96 | 6 | 576 | F148713 |
| | Sterilized Capillary Piston 100 µL (CP100ST) | 10 - 100 µL | M100E | 96 | 2 | 192 | F148415 |
| | | | | | 10 | 960 | F148315 |
| | Sterilized Capillary Piston 250 µL (CP250ST) | 50-250 µL | M250E | 96 | 6 | 576 | F148714 |
| | Sterilized Capillary Piston 1000 µL (CP1000ST) | 100 - 1000 µL | M1000E | 91 | 2 | 182 | F148180 |

### Tools and Resources

**Specsheet:** MICROMAN E Specifications

**Guide to Pipetting:** Tips from Our Experts

**Gilson Learning Hub Articles:** How Positive-Displacement Pipettes Help to Improve Your Results

Benefit from a special care with our flexible, tiered service level offerings, tailored to fit your lab's needs, while increasing the lifespan of your pipettes.

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# distriman®

## FASTER MULTIPLE DISPENSING

DISTRIMAN® is a positive-displacement, continuously adjustable, repetitive pipette with direct read out designed to simplify multiple dispensing when used with DISTRITIPS syringes. With DISTRIMAN, you can dispense the exact volume required for any protocol, even fractional volumes. It is ideal for repetitive dispensing in clinical, hospital, biological, chemical, food and beverage, pharmaceutical, cosmetics, and forensics labs.

### Simplifies Multiple Dispensing

Dispense exact volumes without tedious calculations and ensure optimal pipetting results even with volatile or viscous liquids.

### An Economical Solution

DISTRIMAN covers a large volume range with only three DISTRITIPS syringes, making it very economical. DISTRITIPS are available in standard or pre-sterilized form (boxes of 50).

DISTRIMAN is the only continuously adjustable mechanical repetitive pipette with direct volume readout available on the market.

| DISTRITIPS® | | | |
|---|---|---|---|
| DISTRITIPS (Pack of 50) | Aliquot Range | Part Number | Volume Range (µL) |
| 125 µL Micro Micro Pre-Sterile* | 1–12.5 µL | F164100 F164130 | 2-10 |
| 1250 µL Mini Mini Pre-Sterile* | 10–125 µL | F164110 F164140 | 20-100 |
| 12.5 mL Maxi Maxi Pre-Sterile* | 0.1–1.25 mL | F164120 F164150 | 200-1000 |

| DISTRIMAN® | |
|---|---|
| Description | Part Number |
| DISTRIMAN (1 µL to 1.25 mL) | F164001 |

CV means Coefficient of Variation (%)
*Pre-sterile refers to sterility assurance level between SAL10$^{-2}$ and SAL10$^{-5}$ (individually wrapped).

### Tools and Resources

**Specsheet:** Pipette Specifications

**Guide to Pipetting:** Tips from Our Experts

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# macroman®

## THE EFFICIENT SOLUTION FOR PIPETTING UP TO 100 MILLILITERS AT ONCE

MACROMAN is a reliable pipette controller which can be used with glass and plastic serological pipettes from 1 to 100 mL, with a total volume range from 0.1 to 100 mL.

### Optimal Speed Control

The aspirating and dispensing speed can be set using pressure sensitive triggers while pipetting. A maximum speed can be set by using the thumbwheel to prevent from over aspiration.
The speed is adjustable up to 25 mL in less than three seconds.

The screen continuously displays battery status as well as the aspiration and dispensing speed setting.

### Comfortable Use

Prevent hand fatigue with MACROMAN's ergonomic handle featuring wide triggers for maximum comfort and stress-free pipetting.

The Lithium-Ion battery enables a longer, vibration-free use with more than 10h of autonomy.

Increase precision by choosing your flow rate mode from slow drops to rapid dispensing.

All stands are included with MACROMAN for stable and easy storage on the bench.

The side stand allows the MACROMAN to be set down quickly between pipetting operations, preventing from contamination of the serological pipette or benchtop.

| MACROMAN® | | |
|---|---|---|
| Description | Volume Range | Part Number |
| MACROMAN | 0.1 to 100 mL | F110120 |

| MACROMAN ACCESSORIES | |
|---|---|
| Description | Part Number |
| Charging desk stand | F107200 |
| Wall mount | F107201 |
| Magnetic wall mount | F107202 |
| Filter, 0.22 µm, standard (set of 10) | F107204 |
| Filter, 0.22 µm, sterile (set of 10) | F107205 |
| Filter, 0.45 µm, standard (set of 10) | F107206 |
| Filter, 0.45 µm, sterile (set of 10) | F107207 |
| Power supply | F107203 |
| Lithium-Ion battery | F107208 |
| Nosepiece | F107209 |
| Adjustable side stand | F107210 |
| Pipette adaptor | F107211 |

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# serological
**PIPETTES**

## OPTIMIZED PIPETTING CONTROL

Ideal for scientists who need to easily and quickly transfer liquid aliquots from one container to another with precision, the Gilson disposable plastic serological pipettes are perfect for use with MACROMAN® to help you in your daily cell-culture, molecular biology, and microbiology applications.

### Reliable

Gilson serological pipettes are made with USP Class VI polystyrene and are free of contaminants that can alter your experiment. They are gamma-sterilized, non-pyrogenic, and certified free of detectable RNase/DNase. The polyester fiber plug provides a high level of protection against over-pipetting and contamination by liquids and aerosols.

### Easy Volume Control

Our serological pipettes offer precise volume control and have color-coded rings for easy size identification, as well as dark ascending and descending graduations so you can easily read the aspirated and dispensed volumes. They also have negative graduations for extra capacity.

### Flexible

Available in models ranging from 1 to 50 mL, these serological pipettes are recommended for use with MACROMAN but can also be used with any pipette controller. They enable precise and convenient dispensing of different kinds of liquids for a variety of tasks.

| SEROLOGICAL PIPETTES | | | | |
|---|---|---|---|---|
| Description | Qty/ Case | Part Number | Volume | Ring |
| 10 bags of 100 sterile, individually wrapped units | 1000 | F110122 | 1 mL | 🟡 |
| | 1000 | F110124 | 2 mL | 🟢 |
| 4 bags of 50 sterile, individually wrapped units | 200 | F110126 | 5 mL | 🔵 |
| | 200 | F110128 | 10 mL | 🔴 |
| | 200 | F110130 | 25 mL | 🟣 |
| 4 bags of 25 sterile, individually wrapped units | 100 | F110131 | 50 mL | ⚫ |

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# platemaster®

## FAST MICROPLATE PIPETTING

PLATEMASTER® is an easy-to-use solution for high throughput pipetting of 96- and 384-well microplates.

### Save Time and Increase Your Productivity

PLATEMASTER's 96-channel design greatly reduces the number of pipetting steps necessary to fill a microplate when compared to using regular manual multichannel pipettes. With PLATEMASTER, the time taken to fill 96-well microplates is significantly reduced to approximately 10-20 seconds or less, and 384-well microplates can typically be filled in less than a minute in only four pipetting steps.

### Simplifies Sample Prep

Using PLATEMASTER for higher throughput applications reduces the risk of human error. In a single motion, accuracy and precision levels can equal that of an 8- or 12-channel pipette, while avoiding the risk of skipping or repeating wells. Additionally, all enzymatic reactions and cell-based applications across all wells can be started and stopped at the same time. From 0.5 µL to 220 µL pipetting volumes, expect improved well-to-well and plate-to-plate reproducibility.

### Convenient for any Microplate Application

PLATEMASTER is as simple as a PIPETMAN® and does not require programming, long training, or power for use. Through a variety of accessories, such as adapters for loading 384-well microplates, reagent reservoirs, or sample heater blocks, PLATEMASTER can be fully adapted to a variety of application needs. Its compact and portable design easily integrates into the lab, allowing it to fit on most benchtops, under hoods, or in cold rooms.

### Watch PLATEMASTER in action

**Watch Video**
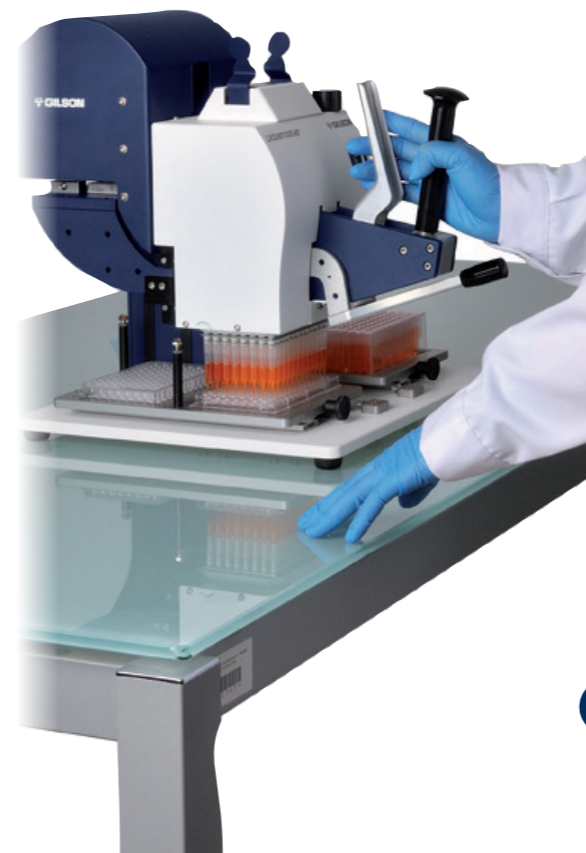
| PLATEMASTER® | | | | |
|---|---|---|---|---|
| Model | PIPETMAN® DIAMOND Tips | | Part Number | Volume Range (µL) |
| P20 | D200 DS200** | D200ST DS200ST** | DF100ST DF200ST DFS200ST** | F110761 | 0.5-20 |
| P220 | D200 DS200* D300 | D200ST | DF200ST DFS200ST** DF300ST | F110762 | 2-220 |

*Validated for use with 384-well plates | ** Can pipette up to 200 µL only

| PLATEMASTER® ACCESSORIES | |
|---|---|
| Description | Part Number |
| 384-well adapter, positioned by wheel | F1077602 |
| 384-well adapter, positioned by hand | F1077603 |
| Alu-heater block for PLATEMASTER, 96 x 0.2 mL, for PCR tubes, stripes, and PCR plates Ø 7.8 mm | F1077604 |
| Pipetting head height adjusters (2 units) | F1077605 |
| Lubrication box of O-rings PLATEMASTER | F1077606 |
| AmpliPur® Expert Tips Pin-plate Assembly for PLATEMASTER® | F110765 |
| AmpliPur® Expert Tips Reload Block (pack of 2) for PLATEMASTER® | F110766 |

**Tools and Resources**
**Specsheet:** Pipette Specifications

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# pipetman®

**M96**

## QUICKLY AND EFFICIENTLY PIPETTE IN MICROPLATES WITH CONFIDENCE

Increase the productivity of your workflows with the all-in-one, simple, and intuitive PIPETMAN® M96, a convenient and intuitive air displacement electronic pipette for high-throughput pipetting on 96- and 384-well microplates.

### Smart and Easy 96-channel Motorized Pipette

The intuitive interface on a large touchscreen assists you during your pipetting, whatever the application. Pipetting on 96-well microplates has never been this simple!

Create your protocols and choose your preferred pipetting parameters to handle various workflows.

### Flexible

PIPETMAN M96 is compatible with a large variety of SBS-standard labware, and addresses different working habits with its pipetting options and improved ergonomics.

Different packaging types of PIPETMAN® DIAMOND Tips can be used with PIPETMAN M96. Optimized accessories allow for a better-organized working space with no additional footprint.

### Confidence and Improved Productivity

PIPETMAN M96 reproducibility eliminates any variability caused by repetitive pipetting tasks.

Results are reliable even at a high throughput thanks to the Gilson repeatability and performance standards.

**SCAN ME!**

Scan the QR code for more information.

| PIPETMAN® M96 | | | | |
|---|---|---|---|---|
| Model | Part Number | **Volume Range** | | |
| | | Standard Pipette Mode | Repetitive Mode | Custom Mode |
| P96x20M Connected | **FH10001** | 2-20 µL | 1-20 µL | 1-20 µL |
| P96x200M Connected | **FH10002** | 10-200 µL | 5-200 µL | 10-200 µL |
| P96x20M | **FH10003** | 2-20 µL | 1-20 µL | 1-20 µL |
| P96x200M | **FH10004** | 10-200 µL | 5-200 µL | 10-200 µL |

### Watch PIPETMAN M96 in action

**PRECISE**
96 CHANNEL PIPETTING

**Watch Video**

Rotating reversible tray 96-96 well sides

A

B

Rotating reversible tray 96 well left side – 384 well right side or Rotating reversible tray 384-384 well sides

2

Single reversible tray 96-384 well sides

1

C

Multi-tray for 96- and 384-well microplates

### Complete Your PIPETMAN M96 with Accessories

PIPETMAN M96 is a compact, electronic 96-channel pipette equipped with accessories for optimal use with various SBS-size microplates and labware.

| Part Description | | Part Number |
|---|---|---|
| 1 | Multi-tray for 96- and 384-well microplates | FH07005 |
| 2 | Rotating reversible tray 96 well left side – 384 well right side | FH07004 |
| | Rotating reversible tray 384-384 well sides | FH07003 |
| B | Rotating reversible tray 96-96 well sides (provided with the pipette, and available as an extra accessory) | FH07002 |
| C | Single reversible tray 96-384 well sides (provided with the pipette, and available as an extra accessory) | FH07001 |

● Included in the PIPETMAN M96 box | ● Sold separately
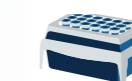
PIPETMAN DIAMOND® Tips are designed to fit your PIPETMAN M96 perfectly and guarantee maximum accuracy and precision.

### Tools and Resources
**Tips and Tricks:** PIPETMAN M96 Tips and Tricks
**Specsheet:** Pipette Specifications

PIPETMAN M96 Connected models are available in the same countries as PIPETMAN® M Connected models. Please contact your Gilson representative for more details.

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# verity®

## DILUTER DISPENSER

The VERITY® Diluter Dispenser is a semi-automatic system for the continuous dispensing of liquids. The VERITY Diluter Dispenser allows you to create and manage pipetting protocols to accurately dispense bulk reagents, perform serial dilutions and titrations, create standards, and much more. When you need more throughput, the VERITY Diluter Dispenser delivers faster, more automated repetitive dispensing than repeaters and electronic pipettes in an easy-to-use, ergonomic design.

### Accommodate Your Needs From Lab to Scale-Up

With an available range of syringes from 100 µL to 25 mL, as well as two valve configurations, the VERITY Diluter Dispenser covers a large volume range that will handle all your needs from research to scale-up.

### A Simpler Step to Automation

With a VERITY® Syringe Pump, an integral part of your VERITY Diluter Dispenser system, you can upgrade to a fully automated Gilson liquid handling solution when the need for increased throughput arises, making it the first step to automating liquid handling in your laboratory.

### VERITY Diluter Dispenser App

The VERITY DD app allows you to create and execute methods and assists applications like titration and continuous dispensing. Comprehensive and intuitive screens guide you through the process.

| VERITY® DILUTER DISPENSER | |
|---|---|
| Description | Part Number |
| VERITY® Diluter Dispenser Single Syringe System with Probe | 31430002 |
| VERITY® Diluter Dispenser Single Syringe System without Probe | 31430001 |
| VERITY® Diluter Dispenser Dual Syringe System with Probe | 31430004 |
| VERITY® Diluter Dispenser Dual Syringe System without Probe | 31430003 |
| VERITY® DILUTER DISPENSER COMPONENTS AND ACCESSORIES | |
| VERITY® Diluter Dispenser System Controller only | 31031001 |
| VERITY® DD Controller Stack for Dual Syringe Pumps | 31030086 |
| VERITY® Dual Valve Connecting Kit | 2644708 |

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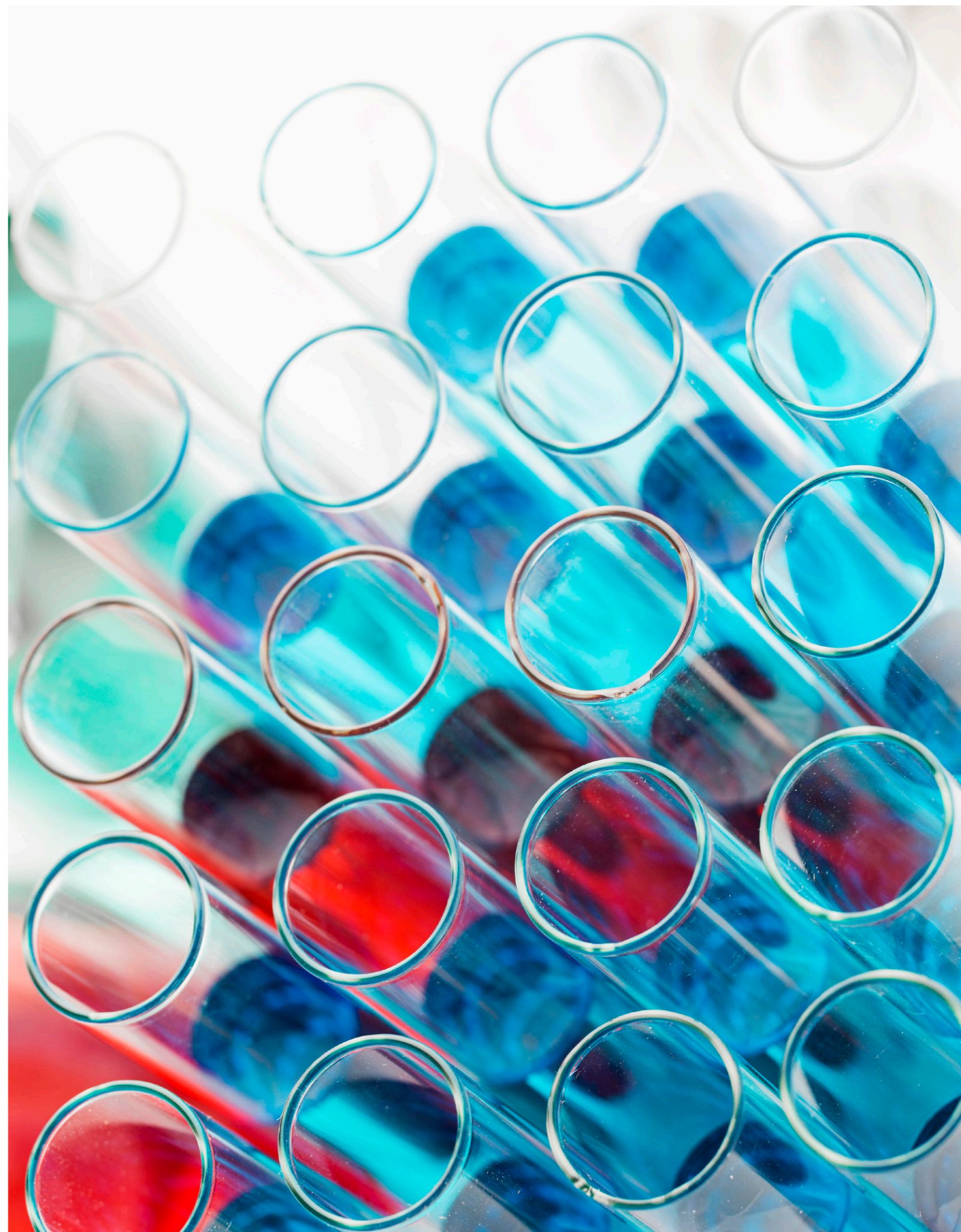
# safe aspiration

## QUICK AND EASY ASPIRATION OF LIQUID WASTE

The Safe Aspiration Station is a stand–alone motorized vacuum unit, ideal for cell culture, ELISA tests, and liquid waste disposal. The closed unit is designed to prevent contamination hazards, and all parts in contact with liquids are fully autoclavable. Associated with the Safe Aspiration Kit, which includes a set of different adapters, the Safe Aspiration Station is easy to use on a bench or in laminar flow cabinets.

### Safe and Contamination–Free

The closed, stand-alone unit is designed to prevent contamination hazards. All parts in contact with liquids are fully autoclavable. The station is equipped with a 4-liter Popyproplene (PP) bottle, a level detection system to prevent liquid overflow, and an in-line hydrophobic filter that traps aerosols for safe disposal of contaminated or hazardous liquids.

### Adaptable

The wide range of accessories included in the Safe Aspiration Kit, combined with the adjustable aspiration level of the Safe Aspiration Station, indicated by a board of LEDs, enable quick and accurate aspiration of liquids from a variety of vessels.

### Convenient

Simply push and pull the chosen accessory in the hand operator and press or lock the button for effortlessly continuous aspiration.

The ergonomic hand operator can be stored on the stand of the Safe Aspiration Kit and or on the Safe Aspiration Station bottle handle to keep your workspace clean and organized.

**Tools and Resources**
**Specsheet:** Safe Aspiration Station Specifications

### SAFE ASPIRATION STATION

| Description | Part Number |
|---|---|
| Safe Aspiration Station, EU Plug | F110744 |
| Safe Aspiration Station, UK Plug | F110746 |
| Safe Aspiration Station, AU Plug | F110747 |
| Safe Aspiration Station, JP Plug | F110748 |
| Safe Aspiration Station, US Plug | F110745 |
| Safe Aspiration Station, CN Plug | F110749 |

### SAFE ASPIRATION KIT

| Description | Part Number |
|---|---|
| Safe Aspiration Kit | F110760 |

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# dispensman®

## DISPENSE LIQUIDS SIMPLY AND ACCURATELY

DISPENSMAN® is a bottle-top dispenser for convenient, safe, and precise delivery of common laboratory solutions and solvents. Its innovative, three-position nozzle controls the dispensing of liquids, the removal of air in the system to avoid liquid loss, and includes an anti-drip safety feature that returns liquid to the bottle.

### Precise

Dispense just the liquid needed every time with a quick, easy, and precise volume setting.

### No Loss of Liquid

Prime your operation by purging the air in RECYCLE position keeping the liquid inside the bottle and avoiding any loss of liquid.

### Safe

Keep your bench and other devices safe with the anti-drip system and the return of liquid into the bottle after use.

### Flexible

- Numerous bottle adaptors
- Adaptable to every type of liquid with an easy calibration by the user
- Fully autoclavable at 121°C
- Convenient 3-position nozzle

### DISPENSMAN®

| Model | Part Number | Volume Range (mL) | Scaling (mL) |
|---|---|---|---|
| DISPENSMAN 2.5 mL | F110101 | 0.25–2.5 mL | 0.05 |
| DISPENSMAN 5.0 mL | F110102 | 0.5–5 mL | 0.10 |
| DISPENSMAN 10 mL | F110103 | 1–10 mL | 0.20 |
| DISPENSMAN 25 mL | F110104 | 2.5–25 mL | 0.50 |
| DISPENSMAN 50 mL | F110105 | 5–50 mL | 1.00 |

**Tools and Resources**
**Specsheet:** Pipette Specifications
**Chemical Compatibilité:** DISPENSMAN Chemical Compatibility Chart
**Guide to Pipetting:** Tips from Our Experts

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# digital dry bath

SERIES

## UNIFORM TEMPERATURE DELIVERY FOR A VARIETY OF TUBE SIZES

The compact Digital Dry Bath Series delivers precise temperatures to your samples using digital temperature and time controls with built-in calibration functionality, improving reliability and reproducibility. The aluminum blocks (sold separately) accommodate tubes from 0.5–50 mL. Custom blocks are available.

**Aluminum blocks are sold separately**
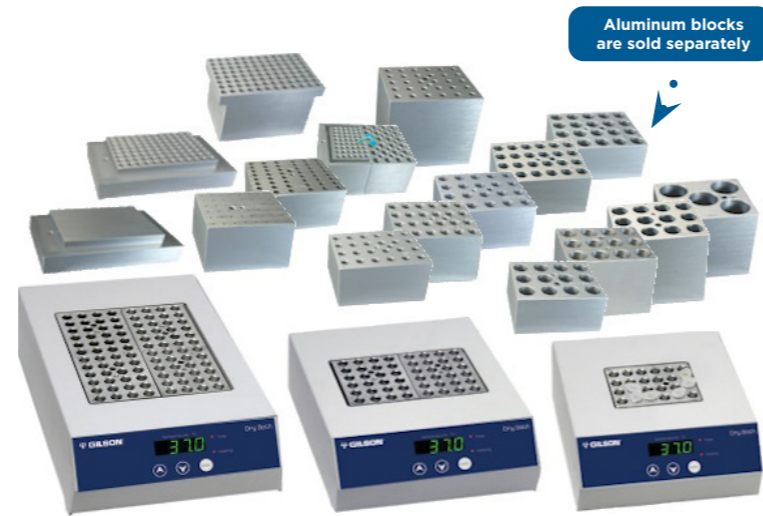
| DIGITAL DRY BATH SERIES | | | | | |
|---|---|---|---|---|---|
| **One-Block Digital Dry Bath** | | **Two-Block Digital Dry Bath** | | **Four-Block Digital Dry Bath** | |
| Description | Part Number | Description | Part Number | Description | Part Number |
| One-Block Digital Dry Bath 115V, US Plug | 36110300 | Two-Block Digital Dry Bath 115V, US Plug | 36110400 | Four-Block Digital Dry Bath 115V, US Plug | 36110500 |
| One-Block Digital Dry Bath, 230V, EU Plug | 36110310 | Two-Block Digital Dry Bath, 230V, EU Plug | 36110410 | Four-Block Digital Dry Bath, 230V, EU Plug | 36110510 |
| One-Block Digital Dry Bath, 230V, UK Plug | 36110320 | Two-Block Digital Dry Bath, 230V, UK Plug | 36110420 | Four-Block Digital Dry Bath, 230V, UK Plug | 36110520 |

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# roto-mini

PLUS

## FLEXIBLE VARIABLE SPEED ROTATOR FOR A RANGE OF APPLICATIONS

With speeds from 5–70 rpm, the Roto-Mini Plus variable speed rotator offers three operational mixing modes (Mix, Pause, and Rock) and accommodates standard tube sizes from 0.5–50 mL, making it a flexible addition to any lab.

Visit **www.gilson.com**  **SHOP NOW**

| ROTO-MINI PLUS | |
|---|---|
| Description | Part Number |
| Roto-Mini Plus with tube holders, 115V, US Plug | 36110100 |
| Roto-Mini Plus with tube holders, 230V, EU Plug | 36110110 |
| Roto-Mini Plus with tube holders, 230V, UK plug | 36110120 |

# mini vortex

MIXER

## SMALL SIZE, POWERFUL MIXING

With touch-activated operation, the Mini Vortex Mixer delivers a fixed speed of 2,800 rpm for mixing tubes up to 50 mL. The entire operation is quiet, smooth, and contained in a small footprint.

Visit **www.gilson.com**  **SHOP NOW**

| MINI VORTEX MIXER | |
|---|---|
| Description | Part Number |
| Mini Vortex Mixer, 100–240V, US Plug | 36110700 |
| Mini Vortex Mixer, 100–240V, EU Plug | 36110710 |
| Mini Vortex Mixer, 100–240V, UK Plug | 36110720 |

# vortex

## MAXIMIZE MIXING, MINIMIZE NOISE, AND VIBRATION

With a unique counter-balance system, the powerful Vortex Mixer offers instant vortex mixing without noise and vibration. The mixer features both touch and continuous operation with speeds from 200–3,200 rpm and can be used in a range of temperature environments (+4–65°C). Several optional mixing heads are available.

| VORTEX MIXER | |
| --- | --- |
| Description | Part Number |
| Vortex Mixer with standard cup head, 115V, US Plug | 36110740 |
| Vortex Mixer with standard cup head, 230V, EU Plug | 36110750 |
| Vortex Mixer with standard cup head, 230V, UK Plug | 36110760 |

| ACCESSORIES | |
| --- | --- |
| Description | Part Number |
| Vortexer Flat head | 36117310 |
| COMBO™ Head | 36117320 |
| Optional Foam Rack for 12 x 15mL tubes | 36117330 |
| Optional Foam Rack for 5 x 50 mL tubes | 36117340 |
| Horizontal Head, for 12 x 1.5 mL | 36117350 |
| Horizontal Head, for 4 x 15 mL | 36117360 |
| Horizontal Head, for 2 x 50 mL | 36117370 |

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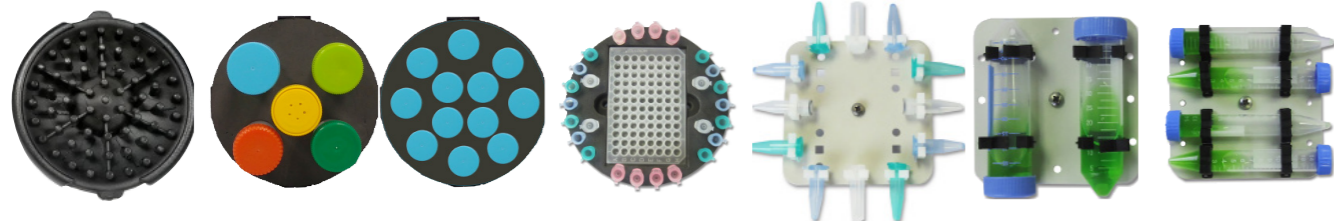
# digital mini

## SELF-CONTAINED TEMPERATURE CONTROLS IMPROVE INCUBATION ACCURACY

Using digital temperature controls, the Digital Mini Incubator allows you to accurately set the internal temperature without an external thermometer. The compact incubator accommodates 2 L flasks and has a built-in internal universal outlet for other electrical connections. Models for heating only or heating and cooling are available.

**Two Models are Available:**

- Heat only—temperature range of 5°C above ambient to 60°C
- Heat and cooling—temperature range of 15°C below ambient to 60°C*

| DIGITAL MINI INCUBATOR | |
| --- | --- |
| Description | Part Number |
| Digital Mini Incubator, with heating only 100–230V US Plug | 36110800 |
| Digital Mini Incubator, with heating only 100–230V, EU Plug | 36110810 |
| Digital Mini Incubator, with heating only 100–230V, UK Plug | 36110820 |
| Digital Mini Incubator, with heating and cooling 100–230V, US Plug | 36110840 |
| Digital Mini Incubator, with heating and cooling 100–230V, EU Plug | 36110850 |
| Digital Mini Incubator, with heating and cooling 100–230V, UK Plug | 36110860 |

| ACCESSORY | |
| --- | --- |
| Description | Part Number |
| Extra Shelf 10.5 x 8" | 36117380 |

* Minimum temperature is approx. 7°C in 22°C room temp.

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# centry™ 103

## QUICK AND SAFE SAMPLE CENTRIFUGATION

The CENTRY™ 103 Minicentrifuge is an easy-to-use and portable benchtop device ideal for the quick separation of particles from a supernatant. It also enables a quick spin down of a drop of liquid from the walls of microtubes.

### Reliable and Safe

The CENTRY 103 Minicentrifuge integrates several safety features: it automatically stops after six minutes of continuous spinning, opening the lid anytime engages the brake, a pinch-type connector tightly secures the rotor, and a red light indicates when the power is switched on.

Rotor for two tube–strips Included

### User-Friendly

Thanks to its ergonomic design, small footprint, and optional battery control, the CENTRY 103 Minicentrifuge can be used anywhere. The quick and easy starting and ending operations are controlled by pressing down on the lid.

The CENTRY 103 Minicentrifuge promptly reaches a fixed speed of 6,000 rpm, without adjustment. This minicentrifuge comes withcomes with two high-quality, easy-to-change rotors that can be used with microtubes or tube strips. The round rotor has a capacity of eight 1.5 mL or 2 mL microtubes, and the two tube-strips rotor has a capacity of two lines of eight connected 0.2 mL microtubes.

### Watch CENTRY 103 Minicentrifuge in action

CENTRY™ 103 Minicentrifuge

User-Friendly
Simple Operation
Reliable and Safe

**Watch Video**

| CENTRY™ 103 MINICENTRIFUGE | |
|---|---|
| Description | Part Number |
| CENTRY 103 Minicentrifuge (Universal Plug) | F110736 |

**Tools and Resources**
Specsheet: CENTRY 103 Minicentrifuge Specifications

Visit **www.gilson.com**   **SHOP NOW**

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# centry™ 117

## IMPROVED TEMPERATURE STABILITY KEEPS SAMPLES SAFE

Reaching speeds of up to 13,500 rpm, the CENTRY™ 117 Microcentrifuge has an easy-to-use touchscreen and built-in timer and offers one-button recall of up to nine stored custom run programs. Its proprietary air-flow system ensures temperature stability, preserving sample integrity on extended runs. The rotor design accommodates either 1.5–2.0 mL tubes or PCR strips.

| CENTRY™ 117 MICROCENTRIFUGE | |
|---|---|
| Description | Part Number |
| CENTRY 117 Microcentrifuge, 115V, US Plug | 36110200 |
| CENTRY 117 Microcentrifuge, 230V, EU Plug | 36110210 |
| CENTRY 117 Microcentrifuge, 230V, UK Plug | 36110220 |

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# centry™ 101

## NO MORE SPILLS WITH SPECIAL ROTOR DESIGN

With its patented swing-out rotor design, the CENTRY™ 101 Plate Centrifuge prevents microplate contents from spilling, increasing the reliability of your reactions. The two-plate capacity centrifuge accepts most popular PCR plates and microplates and easily fits into hoods and on crowded benchtops.

| CENTRY™ 101 PLATE CENTRIFUGE | |
|---|---|
| Description | Part Number |
| CENTRY 101 Plate Centrifuge, 115V, US Plug | 36117390 |
| CENTRY 101 Plate Centrifuge, 230V, EU Plug | 36117400 |
| CENTRY 101 Plate Centrifuge, 230V, UK Plug | 36117410 |

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# FRACTION COLLECTORS

## IDEAL SOLUTIONS FOR SMALL TO LARGE CAPACITY COLLECTION

Gilson offers advanced solutions for fraction collection from small-footprint to large capacity models. The collectors accommodate a wide variety of collection vessels, including microplates, vials, and tubes. The built-in, easy-to-use keypad makes setup and operation simple. The fraction collectors can be used standalone or controlled by TRILUTION® LC software. The compact size fits most fume hoods to protect you from hazardous materials.

### Powerful Fraction Collection Capabilities

| Collection Mode | Without Diverter Valve | With Diverter Valve |
|---|---|---|
| Time | X | X |
| Drop | X | X |
| Peak | | X |
| Time Windows | | X |

Multiple Fraction Collection possibilities:

- The 3-way diverter valve allows to divert column void volumes, peaks of no interest, and equilibration volumes to a waste vessel.

- Easy integration into any system due to multiple Input/Output contacts connection, making them the preferred choice for a range of separation applications such as FPLC, FLASH chromatography, or HPLC.

- Optional multicolumn adapters are available for parallel collection from multiple channels.

FC 203B
Fraction Collector

The FC 203B Fraction Collector is commonly configured with a MINIPULS 3 for low pressure chromatography or any fractionation system.
- Holds one rack to perform
  - Up to 128 fractions (12x75mm tubes)
  - Up to 105 fractions (13x100mm tubes)
  - One shallow- or deep-well microplate
- Available with and without diverter valve
- Optional multicolumn adapter to collect from up to 8 separate channels in parallel

| FC 203B Fraction Collector | |
|---|---|
| **Description** | **Part Number** |
| FC 203B, 110/220 V | 171011 |
| FC 203B with 3-way valve | 171011DV |

**REQUEST A QUOTE**

FC 204
Fraction Collector

The FC 204 Fraction Collector is ideal for collecting fractions from a liquid chromatography system from analytical to preparative flow rates. Associated with a peristaltic pump, it can offer a quick installed and low-cost tubing filling system with a small footprint for use in biosafety cabinets with an easy-to-sterilize flow path for minimized contamination.
- Holds four racks to collect
- Up to 240 fractions (13x100mm tubes)
- Up to 176 fractions (18x180mm tubes)
- Up to eight shallow or deep-well microplates
- Available with a 3-way diverter valve for flow up to 20 mL/min or for flow up to 200 mL/min
- Optional multicolumn adapter allows for collection from up to 18 separate channels in parallel

| FC 204 Fraction Collector | |
|---|---|
| **Description** | **Part Number** |
| FC 204, 110/220 V | 171041 |
| FC 204, 110/220V, 200ML/MIN | 171043 |

**REQUEST A QUOTE**

# LIQUID HANDLERS

Gilson liquid handling tools deliver the precise control you need for sample and reagent volume transfers, ensuring reproducible results while making life in the lab easier. Beginning with the legendary PIPETMAN® technology, our liquid handling tools have evolved with your needs. We offer completely automated liquid handling systems.

## SELECTION GUIDE

**GX-271 Liquid Handler**

The GX-271 Liquid Handler offers a small footprint, medium capacity liquid handler and autosampler. This system offers small-to-large volume injection, fraction collection, and liquid handling capabilities. Its optional dynamic syringeless pumping system is capable of delivering microliters to hundreds of milliliters, with no change in hardware.

**Learn more**

**GX-274 Liquid Handler**

The GX-274 Liquid Handler increases the throughput and efficiency of liquid transfers, serial dilutions, and other common tasks by processing up to four samples in parallel.

**Learn more**

**GX-281 Liquid Handler**

This GX-281 Liquid Handler provides a versatile, large capacity platform that can be configured for injection, fraction collection, and re-injection as part of a semi-preparative or preparative HPLC purification system. With optional accessories, it can also be used as a flexible liquid handler for performing a wide variety of automated, unattended liquid handling applications.

**Learn more**

**PIPETMAX 268®**

PIPETMAX® 268 is an automated pipetting solution for the efficient processing of high-throughput biological assays. It will help you to improve on the accuracy, reproducibility, and consistency among all samples processed. Unlike traditional automation platforms, PIPETMAX 268 comes in a benchtop size that easily fits into any lab.

**Learn more**

# gx-274

## LIQUID HANDLER

The GX-274 Liquid Handler maximizes throughput by processing up to four samples in parallel. Its small footprint and multiple probes make it the ideal choice for high-throughput automation. It generates reproducible and efficient liquid transfers, serial dilutions, and other common tasks.

### Parallel Processing for Maximum Efficiency

The four-probe Z-arm enables the processing of four samples in parallel, increasing throughput and efficiency.

### Intuitive Error Handling for Trusted Results

The syringe pump delivers accurate volume dispensing. Innovative jet wash rinse stations minimize carryover and cross-contamination.

### Versatile Software Control for Optimized Productivity

TRILUTION® Software allows for multiple liquid handling applications on the same system. Process samples in either batch or sequential mode to optimize throughput and efficiency. Perform multiple elution and parallel solvent testing to quickly automate and optimize method development.

**Tools and Resources**
**Reference Guide:** Probe Reference Guide

**REQUEST A QUOTE** Visit www.gilson.com

# pipetmaX® 268

## MAXIMIZE REPRODUCIBILITY OF YOUR BIOLOGICAL SAMPLE PREP

Increase reproducibility and the pace of your experiments with this easy-to-use, affordable, and automated liquid handling platform.

### Upgrade to Automation for Reliable, Accurate Pipetting

Protect your important samples from procedural errors and maximize accuracy and precision with fully automated pipetting protocols utilizing PIPETMAN® technology.

### Free Yourself from Tedious Sample Prep Work

Let PIPETMAX® 268 prepare samples for you! Enjoy more freedom away from the bench and focus on what's important—your next discovery.

### Stay Flexible—For Now And For The Future

Using any reagent or kit, adapt your pipetting protocols to meet the unique needs of your research.

### PIPETMAN Inside

With PIPETMAN technology inside, you can trust your pipetting to be reliable and consistent plate-to-plate, lot-to-lot, and time-after-time.

### Watch PIPETMAX 268 in action

**Watch Video**

### TRILUTION® micro Software

TRILUTION micro Software is an easy-to-learn software package for PIPETMAX 268, which streamlines steps for runtime workflows. The qPCR Assistant and Normalization Assistant add-ons automate repetitive steps, tedious calculations, and sample tracking, improving reliability and traceability for PCR/qPCR and normalization runs.
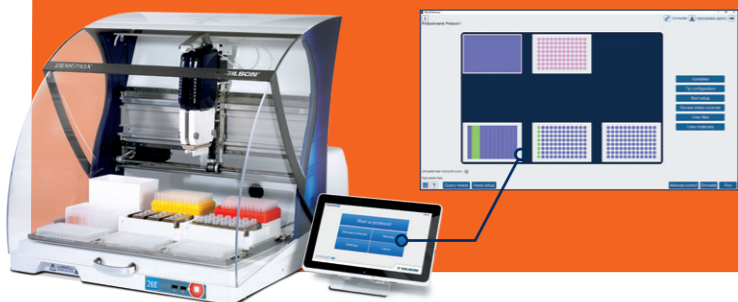
## PIPETMAX® 268

| Specification | Description |
|---|---|
| Removable Tray Capacity | Two options:<br>9-position removable tray (microplate footprints, but not for 384-well microplates)<br>9-position removable tray for 384-well microplates |
| Control | Touchscreen tablet or PC control via USB and TRILUTION® micro software |
| Pipette Head Options | Eight channel 1 µL – 20 µL<br>Eight channel 20 µL – 200 µL<br>Four channel 100 µL – 1200 µL<br>Single channel 1000 µL |
| Pipette Head Mounts | Two PIPETMAX 268 pipetting heads |
| Labware Compatibility | Standard shallow- and deep-well microplates and microcentrifuge tubes |
| Dimensions (W x D x H) | **PIPETMAX 268 with rotating cover**<br>54.4 x 65.5 x 53.1 cm (21.4 x 25.8 x 20.9 in)<br><br>**PIPETMAX 268 with rotating cover installed on optional riser assembly for off-bed tip disposal**<br>54.4 x 65.5 x 69.6 cm (21.4 x 25.8 x 27.4 in)<br><br>**PIPETMAX 268 without cover**<br>50.8 x 64.3 x 49.5 cm (20 x 25.3 x 19.5 in)<br><br>**PIPETMAX 268 without rotating cover installed on optional riser assembly for off-bed tip disposal**<br>52.3 x 65 x 65.8 cm (20.6 x 25.6 x 25.9 in) |
| Environmental Conditions | Indoor use<br>Altitude: up to 2000 m<br>Temperature range: 5°C–40°C<br>Humidity: Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C |

## ACCESSORIES

| Part Number | Description |
|---|---|
| FC10022 | PIPETMAX 268 MAX8X20 Pipette Head |
| FC10021 | PIPETMAX 268 MAX8X200 Pipette Head |
| FC10023 | PIPETMAX 268 MAX4x1200 Pipette Head |
| 32000391 | PIPETMAX 268 D1200 Tip Reload Box |
| 32000274 | Tip Disposal Bin |
| 32000177 | PIPETMAX 268 Riser Off-Bed Tip Disposal |
| 32000340 | TRILUTION micro V3 for PC |
| 32000341 | PIPETMAX 268 Standard V3 Tablet Kit |

**Tools and Resources**
**Application Notes :** PIPETMAX 268 Learning Hub

**SHOP NOW**     Visit **www.gilson.com**

# LIQUID HANDLING PUMPS

Gilson provides loading systems, allowing for sample transfers and other liquid handling tasks. These reliable systems can fit in any automated liquid handling platform or in HPLC semi-preparative and preparative systems.

## SELECTION GUIDE

### High Performance Liquid Transfer

High-performance, low-pulse, peristaltic pump with interchangeable pump heads for delivering a diverse variety of liquids. Six different channel and flow rate configurations are available :
- Four standard models (1, 2, 4, or 8 channels): 0.3 µL/min to 30 mL/min
- Two high flow models (2 or 4 channels): 1 mL/min to 220 mL/min

**Learn more**

### VERITY® Syringe Pumps Provide Speed and Reliability

- Performs small- and large-volume, repetitive liquid transfers
- Available in single, dual, and dual syringe with tee configurations
- Compatible with all Gilson liquid handlers

**Learn more**

### Bi-Directional Pump for the GX-271 and GX-281 Liquid Handlers

The GX Solvent System can switch from aspirate to dispense mode and can deliver liquids at flow rates up to 50 mL/min.

It can accommodate up to five different reservoir solvents.

**Learn more**

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# verity® 4120

The VERITY® 4120 Dual with Tee Syringe Pump is equipped with two syringes that are user-selectable. The capacity of the left syringe must be greater than or equal to the right syringe. The instrument includes one valve to direct liquid from reservoir or probe (on the left) and a tee connected via junction tubing (on the right). Single syringe and standard dual (no tee) models are also available.

The VERITY 4120 Dual with Tee Syringe Pump assures accuracy in sample transfers, dilutions, reagent additions, mixing, and other liquid handling tasks. It offers speed and reliability for liquid handling tasks.

| VERITY® 4120 Dual with Tee Syringe Pump | |
|---|---|
| **Technical Specification** | **Definition** |
| Communication | USB |
| Dimensions (W x D x H) | 22.6 x 17.1 x 26.9 cm (8.9 x 6.7 x 10.6 in.) |
| Precision | 1% |
| Syringe Capacity | 100 µL, 250 µL, 500 µL, 1 mL, 5 mL, 10 mL, or 25 mL |
| Software Control | PC control via USB and TRILUTION® LH or TRILUTION® LC Software |
| Tee | **Type:** Three port, no moving parts <br> **Diameter of channels:** 1.5 mm <br> **Length of channels:** 14 mm <br> **Angle between channels:** 120° <br> **Liquid contact material:** PEEK <br> **Dead volume:** 51 µL |
| Volumetric Accuracy | ±2% (10%–90% syringe capacity, water) |
| Weight | 6.8 kg (15.0 lbs.) |

| VERITY® 4120 Dual with Tee Syringe Pump | |
|---|---|
| **Description** | **Part Number** |
| VERITY® 4120 Dual with Tee Syringe Pump | 31130002 |

Visit **www.gilson.com**    **REQUEST A QUOTE**

# minipuls®

**3**

The compact MINIPULS® 3 Peristaltic Pump is a high-performance, low-pulse, peristaltic pump with interchangeable pump heads for delivering a variety of liquids—from biological to chemical. Six different channel and flow rate configurations are available.

## Low-Pulse Liquid Transfer

Utilizing positive-displacement pump technology, liquid flows nearly pulse-free as a result of ten stainless steel rollers. MINIPULS 3 produces smooth flows with excellent accuracy and precision, even at high flow rates.

## Flow Rates to Meet Your Needs

With a choice of six quickly interchangeable pump heads, you'll have a wide range of flow rates to use for your applications.

- Four standard models (1, 2, 4, or 8 channels): 0.3 µL/min to 30 mL/min
- Two high flow models (2 or 4 channels): 1 mL/min to 220 mL/min

## Easy to Operate

MINIPULS 3 is easy to install, simple to operate, and easy to maintain. With a simple keypad control and easy-to-read LCD screen, start/stop, flow direction, increase/decrease flow rate, and prime functions are easily accessible. Remote start/stop is also possible.

Visit www.gilson.com  **SHOP NOW**

## Select the Right Tubing

The most suitable material according to your sample's chemical compatibility.

- Contains a large variety of internal diameters to reach desired flow rates.
- Features appropriate connectors and extension tubing.

### TUBING FOR R1, R2, R4, R8, PUMP HEADS
Length = Approximately 40 cm (16 in.)

| Material | Internal Diameter (mm) | Reference Tubing (Calibrated Tubing) | Color Coded Stops | | Extension Tubing 3 m (118 in.) | Connectors | Maximum Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|
| PVC | 0.25 | F117932 | ● | ● | F117952 | F117985 | 0.4 |
| | 0.38 | F117933 | ● | ● | F117953 | F117986 | 0.7 |
| | 0.51 | F117934 | ● | ● | F117954 | F117986 | 1.4 |
| | 0.76 | F117936 | ● | ● | F117956 | F117987 | 2.1 |
| | 1.02 | F117938 | ○ | ○ | F117958 | F1179941 | 4.1 |
| | 1.30 | F117940 | ◎ | ◎ | F117960 | F1179941 | 6.2 |
| | 1.52 | F117942 | ● | ● | F117962 | F1179941 | 9.1 |
| | 1.65 | F117943 | ● | ● | F117963 | F1179941 | 10.5 |
| | 2.06 | F117945 | ● | ● | F117965 | F1179941 | 15.7 |
| | 2.29 | F117946 | ● | ● | F117966 | F1179941 | 19.7 |
| | 2.79 | F117948 | ● | ○ | F117968 | F1179951 | 23.2 |
| | 3.18 | F117949 | ● | ○ | F117969 | F1179951 | 29.0 |
| Iso-Versinic® or Viton® | 0.5 | F1817741 | ● | ● | F117740 | F117986 | 1.8 |
| | 1.0 | F1817743 | ● | ● | F117742 | F1179941 | 4.0 |
| | 2.0 | F1817745 | ● | ● | F117744 | F1179941 | 12.6 |
| | 3.0 | F117747 | ● | ● | F117746 | F1179951 | 27.3 |
| | 4 | F117749 | ● | ● | F117748 | - | 33.0 |
| Silicone | 0.64 | F1825111 | ● | ○ | F1825131 | F117987 | 1.5 |
| | 1.02 | F1825112 | ○ | ○ | F1825132 | F1179941 | 4.1 |
| | 2.06 | F1825113 | ● | ● | F1825133 | F1179951 | 14.7 |
| | 2.79 | F1825114 | ● | ○ | F117975 | F1179951 | 22.8 |
| Santroprene™ or PharMed® | 0.51 | F1825101 | ● | ● | F1825121 | F117986 | 1.4 |
| | 1.02 | F1825102 | ○ | ○ | F1825122 | F1179941 | 4.8 |
| | 2.06 | F1825103 | ● | ● | F1825123 | F1179941 | 15.0 |

### TUBING FOR R2HF & R4HF HIGH FLOWPUMP HEADS
Length = 3 m (118 in.)

| Material | Internal Diameter (mm) | Reference Tubing (Calibrated Tubing) | Maximum Flow Rate (mL/min) |
|---|---|---|---|
| PVC | 2.06 | F117965 | 24 |
| | 2.29 | F117966 | 29 |
| | 2.79 | F117968 | 41 |
| | 3.16 | F117969 | 49 |
| | 4.0 | F117970 | 75 |
| | 5.0 | F117980 | 113 |
| | 6.0 | F117981 | 163 |
| | 8.0 | F117982 | 213 |
| Iso-Versinic® or Viton® | 2.0 | F117744 | 23 |
| | 3.0 | F117746 | 48 |
| | 4.0 | F117748 | 86 |
| | 6.0 | F117750 | 181 |
| Silicone | 2.0 | F1825133 | 25 |
| | 3.0 | F117975 | 44 |
| | 4.0 | F117976 | 71 |
| | 5.0 | F117977 | 115 |
| | 6.0 | F117978 | 150 |
| | 7.0 | F117979 | 220 |
| Santroprene™ or PharMed® | 2.0 | F1825123 | 25 |
| | 3.2 | F1825124 | 53 |
| | 6.4 | F1825125 | 171 |
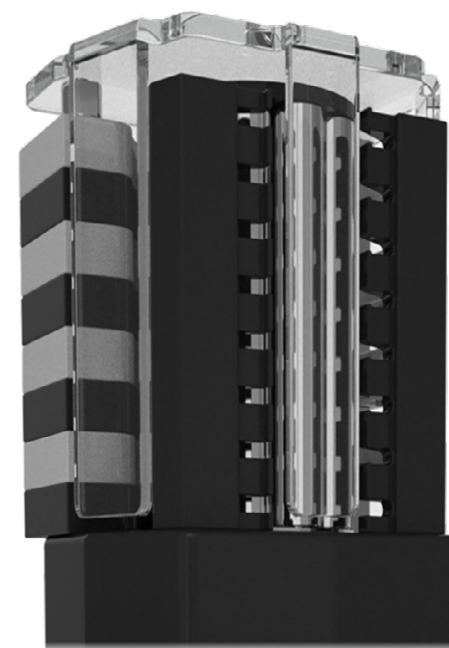
### MINIPULS 3

| Description | Part Number | Maximum Flow Rate | Number of Channels |
|---|---|---|---|
| Pump Module MINIPULS 3 | F155001 | - | - |
| R1 Pump Head | F117604 | up to 30 mL/min | 1 |
| R2 Pump Head | F117800 | up to 30 mL/min | 2 |
| R4 Pump Head | F117606 | up to 30 mL/min | 4 |
| R8 Pump Head | F117608 | up to 30 mL/min | 8 |
| R2/HF Pump Head (High Flow) | F117830 | up to 220 mL/min | 2 |
| R4/HF Pump Head (High Flow) | F117831 | up to 220 mL/min | 4 |

**Tools and Resources**
**Technote:** TN222 Autosampler for Spectrophotometric Analysis

# ACCESSORIES

## OPTIMIZE YOUR INSTRUMENTATION

Complementing durable and flexible instruments, Gilson accessories optimize instrumentation to fit application requirements for the ultimate solution.

### VALVEMATE® II Valve Actuator

**Increase the Flexibility of Your System**

Extends the capability of any chromatography or liquid handling system by offering options for solvent selection, column switching, and sample trapping

Wide variety of valves, available in stainless steel or in biocompatible materials

Fully controlled either via keypad or by TRILUTION® LC and LH Software

**Learn more**

### Orbital Shaker

The Orbital Shaker is specifically designed for on-line or off-line liquid handling, vortexing, and mixing. It is a fully functional, stand-alone instrument. This compact shaker fits on one rack position of a GX-281 Liquid Handler bed. The shaker provides a range of customer-controlled shaking (20 to 720 rpm), allowing vortexing on various vessel sizes and sample volumes.

**Compatible with a Wide Range of Racks**

The Orbital Shaker is compatible with all Code 200-series racks. A single rack attaches easily using set screws; rack placement is accurately guided by locator pins.

**Learn more**

### Racks
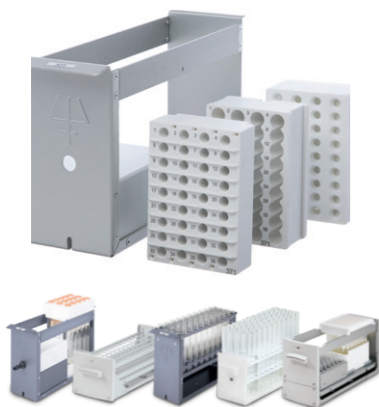
Gilson offers standard and custom SPE racks to meet the needs of any and all applications. A variety of vessels can be accommodated including tubes, vials, or microplates.

**Standard and Custom Racks**

Gilson offers standard and custom racks to meet the needs of any application. A variety of vessels can be accommodated, including tubes, vials, microplates, and microchips.

**RackCount™ System**

RackCount System overlays add numbering patterns to rack positions allowing you to quickly and easily locate specific samples or collected fractions on the bed of Gilson liquid handlers. The overlays are available in serpentine or non-serpentine numbering patterns.

**Learn more**

# PUMPS

Gilson offers unsurpassed flexibility in pumping systems with an extensive product range and accommodations.

## SELECTION GUIDE

**VERITY® 3011 ISOCRATIC PUMP**

### Ideal Pumping Solution for Chemical Reaction in Petroleum Applications, and GPC Cleanup in Environmental Applications
- High-pressure rating, up to 8,700 psi (600 bar), for accommodating industrial level applications
- Quick-connect pump heads for simple maintenance and reduced downtime
- Flow rates from 10 µL/min to 10 mL/min and integrated touchscreen controller for convenient, stand-alone operation

**Learn more**

**305 HPLC PUMP / 306 HPLC PUMP**

### Cost-Effective, Dependable Pumping Solution
- Available in isocratic, binary, and ternary configurations
- Interchangeable pump heads to accommodate flow rates from 10 µL/min to 200 mL/min at pressure up to 8700 psi (600 bar), depending on the pump head.

**Learn more**

**322 HPLC PUMP**

### Binary High Pressure Gradient Pump for Analytical to Semi-Preparative HPLC
- Accommodates flow rates from 0.30 mL/min up to 30 mL/min at pressures up to 4,350 psi (300 bar)
- Compatible with HPLC columns from 4.6 to 20mm ID
- Variable High-pressure dynamic mixer

**Learn more**

**VERITY® 3240 PUMP**

### Premiere High Performance Binary Gradient Pump for semi preparative to Preparative Chromatography
- Large flow rate up to 150ml/min and pressure range up to 420 bar (6090 psi)
- Designed to effectively work with preparative HPLC columns from 10 mm to 50 mm ID
- Ideal for high throughput purification chromatography allowing for scaling up purification from milligrams up to tens of grams

**Learn more**

**333/334 HPLC PUMPS**

### High Flow Binary Gradient Pump for Preparative HPLC
- Accommodates flow rates up ranging from 1 mL/min to 200 mL/min at pressures up to 3,040 psi (210 bar) using columns up to 50 mm ID
- Features a variable-volume, dynamic mixer for optimized high pressure gradient performance

**Learn more**

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# verity® 3011

## MAKE YOUR LAB LIFE EASIER

The VERITY® 3011 Isocratic Pump is an innovative liquid delivery solution for chemical reaction monitoring in petroleum applications and for gel permeation chromatography (GPC Cleanup) in environmental and food, and beverage testing applications.

### Simple Head Changing

The VERITY 3011 Isocratic Pump features a virtually pulse-free, stable solvent flow rate, ensuring stable flow delivery to detectors, and allowing for a wider range of application capabilities on one pump. The pump also features an easily interchangeable quick-connect pump head, making maintenance simple and reducing costly downtime.

The reproducibility and accuracy in reactions when using this pump, coupled with its low operation and maintenance costs, makes the VERITY 3011 Pump an ideal choice for many laboratories that pursue improved results and are trying to minimize costs, operators, and downtime.

The VERITY 3011 Isocratic Pump offers a stand-alone pumping system with high valued features:

- Quick-connect pump heads for easy installation, and simple maintenance
- High pressure rating for accommodating industrial level applications in the petroleum industry
- Integrated touchscreen controller for convenient, stand-alone operation
- Compact and stackable design that fits easily into a refrigeration unit or a fume hood
- Flow rates from 0.01 to 10 mL/min, depending on the pump head, and pressures of up to 600 bar (8702 psi)

| VERITY® 3011 Pump | |
|---|---|
| VERITY 3011 Pump | 38114001 |
| **PUMP HEADS** | |
| **Description** | **Part Number** |
| 5 SS Pump Head Assembly (Stainless Steel) | 38014217 |
| 10 SS Pump Head Assembly (Stainless Steel) | 38014216 |

**REQUEST A QUOTE**   Visit www.gilson.com

# verity®

**3240**

The VERITY® 3240 High Pressure Binary Gradient Pump is designed for semi-preparative to preparative purification. It provides an economical and compact pumping solution for preparative purification.

## Purify With Confidence

The VERITY 3240 Pump delivers reproducible and precise elution gradients to achieve repetitive isolations of targeted compounds with Gilson high throughput purification platforms.

## Scale Up Capabilities

The VERITY 3240 Pump has been designed to effectively work with preparative HPLC columns from 10 mm to 50 mm ID allowing for scaling up purification from milligrams up to tens of grams on the same Gilson automated purification platform.

## Workhorse in the Laboratory

The large flow rate up to 150 mL/min and pressure range up to 420 bar (6090 psi) allow the VERITY 3240 Pump to cover most semi-preparative to preparative HPLC purification needs.

## Safe and Efficient

The VERITY 3240 Pump has an optional leak detector to secure purifications. Optional inlet solvent selectors for up to four solvents per head support high throughput purification on different column types or for column regeneration.

| VERITY® 3240 ACCESSORIES | |
|---|---|
| Description | Part Number |
| 1   Large Solvent Bottle Tray, VERITY 3xxx | 21044034 |
| 2   Narrow Solvent Bottle Tray, VERITY 3xxx | 21044035 |
| 3   Tray For V1741 Uv-Vis Det., VERITY 3xxx | 21044036 |
| 4   Column Holder, 2 Col., VERITY 3xxx | 21044037 |
| 5   Valvemate Ii Holder, VERITY 3xxx | 21044038 |
| 6   Manual Inj. Valve Holder, VERITY 3xxx | 21044039 |
| 7   Rinse Pump, VERITY 3xxx | 21044040 |
| 8   Leak Sensor, VERITY 3240 | 21044004 |
| 9   Solvent Selectors, 2x2 In, V3240-150 | 21044001 |
| 10   Solvent Selectors, 2x4 In, V3240-150 | 21044002 |

# DETECTORS

Gilson offers a complete line of HPLC detection solutions that are ideal for analytical, semi-preparative, and preparative HPLC applications.

**VERITY® 1741 UV-VIS Detector**

### UV-VIS Diode Array Detection
- With a large selection of flow cells for semi-preparative to preparative purification (up to 700mL/min), the reliable and versatile VERITY® 1741 UV-VIS Detector is coupled with the power of multiple-wavelength scanning range from 200 nm to 800 nm.

Learn more

**VERITY® 1920 Mass Spectrometer**

### Mass Detection
- High detection sensitivity and selectivity for compounds purification thus improving time to discovery.
- With a mass range of 10-2000 m/z, the VERITY 1920 MS helps you detect small to large molecules such as peptides and small proteins easily.
- Available with either electrospray ionization (ESI) or atmospheric pressure chemical ionization (APCI) ion source.

Learn more

**VERITY® 1601 ELS DETECTOR**

### ELS Detection
- Evaporative Light-Scattering Detection is a nearly-universal and powerful detection mode for liquid chromatography.
- Commonly used as a complementary option to UV-Vis detection when analytes do not possess any chromophore.
- The VERITY® 1601 features a specific nebulizer, for the needs of preparative HPLC and Flash Chromatography.
- Low-temperature evaporation leveraging semi-volatile or thermally labile compounds detectability.

Learn more

**VERITY® 1810 Conductivity and pH Monitor**

### Conductivity and pH Detection
- The VERITY® 1810 is an integrated conductivity sensor and an external optional pH sensor, ideal for pH dependent purifications.

Learn more

# PURIFICATION SYSTEMS

## Scaling up Your Systems, From Research to Production

### INSTRUMENTS

We offer high performance liquid chromatography manual and automated solutions, available through purchase or leasing.

### EXPERTISE

We secure your investment by providing expert advice, either from our application labs or in your lab.

### SERVICES

From standard maintenance, qualification, and service, we guarantee the performance of your equipment.

> **Achieve accurate, reliable results with our purification chromatography systems and solutions.**

### Purify
- Isolate active ingredients or analytical standards with a high degree of purity
- Isolate impurities for further characterization

### Fractionate
- Global partition of an extract to identify active compounds from sub-groups
- Partition to remove non-desirable molecule(s) from a complex mixture

### Polish
- Increase purity of an already relatively pure compound

### Capture
- Enrich a targeted compound from a large volume sample

### Desalt
- Removal of salts from previous purification steps

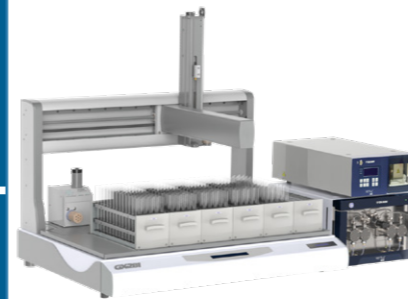## High Performance Liquid Chromatography (HPLC) or Cartridge Based

Sample constituent are separated based on their relative affinities for the mobile phase and the solid stationary phase.

**Learn more**

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VERITY® 271 HPLC System

VERITY® 281 HPLC System

**High Performance Liquid Chromatography (HPLC)**

**High Throughput Purification Solutions for library building**
- Large number of samples and fractions with VERITY® 271 and VERITY® 281 platforms (10 to 100s)
- Automated purification workflow including method screening, scout runs, purification runs, or fractions reinjection
- Open access capabilities
- Capability to use multiple HPLC columns with ID up to 50 mm

**Automation – Flexibility – Open access**

**Learn more about** VERITY® 271

**Learn more about** VERITY® 281

| Productivity Range | Column ID (mm) | Standard Flow Rate (mL/min) | ASPEC System | 30X System | 322 Pump | VERITY 3240 150 mL Pump |
|---|---|---|---|---|---|---|
| Micro Fractionation Desalting | Cartridge | N/A | X | | | |
| Micro Preparartive | 4.6 | 0.8-1 | | 5-10-25SC HEADS | H1-H2 HEADS | |
| Semi Preparative | 10 | 3-5 | | 10-25SC HEADS | H1-H2 HEADS | X |
| Semi Preparative | 20 | 18-20 | | 25-50SC HEADS | H2 HEAD | X |
| Semi Preparative | 30 | 40-45 | | 50SC HEAD | | X |
| Preparative | 50 | 100-120 | | | | X |

GILSON To learn more about our Liquid Chromatography HPLC solutions, visit www.gilson.com.

# PURIFICATION SYSTEMS FOR ANY PEPTIDE PURIFICATION METHOD

Gilson offers instruments and expertise that encompass a variety of peptide purification workflows.

## SELECTION GUIDE
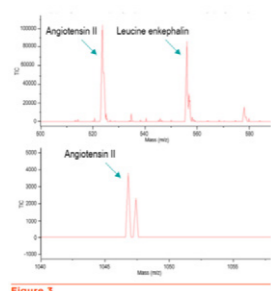
### PEPTIDE PURIFICATION

**Mass-Based Peptide Purification**

The VERITY 271 LCMS system combines the power of High-Performance Liquid Chromatography (HPLC) with Mass Detection (MS) for conditional fraction collection.

Initial screening for peptide purification can be done using smaller columns for scouting, and then the LC optimized conditions can be scaled up, allowing researchers to target a specific peptide for purification. In addition, with UV-VIS detection, the optional single quad VERITY 1920 MS Detector with electrospray ionization (ESI) or atmospheric pressure chemical ionization (APCI) ion sources supports targeted fractions collection using selected ion monitoring (SIM) channels.

With a mass range of 10-2000 m/z, the VERITY 1920 MS helps you easily detect large molecules such as peptides and small proteins. Many biomolecules carry multiple charges with electrospray ionization so that even proteins of several tens of kDa can be measured within the 2,000 m/z range.

The method takes advantage of the software's powerful conditional fraction collection feature, which simultaneously combines UV-VIS signals and up to five MS channels to improve selectivity and purity.

**Learn more**

**VERITY® 271 LCMS System**

**Parallel Cartridge-Based Purification Desalting for Proteomics**

The peptides can be desalted after cell lysis and protein digestion using a 4-probe positive pressure Gilson ASPEC® 274 System, typically with C18 1 mL solid phase extraction columns prior to LCMS/MS analysis.

**Small Length Oligonucleotide Purification**

The small length oligonucleotides can be purified on cartridges. The parallel purification allows for higher throughput.

**Learn more**

**ASPEC® 274 System**

**Tools and Resources**

**Application Notes:** VERITY® Oligonucleotide Purification System: Streamlined Purification of Assay-Ready Oligonucleotides by Automated HPLC

# FLEXIBLE AND HIGH THROUGHPUT PURIFICATION OF OLIGONUCLEOTIDES

After the cleavage and deprotection steps, the purification of oligonucleotides is done by Ion pairing reversed phase (IP-RP) or ion exchange (IEX) liquid chromatography. After purification, the fractions are desalted by Size Exclusion Chromatography (SEC – Gel Filtration).

This ideal purification system is able to deliver consistent and precise gradients to allow impurity removal while achieving a high-level recovery at various scales.

**VERITY® Oligo Purification System**

Purification

Analysis

Buffer Exchange – Desalting
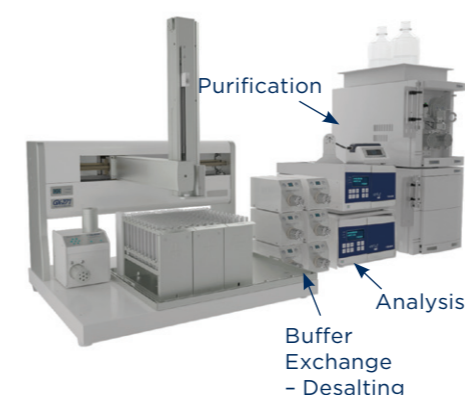
### OLIGONUCLEOTIDE PURIFICATION

**Purify and Control Oligonucleotides in One Continuous Production Run**

With the VERITY® Oligo Purification System, you can now have a single platform for continuous purification and analysis of reagent-grade oligonucleotides then desalting of the controlled fractions.

**A Single System to Save Space and Money**

The VERITY Oligo Purification System can be configured to your needs and budget from a secure and robust purification platform up to a continuous production of oligonucleotides that can be operated 24 hours a day, 6 or 7 days a week.

**Learn more**

**TRILUTION® LC Software**

TRILUTION LC Software is a user-friendly software for controlling our high-pressure liquid chromatography systems and automated liquid handling instruments. TRILUTION LC provides fraction collection capabilities, conditional logic collection, , accurate fraction simulation, graphical drag-and-drop user interface, and graphical sample tracking. Built-in, software-based error handling conditions for each process stage can be customized for fully automated, unattended operation without fear of sample loss.

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# EXTRACTION

## GET THE MOST FROM YOUR ANALYTICAL SYSTEMS WITH TRUSTED RESULTS

Solid phase extraction (SPE) is a highly selective clean-up technique that eliminates matrix effects and concentrates compounds present as traces to improve analytical detection. The ASPEC® extraction line offers hands-free solutions that provides increased sample throughput and reliable test results while providing the traceability needed when studying drugs metabolites, contaminants, or proteins in biological, food, or environmental matrices.

### SELECTION GUIDE

**ASPEC® 271 System**

- Ultimate versatility system for basic and advanced SPE automation
- Up to 108 samples on 1 mL cartridges, 60 on 3 mL, and 48 on 6 mL
- Optional dual syringe for accurate transfer down to 10 µL
- Optional injection for direct UHPLC or LC integration
- Compatible with Gel Permation Chromatography (GPC), liquid-liquid extraction (LLE), and SLE cleanup applications

**Learn more**

**ASPEC® 274 System**

- High throughput system for basic and advanced SPE automation
- Process four samples in parallel
- Up to 108 samples on 1 mL cartridges, 60 on 3 mL, and 48 on 6 mL
- Compatible with LLE and SLE cleanup

**Learn more**

**ASPEC® 271 Large Volume System**

- Ultimate versatility system for basic and advanced small- to large-volume SPE automation
- Up to 9 large volume samples on 3 mL and 6 mL cartridges
- Segregated aqueous and organic waste
- Optional dual syringe for accurate transfer down to 10 µL
- Optional injection for direct UPLC or LC integration
- Compatible with GPC and LLE cleanup applications

**Learn more**

**ASPEC® 274 Large Volume System**

- High throughput system for small- to large-volume SPE automation
- Process four samples in parallel
- Up to 32 samples on 3 mL and 6 mL cartridges
- Segregated aqueous and organic waste
- Compatible with LLE cleanup

**Learn more**

### Per- and Polyfluoroalkyl Substances (PFAS)

Gilson's ASPEC Systems are listed as an example of an automation solution in the Annex V2.0 to Guidance Document on Analytical Parameters for the Determination of Per- and Polyfluoroalkyl Substances (PFAS) in Food and Feed from the European Union Reference Laboratory for POPS (EURL POPs).

**Gilson's Guide to SPE Automation**

This guide is both a resource and step-by-step troubleshooting handbook. This guide provides a background for the technique and explains the science of solid phase extraction (SPE). It also offers practical advice for automating workflows via Gilson SPE systems and software.

Condition | Load | Wash | Elute

Gilson Guide to SPE Automation

**Download**

# aspec®

## IMPROVE MANUAL SPE REPRODUCIBILITY

With a uniform and consistent flow rate, the ASPEC® Positive Pressure Manifold (PPM) improves solid phase extraction (SPE) reproducibility and recovery, even with high viscosity samples. It integrates easily into your lab's workflow and provides a fast and simple way to prepare samples for subsequent analysis by chromatography.

### Compact and Easy to Set Up for Quick Operation

With its small footprint and only a single gas input, the ASPEC PPM is quick to set up and easily fits under fume hoods for extractions that use volatile solvents.

### Positive Pressure for Reproducible Extractions

With its integrated pressure gauge and intuitive controller, the manifold provides better flow control among samples and between runs than traditional vacuum manifolds, providing greater confidence in your data. Positive pressure ensures that all samples will elute regardless of the viscosity level.

### Parallel Clean Up

Compatible with both popular SPE cartridges and 96-well plates, the ASPEC PPM performs parallel extractions to increase throughput and productivity.

### Optimize Workflow Throughput

By combining the ASPEC PPM with PIPETMAN® multichannel pipettes or PLATEMASTER® for 96-well SPE plates, get the guarantee of accurate and fast sample management and extraction.

### One Unit - Four Formats

The base module is compatible with ASPEC SPE cartridges (1, 3, and 6 mL) and 96-well SPE plates for a high throughput clean-up.

**Tools and Resources**
**User Guide:** Gilson Guide to SPE Automation

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| ASPEC® Positive Pressure Manifold | |
|---|---|
| Description | Part Number |
| ASPEC® PPM Base Unit | 37012000 |
| ASPEC® PPM Manual SPE Installation Kit | 37417010 |

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# aspec®

The ASPEC® 274 System for positive pressure solid phase extraction (SPE) maximizes throughput by processing up to four samples in parallel. With its small footprint and multiple probes, it is the ideal choice for high-throughput SPE automation on 1, 3, or 6 mL cartridges. Combined with ASPEC® SPE Cartridges, it generates reproducible and efficient sample cleanup for clinical, forensic, doping, food, and environmental testing labs.

### Parallel Processing for Maximum Efficiency

Four-probe Z-arm enables processing of four samples in parallel, increasing throughput and efficiency.

### Positive Pressure for Reproducible Extractions

Positive pressure extraction with a unique sealing cap design increases reproducibility from sample to sample. The syringe pump delivers accurate volume dispensing with reproducible flow-rate.

### Smart Design for Maximized Performance

Mobile rack technology enables multiple fractions elution and extractions per sample and additional fractions transfer in closed vials after SPE.

### Intuitive Error Handling for Trusted Results

The syringe pump pressure-sensing module provides error handling for high cartridge pressure or clogged liquid lines and monitors pressure on each fluid path individually. Innovative jet wash rinse stations minimize carryover and cross contamination.

### Versatile Software Control for Optimized Productivity

TRILUTION® LH Software allows for multiple liquid handling applications such as liquid-liquid extraction (LLE) and SPE on the same ASPEC system. Optimize throughput and efficiency by processing samples in either batch or sequential mode. Perform multiple elution and parallel solvent testing to quickly automate and optimize method development.

**TRILUTION® LH Software**
TRILUTION® LH Software is a comprehensive software package for seamless automation of all liquid handling (LH) and solid phase extraction (SPE) methods.
With its intuitive interface, simple drag-and-drop method creation, and application simulation, it combines flexibility and ease-of-use.

**Tools and Resources**
**Application Notes:** ASPEC® System: Fast, Accurate, and Reliable Quantification of THC and Métabolites from Blood in Forensics Testing with Fully-Automated SPE
**Application Notes:** Automated Solid Phase Extraction of Benzodiazepines from Urine Using the Gilson ASPEC® 274 System

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# aspec®

**SPE CARTRIDGES**

## CONSISTENT PERFORMANCE, RELIABLE RESULTS

Get more reliable results with ASPEC® SPE Cartridges, ready-to-use, high-quality silica, and polymer cartridges. The ASPEC SPE Cartridges are available with ASPEC caps for cost-effective, automation-ready use on ASPEC automated solutions.

### Key Features of Pre-Capped Cartridges for ASPEC Automation

- Run cartridges right out of the box, saving valuable time with no need for manual capping
- Remove potential health concerns with repetitive manual operations
- Run samples faster
- Prevent run stopping due to improperly installed caps
- Competitively priced versus uncapped cartridges with separated caps

### Highly Selective Solutions

High performance solid phase extraction sorbents based on specific polymers or molecularly imprinted polymers (MIP) for sample cleanup before chromatographic analytical methods. AFFINIMIP® SPE and AttractSPE™ are now available pre-capped for ASPEC automation.

- **Mycotoxins**
  Aflatoxins, Ochratoxin A, Patulin, ZON, DON

- **Pesticides**
  Glyphosate and Ampa Multi-Residues

- **Endocrine Disruptors**
  PFAs, Bisphenol A, PAHs

- **Drug Residues**
  Chloramphenicol and Nitrofurans, Amphetamines, Tetracyclines

- **Desalting**
  Peptides

## ASPEC SPE Cartridges - Retention Mechanisms Selection

Sample properties, such as matrix type and compounds of interest solubility and polarity, give a good starting point to identify the recommended sorbent and retention mechanism:

| Analyte is soluble in | | | Analyte polarity | Recommended Phases (SILICA BASED - POLYMERIC) |
|---|---|---|---|---|
| Aqueous | Sample Matrix Type | Aqueous | Non polar | ASPEC C18, ASPEC C8, ASPEC C4, ASPEC PHENYL, ASPEC CYCLOHEXYL, **ASPEC DVB** |
| | | | Non polar/ Moderately polar | ASPEC C18 NEC, ASPEC C8, ASPEC C4, ASPEC CYANO, **ASPEC HLB** |
| | | | Polar | ASPEC CYANO, ASPEC ACT. CARBON |
| | | Aqueous/Organic | Cationic/Basic | ASPEC SCX, ASPEC SCX-2, ASPEC WCX |
| | | | Cationic/Basic (Neutral) | **ASPEC X-SCX**, **ASPEC X-WCX** |
| | | | Anionic/Acid | ASPEC SAX, ASPEC SAX-2, ASPEC WAX, ASPEC WAX-2 |
| | | | Anionic/Acid (Neutral) | **ASPEC X-SAX**, **ASPEC X-WAX** |
| | | Organic | Non polar | ASPEC C18, ASPEC C8, ASPEC C4, ASPEC PHENYL, ASPEC CYCLOHEXYL, **ASPEC DVB**, **ASPEC HLB** |
| Organic | | Aqueous | Non polar | ASPEC C18, ASPEC C8, ASPEC C4, ASPEC PHENYL, ASPEC CYCLOHEXYL, **ASPEC DVB**, **ASPEC HL**B |
| | | | Cationic/Basic | ASPEC SCX, ASPEC SCX-2, ASPEC WCX |
| | | | Cationic/Basic (Neutral) | **ASPEC X-SCX**, **ASPEC X-WCX** |
| | | | Anionic/Acid | ASPEC SAX, ASPEC SAX-2, ASPEC WAX, ASPEC WAX-2 |
| | | | Anionic/Acid (Neutral) | **ASPEC X-SAX**, **ASPEC X-WAX** |
| | | Organic | Moderately polar | ASPEC SILICA, ASPEC FLORISIL, ASPEC ALUMINA, ASPEC CYANO, ASPEC DIOL NEC |
| | | | Polar | ASPEC CYANO, ASPEC DIOL NEC |
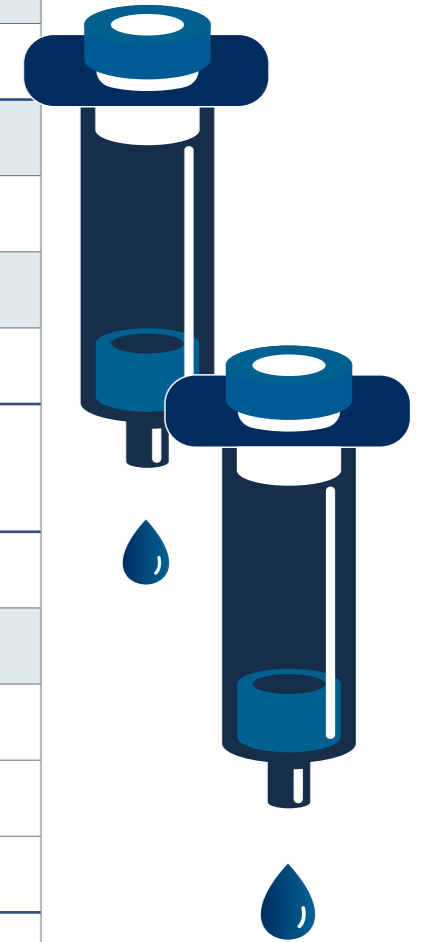
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# verity®

GPC Cleanup is a simple but efficient clean-up technique to eliminate matrix effect and preserve your GC or LC column life by discarding high molecular weight interfering substances contained in sample extracts and recovering analytes of interest into a pure fraction of solvent. The VERITY® GPC Cleanup system is a fully automated cleanup system which makes it an ideal tool to minimize risks to the users and improve reproducibility.

### Fully Automated System to Improve Efficiency and Reliability

GPC post-extraction cleanup is typically used prior to analysis of contaminants such as pesticides, semi-volatiles, PAHs and PCBs, and pharmaceuticals - in environmental samples, food products, and animal tissue

### High Capacity
- Automated cleanup of up to 80 sample extracts

### Complete Workflow Integration
- Large choice of racks for sample extracts and different evaporation vessels to directly collect compounds inside

### Compliance with Government Agency Guidelines and Methods
- Meets government requirements for GPC cleanup – USEPA, USDA, USFDA, USGS, USDI, Centers for Disease Control (CDC), Canadian Food Inspection Agency (CFIA), European Union (EN 1528, 12393, DFG S19), AOAC International, etc.
- An optional VERITY® 1741 UV-Vis Detector (200-800 nm) is available to ensure GPC column calibration in compliance with GPC post-extraction guidelines when requested
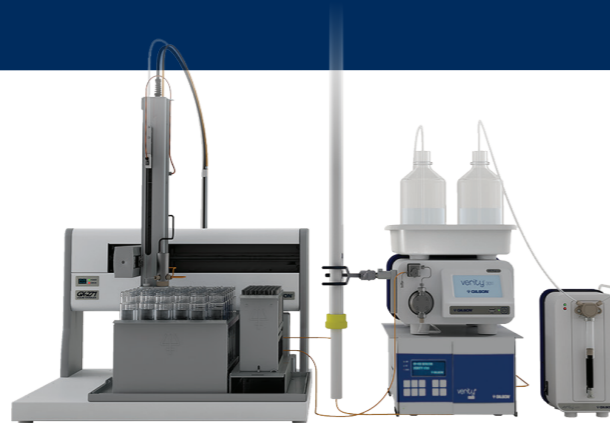
The VERITY® GPC Cleanup System is configured with a GX-271 Liquid Handler equipped with 3- ways collection valve, GX Direct Injection Module, VERITY® 4020 Single Syringe Pump, VERITY® 3011 Isocratic Pump, TRILUTION® LC Software, and an optional 1741 UV-VIS Detector

### High Flexibility
- Compatible with various columns from low pressure glass columns to higher pressure Stainless steel columns with the VERITY® 3011 Isocratic Pump (up to 10 mL/min, 600 bar (8702 psi))
- Can also be used for other chromatography applications as an Isocratic HPLC system from analytical to semi-preparative scale

### Sample Integrity
- The septum piercing capability option can maintain the integrity of a sample extract by using closed tubes
- Overfill of the sample loop is not required, which helps to conserve the sample
- Independent flow paths between injection and fraction collection avoids cross contamination

### All Under TRILUTION® LC Software Control: Easy-to-Use for a Full Safe Control

The VERITY GPC System is controlled by the powerful TRILUTION LC software which contains pre-programmed methods for GPC post-extraction cleanup. The software error handling and shutdown methods help to minimize solvent waste and sample loss.

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# extractman®

EXTRACTMAN® offers a fast and gentle paramagnetic beads-based approach to isolating target proteins and is ideal for isolating elusive, weakly-bound protein complexes critical to protein interaction research.

### Identifying Weak Proteins Interactions

Co-immunoprecipitation (Co-IP) is a common technique for observing protein-protein interactions; however, weakly-or transiently-bound species often go undetected as aggressive or repeated wash steps can result in a loss of these interactions.

EXTRACTMAN differs from traditional magnetic bead-based co-IP techniques by using Exclusion-based Sample Preparation (ESP™) technology, making it ideal for capturing weakly bound protein complexes without exposing them to high shear forces from.

Paired with non-porous magnetic beads, EXTRACTMAN enables high-yield, high-purity isolations without the need for long washing steps

### Rapid Isolation

EXTRACTMAN® uses surface tension and hydrophobic properties for ESP™-based extraction. This process gently and rapidly pulls bead-analyte complexes from sample to a series of washes and elute enriched and purified target compounds excluding unbound contaminants in a matter of seconds.

### Ergonomic and Easy-to-Use

Slide-based extraction gently moves four samples in parallel through isolation with a simple slide of the handle. EXTRACTMAN has been used to rapidly isolate mRNA, DNA, and proteins from crude extracts using an assortment of commercial kits and reagent.

**Watch EXTRACTMAN® in action**
A Novel Platform for Target Protein Isolation

**Watch video**

BIND        WASH        ELUTE
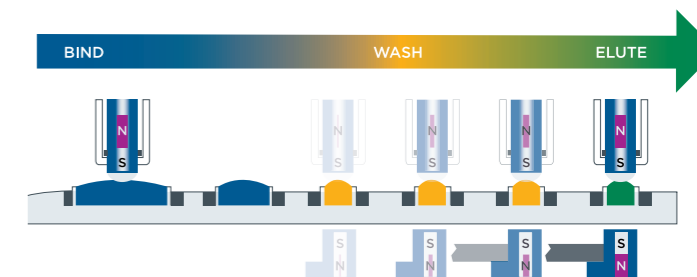
**Tools and Resources**
**Application Notes, Articles, Technical Notes:** EXTRACTMAN Learning Hub

# Gilson SupaTop™

**SYRINGE FILTERS**

## CLARIFY YOUR SAMPLES AND EXTEND THE LIFE OF YOUR ANALYTICAL SYSTEMS

For sample volumes up to 100 mL, the range of Gilson SupaTop™ Syringe Filters provides a quick, convenient, and reliable method of clarifying liquids intended for further analysis such as HPLC injection to combat particulate clogging of columns.

Gilson SupaTop Syringe Filters are available in two sizes, 13 or 25 mm, each with a choice of porosity of 0.22 µm or 0.45 µm.

### Maintain Sample Integrity
- Pigment-free and sealant-free polypropylene housing
- HPLC-certified filters with low levels of UV-absorbing extractables

### Save Time and Avoid Error
- Color-coded syringe filters to quickly identify membrane and porosity used
- High burst strength and durable construction.

### A Membrane for all Your Needs
- The filter membrane should not interfere with the sample or bind proteins or other macromolecules.
- The table below provides a good starting point to identify the type of membrane used by application.

| MEMBRANE APPLICATIONS | |
|---|---|
| **Application** | **Membrane Type** |
| (U)HPLC solvents | PTFE or Nylon |
| Aqueous solution | All except PTFE |
| Iconic chromatography | PES or PTFE |
| Protein analysis | PES or PVDF |
| Environmental and food analysis | PTFE or Nylon |
| Clinical or toxicological analysis | PES |
| ICP/AAS metals analysis | PES or Nylon |
| Cell or Tissue culture media | PES |

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| Membrane | Properties | Color Code | Pore Size | 13 mm Diameter | | 25 mm Diameter | |
|---|---|---|---|---|---|---|---|
| | | | | **Part No.** | **Pack of** | **Part No.** | **Pack of** |
| PES | **Polyethersulfone (PES)** is widely used for the clarification of biological samples. This low binding membrane is able to resist surfactants and hydrocarbon oils but is not suitable for use with low-polar organic solvents or aromatic hydrocarbons. | | 0.2 µm | ANR1322 ANR1322D | 100 1000 | ANR2522 ANR2522C | 100 500 |
| | | | 0.45 µm | ANR1345 ANR1345D | 100 1000 | ANR2545 ANR2545C | 100 500 |
| MCE | **Mixed Cellulose Esters (MCE)** contain a blend of cellulose acetate and nitrocellulose fibers providing a more resilient membrane than CA for aqueous-based filtration. Higher binding than pure CA. | | 0.2 µm | ANM1322 ANM1322D | 100 1000 | ANM2522 ANM2522C | 100 500 |
| | | | 0.45 µm | ANM1345 ANM1345D | 100 1000 | ANM2545 ANM2545C | 100 500 |
| NYLON | **Polyamide (Nylon)** is a popular membrane with superior chemical compatibility than CA or MCE. Able to filter aqueous or mild organic solvents, this membrane is naturally hydrophilic with low extractables. | | 0.2 µm | ANN1322 ANN1322D | 100 1000 | ANN2522 ANN2522C | 100 500 |
| | | | 0.45 µm | ANN1345 ANN1345D | 100 1000 | ANN2545 ANN2545C | 100 500 |
| PVDF | **Polyvinylidene Fluoride (PVDF)** exhibits great chemical resilience being non-reactive to many solvents, acids, and bases. Appreciated for its low protein binding properties this membrane is used in biological sciences and its wide chemical compatibility range makes it ideal for HPLC sample preparation ahead of injection. | | 0.2 µm | ANV1322 ANV1322D | 100 1000 | ANV2522 ANV2522C | 100 500 |
| | | | 0.45 µm | ANV1345 ANV1345D | 100 1000 | ANV2545 ANV2545C | 100 500 |
| PTFE | **Polytetrafluoroethylene (PTFE)** has the highest chemical compatibility rating of these filters. Being naturally hydrophobic this membrane is most suited to the clarification of organic solvents and for air venting processes. Not suitable for aqueous sample filtration without pre-wetting. | | 0.2 µm | ANP1322 ANP1322D | 100 1000 | ANP2522 ANP2522C | 100 500 |
| | | | 0.45 µm | ANP1345 ANP1345D | 100 1000 | ANP2545 ANP2545C | 100 500 |

# NOTES

**GILSON®**