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ABOUT US

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 chromatography 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.

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.

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

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. Below, you'll find a key to what each icon represents. On each relevant product page, simply click on the blue icons to access relevant documentation or resources.

Get in touch with our customer support to receive a quote for your product of interest.

Find additional tools and resources to learn more about Gilson solutions and technologies.

Visit www.gilson.com to learn more about each product.

Download or read an article or customer case study related to the product page you're reading.

Find useful how-to or overview videos related to the product page you're viewing.

Our experts are available to answer all your questions. Contact us with any specific needs or requests.

Download useful files.

Click on the link to reach the related accessories or product page within the product guide.

Please note: this product guide is meant to be viewed digitally.
Visit gilson.com to access any of the relevant links throughout this guide.

EXPERTISE FOR YOUR APPLICATIONS

For decades, we've been helping researchers advance the pace of discovery by creating easy-to-use, application-oriented lab tools that improve reproducibility and traceability. No matter your application, we have resources, products, and solutions to help make your lab life easier.

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

NATURAL PRODUCTS

Natural products can be both chemically synthesized or isolated from natural sources such as plant and tissue extracts, fermentation broths, etc. Active agents from natural sources are typically found in very low levels and must be extracted and purified to higher concentrations to demonstrate their specific activity. We offer a range of extraction and purification resources and products to benefit your natural products workflows.

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

For more application-specific content, resources, and products, explore our applications center on **gilson.com**.

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.

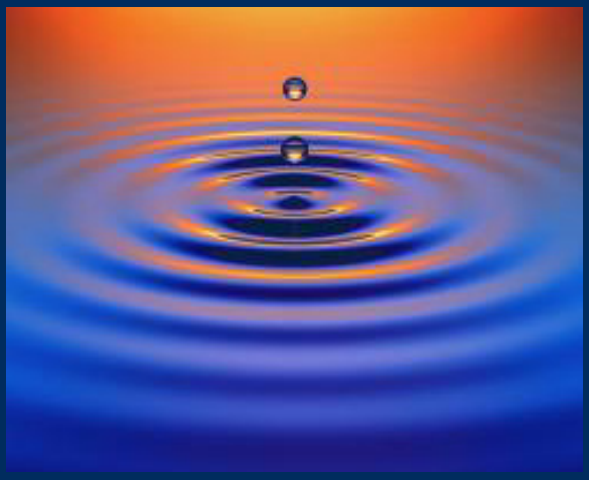
LEARN MORE

FORENSIC TOXICOLOGY

Forensic toxicology is part of the science of pharmacology, and is defined as the analysis of biological samples for the presence of drugs and metabolites or biomarkers. This also includes studying the adverse effects of drugs and chemicals on living organisms. Robust instrumentation, a flexible software interface that meets the needs of the scientist, reproducible methods, and traceability are all needed in regulated environments.

LEARN MORE

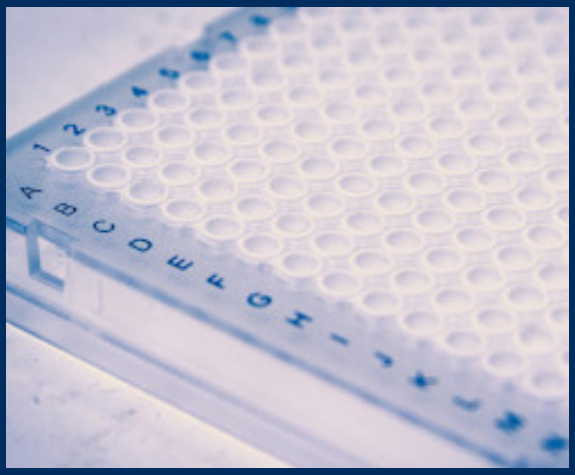
FEATURED APPLICATIONS CONTENT



AUTOMATED SOLID PHASE EXTRACTION (SPE) OF 10 PERFLUORINATED COMPOUNDS (PFAS) FROM TAP WATER

Per- and poly-fluoroalkyl substances (PFAs), sometimes referred to as perfluorinated compounds, are a family of molecules consisting of varying lengths of fluorocarbon chains with a functional group such as carboxylic or sulfonic acid attached. This application note describes the automation of the isolation of 10 PFAs from tap water prior to their analysis by LC/MS.

LEARN MORE



PIPETMAX®: AUTOMATING 384-WELL QPCR PLATE PREPARATION

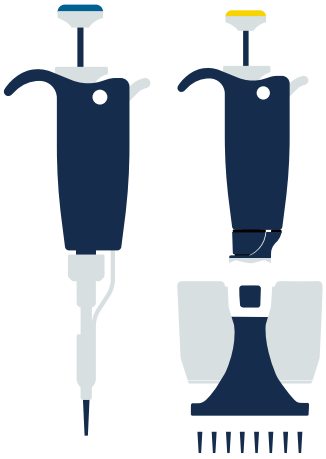
Gene expression studies are often used to gain insight into complex interactions between organisms, including those between plants and viruses. Real-time PCR (qPCR) is a tool frequently used in these studies given its wide dynamic range, sensitivity, and ease of automation. Learn how PIPETMAX can be used to automate qPCR sample prep in this informative app note.

LEARN MORE

SERVICE EXPERTS READY TO HELP

WE'RE HERE TO HELP

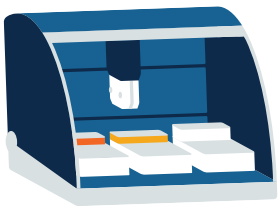
We are committed to the highest caliber of quality and complete customer satisfaction with our suite of products and services. This commitment doesn't end with your purchase—it only just begins. We provide custom solutions to help you meet a wide range of laboratory requirements including: service, preventative 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.



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.



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.

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.

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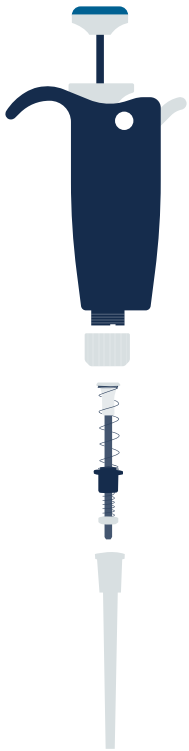


WHAT'S INCLUDED	LITE	PRO	PREMIUM
Visual & Functional Inspection	●	●	●
Internal & External Cleaning	●	●	●
Leak Test	●	●	●
Gravimetric Check	●	●	●
Preventative Maintenance	●	●	●
Re-grease As Needed	●	●	●
Pipette Label	●	●	●
Mail-In or Onsite Service Available	●	●	●
Calibration and Detailed Certificate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

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.

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.

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.

Bring Us Your Idea

Partner with Gilson

Fast Product Development

On-Time Delivery

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

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

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.

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.

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.

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.

PIPETTE SELECTION GUIDE

	Description		Benefits	Throughput	Comfort
Single Channel, Air-displacement	PIPETMAN® M PIPETMAN® M Connected		• Ease-of-Use • On-Target Performance • PIPETMAN® M Connected Makes Manual Processes Verifiable	L—**M**—**H** Medium to High	✓✓✓✓✓
	MyPIPETMAN®		• Technical and Functional Choices • Ergonomic Design • Personalizable • Fully Autoclavable	L—**M**—**H** Medium to High	✓✓✓✓
	PIPETMAN® L		• Performance and Comfort • Secure Pipetting • Fully Autoclavable	L—**M**—**H** Medium to High	✓✓✓✓
	PIPETMAN®		• Reliable Results • Built-to-Last • Easy Pipetting and Handling	**L**—**M**—H Low to Medium	✓✓✓
Multichannel, Air-displacement	PIPETMAN® M PIPETMAN® M Connected		• Ease-of-Use • On-Target Performance • PIPETMAN® M Connected Makes Manual Processes Verifiable	L—**M**—**H** Medium to High	✓✓✓✓✓
	MyPIPETMAN®		• Technical and Functional Choices • Ergonomic Design • Personalizable • Fully Autoclavable	L—**M**—**H** Medium to High	✓✓✓✓
	PIPETMAN® L		• Performance and Comfort • Secure Pipetting • Fully Autoclavable • Models Equipped with V-rings Fit Most Tip Brands	L—**M**—**H** Medium to High	✓✓✓✓
	PIPETMAN®		• Reliable Results • Built-to-Last • Easy pipetting and handling	**L**—**M**—H Low to Medium	✓✓
Positive-displacement	MICROMAN® E		• Reliable Results Even with Non-Aqueous Liquids • Overall Protection • Designed with Comfort in Mind	L—**M**—H Low to Medium	✓✓✓
Semi-auto	PLATEMASTER®		• Save Time and Increase Your Productivity • Simplifies Sample Prep • Convenient for any Microplate Application	L—M—**H** High	✓✓✓✓
Automated	PIPETMAX®		• Upgrade to Automation for Reliable, Accurate Pipetting • Free Yourself from Tedious Sample Prep Work • Stay Flexible—for Now and for the Future • PIPETMAN® Inside	L—M—**H** High	✓✓✓✓✓

PIPETTE FAMILIES

What are Manual Air-Displacement Pipettes?

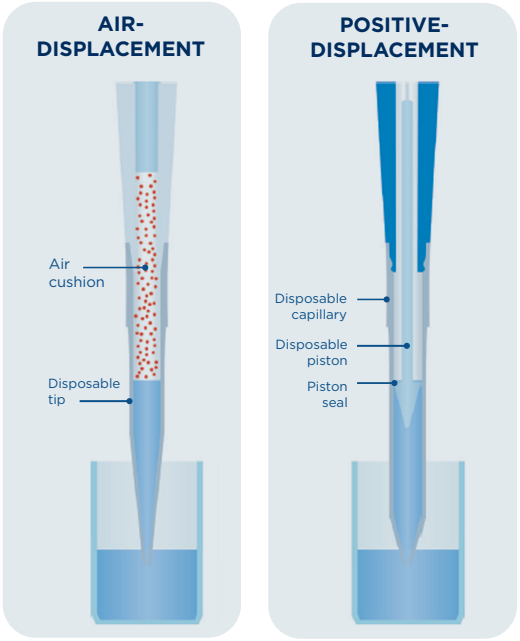
Air-displacement pipettes are very accurate for standard pipetting applications. The piston, integrated in the lower part of the pipette, moves the liquid under the action of an air cushion (called dead volume) between the pipette and the liquid sample. It is recommended to use an air-displacement pipette 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.

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.



Watch Video

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 Biochemistry Clinical assays and immunoassays Cell culture Analytical chemistry	PIPETMAN® M Connected* PIPETMAN® M* MyPIPETMAN® PIPETMAN® L PIPETMAN®	PIPETMAN® DIAMOND Tips AmpliPur® Expert Tips PIPETMAN® Expert Tips*
Viscous (ex. glycerol, surfactants, oil)	Molecular Biology Petrochemistry Point of Care Diagnostic Pharmaceutical Cosmetics Environment Food Quality Control	MICROMAN® E DISTRIMAN®	Capillary Pistons 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)			

*Available in select countries

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.

Find more tools and resources at www.gilson.com.

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

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 PipetteScope®

Watch Videos

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.

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 page 14.

P28 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

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.

Visit www.gilson.com. to learn more about TRACKMAN Connected Starter Kits.

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

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 APPLICATIONS

PipettePilot®

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.

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.

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.

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

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

PIPETMAN® M CONNECTED SINGLE CHANNEL

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume Range	Gilson Specifications – Standard PIPET Mode						ISO 8655-2 (Table 1) – REPETITIVE Mode				
						Vol. (µL)	Vol. (%)	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Volume Range	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P10M	D10 DL10	DF10ST DFL10ST	**F81040**	10	0.5–10 µL	0.5 1 5 10	5.0 10 50 100	± 0.040 ± 0.025 ± 0.060 ± 0.080	≤ 0.013 ≤ 0.012 ≤ 0.020 ≤ 0.025	± 8.0 ± 2.5 ± 1.2 ± 0.8	≤ 2.6 ≤ 1.2 ≤ 0.4 ≤ 0.25	0.5–10 µL	N/A ± 0.120 ± 0.120 ± 0.120	N/A ≤ 0.080 ≤ 0.080 ≤ 0.080	N/A ± 12 ± 2.4 ± 1.2	N/A ≤ 8.0 ≤ 1.6 ≤ 0.8
P20M	D200	DF30ST	**F81041**	20	2–20 µL	2 10 20	10 50 100	± 0.075 ± 0.10 ± 0.15	≤ 0.025 ≤ 0.035 ≤ 0.050	± 3.75 ± 1.0 ± 0.75	≤ 1.25 ≤ 0.35 ≤ 0.25	2–20 µL	± 0.20 ± 0.20 ± 0.20	≤ 0.100 ≤ 0.100 ≤ 0.100	± 10 ± 2.0 ± 1.0	≤ 5.0 ≤ 1.0 ≤ 0.5
P100M	D200	DF100ST	**F81042**	100	5–100 µL	5 10 50 100	5.0 10 50 100	± 0.35 ± 0.30 ± 0.38 ± 0.40	≤ 0.10 ≤ 0.10 ≤ 0.12 ≤ 0.15	± 7.0 ± 3.0 ± 0.76 ± 0.4	≤ 2.0 ≤ 1.0 ≤ 0.24 ≤ 0.15	5–100 µL	N/A ± 0.80 ± 0.80 ± 0.80	N/A ≤ 0.300 ≤ 0.300 ≤ 0.300	N/A ± 8.0 ± 1.6 ± 0.80	N/A ≤ 3.0 ≤ 0.60 ≤ 0.30
P200M	D200 D300	DF200ST DF300ST	**F81043**	200	20–200 µL	20 100 200	10 50 100	± 0.40 ± 0.80 ± 1.00	≤ 0.15 ≤ 0.22 ≤ 0.26	± 2.0 ± 0.8 ± 0.5	≤ 0.75 ≤ 0.22 ≤ 0.13	5–200 µL	± 1.60 ± 1.60 ± 1.60	≤ 0.600 ≤ 0.600 ≤ 0.600	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P300M	D200 D300	DF200ST DF300ST	**F81044**	300	20–300 µL	20 30 150 300	6.7 10 50 100	± 0.80 ± 0.70 ± 0.90 ± 1.05	≤ 0.16 ≤ 0.20 ≤ 0.23 ≤ 0.30	± 4.0 ± 2.333 ± 0.6 ± 0.35	≤ 0.8 ≤ 0.667 ≤ 0.153 ≤ 0.1	10–300 µL	N/A ± 2.4 ± 2.4 ± 2.4	N/A ≤ 0.9 ≤ 0.9 ≤ 0.9	N/A ± 8.0 ± 1.6 ± 0.80	N/A ≤ 3.0 ≤ 0.60 ≤ 0.30
P1200M	D1000 D1200	DF1000ST DF1200ST	**F81045**	1200	100–1200 µL	100 120 600 1200	8.3 10 50 100	± 2.5 ± 2.4 ± 3.6 ± 6.0	≤ 0.4 ≤ 0.4 ≤ 0.8 ≤ 1.2	± 2.5 ± 2.0 ± 0.6 ± 0.5	≤ 0.4 ≤ 0.33 ≤ 0.13 ≤ 0.1	20–1200 µL	N/A ± 9.6 ± 9.6 ± 9.6	N/A ≤ 3.6 ≤ 3.6 ≤ 3.6	N/A ± 8.00 ± 1.60 ± 0.80	N/A ≤ 3.0 ≤ 0.6 ≤ 0.30
P5000M	D5000		**F81046**	5000	500–5000 µL	500 2500 5000	10 50 100	± 10 ± 15 ± 25	≤ 2 ≤ 4 ≤ 7	± 2.0 ± 0.6 ± 0.5	≤ 0.4 ≤ 0.16 ≤ 0.14	100–5000 µL	± 40.0 ± 40.0 ± 40.0	≤ 15.0 ≤ 15.0 ≤ 15.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P10mLM	D10mL		**F81047**	10000	1–10 mL	1000 5000 10000	10 50 100	± 25 ± 30 ± 50	≤ 4 ≤ 8 ≤ 12	± 2.5 ± 0.6 ± 0.5	≤ 0.4 ≤ 0.16 ≤ 0.12	200 µL–10 mL	± 60.0 ± 60.0 ± 60.0	≤ 30.0 ≤ 30.0 ≤ 30.0	± 6.0 ± 1.2 ± 0.60	≤ 3.0 ≤ 0.60 ≤ 0.30

PIPETMAN® M CONNECTED MULTICHANNEL

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume Range	Gilson Specifications – Standard PIPET Mode						ISO 8655-2 (Table 2) – REPETITIVE Mode				
						Vol. (µL)	Vol. (%)	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Volume Range	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P8x10M	D10 DL10	DF10ST DFL10ST	**F81048**	10	0.5–10 µL	0.5 1 5 10	5.0 10 50 100	± 0.05 ± 0.04 ± 0.08 ± 0.1	≤ 0.02 ≤ 0.02 ≤ 0.04 ≤ 0.06	± 10.0 ± 4.0 ± 1.6 ± 1.0	4.0 2.0 0.8 0.6	0.5–10 µL	N/A ± 0.24 ± 0.24 ± 0.24	N/A ≤ 0.16 ≤ 0.16 ≤ 0.16	N/A ± 24 ± 4.8 ± 2.4	N/A 1 ≤ 6 ≤ 3.2 ≤ 1.6
P12x10M			**F81049**													
P8x20M	DL10 D200	DFL10ST DF30ST	**F81050**	20	1–20 µL	1 2 10 20	5.0 10 50 100	± 0.08 ± 0.09 ± 0.15 ± 0.25	≤ 0.05 ≤ 0.06 ≤ 0.10 ≤ 0.12	± 8.0 ± 4.5 ± 1.5 ± 1.25	≤ 5.0 ≤ 3.0 ≤ 1.0 ≤ 0.6	1–20 µL	N/A ± 0.40 ± 0.40 ± 0.40	N/A ≤ 0.20 ≤ 0.20 ≤ 0.20	N/A ± 20 ± 4.0 ± 2.0	N/A ≤ 10 ≤ 2.0 ≤ 1.0
P12x20M			**F81051**													
P8x100M	D200	DF100ST	**F81052**	100	10–100 µL	10 50 100	10 50 100	± 0.25 ± 0.50 ± 0.80	≤ 0.14 ≤ 0.20 ≤ 0.25	± 2.5 ± 1.0 ± 0.8	≤ 1.4 ≤ 0.4 ≤ 0.25	5–100 µL	± 1.60 ± 1.60 ± 1.60	≤ 0.60 ≤ 0.60 ≤ 0.60	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P12x100M			**F81053**													
P8x200M	D200 D300	DF100ST DF200ST DF300T	**F81054**	200	20–200 µL	20 100 200	10 50 100	± 0.50 ± 1.00 ± 2.00	≤ 0.16 ≤ 0.30 ≤ 0.50	± 2.5 ± 1.0 ± 1.0	≤ 0.8 ≤ 0.3 ≤ 0.25	5–200 µL	± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P12x200M			**F81055**													
P8x300M	D200 D300	DF200ST DF300ST	**F81056**	300	10–300 µL	10 30 150 300	3.3 10 50 100	± 1.00 ± 1.00 ± 1.50 ± 2.40	≤ 0.18 ≤ 0.18 ≤ 0.375 ≤ 0.45	± 10.0 ± 3.33 ± 1.0 ± 0.8	≤ 1.8 ≤ 0.6 ≤ 0.25 ≤ 0.15	10–300 µL	N/A ± 4.8 ± 4.8 ± 4.8	N/A ≤ 1.8 ≤ 1.8 ≤ 1.8	N/A ± 16 ± 3.2 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x300M			**F81057**													
P8x1200M	D1200	DF1200ST	**F81058**	1200	50–1200 µL	50 120 600 1200	4.2 10 50 100	± 4.0 ± 4.0 ± 6.0 ± 9.6	≤ 0.7 ≤ 0.7 ≤ 1.5 ≤ 1.8	± 8.0 ± 3.33 ± 1.0 ± 0.8	≤ 1.4 ≤ 0.58 ≤ 0.25 ≤ 0.15	50–1200 µL	N/A ± 19.2 ± 19.2 ± 19.2	N/A ≤ 7.2 ≤ 7.2 ≤ 7.2	N/A ± 16 ± 3.20 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x1200M			**F81059**													

*CV means Coefficient of Variation (%)

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

Under these conditions, Gilson volumetric specifications in standard pipetting (PIPET Mode) are guaranteed with a performance exceeding ISO 8655-2 recommendations for this Mode. In the absence of ISO recommendations for repetitive pipetting Mode for air displacement pipettes. Gilson volumetric specifications for repetitive pipetting (REPETITIVE Mode) are guaranteed within ISO 8655-2 recommendations for standard pipetting (Cf. ISO 8655-2 table 1).

P28 **Full range of accessories can be found on page 28.**

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 performance in 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.

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

PIPETMAN® M SINGLE CHANNEL

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume Range	Gilson Specifications – Standard PIPET Mode						ISO 8655-2 (Table 1) – REPETITIVE Mode				
						Vol. (µL)	Vol. (%)	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Volume Range	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P10M	D10 DL10	DF10ST DFL10ST	**F81040**	10	0.5–10 µL	0.5 1 5 10	5.0 10 50 100	± 0.040 ± 0.025 ± 0.060 ± 0.080	≤ 0.013 ≤ 0.012 ≤ 0.020 ≤ 0.025	± 8.0 ± 2.5 ± 1.2 ± 0.8	≤ 2.6 ≤ 1.2 ≤ 0.4 ≤ 0.25	0.5–10 µL	N/A ± 0.120 ± 0.120 ± 0.120	N/A ≤ 0.080 ≤ 0.080 ≤ 0.080	N/A ± 12 ± 2.4 ± 1.2	N/A ≤ 8.0 ≤ 1.6 ≤ 0.8
P20M	D200	DF30ST	**F81041**	20	2–20 µL	2 10 20	10 50 100	± 0.075 ± 0.10 ± 0.15	≤ 0.025 ≤ 0.035 ≤ 0.050	± 3.75 ± 1.0 ± 0.75	≤ 1.25 ≤ 0.35 ≤ 0.25	2–20 µL	± 0.20 ± 0.20 ± 0.20	≤ 0.100 ≤ 0.100 ≤ 0.100	± 10 ± 2.0 ± 1.0	≤ 5.0 ≤ 1.0 ≤ 0.5
P100M	D200	DF100ST	**F81042**	100	5–100 µL	5 10 50 100	5.0 10 50 100	± 0.35 ± 0.30 ± 0.38 ± 0.40	≤ 0.10 ≤ 0.10 ≤ 0.12 ≤ 0.15	± 7.0 ± 3.0 ± 0.76 ± 0.4	≤ 2.0 ≤ 1.0 ≤ 0.24 ≤ 0.15	5–100 µL	N/A ± 0.80 ± 0.80 ± 0.80	N/A ≤ 0.300 ≤ 0.300 ≤ 0.300	N/A ± 8.0 ± 1.6 ± 0.80	N/A ≤ 3.0 ≤ 0.60 ≤ 0.30
P200M	D200 D300	DF200ST DF300ST	**F81043**	200	20–200 µL	20 100 200	10 50 100	± 0.40 ± 0.80 ± 1.00	≤ 0.15 ≤ 0.22 ≤ 0.26	± 2.0 ± 0.8 ± 0.5	≤ 0.75 ≤ 0.22 ≤ 0.13	5–200 µL	± 1.60 ± 1.60 ± 1.60	≤ 0.600 ≤ 0.600 ≤ 0.600	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P300M	D200 D300	DF200ST DF300ST	**F81044**	300	20–300 µL	20 30 150 300	6.7 10 50 100	± 0.80 ± 0.70 ± 0.90 ± 1.05	≤ 0.16 ≤ 0.20 ≤ 0.23 ≤ 0.30	± 4.0 ± 2.333 ± 0.6 ± 0.35	≤ 0.8 ≤ 0.667 ≤ 0.153 ≤ 0.1	10–300 µL	N/A ± 2.4 ± 2.4 ± 2.4	N/A ≤ 0.9 ≤ 0.9 ≤ 0.9	N/A ± 8.0 ± 1.6 ± 0.80	N/A ≤ 3.0 ≤ 0.60 ≤ 0.30
P1200M	D1000 D1200	DF1000ST DF1200ST	**F81045**	1200	100–1200 µL	100 120 600 1200	8.3 10 50 100	± 2.5 ± 2.4 ± 3.6 ± 6.0	≤ 0.4 ≤ 0.4 ≤ 0.8 ≤ 1.2	± 2.5 ± 2.0 ± 0.6 ± 0.5	≤ 0.4 ≤ 0.33 ≤ 0.13 ≤ 0.1	20–1200 µL	N/A ± 9.6 ± 9.6 ± 9.6	N/A ≤ 3.6 ≤ 3.6 ≤ 3.6	N/A ± 8.00 ± 1.60 ± 0.80	N/A ≤ 3.0 ≤ 0.6 ≤ 0.30
P5000M	D5000		**F81046**	5000	500–5000 µL	500 2500 5000	10 50 100	± 10 ± 15 ± 25	≤ 2 ≤ 4 ≤ 7	± 2.0 ± 0.6 ± 0.5	≤ 0.4 ≤ 0.16 ≤ 0.14	100–5000 µL	± 40.0 ± 40.0 ± 40.0	≤ 15.0 ≤ 15.0 ≤ 15.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P10mLM	D10mL		**F81047**	10000	1–10 mL	1000 5000 10000	10 50 100	± 25 ± 30 ± 50	≤ 4 ≤ 8 ≤ 12	± 2.5 ± 0.6 ± 0.5	≤ 0.4 ≤ 0.16 ≤ 0.12	200 µL–10 mL	± 60.0 ± 60.0 ± 60.0	≤ 30.0 ≤ 30.0 ≤ 30.0	± 6.0 ± 1.2 ± 0.60	≤ 3.0 ≤ 0.60 ≤ 0.30

PIPETMAN® M MULTICHANNEL

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume Range	Gilson Specifications – Standard PIPET Mode						ISO 8655-2 (Table 2) – REPETITIVE Mode				
						Vol. (µL)	Vol. (%)	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Volume Range	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P8x10M	D10 DL10	DF10ST DFL10ST	**F81048**	10	0.5–10 µL	0.5 1 5 10	5.0 10 50 100	± 0.05 ± 0.04 ± 0.08 ± 0.1	≤ 0.02 ≤ 0.02 ≤ 0.04 ≤ 0.06	± 10.0 ± 4.0 ± 1.6 ± 1.0	4.0 2.0 0.8 0.6	0.5–10 µL	N/A ± 0.24 ± 0.24 ± 0.24	N/A ≤ 0.16 ≤ 0.16 ≤ 0.16	N/A ± 24 ± 4.8 ± 2.4	N/A 1 ≤ 6 ≤ 3.2 ≤ 1.6
P12x10M			**F81049**													
P8x20M	DL10 D200	DFL10ST DF30ST	**F81050**	20	1–20 µL	1 2 10 20	5.0 10 50 100	± 0.08 ± 0.09 ± 0.15 ± 0.25	≤ 0.05 ≤ 0.06 ≤ 0.10 ≤ 0.12	± 8.0 ± 4.5 ± 1.5 ± 1.25	≤ 5.0 ≤ 3.0 ≤ 1.0 ≤ 0.6	1–20 µL	N/A ± 0.40 ± 0.40 ± 0.40	N/A ≤ 0.20 ≤ 0.20 ≤ 0.20	N/A ± 20 ± 4.0 ± 2.0	N/A ≤ 10 ≤ 2.0 ≤ 1.0
P12x20M			**F81051**													
P8x100M	D200	DF100ST	**F81052**	100	10–100 µL	10 50 100	10 50 100	± 0.25 ± 0.50 ± 0.80	≤ 0.14 ≤ 0.20 ≤ 0.25	± 2.5 ± 1.0 ± 0.8	≤ 1.4 ≤ 0.4 ≤ 0.25	5–100 µL	± 1.60 ± 1.60 ± 1.60	≤ 0.60 ≤ 0.60 ≤ 0.60	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P12x100M			**F81053**													
P8x200M	D200 D300	DF100ST DF200ST DF300T	**F81054**	200	20–200 µL	20 100 200	10 50 100	± 0.50 ± 1.00 ± 2.00	≤ 0.16 ≤ 0.30 ≤ 0.50	± 2.5 ± 1.0 ± 1.0	≤ 0.8 ≤ 0.3 ≤ 0.25	5–200 µL	± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P12x200M			**F81055**													
P8x300M	D200 D300	DF200ST DF300ST	**F81056**	300	10–300 µL	10 30 150 300	3.3 10 50 100	± 1.00 ± 1.00 ± 1.50 ± 2.40	≤ 0.18 ≤ 0.18 ≤ 0.375 ≤ 0.45	± 10.0 ± 3.33 ± 1.0 ± 0.8	≤ 1.8 ≤ 0.6 ≤ 0.25 ≤ 0.15	10–300 µL	N/A ± 4.8 ± 4.8 ± 4.8	N/A ≤ 1.8 ≤ 1.8 ≤ 1.8	N/A ± 16 ± 3.2 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x300M			**F81057**													
P8x1200M	D1200	DF1200ST	**F81058**	1200	50–1200 µL	50 120 600 1200	4.2 10 50 100	± 4.0 ± 4.0 ± 6.0 ± 9.6	≤ 0.7 ≤ 0.7 ≤ 1.5 ≤ 1.8	± 8.0 ± 3.33 ± 1.0 ± 0.8	≤ 1.4 ≤ 0.58 ≤ 0.25 ≤ 0.15	50–1200 µL	N/A ± 19.2 ± 19.2 ± 19.2	N/A ≤ 7.2 ≤ 7.2 ≤ 7.2	N/A ± 16 ± 3.20 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x1200M			**F81059**													

*CV means Coefficient of Variation (%)

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

Under these conditions. Gilson volumetric specifications in standard pipetting (PIPET Mode) are guaranteed with a performance exceeding ISO 8655-2 recommendations for this Mode. In the absence of ISO recommendations for repetitive pipetting Mode for air displacement pipettes. Gilson volumetric specifications for repetitive pipetting (REPETITIVE Mode) are guaranteed within ISO 8655-2 recommendations for standard pipetting (Cf. ISO 8655-2 table 1).

ACCESSORIES

Description	Part Number
PIPETMAN M Power Carrousel	**FB1001**
PIPETMAN M Stand Adaptor	**F807023**

P28 Full range of accessories can be found on page 28.

MyPipetman®

ENTERPRISE

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)

3-position system for volume setting and locking

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 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.

MYPIPETMAN® SINGLE CHANNEL MODELS

Model	PIPETMAN® DIAMOND Tips		Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
						Gilson				ISO 8655-2 (Table 1)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
MyPIPETMAN P2	D10 DL10	DF10ST DFL10ST	2	0.2 0.5 1 2	10 25 50 100	± 0.024 ± 0.025 ± 0.025 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.012 ≤ 0.014	± 12.0 ± 5.0 ± 2.5 ± 1.5	≤ 6.0 ≤ 2.4 ≤ 1.2 ≤ 0.7	± 0.050 ± 0.050 ± 0.050 ± 0.050	≤ 0.040 ≤ 0.040 ≤ 0.040 ≤ 0.040	± 25 ± 10 ± 5.0 ± 2.5	≤ 20 ≤ 8 ≤ 4.0 ≤ 2.0
MyPIPETMAN P10	D10 DL10	DF10ST DFL10ST	10	1 5 10	10 50 100	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 2.5 ± 1.5 ± 1.0	≤ 1.2 ≤ 0.6 ≤ 0.4	± 0.120 ± 0.120 ± 0.120	≤ 0.080 ≤ 0.080 ≤ 0.080	± 12 ± 2.4 ± 1.2	≤ 8.0 ≤ 1.6 ≤ 0.8
MyPIPETMAN P20	D200	DF30ST	20	2 10 20	10 50 100	± 0.10 ± 0.10 ± 0.20	≤ 0.030 ≤ 0.050 ≤ 0.060	± 5.0 ± 1.0 ± 1.0	≤ 1.5 ≤ 0.5 ≤ 0.3	± 0.20 ± 0.20 ± 0.20	≤ 0.100 ≤ 0.100 ≤ 0.100	± 10 ± 2.0 ± 1.0	≤ 5.0 ≤ 1.0 ≤ 0.5
MyPIPETMAN P100	D200	DF100ST	100	10 50 100	10 50 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 3.5 ± 0.8 ± 0.8	≤ 1.0 ≤ 0.24 ≤ 0.15	± 0.80 ± 0.80 ± 0.80	≤ 0.300 ≤ 0.300 ≤ 0.300	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
MyPIPETMAN P200	D200 D300	DF200ST DF300ST	200	20 100 200	10 50 100	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 2.5 ± 0.8 ± 0.8	≤ 1.0 ≤ 0.25 ≤ 0.15	± 1.60 ± 1.60 ± 1.60	≤ 0.600 ≤ 0.600 ≤ 0.600	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
MyPIPETMAN P1000	D1000 D1200	DF1000ST DF1200ST	1000	100 500 1000	10 50 100	± 3.0 ± 4.0 ± 8.0	≤ 0.6 ≤ 1.0 ≤ 1.5	± 3.0 ± 0.8 ± 0.8	≤ 0.6 ≤ 0.2 ≤ 0.15	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
MyPIPETMAN P5000	D5000		5000	500 2500 5000	10 50 100	± 12 ± 15 ± 30	≤ 3 ≤ 5 ≤ 8	± 2.4 ± 0.6 ± 0.6	≤ 0.6 ≤ 0.2 ≤ 0.16	± 40.0 ± 40.0 ± 40.0	≤ 15.0 ≤ 15.0 ≤ 15.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
MyPIPETMAN P10mL	D10mL		10000	1000 5000 10000	10 50 100	± 30 ± 40 ± 60	≤ 6 ≤ 10 ≤ 16	± 3.0 ± 0.8 ± 0.6	≤ 0.6 ≤ 0.2 ≤ 0.16	± 60.0 ± 60.0 ± 60.0	≤ 30.0 ≤ 30.0 ≤ 30.0	± 6.0 ± 1.2 ± 0.60	≤ 3.0 ≤ 0.60 ≤ 0.30

MYPIPETMAN® MULTICHANNEL MODELS

Model	PIPETMAN® DIAMOND Tips		Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
						Gilson				ISO 8655-2 (Table 2)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
MyPIPETMAN P8x10 MyPIPETMAN P12x10	D10 DL10	DF10ST DFL10ST	10	0.5 1 5 10	5.0 10 50 100	± 0.08 ± 0.08 ± 0.20 ± 0.20	≤ 0.04 ≤ 0.05 ≤ 0.10 ≤ 0.10	± 16.0 ± 8.0 ± 4.0 ± 2.0	≤ 8.0 ≤ 5.0 ≤ 2.0 ≤ 1.0	N/A ± 0.24 ± 0.24 ± 0.24	N/A ≤ 0.16 ≤ 0.16 ≤ 0.16	N/A ± 24 ± 4.8 ± 2.4	N/A ≤ 16 ≤ 3.2 ≤ 1.6
MyPIPETMAN P8x20 MyPIPETMAN P12x20	DL10 D200	DFL10ST DF30ST	20	2 10 20	10 50 100	± 0.10 ± 0.20 ± 0.40	≤ 0.08 ≤ 0.10 ≤ 0.20	± 5.0 ± 2.0 ± 2.0	≤ 4.0 ≤ 1.0 ≤ 1.0	± 0.40 ± 0.40 ± 0.4 0	≤ 0.20 ≤ 0.20 ≤ 0.20	± 20 ± 4.0 ± 2.0	≤ 10 ≤ 2.0 ≤ 1.0
MyPIPETMAN P8x200 MyPIPETMAN P12x200	D200 D300	DF200ST DF300ST	200	20 100 200	10 50 100	± 0.50 ± 1.00 ± 2.00	≤ 0.25 ≤ 0.40 ≤ 0.50	± 2.5 ± 1.0 ± 1.0	≤ 1.25 ≤ 0.40 ≤ 0.25	± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
MyPIPETMAN P8x300 MyPIPETMAN P12x300	D200 D300	DF200ST DF300ST	300	20 30 150 300	6.7 10 50 100	± 1.00 ± 1.00 ± 1.50 ± 3.00	≤ 0.35 ≤ 0.35 ≤ 0.60 ≤ 1.00	± 5.0 ± 3.33 ± 1.0 ± 1.0	≤ 1.75 ≤ 1.17 ≤ 0.4 ≤ 0.33	N/A ± 4.8 ± 4.8 ± 4.8	N/A ≤ 1.8 ≤ 1.8 ≤ 1.8	N/A ± 16 ± 3.2 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60

*CV means Coefficient of Variation (%)

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

P28 **Full range of accessories can be found on page 28.**

MyPipetman®

SELECT

SELECT OPTIONS FOR IMPROVED PIPETTING

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

Set and Secure the Volume your Preferred Way

The unique and patented 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.

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.

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.

Please contact your Gilson Account Manager for special text printing. Personalized pipettes part numbers are finishing with SP (Select Personalized) instead of S (Select).

Extra Personalization and 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.

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

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

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.

MyPIPETMAN Select specifications are available on page 19.

Full range of accessories can be found on page 28.

MyPIPETMAN® Select				
Model	**PIPETMAN® DIAMOND Tips**		**Part Number**	**Volume (µL)**
Single Channel Models				
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
Multichannel Models				
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**	

pipetman®

L

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.

Adjustable Tip Ejector

*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.

P28 Full range of accessories can be found on page 28.

PIPETMAN® L SINGLE CHANNEL—VARIABLE VOLUME MODELS

Model	PIPETMAN® DIAMOND Tips		Part Number		Nominal Volume (µL)	Volume (µL)	Maximum Permissible Errors							
							Gilson				ISO 8655-2 (Table 1)			
			With Stainless Steel Ejector	With Plastic Ejector			Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P2L	D10 DL10	DF10ST DFL10ST	FA10001M	FA10001P	2	0.2 0.5 1 2	± 0.024 ± 0.025 ± 0.027 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.013 ≤ 0.014	± 12.0 ± 5.0 ± 2.7 ± 1.5	≤ 6.0 ≤ 2.4 ≤ 1.3 ≤ 0.7	± 0.050 ± 0.050 ± 0.050 ± 0.050	≤ 0.040 ≤ 0.040 ≤ 0.040 ≤ 0.040	± 25 ± 10 ± 5.0 ± 2.5	≤ 20 ≤ 8 ≤ 4.0 ≤ 2.0
P10L	D10 DL10	DF10ST DFL10ST	FA10002M	FA10002P	10	1 5 10	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 2.5 ± 1.5 ± 1.0	≤ 1.2 ≤ 0.6 ≤ 0.4	± 0.120 ± 0.120 ± 0.120	≤ 0.080 ≤ 0.080 ≤ 0.080	± 12 ± 2.4 ± 1.2	≤ 8.0 ≤ 1.6 ≤ 0.8
P20L	D200	DF30ST	FA10003M	FA10003P	20	2 10 20	± 0.10 ± 0.10 ± 0.20	≤ 0.030 ≤ 0.050 ≤ 0.060	± 5.0 ± 1.0 ± 1.0	≤ 1.5 ≤ 0.5 ≤ 0.3	± 0.20 ± 0.20 ± 0.20	≤ 0.100 ≤ 0.100 ≤ 0.100	± 10 ± 2.0 ± 1.0	≤ 5.0 ≤ 1.0 ≤ 0.5
P100L	D200	DF100ST	FA10004M	FA10004P	100	10 50 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 3.5 ± 0.8 ± 0.8	≤ 1.0 ≤ 0.24 ≤ 0.15	± 0.80 ± 0.80 ± 0.80	≤ 0.300 ≤ 0.300 ≤ 0.300	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P200L	D200 D300	DF200ST DF300ST	FA10005M	FA10005P	200	20 100 200	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 2.5 ± 0.8 ± 0.8	≤ 1.0 ≤ 0.25 ≤ 0.15	± 1.60 ± 1.60 ± 1.60	≤ 0.600 ≤ 0.600 ≤ 0.600	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P1000L	D1000 D1200	DF1000ST DF1200ST	FA10006M	FA10006P	1000	100 500 1000	± 3.0 ± 4.0 ± 8.0	≤ 0.6 ≤ 1.0 ≤ 1.5	± 3.0 ± 0.8 ± 0.8	≤ 0.6 ≤ 0.2 ≤ 0.15	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P5000L	D5000		FA10007		5000	500 2500 5000	± 12 ± 15 ± 30	≤ 3 ≤ 5 ≤ 8	± 2.4 ± 0.6 ± 0.6	≤ 0.6 ≤ 0.2 ≤ 0.16	± 40.0 ± 40.0 ± 40.0	≤ 15.0 ≤ 15.0 ≤ 15.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P10mLL	D10mL		FA10008		10000	1000 5000 10000	± 30 ± 40 ± 60	≤ 6 ≤ 10 ≤ 16	± 3.0 ± 0.8 ± 0.6	≤ 0.6 ≤ 0.2 ≤ 0.16	± 60.0 ± 60.0 ± 60.0	≤ 30.0 ≤ 30.0 ≤ 30.0	± 6.0 ± 1.2 ± 0.60	≤ 3.0 ≤ 0.60 ≤ 0.30

PIPETMAN® L MULTICHANNEL MODELS

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume (µL)	Maximum Permissible Errors							
						Gilson				ISO 8655-2 (Table 2)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P8x10L	D10 DL10	DF10ST DFL10ST	FA10013	10	0.5 1 5 10	± 0.08 ± 0.08 ± 0.20 ± 0.20	≤ 0.04 ≤ 0.05 ≤ 0.10 ≤ 0.10	± 16.0 ± 8.0 ± 4.0 ± 2.0	≤ 8.0 ≤ 5.0 ≤ 2.0 ≤ 1.0	N/A ± 0.24 ± 0.24 ± 0.24	N/A ≤ 0.16 ≤ 0.16 ≤ 0.16	N/A ± 24 ± 4.8 ± 2.4	N/A ≤ 16 ≤ 3.2 ≤ 1.6
P12x10L			FA10014										
P8x20L	DL10 D200	DFL10ST DF30ST	FA10009	20	2 10 20	± 0.10 ± 0.20 ± 0.40	≤ 0.08 ≤ 0.10 ≤ 0.20	± 5.0 ± 2.0 ± 2.0	≤ 4.0 ≤ 1.0 ≤ 1.0	± 0.40 ± 0.40 ± 0.40	≤ 0.20 ≤ 0.20 ≤ 0.20	± 20 ± 4.0 ± 2.0	≤ 10 ≤ 2.0 ≤ 1.0
P12x20L			FA10010										
P8x200L	D200 D300	DF200ST DF300ST	FA10011	200	20 100 200	± 0.50 ± 1.00 ± 2.00	≤ 0.25 ≤ 0.40 ≤ 0.50	± 2.5 ± 1.0 ± 1.0	≤ 1.25 ≤ 0.4 ≤ 0.25	± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P12x200L			FA10012										
P8x200LVR	D200 D300	DF200ST DF300ST	FA10035	200	20 100 200	± 0.50 ± 1.00 ± 2.00	≤ 0.25 ≤ 0.40 ≤ 0.50	± 2.5 ± 1.0 ± 1.0	≤ 1.25 ≤ 0.4 ≤ 0.25	± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P12x200LVR			FA10036										
P8x300L	D200 D300	DF200ST DF300ST	FA10015	300	20 30 150 300	± 1.00 ± 1.00 ± 1.50 ± 3.00	≤ 0.35 ≤ 0.35 ≤ 0.60 ≤ 1.00	± 5,0 ± 3,33 ± 1.0 ± 1.0	≤ 1.75 ≤ 1.17 ≤ 0.4 ≤ 0.33	N/A ± 4.8 ± 4.8 ± 4.8	N/A ≤ 1.8 ≤ 1.8 ≤ 1.8	N/A ± 16 ± 3.2 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x300L			FA10016										
P8x300LVR	D200 D300	DF200ST DF300ST	FA10037	300	20 30 150 300	± 1.00 ± 1.00 ± 1.50 ± 3.00	≤ 0.35 ≤ 0.35 ≤ 0.60 ≤ 1.00	± 5,0 ± 3,33 ± 1.0 ± 1.0	≤ 1.75 ≤ 1.17 ≤ 0.4 ≤ 0.33	N/A ± 4.8 ± 4.8 ± 4.8	N/A ≤ 1.8 ≤ 1.8 ≤ 1.8	N/A ± 16 ± 3.2 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x300LVR			FA10038										
P8x1200L	D1200	DF1200ST	FA10039	1200	100 120 600 1200	± 6.0 ± 6.0 ± 8.0 ± 10.0	≤ 0.9 ≤ 0.9 ≤ 1.2 ≤ 1.5	± 6.0 ± 5.0 ± 1.33 ± 0.83	≤ 0.9 ≤ 0.75 ≤ 0.2 ≤ 0.13	N/A ± 19.2 ± 19.2 ± 19.2	N/A ≤ 7.2 ≤ 7.2 ≤ 7.2	N/A ± 16 ± 3.2 ± 1.6	N/A ≤ 6.0 ≤ 1.2 ≤ 0.60
P12x1200L			FA10040										

*CV means Coefficient of Variation (%) | 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 1 Gilson Guide to Pipetting 1 Two-minute inspection poster
PIPETMAN L Micro-volume Kit	F167550	P2L P10L P100L	DL10 D200	3 SINGLE™ pipette holders 3 plastic ejectors 1 Gilson Guide to Pipetting 1 Two-minute inspection poster
PIPETMAN L 4-Pipette Kit	F167370	P2L P20L P200L P1000L	DL10 D200 D1000	4 SINGLE™ pipette holders 1 Gilson Guide to Pipetting 1 Two-minute inspection poster

*PIPETMAN L are already equipped with stainless-steel tip ejectors. Plastic tip ejectors are provided as accessories in Micro-volume and Starter Kits.

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	Nominal Volume (µL)	Volume (µL)	Gilson				ISO 8655-2 (Table 1)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
F1L	D10 DL10	DF10ST DFL10ST	**FA10017**	1	1	± 0.020	≤ 0.015	± 2.0	≤ 1.5	± 0.025	≤ 0.020	± 2.5	≤ 2.0
F2L	D10 DL10	DF10ST DFL10ST	**FA10018**	2	2	± 0.050	≤ 0.020	± 2.5	≤ 1.0	± 0.050	≤ 0.040	± 2.5	≤ 2.0
F5L	D10 DL10	DF10ST DFL10ST	**FA10019**	5	5	± 0.050	≤ 0.025	± 1.0	≤ 0.5	± 0.125	≤ 0.075	± 2.5	≤ 1.5
F10L	D10 DL10	DF10ST DFL10ST	**FA10020**	10	10	± 0.060	≤ 0.030	± 0.6	≤ 0.3	± 0.120	≤ 0.080	± 1.2	≤ 0.8
F20L	D200	DF30ST	**FA10021**	20	20	± 0.10	≤ 0.050	± 0.5	≤ 0.25	± 0.20	≤ 0.100	± 1.0	≤ 0.5
F25L	D200	DF30ST	**FA10022**	25	25	± 0.20	≤ 0.070	± 0.8	≤ 0.28	± 0.25	≤ 0.125	± 1.0	≤ 0.5
F50L	D200	DF100ST	**FA10023**	50	50	± 0.35	≤ 0.120	± 0.7	≤ 0.24	± 0.50	≤ 0.250	± 1.0	≤ 0.5
F100L	D200	DF100ST	**FA10024**	100	100	± 0.55	≤ 0.15	± 0.6	≤ 0.15	± 0.80	≤ 0.300	± 0.80	≤ 0.30
F200L	D200	DF200ST	**FA10025**	200	200	± 1.2	≤ 0.30	± 0.6	≤ 0.15	± 1.60	≤ 0.600	± 0.80	≤ 0.30
F250L	D300	DF300ST	**FA10026**	250	250	± 1.5	≤ 0.75	± 0.6	≤ 0.30	± 2.0	≤ 0.75	± 0.80	≤ 0.30
F300L	D1000	DF1000ST	**FA10027**	300	300	± 2.40	≤ 0.50	± 0.8	≤ 0.17	± 2.4	≤ 0.9	± 0.80	≤ 0.30
F400L	D1000	DF1000ST	**FA10028**	400	400	± 2.40	≤ 0.80	± 0.6	≤ 0.2	± 3.2	≤ 1.2	± 0.80	≤ 0.30
F500L	D1000	DF1000ST	**FA10029**	500	500	± 3.00	≤ 0.80	± 0.6	≤ 0.16	± 4.0	≤ 1.5	± 0.80	≤ 0.30
F1000L	D1000	DF1000ST	**FA10030**	1000	1000	± 5.0	≤ 1.3	± 0.5	≤ 0.13	± 8.0	≤ 3.0	± 0.80	≤ 0.30
F5000L	D5000		**FA10031**	5000	5000	± 20	≤ 7	± 0.4	≤ 0.14	± 40.0	≤ 15.0	± 0.80	≤ 0.30

*CV means Coefficient of Variation (%)

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

P28 Full range of accessories can be found on page 28.

Please contact your local Gilson representative for more information.

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 offers low pipetting forces while preserving standard pipetting habits. PIPETMAN allows hours of comfortable and easy pipetting.

Built-to-Last and Convenient

Made of PVDF and stainless steel, PIPETMAN offers premium durability. Built-to-last, it is the economical solution for years of pipetting.

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.

PIPETMAN® SINGLE CHANNEL

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
							Gilson				ISO 8655-2 (Table 1)			
							Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P2	D10 DL10	DF10ST DFL10ST	F144054M	2	0.2 0.5 1 2	10 25 50 100	± 0.024 ± 0.025 ± 0.025 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.012 ≤ 0.014	± 12.0 ± 5.0 ± 2.5 ± 1.5	≤ 6.0 ≤ 2.4 ≤ 1.2 ≤ 0.7	± 0.050 ± 0.050 ± 0.050 ± 0.050	≤ 0.040 ≤ 0.040 ≤ 0.040 ≤ 0.040	± 25 ± 10 ± 5.0 ± 2.5	≤ 20 ≤ 8 ≤ 4.0 ≤ 2.0
P10**	D10 DL10	DF10ST DFL10ST	F144055M	10	1 5 10	10 50 100	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 2.5 ± 1.5 ± 1.0	≤ 1.2 ≤ 0.6 ≤ 0.4	± 0.120 ± 0.120 ± 0.120	≤ 0.080 ≤ 0.080 ≤ 0.080	± 12 ± 2.4 ± 1.2	≤ 8.0 ≤ 1.6 ≤ 0.8
P20	D200	DF30ST	F144056M	20	2 5 10 20	10 25 50 100	± 0.10 ± 0.10 ± 0.10 ± 0.20	≤ 0.030 ≤ 0.040 ≤ 0.050 ≤ 0.060	± 5.0 ± 2.0 ± 1.0 ± 1.0	≤ 1.5 ≤ 0.8 ≤ 0.5 ≤ 0.3	± 0.20 ± 0.20 ± 0.20 ± 0.20	≤ 0.100 ≤ 0.100 ≤ 0.100 ≤ 0.100	± 10 ± 4.0 ± 2.0 ± 1.0	≤ 5.0 ≤ 2.0 ≤ 1.0 ≤ 0.5
P100	D200	DF100ST	F144057M	100	10 50 100	10 50 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 3.5 ± 0.8 ± 0.8	≤ 1.0 ≤ 0.24 ≤ 0.15	± 0.80 ± 0.80 ± 0.80	≤ 0.300 ≤ 0.300 ≤ 0.300	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P200	D200 D300	DF200ST DF300ST	F144059M	200	20 100 200	10 50 100	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 2.5 ± 0.8 ± 0.8	≤ 1.0 ≤ 0.25 ≤ 0.15	± 1.60 ± 1.60 ± 1.60	≤ 0.600 ≤ 0.600 ≤ 0.600	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P1000	D1000 D1200	DF1000ST DF1200ST	F144059M	1000	100 500 1000	10 50 100	± 3.0 ± 4.0 ± 8.0	≤ 0.6 ≤ 1.0 ≤ 1.5	± 3.0 ± 0.8 ± 0.8	≤ 0.6 ≤ 0.2 ≤ 0.15	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P5000***	D5000		F144066	5000	500 2500 5000	10 50 100	± 12 ± 15 ± 30	≤ 3 ≤ 5 ≤ 8	± 2.4 ± 0.6 ± 0.6	≤ 0.6 ≤ 0.2 ≤ 0.16	± 40.0 ± 40.0 ± 40.0	≤ 15.0 ≤ 15.0 ≤ 15.0	± 8.0 ± 1.6 ± 0.80	≤ 3.0 ≤ 0.60 ≤ 0.30
P10mL***	D10mL		F144067	10000	1000 5000 10000	10 50 100	± 30 ± 40 ± 60	≤ 6 ≤ 10 ≤ 16	± 3.0 ± 0.8 ± 0.6	≤ 0.6 ≤ 0.2 ≤ 0.16	± 60.0 ± 60.0 ± 60.0	≤ 30.0 ≤ 30.0 ≤ 30.0	± 6.0 ± 1.2 ± 0.60	≤ 3.0 ≤ 0.60 ≤ 0.30

PIPETMAN® MULTICHANNEL

Model	PIPETMAN® DIAMOND Tips		Part Number	Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
							Gilson				ISO 8655-2 (Table 2)			
							Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P8x10 P12x10	D10 DL10	DF10ST DFL10ST	F144068 F144069	10	1 5 10	10 50 100	± 0.08 ± 0.20 ± 0.20	≤ 0.05 ≤ 0.10 ≤ 0.10	± 8.0 ± 4.0 ± 2.0	≤ 5.0 ≤ 2.0 ≤ 1.0	± 0.24 ± 0.24 ± 0.24	≤ 0.16 ≤ 0.16 ≤ 0.16	± 24 ± 4.8 ± 2.4	≤ 16 ≤ 3.2 ≤ 1.6
P8x20 P12x20	DL10 D200	DFL10ST DF30ST	F144070 F144071	20	2 10 20	10 50 100	± 0.10 ± 0.20 ± 0.40	≤ 0.08 ≤ 0.10 ≤ 0.20	± 5.0 ± 2.0 ± 2.0	≤ 4.0 ≤ 1.0 ≤ 1.0	± 0.40 ± 0.40 ± 0.40	≤ 0.20 ≤ 0.20 ≤ 0.20	± 20 ± 4.0 ± 2.0	≤ 10 ≤ 2.0 ≤ 1.0
P8x200 P12x200	D200 D300	DF200ST DF300ST	F144072 F144073	200	20 100 200	10 50 100	± 0.50 ± 1.00 ± 2.00	≤ 0.25 ≤ 0.40 ≤ 0.50	± 2.5 ± 1.0 ± 1.0	≤ 1.25 ≤ 0.40 ≤ 0.25	± 3.20 ± 3.20 ± 3.20	≤ 1.20 ≤ 1.20 ≤ 1.20	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60
P8x300 P12x300	D200 D300	DF200ST DF300ST	F144074 F144075	300	30 150 300	10 50 100	± 1.00 ± 1.50 ± 3.00	≤ 0.35 ≤ 0.60 ≤ 1 .00	± 3.33 ± 1.0 ± 1.0	≤ 1.17 ≤ 0.4 ≤ 0.33	± 4.8 ± 4.8 ± 4.8	≤ 1.8 ≤ 1.8 ≤ 1.8	± 16 ± 3.2 ± 1.6	≤ 6.0 ≤ 1.2 ≤ 0.60

*CV means Coefficient of Variation (%)
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 Plastic ejectors 3 PIPETMAN Comfort Handle 1 Gilson Guide to Pipetting 1 Two-Minute Inspection Poster
PIPETMAN® Micro-volume Kit	F167800	P2 P10 P100	DL10 D200	3 SINGLE Pipette Holders 3 Plastic ejectors 1 Gilson Guide to Pipetting 1 Two-Minute Inspection Poster
PIPETMAN® Large-volume Kit	F167920	P5000 P10mL	-	2 bags of 10 filters
PIPETMAN® Four Pipette Kit	F167360	P2 P20 P200 P1000	DL10 D200 D1000	4 SINGLE Pipette Holders 4 PIPETMAN Comfort Handle 1 Gilson Guide to Pipetting 1 Two-Minute Inspection Poster

PLASTIC EJECTORS

Model	Part Number
P2/P10 with adapter	F107027
P20	F107028
P100	F107029
P200	F107030
P1000	F107031

P28 Full range of accessories can be found on page 28.

PIPETTE ACCESSORIES

CARROUSEL™ PIPETTE STAND

Protects pipettes from shocks and contamination

Holds up to seven Gilson pipettes for space saving

Ordering information

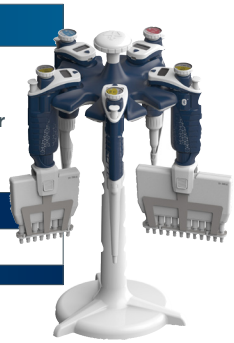
CARROUSEL, stand for 7 pipettes	F161401

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

SINGLE™ PIPETTE HOLDER

Holds your single or multichannel PIPETMAN®

Sticks to any smooth, dry surface

Prevents liquid from running inside shaft

Ordering information

Single Pipette Holder	F161406

UNIVERSAL MULTICHANNEL STAND

Holds any brand of 8- or 12-channel pipettes securely

Compact design to save space

Ordering information

Universal Multichannel Stand	F161417

TRIO™ PIPETTE STAND

Safely stores and protects three PIPETMAN pipettes

Helps organize your workbench

Ordering information

TRIO Pipette Stand for 3 pipettes	F161405

JIMMY™ MICROTUBE OPENER

Clips on to pipette

Increases pipetting efficiency

Lessens the fatigue associated with manual tube opening

Ordering information

The JIMMY Microtube Opener	F144983

DISPOSABLE FILTERS

For PIPETMAN® and PIPETMAN L P5000 and P10mL models

Ordering information

Bag of 10 Filters for P5000/P10mL	F161280
Bag of 100 Filters for P5000/P10mL	F161241

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

PIPETMAN COMFORT HANDLE

Clips on to PIPETMAN® Neo, and 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

PIPETMAN® M CONNECTED

Connect your PIPETMAN M Connected to your PC, through a Bluetooth® connection

Ordering information

Bluetooth® USB Dongle	F807027

COLORED WINDOWS FOR MYPIPETMAN®

Colored windows for MyPIPETMAN®

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

METAL TIP EJECTORS FOR MYPIPETMAN®

For MyPIPETMAN®

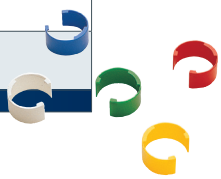
Ordering information	
Metal Ejector P2/P10 MyPIPETMAN	FP070111 (Dark Blue)
	FP070112 (White)
Metal Ejector P20 MyPIPETMAN	FP070121 (Dark Blue)
	FP070122 (White)
Metal Ejector P100 MyPIPETMAN	FP070131 (Dark Blue)
	FP070132 (White)
Metal Ejector P200 MyPIPETMAN	FP070141 (Dark Blue)
	FP070142 (White)
Metal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

COLORIS™ IDENTIFICATION CLIPS

Identify or personalize your PIPETMAN®

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



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)

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

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

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

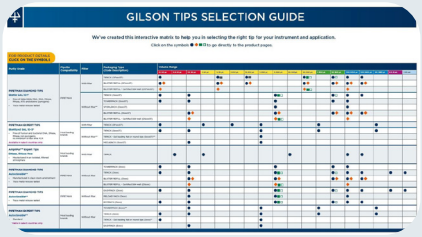
Your needs, budget, and tip consumption vary according to your specific research activity. With our extensive range of packaging, PIPETMAN DIAMOND Tips are an affordable option for every lab and every application.

Contamination-Free

Our tips are made of the highest-grade material within a fully traceable clean room environment, ensuring they offer low retention and are free of contaminants that can alter your experiments. From mold to bench, they are guaranteed, certified, and traceable to meet the most stringent demands in many 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.



Download Tip Selection Table

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

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

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

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

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

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

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	100–1200 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	100–1200 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	100–1200 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)	100–1200 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	100 - 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	100 - 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

Universal Reload Box for use with TOWERPACKS.

Empty Box for use with REFILL VERSIONS and RELOAD PACKS.

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

Empty Rack for use with ECOPACK and EASYPACK loose tips.

REFILL VERSIONS FOR PIPETMAX®-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	50–1000 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

	Description	Volume Range	Tip Length	Pack		Case	
				Qty	Part Number	Qty	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

RNase/DNase Human DNA
CERTIFIED FREE
Pyrogens PCR Inhibitors

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

PIPETMAN EXPERT Tips are available in select countries only.

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

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

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

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

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

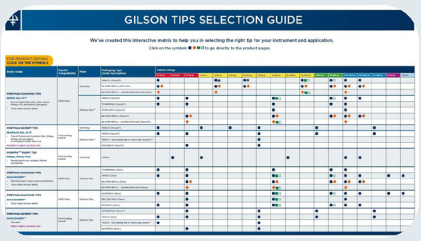
The Towerpack and MegaPack configurations allow labs to store more tips using less space on the bench. Less packaging material is used and the plastic is recyclable.

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.



Download Tip Selection Table

AmpliPur®

EXPERT TIPS

EXCELLENT FIT FILTER TIPS FOR MOLECULAR BIOLOGY APPLICATIONS

AmpliPur® Expert Tips are ISO 8655-compliant and provide a significant value for the money spent. They are manufactured according to certified quality standards, ensuring each tip is free of DNase and RNase. These filter tips protect precious samples from cross-contamination and are designed to fit various pipette brands.

Excellent Fit

AmpliPur Expert Tips are designed to fit various pipette brands for maximum convenience on the bench. Equipped with a filter, they also help prevent cross-contamination.

Ideal for Molecular Biology Applications

These tips significantly contribute to molecular testing performance by ensuring sample integrity during the pipetting process.

ISO 8655 Compliant

Manufactured according to the certified Gilson quality standard, AmpliPur Expert Tips comply with ISO 8655 requirements and are certified free of RNase and DNase, preserving your sample integrity.

Amplipur® Expert Tips

Volume Range	Nominal Volume of Compatible Pipettes**	Qty/Commercial Unit (CU)	Part Number (Commercial Units)
0.5-10 µL	2 µL / 10 µL	960 (10 racks of 96 tips)	F174101
1-20 µL	20 µL	960 (10 racks of 96 tips)	F174201
10-200 µL	100 µL*** / 200 µL / 300 µL	960 (10 racks of 96 tips)	F174301
100-1000 µL	1000 µL	960 (10 racks of 96 tips)	F174401
100-1200 µL	1000 µL / 1200 µL	960 (10 racks of 96 tips)	F174501

**Within ISO 8655 specifications.
***Compatible with many of 100 µL pipettes, except Gilson P100 single channel.

Please contact your local Gilson representative for more information.

Download tip selection table at www.gilson.com.

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.

Volume Switch

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 switch that reduces the risk of accidental volume change.

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.

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

Watch MICROMAN® E in action

Watch Video

Find more tools and resources at www.gilson.com.

MICROMAN® E

Model	Capillary Piston	Part Number	Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
						Gilson				ISO 8655-2 (Table 3)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
M10E	CP10 CP10ST	**FD10001**	10	1 5 10	10 50 100	± 0.090 ± 0.100 ± 0.150	≤ 0.030 ≤ 0.030 ≤ 0.060	± 9.0 ± 2.0 ± 1.5	≤ 3.00 ≤ 0.60 ≤ 0.60	± 0.200 ± 0.200 ± 0.200	≤ 0.100 ≤ 0.100 ≤ 0.100	± 20 ± 4.0 ± 2.0	≤ 10 ≤ 2.0 ≤ 1.0
M25E	CP25 CP25ST	**FD10002**	25	3 10 25	12.0 40.0 100	± 0.25 ± 0.27 ± 0.30	≤ 0.080 ≤ 0.080 ≤ 0.100	± 8.3 ± 2.7 ± 1.2	≤ 2.67 ≤ 0.80 ≤ 0.40	± 0.35 ± 0.35 ± 0.35	≤ 0.15 ≤ 0.15 ≤ 0.15	± 11.67 ± 3.5 ± 1.4	≤ 5.0 ≤ 1.5 ≤ 0.60
M50E	CP50 CP50ST	**FD10003**	50	20 50	40.0 100	± 0.34 ± 0.70	≤ 0.20 ≤ 0.30	± 1.7 ± 1.4	≤ 1.00 ≤ 0.60	± 0.70 ± 0.70	≤ 0.30 ≤ 0.30	± 3.5 ± 1.4	≤ 1.5 ≤ 0.60
M100E	CP100 CP100ST	**FD10004**	100	10 50 100	10 50 100	± 0.50 ± 0.75 ± 1.00	≤ 0.20 ≤ 0.30 ≤ 0.40	± 5.0 ± 1.5 ± 1.0	≤ 2.00 ≤ 0.60 ≤ 0.40	± +1.4 ± 1.4 ± 1.4	≤ 0.6 ≤ 0.6 ≤ 0.6	± 14 ± 2.8 ± 1.4	≤ 6.0 ≤ 1.2 ≤ 0.60
M250E	CP250 CP250ST	**FD10005**	250	50 100 250	20.0 40.0 100	± 1.50 ± 1.70 ± 2.50	≤ 0.30 ≤ 0.30 ≤ 0.50	± 3.0 ± 1.7 ± 1.0	≤ 0.60 ≤ 0.30 ≤ 0.20	± 3.0 ± 3.0 ± 3.0	≤ 1.0 ≤ 1.0 ≤ 1.0	± 6.0 ± 3.0 ± 1.2	≤ 2.0 ≤ 1.0 ≤ 0.40
M1000E	CP1000 CP1000ST	**FD10006**	1000	100 500 1000	10 50 100	± 3.0 ± 5.0 ± 8.0	≤ 1.6 ≤ 2.5 ≤ 4.0	± 3.0 ± 1.0 ± 0.8	≤ 1.60 ≤ 0.50 ≤ 0.40	± 12 ± 12 ± 12	≤ 4.0 ≤ 4.0 ≤ 4.0	± 12 ± 2.4 ± 1.2	≤ 4.0 ≤ 0.80 ≤ 0.40

*CV means Coefficient of Variation (%)

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	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	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	10	960	**F148313**
	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	10	960	**F148315**
	Sterilized Capillary Piston 1000 µL (CP1000ST)	100-1000 µL	M1000E	91	2	182	**F148180**

*Capillary and piston are separated

P28 **Full range of accessories can be found on page 28.**

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.

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

DISTRITIPS®											
					Maximum Permissible Errors							
					Gilson				ISO 8655-5 (Table 2)			
DISTRITIPS (Pack of 50)	**Aliquot Range**	**Part Number**	**Volume (µL)**	**Volume (%)**	**Systematic Error (µL)**	**Random Error (µL)**	**Systematic Error (%)**	**Random Error (%)***	**Systematic Error (µL)**	**Random Error (µL)**	**Systematic Error (%)**	**Random Error (CV)***
125 µL Micro Micro Pre-Sterile*	1–12.5 µL	F164100 F164130	2 5 10	1.6 4.0 8.0	± 0.1 ± 0.125 ± 0.2	≤ 0.08 ≤ 0.075 ≤ 0.1	± 5.0 ± 2.5 ± 2.0	≤ 4.00 ≤ 1.50 ≤ 1.00	± 0.5 ± 1.25 ± 1.25	≤ 0.5 ≤ 1.25 ≤ 1.25	± 25.0 ± 25.0 ± 12.5	≤ 25.00 ≤ 25.00 ≤ 12.5
1250 µL Mini Mini Pre-Sterile*	10–125 µL	F164110 F164140	20 50 100	1.6 4.0 8.0	± 0.8 ± 1 ± 1	≤ 0.2 ≤ 0.4 ≤ 0.6	± 4.0 ± 2.0 ± 1.0	≤ 1.00 ≤ 0.80 ≤ 0.60	± 5.0 ± 10.0 ± 10.0	≤ 5.0 ≤ 5.0 ≤ 5.0	± 25.0 ± 20.0 ± 10.0	≤ 25.0 ≤ 10.0 ≤ 5.0
12.5 mL Maxi Maxi Pre-Sterile*	0.1–1.25 mL	F164120 F164150	200 500 1000	1.6 4.0 8.0	± 6 ± 7.5 ± 10	≤ 1 ≤ 1.5 ≤ 2.5	± 3.0 ± 1.5 ± 1.0	≤ 0.50 ≤ 0.30 ≤ 0.25	± 50.0 ± 62.5 ± 62.5	≤ 37.5 ≤ 37.5 ≤ 37.5	± 25.0 ± 12.5 ± 6.25	≤ 18.75 ≤ 7.50 ≤ 3.75

CV means Coefficient of Variation (%)

**ST means pre-sterlized syringes (individually wrapped) *Pre-sterile refers to sterility assurance level between $SAL10^{-2}$ and $SAL10^{-5}$ (individually wrapped).

repet-tips

REPET-TIPS FOR MOTORIZED REPETITIVE DISPENSING SOLUTION

Specifically made for the REPETMAN® positive-displacement electronic pipette, the REPET-TIPS® cover volumes from 0.1 to 50 mL, in either sterile or non-sterile formats as well as adaptors for 25 and 50 mL tips. The tip-size encoding system of the REPETMAN automatically identifies the REPET-TIP when placed on the pipette, and displays the appropriate volume on the LCD screen.

REPET-TIPS

REPET-TIPS	Non-Sterile	Sterile*
Repet-Tip (0.1 mL, box of 100)	F164510	F164515
Repet-Tip (0.5 mL, box of 100)	F164520	F164525
Repet-Tip (1.0 mL, box of 100)	F164527	F164528
Repet-Tip (1.25 mL, box of 100)	F164530	F164535
Repet-Tip (2.5 mL, box of 100)	F164540	F164545
Repet-Tip (5.0 mL, box of 100)	F164550	F164555

REPET-TIPS	Non-Sterile	Sterile*
Repet-Tip (10.0 mL, box of 100)	F164557	F164558
Repet-Tip (12.5 mL, box of 100)	F164560	F164565
Repet-Tip (25 mL, box of 50)**	F164570	-
Repet-Tip (25 mL, box of 25)**	-	F164575
Repet-Tip (50 mL, box of 25)**	F164580	F164585
Adapter for 25/50 mL Repet-Tip (set of 10)	F164591	-
Adapter for 25/50 mL Repet-Tip (set of 5)	-	F164592

* Sterile / Endotoxin-free (less than 0.01 I.U/mL)
** One autoclavable adapter is provided in each box

For the 25 and 50 mL sizes, a special adaptor is used that is supplied with the tips.

The adaptors are also available separately, non-sterile (Part No. F164591) and sterile (Part. No. F164592).

REPET-TIPS are not available in the United States.

REPET-TIPS can fit motorized repetitive dispensers from other brands. Please contact your local Gilson representative for more information.

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 or by using the thumbwheel while pipetting. 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 reduced charging time.

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.

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

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

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

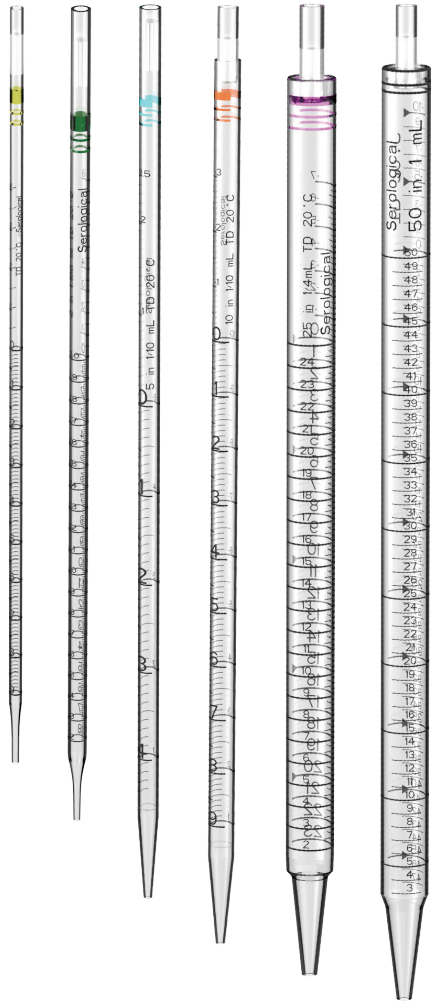
Gilson serological pipettes are made with USP Class VI polystyrene and are free of contaminants that can alter your experiment. They are gamma-sterilized, non-pyrogenic, and certified free of detectable RNase/DNase. The polyester fiber plug provides a high level of protection against over-pipetting and 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
Serological Pipettes - Sterile Bags				
40 sterile bags of 25 units	1000	F110121	1 mL	
	1000	F110123	2 mL	
20 sterile bags of 25 units	500	F110125	5 mL	
	500	F110127	10 mL	
10 sterile bags of 20 units	200	F110129	25 mL	
Serological Pipettes - Sterile Individually Wrapped				
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	

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

The 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. When using PLATEMASTER, the time it takes to fill 96-well plates is significantlyreduced to approximately 10-20 seconds or less, and 384-wells can typically be filled in less than a minute using 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 intuitive 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

Find more tools and resources at www.gilson.com.

PLATEMASTER®

Model	PIPETMAN® DIAMOND Tips			Part Number	Nominal Volume (µL)	Volume (µL)	Volume (%)	Maximum Permissible Errors							
								Gilson				ISO 8655-2 (Table 2)			
								Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
P20	D200 DS200**	D200ST DS200ST**	DF100ST DF200ST DFS200ST**	**F110761**	20	0.5 10 20	2.5 50 100	± 0.12 ± 0.12 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.18	± 24.0 ± 1.2 ± 1.0	± 20.00 ± 1.00 ± 0.90	N/A ± 0.4 ± 0.4	N/A ≤ 0.2 ≤ 0.2	N/A ± 4 ± 2.0	N/A ≤ 2 ≤ 1.0
P220	D200 DS200* D300	D200ST	DF200ST DFS200ST** DF300ST	**F110762**	220	2 5 20 100 200 220	0.9 2.3 9.1 45.5 90.9 100	± 0.12 ± 0.25 ± 0.4 ± 1 ± 1.6 ± 1.8	≤ 0.15 ≤ 0.175 ≤ 0.3 ≤ 0.8 ≤ 0.8 ≤ 0.8	± 6.0 ± 5.0 ± 2.0 ± 1.0 ± 0.8 ± 0.8	≤ 7.50 ≤ 3.50 ≤ 1.50 ≤ 0.80 ≤ 0.40 ≤ 0.36	N/A N/A N/A ± 3.52 ± 3.52 ± 3.52	N/A N/A N/A ≤ 1.32 ≤ 1.32 ≤ 1.32	N/A N/A N/A ± 3.52 ± 1.76 ± 1.6	N/A N/A N/A ≤ 1.32 ≤ 0.66 ≤ 0.60

*CV means Coefficient of Variation (%)
*Validated for use with 384-well plates

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**
AmpliPur® Expert Tips Refill Reload Block for PLATEMASTER®	**F110767**

pipetmaX®

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® 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.

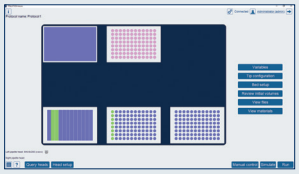
Download application notes at www.gilson.com.

Watch PIPETMAX in action

Watch Video

PIPETMAX®	
Specification	**Description**
Removable Tray Capacity	Two options: 9-position removable tray (microplate footprints, but not for 384-well microplates) 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 Eight channel 20 µL – 200 µL Four channel 100µL – 1200µL Single channel 1000 µL
Pipette Head Mounts	Two PIPETMAX pipetting heads
Labware Compatibility	Standard shallow- and deep-well microplates and microcentrifuge tubes
Dimensions (W x D x H)	**PIPETMAX with rotating cover** 54.4 x 65.5 x 53.1 cm (21.4 x 25.8 x 20.9 in)
	PIPETMAX with rotating cover installed on optional riser assembly for off-bed tip disposal 54.4 x 65.5 x 69.6 cm (21.4 x 25.8 x 27.4 in)
	PIPETMAX without cover 50.8 x 64.3 x 49.5 cm (20 x 25.3 x 19.5 in)
	PIPETMAX without rotating cover installed on optional riser assembly for off-bed tip disposal 52.3 x 65 x 65.8 cm (20.6 x 25.6 x 25.9 in)
Environmental Conditions	Indoor use Altitude: up to 2000 m Temperature range: 5°C–40°C 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 MAX8X20 Pipette Head
FC10021	PIPETMAX MAX8X200 Pipette Head
FC10023	PIPETMAX MAX4x1200 Pipette Head
32000391	PIPETMAX D1200 Tip Reload Box
32000274	Tip Disposal Bin
32000177	PIPETMAX Riser Off-Bed Tip Disposal
32000340	TRILUTION micro V3 for PC
32000341	PIPETMAX Standard V3 Tablet Kit



TRILUTION® micro Software

TRILUTION® micro Software is an easy-to-learn software package for PIPETMAX®, 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.

safe aspiration

STATION

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 station is equipped with a 4-liter Polypropylene (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 and Convenient

The station also ensures an adjustable aspiration level indicated by a board of LEDs.

The choice of the adapter and the easy setting of the vacuum level enable quick and accurate aspiration of liquids from a variety of vessels.

The ergonomic hand operator can be stored on the bottle handle. The Safe Aspiration Kit also contains a stand with storing gaps for the adapters and the hand operator to help your workspace remain clean and organized.

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

SAFE ASPIRATION KIT	
Description	Part Number
Safe Aspiration Kit	F110750

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

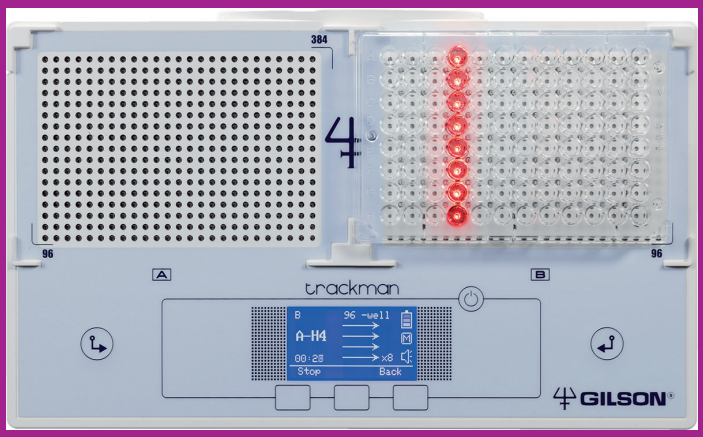
DISPENSMAN®													
Model	Part Number	Volume Range (mL)	Scaling (mL)	Nominal Volume (µL)	Volume (%)	Maximum Permissible Errors							
						Gilson				ISO 8655-5 (Table 1)			
						Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*	Systematic Error (µL)	Random Error (µL)	Systematic Error (%)	Random Error (CV)*
DISPENSMAN 2.5 mL	**F110101**	0.25–2.5 mL	0.05	2500	10 50 100	± 12.0 ± 12.0 ± 12.0	≤ 2.0 ≤ 2.0 ≤ 2.0	± 4.8 ± 1.0 ± 0.5	≤ 0.80 ≤ 0.16 ≤ 0.08	± 15.0 ± 15.0 ± 15.0	≤ 5.0 ≤ 5.0 ≤ 5.0	± 6.0 1 ± .2 ± 0.6	≤ 2.0 ≤ 0.4 ≤ 0.2
DISPENSMAN 5.0 mL	**F110102**	0.5–5 mL	0.10	5000	10 50 100	± 30.0 ± 30.0 ± 30.0	≤ 5.0 ≤ 5.0 ≤ 5.0	± 6.0 ± 1.2 ± 0.6	≤ 1.00 ≤ 0.20 ≤ 0.10	± 30.0 ± 30.0 ± 30.0	≤ 10.0 ≤ 10.0 ≤ 10.0	± 6.0 ± 1.2 ± 0.6	≤ 2.0 ≤ 0.4 ≤ 0.2
DISPENSMAN 10 mL	**F110103**	1–10 mL	0.20	10000	10 50 100	± 60.0 ± 60.0 ± 60.0	≤ 10.0 ≤ 10.0 ≤ 10.0	± 6.0 ± 1.2 ± 0.6	≤ 1.00 ≤ 0.20 ≤ 0.10	± 60.0 ± 60.0 ± 60.0	≤ 20.0 ≤ 20.0 ≤ 20.0	± 6.0 ± 1.2 ± 0.6	≤ 2.0 ≤ 0.4 ≤ 0.2
DISPENSMAN 25 mL	**F110104**	2.5–25 mL	0.50	25000	10 50 100	± 150.0 ± 150.0 ± 150.0	≤ 25.0 ≤ 25.0 ≤ 25.0	± 6.0 ± 1.2 ± 0.6	≤ 1.00 ≤ 0.20 ≤ 0.10	± 150.0 ± 150.0 ± 150.0	≤ 50.0 ≤ 50.0 ≤ 50.0	± 6.0 ± 1.2 ± 0.6	≤ 2.0 ≤ 0.4 ≤ 0.2
DISPENSMAN 50 mL	**F110105**	5–50 mL	1.00	50000	10 50 100	± 300.0 ± 300.0 ± 300.0	≤ 50.0 ≤ 50.0 ≤ 50.0	± 6.0 ± 1.2 ± 0.6	≤ 1.00 ≤ 0.20 ≤ 0.10	± 300.0 ± 300.0 ± 300.0	≤ 100.0 ≤ 100.0 ≤ 100.0	± 6.0 ± 1.2 ± 0.6	≤ 2.0 ≤ 0.4 ≤ 0.2

*CV means Coefficient of Variation (%)

trackman®

GUIDING YOU TO SUCCESS

Get on track and stay on track as you pipette flawlessly from one microplate to another with the help of TRACKMAN®.



Secure Your Results

TRACKMAN simplifies your work, improves your productivity, and helps eliminate pipetting errors and cross-contamination.

Versatile Performance

The LED lights on TRACKMAN help you place your 96- and 384-well microplates in the correct position on the light panel, while fixed notches secure your plates firmly in place.

Complete Your Equipment

Expand the functionality of your TRACKMAN with the versatile microtube–holder to transfer liquids from one microtube to another (0.5 mL, 1.5 mL, and 2 mL).

TRACKMAN®	
Description	**Part Number**
TRACKMAN	F70301

TRACKMAN ACCESSORIES	
Description	**Part Number**
Microtube Holder	F70105
Pedal for TRACKMAN	F70261

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.

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

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.

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.

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

MIXER

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**

digital mini

INCUBATOR

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.

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

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.

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.

Watch CENTRY 103 Minicentrifuge in action

Watch Video

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

Find more tools and resources at www.gilson.com.

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

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

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.

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.

Please contact your local Gilson representative for more information.

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
Santoprene™ 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
Santoprene™ 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

fraction collector

FC 203B

IDEAL SOLUTIONS FOR SMALL TO LARGE CAPACITY COLLECTION

Gilson offers advanced solutions for fraction collection with a complete line of stand-alone and software-controlled fraction collectors ranging from small footprint to large vessel capacity models. The built-in, easy-to-use keypad makes setup and operation simple and capable of interfacing with any HPLC system.

Gilson Fraction Collectors collect samples based on time, drop, or peak,* making them the preferred choice for a range of separation applications. The collectors accommodate a wide variety of collection vessels, including microplates, vials, and tubes and can be used with any FPLC, FLASH, or HPLC system.

Multicolumn adapters are available for parallel collection from multiple channels. With up to ten programmable time windows to use, and an optional 3-way diverter valve allows for diversion of column void volumes, peaks of no interest, and equilibration volumes to be diverted to a waste vessel.

Compact and Portable

With one rack and up to 128 fractions, the compact, one rack capacity FC 203B Fraction Collector is commonly configured with a MINIPULS 3 for low pressure chromatography. Contact closures allow the pump to be stopped after all fractions have been collected.

**Peak collection requires a detector and a 3-way valve.*

FC 203B Fraction Collector	
Description	**Part Number**
FC 203B, 110/220 V	171011
FC203B with 3-way valve	171011DV

Fraction collector

FC 204

The FC 204 Fraction Collector is a large-capacity fraction collector capable of handling up to 768 test tubes, vials, and up to eight shallow- or deep-well microplates.

Adaptable to Many Collection Strategies

The FC 204 is equipped with a 3-way valve to divert the fluid path to waste with a specific high flow model fitted with a valve for flow rates up to 200 mL/min. With repetitive collection in the same set of tubes or in different tubes, the FC 204 is ideal for LC purification works. The optional Multicolumn adapter allows for collection from up to 18 separate channels in parallel.

- Small footprint for use in biosafety cabinets
- Large capacity with Flexible tube/vial/plate holders
- Quick start-up and installation can be associated with a Peristaltic pump for dispensing for creating a low-cost tube filling system
- Easy-to-sterilize flow path for minimized contamination

Visit www.gilson.com to learn more about our fraction collectors.

Request a quote today at www.gilson.com or from your local Gilson representative.

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

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.

LIQUID HANDLER SELECTION GUIDE

GX-241 Liquid Handler

The GX-241 Liquid Handler offers a two-rack platform for large or small volume injection and automatic fraction collection using tubes, vials, or microplates. Its small footprint makes it an ideal choice for labs where bench space is limited.

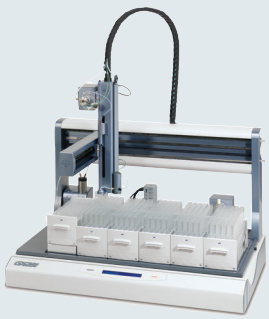
GX-271 Liquid Handler

The GX-271 Liquid Handler offers a small footprint, medium capacity liquid handler and autosampler 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.

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.

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.

gx-271

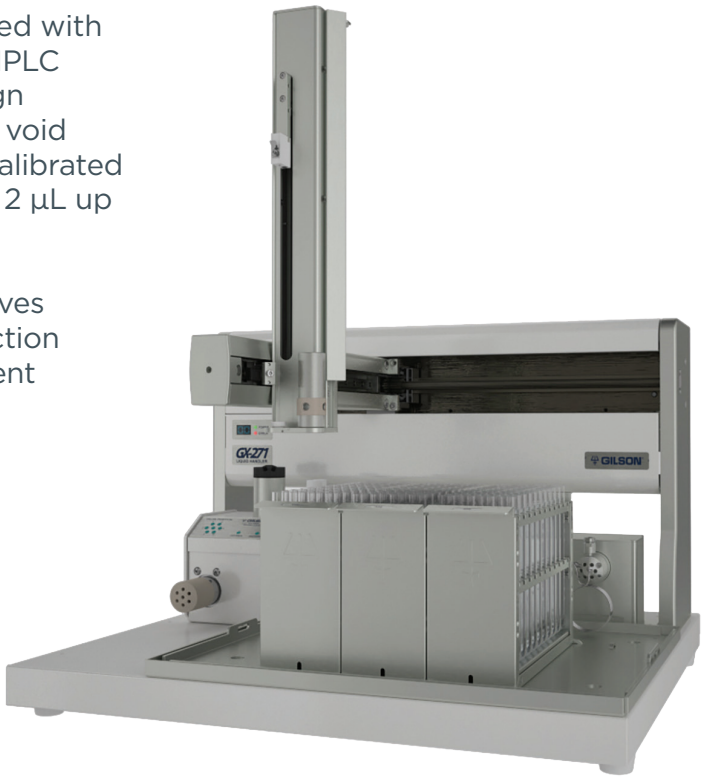
LIQUID HANDLER

This small footprint, medium capacity liquid handler and autosampler 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.

Innovative Injection Modules

This mid-throughput liquid handler can be configured with a GX Direct Injection Module for injection onto an HPLC or LC/MS system. An innovative injection port design that attaches directly to the injection valve reduces void volumes and minimizes carryover associated with calibrated connection tubing, allowing injection volumes from 2 µL up to 25 mL.

The continuous flow path design on all injection valves allows the system flow to continue even as the injection valve switches from load to inject, ensuring consistent pressure and flow.



Versatile, Space-Saving Design

With a small footprint of only 23 inches of linear bench space and a mid-size bed capacity, you'll have the perfect blend of size, performance, and capacity. On-bed reservoirs provide access for up to four solvents without utilizing a position on the bed. The modular design supports the use of Code 20-, 200-, or 34X-series racks and easily accommodates a variety of tubes, vials, and microplates.

Request a quote today at www.gilson.com or from your local Gilson representative.

LOADING SYSTEMS

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.

LOADING SYSTEM SELECTION GUIDE

VERITY® 4X20 SYRINGE PUMPS

4020 SINGLE 4120 DUAL WITH TEE 4220 DUAL

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

GX SOLVENT SYSTEM

Bi-Directional Pump for the VERITY® 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.

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 **Diameter of channels**: 1.5 mm **Length of channels:** 14 mm **Angle between channels:** 120° **Liquid contact material:** PEEK **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

Request a quote today at www.gilson.com or from your local Gilson representative.

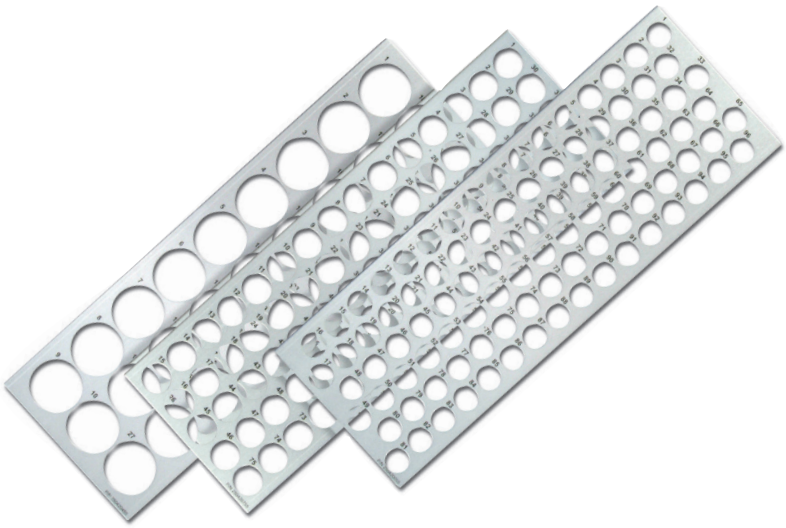
RACKS

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.



ACCESSORIES

Optimize Your Instrumentation

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

ACCESSORIES SELECTION GUIDE

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

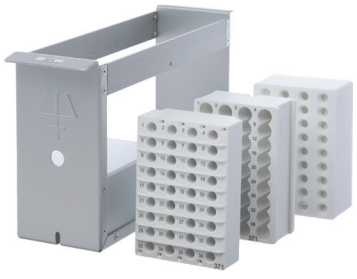
Orbital Shaker

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.

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.

PURIFICATION

Scaling up Your Systems, From Research to Production

INSTRUMENTS

From high performance liquid chromatography to centrifugal partition chromatography, we offer manual and automated solutions, available through purchase or leasing.

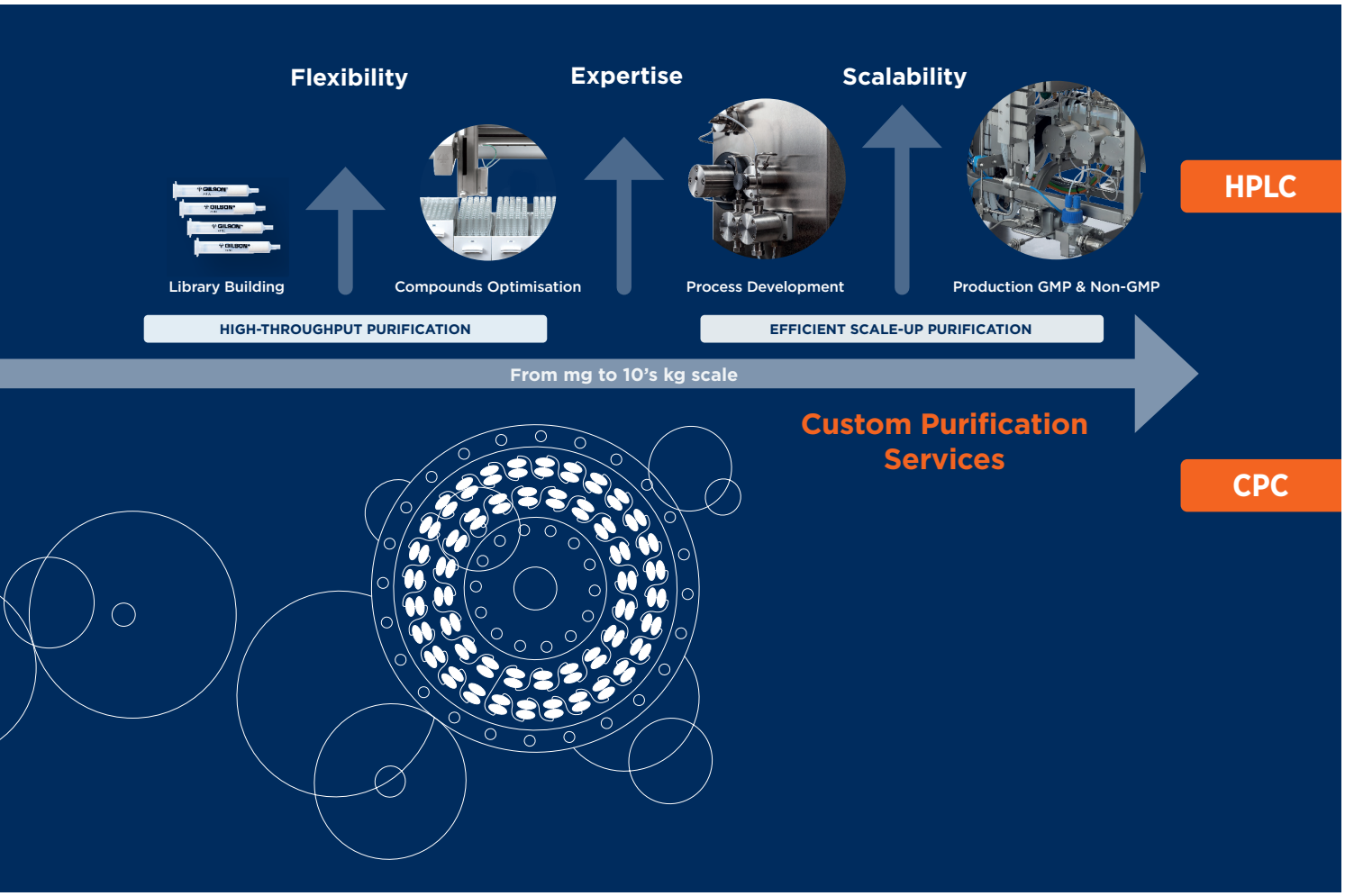
EXPERTISE

From feasibility studies to method development, 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. To support your rapid development, we can purify your compounds in our kilo scale lab.

Always a Gilson Solution to Reach Your Requirements



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

Chromatography Solutions

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.

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

Centrifugal Partition Chromatography (CPC)

The components are separated based on their partition coefficient between two immiscible liquid phases the stationary and mobile phases.

To learn more abour our Centrifugal Partition Chromatography solutions, visit www.gilson.com.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) SELECTION GUIDE

VERITY® 271 HPLC System
VERITY® 281 HPLC System

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

VERITY® Compact LC System

Compact Solutions are Ideal for:

- Low number of samples per day (1-5)
- Ability to manually change gradient and collection during the separation
- Capability to run HPLC column ID 10-50 mm or Flash cartridges
- Fully compatible with CPC

Usability – Modularity – Reduced Bench Space

Productivity Range	Column ID (mm)	Standard Flow Rate (mL/min)	ASPEC System	30X System	322 Pump	VERITY 3240 150 mL Pump	PLC 2050 Compact	PLC 2250 Compact	PLC2500 Compact
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	X		
	20	18-20		25-50SC HEADS	H2 HEAD	X	X	X	
	30	40-45		50SC HEAD		X	X	X	
Preparative	50	100-120				X		X	X
	75	250-300							X
Pilot	100	450-500							X

CENTRIFUGAL PARTITION CHROMATOGRAPHY (CPC) SELECTION GUIDE

VERITY® Compact CPC System

Purification Solutions are Ideal for:

- Complex samples: natural products, hemp, fermentation broth, biomass
- No solid support – competitive to flash purification
- Directly scalable from research and process development to production
- Purification of ingredients with a high degree of purity and extracts fractionation

Alternative to Flash for natural compounds & complementary to HPLC

PRODUCTIVITY RANGE	CPC Model & Volume	Standard Flow Rate (mL/min)	Associated PLC Model		Customized SKID LC
Semi Preparative to Preparative with High Selectivity	CPC 250	8-50	PLC 2250 Compact		
Preparative to Pilot Fractionation	CPC 1000 PRO	150-300		PLC 2500 Compact	X
Process	Contact US				

PUMPS

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

PUMP 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

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.

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

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 bars (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

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

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 today at www.gilson.com or from your local Gilson representative.

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 bars (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.

DETECTORS

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

DETECTOR SELECTION GUIDE

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 500mL/min), the reliable and versatile VERITY® 1741 UV-VIS Detector is coupled with the power of multiple-wavelength scanning range from 200nm to 800nm.

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.

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.

VERITY® 1810 Conductivity and pH Monitor

Conductivity and pH Detection

- The VERITY® 1801 is an integrated conductivity sensor and an external optional pH sensor, ideal for pH dependent purifications.

PEPTIDE AND OLIGONUCLEOTIDE PURIFICATION SYSTEMS

PEPTIDE PURIFICATION

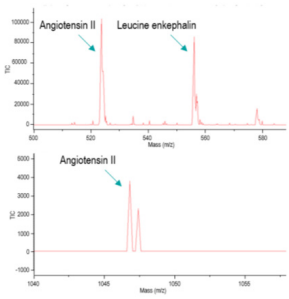
VERITY® 271 LCMS System

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.

ASPEC® 274 System

Parallel Cartridges 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.

Download application notes at www.gilson.com.

FLEXIBLE AND HIGH THROUGHPUT PURIFICATION OF OLIGONUCLEOTIDES

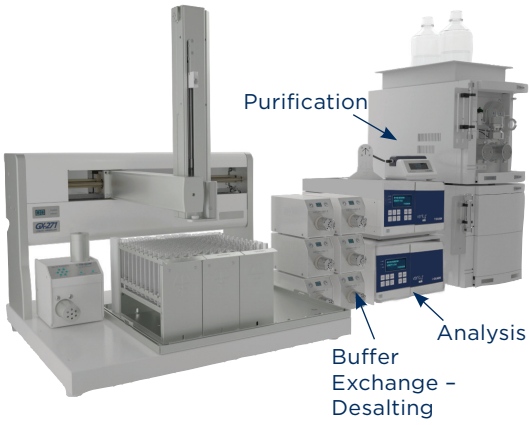
After the cleavage and deprotection steps, the purification of oligonucleotides is done by Ion pairing reversed phase (IP-RP) or ion exchange (IEX) liquid chromatography.

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.

OLIGONUCLEOTIDES PURIFICATION

VERITY® Oligo Purification System

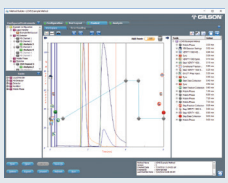


Purify and Control Oligonucleotides in One Continuous Production Run

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.



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.

Request a quote today at www.gilson.com or from your local Gilson representative.

LC PURIFICATION SYSTEMS

With the capability to purify compounds by preparative HPLC, flash chromatography, and CPC on the same instrument, Gilson's PLC 2050/2250/2500 Purification Systems simplify and streamline compound purification. These compact systems feature UV-VIS detection, an integrated pumping system, fraction collector, touchscreen control, and Gilson GLIDER Software.

These customizable instruments are available in simple configurations for basic applications, but with a wide range of upgrade options to meet your lab's demands. PLC 2050 and PLC 2250 Purification Systems with Autosampler are configured with a VERITY® GX-241 Liquid Handler for automated sample injections and increased throughput.

High Performance Features

- Intuitive touchscreen interface for easy method writing and modifying of parameters
- Built-in automatic injection valve
- Two or four independent solvent inlets for binary or quaternary gradients
- Three-rack fraction collector capacity with unlimited collection cycles
- Variable dynamic mixing chamber
- Dual reciprocating pump technology
- Four-wavelength UV-VIS or DAD detector
- Evaporative light scattering detection (ELSD Option)

PLC Purification Systems are compatible with CPC columns.

PLC Purification Systems for Each Column Size

PLC 2050: Flow rates up to 50 mL/min with pressure up to 300 bar

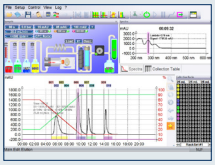
- Prep HPLC: 10–30 mm diameter ID columns
- CPC: 100 mL column
- Flash Chromatography: 2.5–70 g cartridges

PLC 2250: Flow rates up to 250 mL/min with pressure up to 230 bar

- Prep HPLC: 10–70 mm diameter ID columns
- CPC: 250 mL column
- Flash Chromatography: 10–600 g cartridges

PLC 2500: Flow rates up to 500 mL/min with pressure up to 110 bar

- Prep HPLC: 20–75mm diameter ID columns
- CPC: 1000 mL column
- Flash Chromatography: up to 1.2 kg cartridges



GLIDER Software

GLIDER Software supports the PLC Purification Systems, creating a single, advanced tool for HPLC, flash chromatography, and CPC applications.

verity®

CPC LAB MS

The VERITY® CPC Lab MS System allows you to perform mass directed purification of target compounds by centrifugal partition chromatography (CPC). This automated, cost-effective, liquid-liquid purification technique utilizes reusable, silica-free chromatographic columns, and the VERITY® 1920 Mass Spectrometer to streamline your workflow and allow you to quickly isolate added value molecules with high yields and purity.

Efficient and Streamlined Workflow

The reusable, silica-free columns offer high injection capacities of milligrams to kilograms. There are no columns to replace or silica to recycle, and no risk of blocked or contaminated columns. The VERITY CPC Lab MS System uses five times less solvent and eliminates the need for pre-treatment prior to injection.

Save Time with Mass-directed Purification

Mass-directed purification saves time by targeting compounds of interest, reducing the overall number of fractions collected that require dry down, reconstitution, and analysis.

Ideal for Isolation of Biologically Active Natural Products

Natural products are usually complex and can contain multiple valuable molecules. Mass-directed purification allows individual targeting and selective collection of molecules, even for those that do not provide UV signal, based on their mass to charge ratio.

Because the VERITY CPC Lab MS System does not denature fragile molecules, it is an ideal choice for natural extract fractionation and natural compound purification. Achieve 95% recovery with > 99% purity.

Easy-to-Use

This fully automated system is controlled by GLIDER Software, praised by users for its intuitive touchscreen interface that enables easy method writing and modification of parameters.

verity®

SKID

The VERITY® SKID LC manages all steps of pilot and process scale chromatography such as generates elution mobile phase, injects sample, detects molecules, and collects fractions.

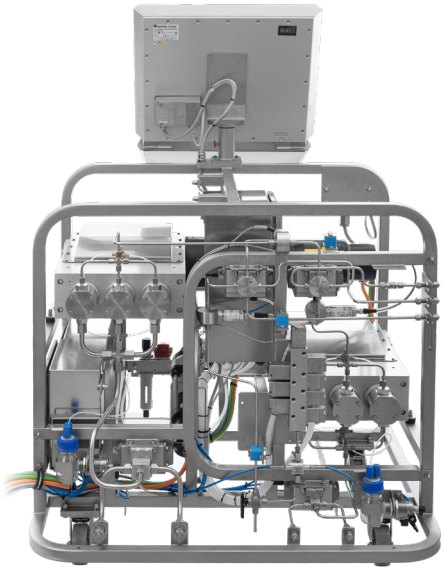
Multiple Configurations to connect a large range and size of LC columns, such as HPLC, MPLC (High and Medium Pressure Liquid Chromatographic column), or CPC (Centrifugal Partition Chromatographic column) to optimize your production throughput, costs, and quality.
The VERITY® SKID answers all the requirements of pharmaceutical molecule purification process.

Reliable and Powerful

- Piston pump technology to achieve a large dynamic range of flowrate (from 1% to 100% of the pump capabilities)
- Operates at pressure up to 100 bar (1450 psi)
- Flowrate up to 300 L/h available in isocratic or binary high-pressure gradient
- High precision automatic injection pump for optimized production time

Easy-to-Use and Flexible

- Flexible configurations allowing to use columns from 30 to 250 mm ID
- Conception made for easy cleanability of the frame and the structure
- Mobile unit equipped with reinforced rotative wheels and directional brakes
- Easy-to-use software allowing automated stack injections and a preset list of methods for automated production



Safe and Compliant

- Advance safety features with pressure transmitters, leak sensors and optional flowmeter
- 21 CFR part 11 chromatographic software specifically designed for production
- Ex (Explosion Proof) option for use in a potentially explosive atmosphere
- cGMP ready documentation pack and FDA compliant parts are available on option for regulated environments

GEL PERMEATION CHROMATOGRAPHY
(GPC CLEANUP)

verity®

GPC CLEANUP

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

Fully Automated system to Improve Efficiency and Reliability

With the ability to clean up to 80 samples extracted in the same run with high autonomy, the VERITY GPC Cleanup is a perfect tool to improve efficiency.

GPC Cleanup for a Variety of Substances

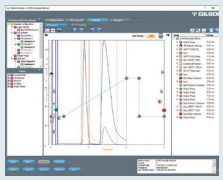
By discarding high molecular weight interfering substances contained in sample extracts (lipids, proteins, cell debris, pigments humic acid, etc.), and recovering analytes of interest into a pure fraction of solvent, GPC is a simple but efficient clean-up technique to eliminate matrix effect and to protect your GC or LC analytical system from contaminating substances. By automating the process with preprogrammed methods, the VERITY GPC Cleanup leads to more reliable results and fewer sample repeats.

Complete Workflow Integration

A large choice of racks compatible with different evaporation vessels are available to directly collect compound fractions inside, which prevents any additional manual transfer during post GPC process.

Sample Integrity

The septum piercing capability can maintain the integrity of a sample extract by using closed tubes. Independent flow paths between injection and fraction collection avoids cross contamination and produces reliable results.



All Under TRILUTION® LC Software 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.

Request a quote today at www.gilson.com or from your local Gilson representative.

EXTRACTION

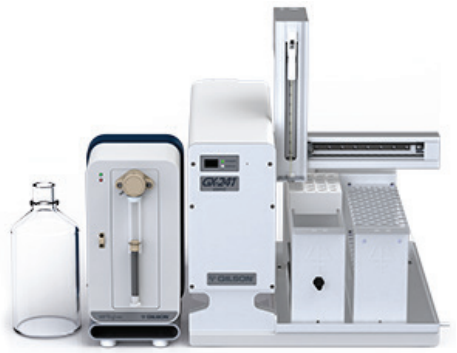
GET THE MOST FROM YOUR ANALYTICAL SYSTEMS WITH TRUSTED RESULTS

Solid phase extraction (SPE) is a highly selective clean-up technique that eliminates matrix effects and concentrate

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.

AUTOMATED EXTRACTION SYSTEM SELECTION GUIDE

ASPEC® 241 System

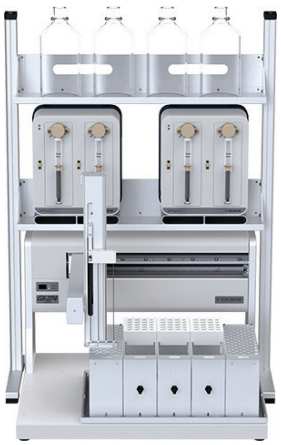


- Compact system for basic SPE automation
- Up to 36 samples on 1 mL cartridges, 20 on 3 mL, and 16 on 6 mL

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 Permeation Chromatography (GPC) and liquid-liquid extraction (LLE) and SLE cleanup applications

ASPEC® 274 System



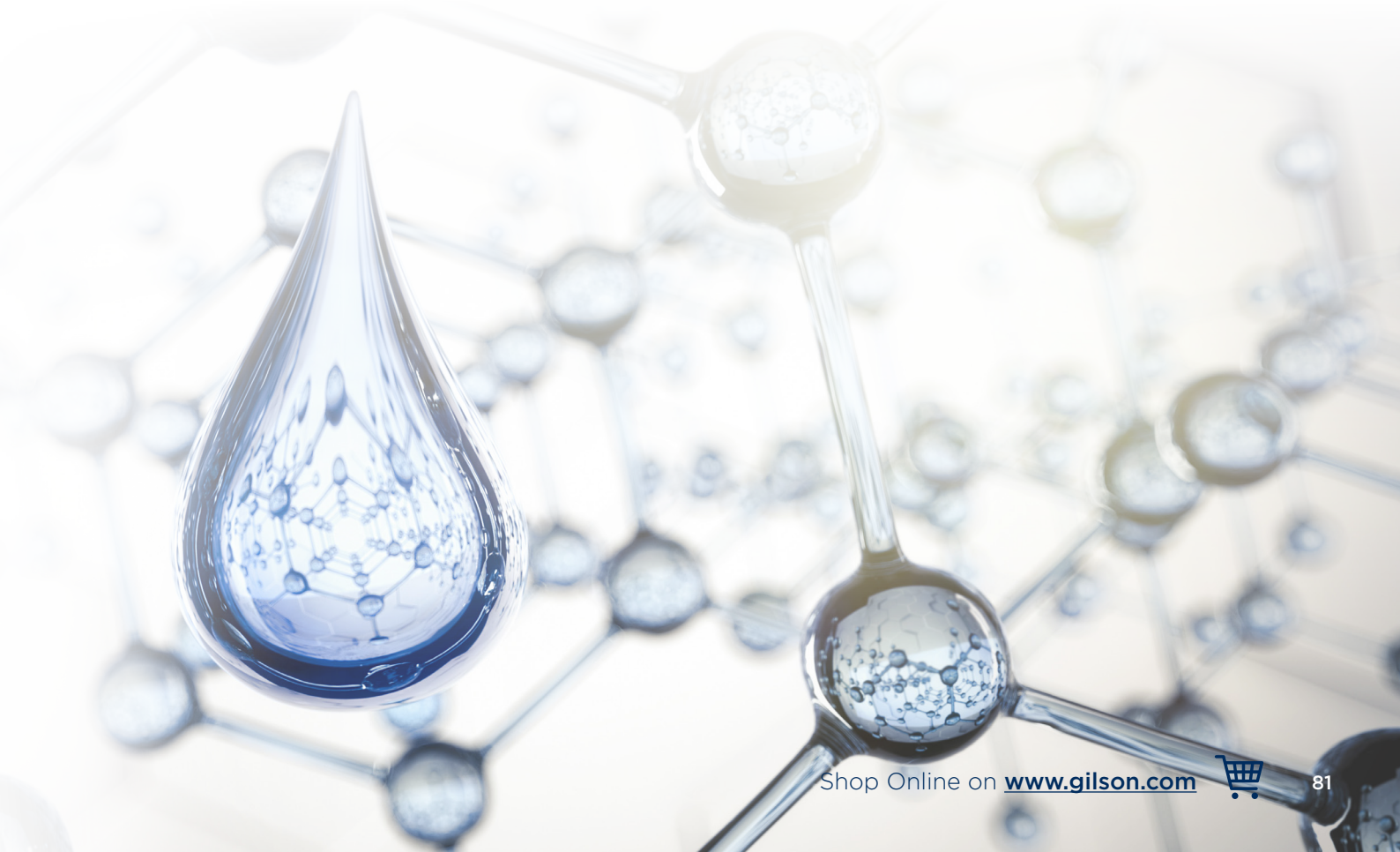
- High throughput system for basic and advanced SPE automation
- Process four samples in parallel
- Up to 108 samples on 1 mL cartridges, 60 on 3 mL and 48 on 6 mL
- Compatible with LLE and SLE cleanup

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

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



aspec®

PPM

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.

Request a quote today at www.gilson.com or from your local Gilson representative.

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

aspec®

274

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

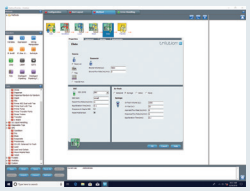
Mobile rack technology enables multiple fractions elution and extractions per sample and additional fractions transfer in closed vials after SPE.

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.

Download application notes at www.gilson.com.

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

Pesticides
Glyphosate

Other Contaminants
PAHs - PFAs

Endocrine Disruptors

Drugs Residues

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	Sample Matrix Type		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 HLB**
			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

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 and 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.

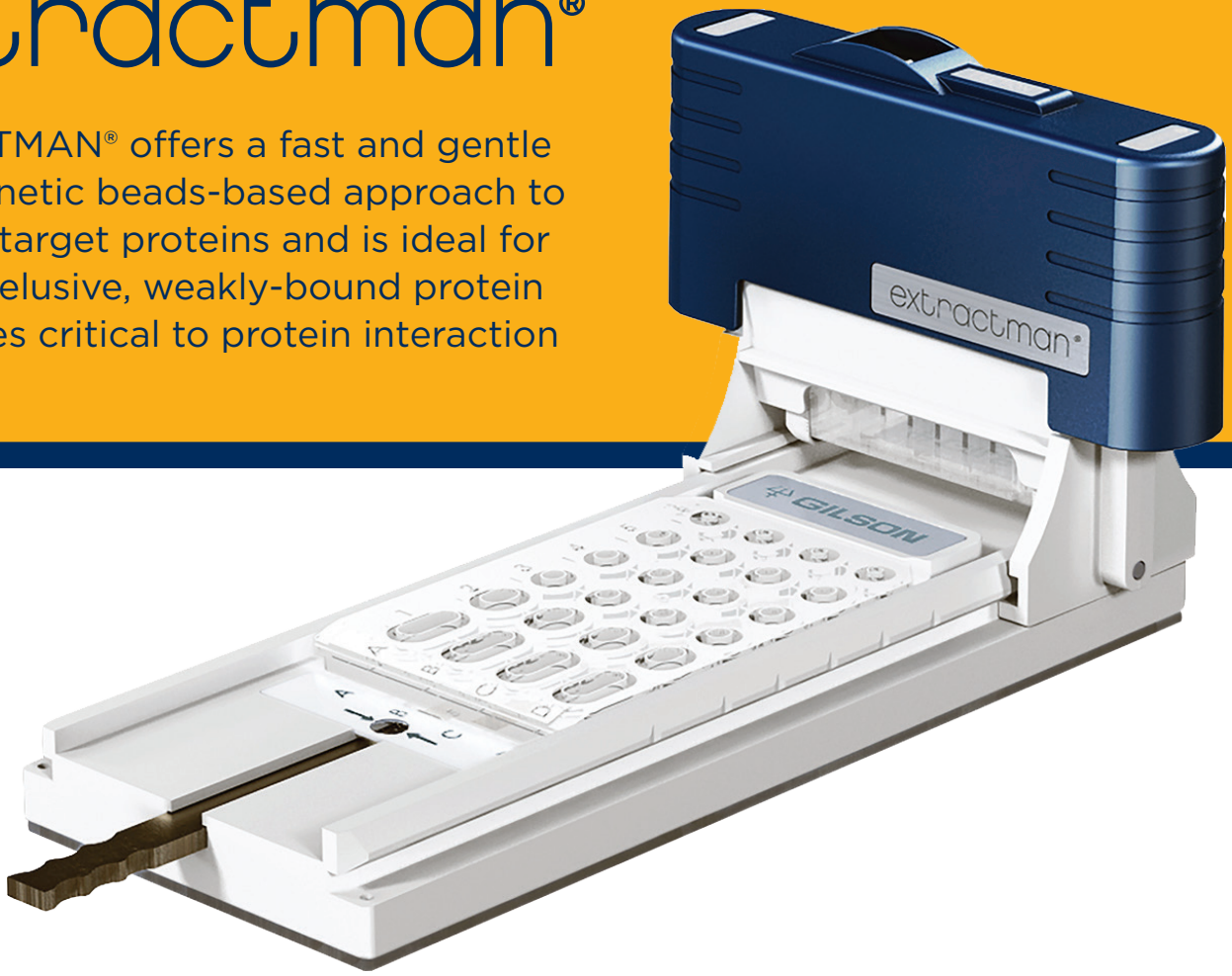
MEMBRANE APPLICATIONS	
Application	**Membrane Type**
(U)HPLC solvents	PTFE or Nylon
Aqueous solution	All except PTFE
Iconic chromatography	PES or PTFE
Protein analysis	PES or PVDF
Environmental and food analysis	PTFE or Nylon
Clinical or toxicological analysis	PES
ICP/AAS metals analysis	PES or Nylon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

Contact us about filtration automation solutions at www.gilson.com or from your local Gilson representative.

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

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

Request a quote today at www.gilson.com or from your local Gilson representative.

Find more tools and resources at www.gilson.com.

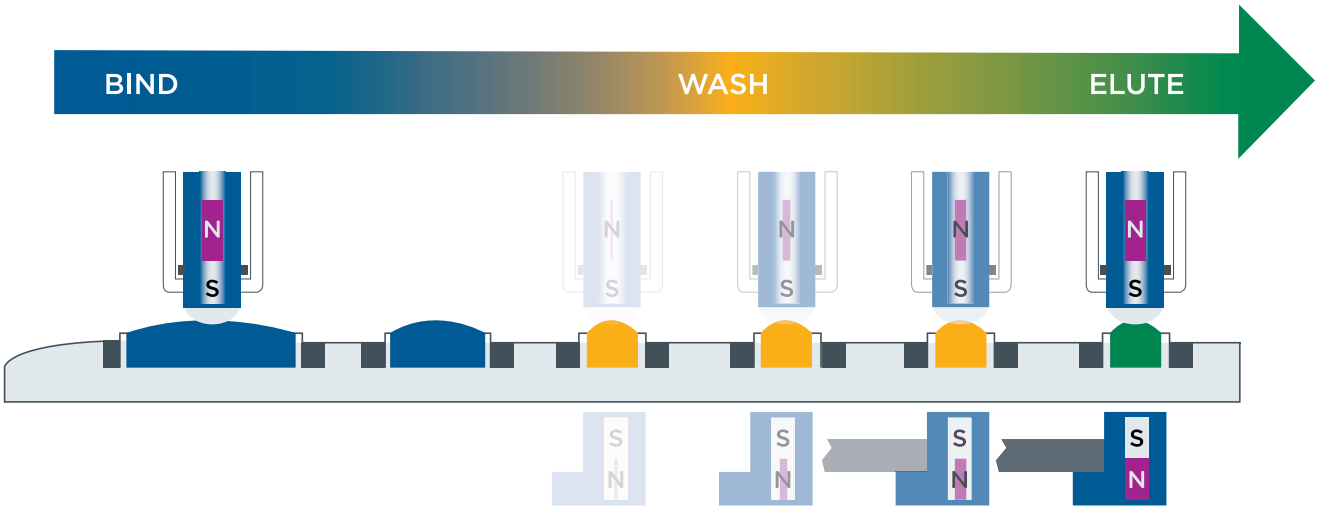
EXTRACTMAN®

A Novel Platform for Target Protein Isolation

Watch video

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.