



ABOUT US

Since 1957, we have proudly offered a wide and reliable range of purification, extraction, and liquid handling solutions to help scientists in their daily work.

With our family of products, you'll find tailored solutions and cost-effective ways to manage your liquid samples. The pipetting system is our signature specialty, and we take great joy in sharing our knowledge with pipette users, helping them to achieve their goals. Gilson offers a diverse range of manual to automated liquid handling solutions, including single channel pipettes, multichannel pipettes, semi-automated and automated pipetting solutions, pipette tips, pipette accessories, and tailor-made services. With our products, you'll find smart solutions and cost-effective ways to manage your liquid samples, empowering you to successfully complete your research and have total confidence in your sample preparation steps.



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SERVICES AND SUPPORT

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.



CUSTOMER SERVICE

TECHNICAL SUPPORT





(BOB)

SERVICE CENTER

Locate contact information for your local Gilson representative at www.gilson.com.

MANUAL LIQUID HANDLING

HAVE OUR EXPERT TECHNICIANS RESTORE YOUR PIPETTES

Gilson is the expert on pipettes with decades of experience. Regular maintenance of your pipettes will ensure they operate within specification and deliver reproducible data with the accuracy you need. Regular maintenance will also minimize downtime in your lab, will reduce the likelihood of unplanned, costly repairs and increase the lifespan of your pipettes. Gilson service technicians are factory trained, use manufacturer parts, as well as proprietary Volumetrics GV® Software. Volumetrics GV 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. Plus, maintain confidence in the accuracy and reliability of your results from knowing your instrument is operating within original specifications.





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

	Descri	ption	Throughput	Comfort	Benefits	Page
ГЛ	PIPETMAN® M/ PIPETMAN® M Connected		Medium to High		Ease-of-UseOn-Target Performance	8
AIR DISPLACEME	PIPETMAN [®] L		Low to Medium		 All Day Pipetting Comfort Secure Pipetting Fully Autoclavable 	10
SINGLE CHANNEL, AIR DISPLACEMENT	PIPETMAN [®] G		Low to Medium		 Pipetting Comfort Reliable Results Built-to-Last and Convenient 	12
SIN	PIPETMAN® Classic		Low		 Built to Last Easiest Pipette to Maintain 	14
NNEL	PIPETMAN® M/ PIPETMAN® M Connected		Medium to High		Ease-of-UseOn-Target Performance	8
MULTICHANNEL	PIPETMAN [®] L		Medium to High		 All Day Pipetting Comfort Secure Pipetting Fully Autoclavable 	10
SPECIALTY	MICROMAN® E		Low		 Reliable Results Even with Non-Aqueous Liquids Overall Protection Designed with Comfort in Mind 	24
SEMI-AUTOMATED	PLATEMASTER®		High		 Save Time and Increase Your Productivity Simplifies Sample Prep Convenient for any Microplate Application 	18
AUTOMATED	PIPETMAX®		High		 Upgrade to Automation for Reliable, Accurate Pipetting Free Yourself from Tedious Sample Prep Work Stay Flexible—For Now And For The Future PIPETMAN Inside 	16



pipetman[®]

PIPETTE SMARTER, REPORT FASTER, CONFIDENTLY,

PIPETMAN[®] M is an electronic 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 helps reduce pipetting fatigue and increase pipetting efficiency. PIPETMAN M is available in 20 models covering a volume range from 0.5 µL to 10 mL in single channel, and 0.5 μ L to 1200 μ L in multichannel.

EASE-OF-USE

Simple-to-use, motorized pipette-two-button operation. With a streamlined user interface, five pipetting modes, control of your sample prep is at your fingertips. Switch into custom mode to create a new protocol. Save and transfer your protocol securely into PIPETMAN[®] M Software for recall at a later date.

ON-TARGET PERFORMANCE

Trust in your results with guaranteed performance in both standard and repetitive pipetting mode.

PIPETMAN® M Connected

PIPETMAN M Connected is a Bluetooth®-enabled electronic pipette that offers complete access to your pipette information through the PipetteScope[™] app available on Google Play.

Know exactly when your pipette needs to be calibrated. In one location, access service history reports and gain visibility of the pipette usage analytics.

TRACKMAN® Connected

TRACKMAN Connected is a tablet designed to communicate with PIPETMAN M Connected via Bluetooth®. The tablet interacts in real-time with the pipette and guides you through your protocol. Through an app, you can easily request a calibration appointment and view service history reports in one central location.

PIPETMAN M Connected and TRACKMAN® Connected are available in Europe and the United States only.



*

1001

LIQUID HANDLING

PIPETMAN M/PIPETMAN M CONNECTED SINGLE CHANNEL

				Part Number			Gilson Specit	fications	
	Model	PIPETMAN [®] DIAMOND Tips		м		Standard P	IPET mode		REPETITIVE Mode
					Volume Range	Volume (µL)	Systematic Error (µL)	Random Error (µL)	Volume
0.5-10 µL	P10M	D10 DL10	DF10 DFL10	F81022 F81040	0.5-10 μL	0.5 1 5 10	± 0.040 ± 0.025 ± 0.060 ± 0.080	≤ 0.013 ≤ 0.012 ≤ 0.020 ≤ 0.025	0.5-10 μL
+ Р20 П 2-20 µL	P20M	D200	DF30	F81023 F81041	2-20 μL	2 10 20	± 0.075 ± 0.100 ± 0.150	≤ 0.025 ≤ 0.035 ≤ 0.050	2-20 μL
+ P100 - M 5-100 µL	P100M	D200	D100	F81013 F81042	5-100 μL	5 10 50 100	± 0.35 ± 0.30 ± 0.38 ± 0.40	≤ 0.10 ≤ 0.10 ≤ 0.12 ≤ 0.15	5-100 μL
20-200 µL	P200M	D200 D300	DF200 DF300	F81024 F81043	20-200 μL	20 100 200	± 0.40 ± 0.80 ± 1.00	≤ 0.15 ≤ 0.22 ≤ 0.26	5-200 μL
9 P300 m 20-300 µL	P300M	D200 D300	DF200 DF300	F81014 F81044	20-300 μL	20 30 150 300	± 0.80 ± 0.70 ± 0.90 ± 1.05	≤ 0.16 ≤ 0.20 ≤ 0.23 ≤ 0.30	10-300 μL
0 P1200 m 100-1200 µL	P1200M	D1000 D1200	DF1000 DF1200	F81015 F81045	100-1200 μL	100 120 600 1200	± 2.5 ± 2.4 ± 3.6 ± 6.0	≤ 0.4 ≤ 0.4 ≤ 0.8 ≤ 1.2	20-1200 μL
0 P5000 m 500-5000 µL	P5000M	D5000		F81016 F81046	500-5000 μL	500 2500 5000	± 10 ± 15 ± 25	≤ 2 ≤ 4 ≤ 7	100-5000 μL
+ P10mL - M 1-10 mL	P10mLM	D10mL		F81017 F81047	1-10 mL	1 mL 5 mL 10 mL	± 25 ± 30 ± 50	≤ 4 ≤ 8 ≤ 12	200 μL-10 mL

	PIPETMAN M/PIPETMAN M CONNECTED MULTICHANNEL									
P10 m	P8x10M	D10	DF10	F81025 F81048	0.5-10 μL	0.5 1	± 0.05 ± 0.04	≤ 0.02 ≤ 0.02	0.5-10 μL	
0.5-10 µL	P12x10M	DL10	DFL10	F81026 F81049	0.0 10 µL	5 10	± 0.08 ± 0.10	≤ 0.04 ≤ 0.06	0.5-10 με	
+ P20 -	P8x20M	DL10	DFL10	F81027 F81050	2-20 μL	2	± 0.08 ± 0.09	≤ 0.05 ≤ 0.06	1-20 μL	
2-20 µL		D200	DF30	F81028 F81051		10 20	± 0.15 ± 0.25	≤ 0.10 ≤ 0.12		
+ P100 -	P8x100M	D200	DF100	F81018 F81052	5-100 μL	10 50 100	± 0.25 ± 0.50	≤ 0.14 ≤ 0.20	5-100 µL	
5-100 µL	P12x100M	0200	DF100	F81019 F81053			± 0.80	≤ 0.25	5-100 μΕ	
₽200 - M	P8x200M	D200	DF100 DF200	F81029 F81054	20-200 μL	20 100 200	± 0.50 ± 1.00 ± 2.00	≤ 0.16 ≤ 0.30	5-200 uL	
20-200 µL	P12x200M	D300	DF200 DF300	F81030 F81055				≤ 0.50 ≤ 0.50	5-200 μΕ	
P300 m	P8x300M	D200	DF200	F81031 F81056	20-300 uL	10 30 150	± 1.00 ± 1.00	≤ 0.18 ≤ 0.18	10-300 uL	
28-300 µL	P12x300M	D300	DF300	F81032 F81057	20-300 με	150 300	± 1.50 ± 2.40	≤ 0.375 ≤ 0.45	10-300 με	
© P1200 •	P8x1200M	D1200		F81020 F81058	50-1200 μL	50 120	± 4.0 ± 4.0	≤ 0.7 ≤ 0.7		
59-1200 µL	P12x1200M	01200	DF1200	F81021 F81059		600 1200	± 4.0 ± 6.0 ± 9.6	≤ 0.7 ≤ 1.5 ≤ 1.8	50-1200 μL	

www.usion.com. Under these conditions.com. Under these conditions of the same data distribution of the same data distribution of the same data distribution.com and the same data distribution of the same data distreba of ISO recommendations for repetitive pipetting mode for air-displacement pipettes, Gilson volumetric specifications for repetitive pipetting (REPETITIVE mode) are guaranteed within ISO 3655-2 recommendations for standard pipetting (Cf. ISO 8655-2 table 1

ACCESSORIES							
Accessory	Part Number						
PIPETMAN M Power Carrousel	FB1001						
PIPETMAN M Stand Adaptor	F807023						

For our full range of pipette accessories, see page 19.

pipetman®

INCREASE PRODUCTIVITY WITHOUT SACRIFICING COMFORT

PIPETMAN[®] L is the latest mechanical pipette from Gilson, built on ergonomics, comfort, and traceability research. This pipette combines the legendary robustness of the PIPETMAN[®] Classic, a newly designed body, and state of the art mechanism.

ALL DAY PIPETTING COMFORT

Balance is key to a comfortable pipette. PIPETMAN L has the ideal weight, handle shape and tip ejection to maximize just that.

SECURE PIPETTING

PIPETMAN L features a true volume-locking mechanism to guarantee no accidental volume change during pipetting cycles, which could alter accuracy and precision.

Every aspect of the PIPETMAN L has been designed with your hand in mind to help increase daily productivity and pipette longer without fatiguing your hand.

PIPETMAN L multichannel models offer optimized performance across channels for a uniform sample delivery.

PIPETMAN L is also available as a fixed volume pipette.

FULLY AUTOCLAVABLE*

PIPETMAN L variable volume models are fully autoclavable without disassembly for maximum convenience, as well as protection from cross-contamination.

*Only current variable volume models are fully autoclavable. Variable volume models have a serial number that starts from NK and a steam-sterilization mark on the pipette.



				Part I	Number			Maximum P	ermissible Errors	;
Мос	lel	PIPETMAN* DIAMOND Tips		With Stainless	With Plastic	Volume (µL)	G	Gilson		O 8655
				Steel Ejector	Ejector		Systematic Error (µL)	Random Error (µL)	Systematic Error (µL)	Random Erro (µL)
P2L		D10 DL10	DF10 DFL10	FA10001M	FA10001P	0.2 0.5 1 2	± 0.024 ± 0.025 ± 0.027 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.013 ≤ 0.014	± 0.08 ± 0.08 ± 0.08 ± 0.08 ± 0.08	≤ 0.04 ≤ 0.04 ≤ 0.04 ≤ 0.04
P10L	*	D10 DL10	DF10 DFL10	FA10002M	FA10002P	1 5 10	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 0.12 ± 0.12 ± 0.12	≤ 0.08 ≤ 0.08 ≤ 0.08
P201	-	D200	DF30	FA10003M	FA10003P	2 10 20	± 0.10 ± 0.10 ± 0.20	≤ 0.030 ≤ 0.050 ≤ 0.060	± 0.2 ± 0.2 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.1
P100)L	D200	DF100	FA10004M	FA10004P	10 50 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 0.8 ± 0.8 ± 0.8	≤ 0.3 ≤ 0.3 ≤ 0.3
P20	DL	D200 D300	DF200 DF300	FA10005M	FA10005P	20 100 200	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 1.6 ± 1.6 ± 1.6	≤ 0.6 ≤ 0.6 ≤ 0.6
P100	OL	D1000 D1200	DF1000 DF1200	FA10006M	FA10006P	100 500 1000	± 3.0 ± 4.0 ± 8.0	≤ 0.6 ≤ 1.0 ≤ 1.5	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0
P50	DOL	D5000		FA10007**		500 2500 5000	± 12 ± 15 ± 30	≤ 3 ≤ 5 ≤ 8	± 40 ± 40 ± 40	≤ 15.0 ≤ 15.0 ≤ 15.0
P10r	nLL	D10mL		FA10008**		1000 5000 10000	± 30 ± 40 ± 60	≤ 6 ≤ 10 ≤ 16	± 60 ± 60 ± 60	≤ 30.0 ≤ 30.0 ≤ 30.0

PIPETMAN® L SINGLE CHANNEL-VARIABLE VOLUME MODELS

PIPETMAN® L MULTICHANNEL

(P)	P8x10L D10 P12x10L D10		DF10	FA10013	0.5	± 0.08 ± 0.08	≤ 0.04 ≤ 0.05	± 0.24 ± 0.24	≤ 0.16 ≤ 0.16
PD			DFL10	FA10014	5 10	± 0.20 ± 0.20	≤ 0.10 ≤ 0.10	± 0.24 ± 0.24	≤ 0.16 ≤ 0.16
(11 Arr	P8x20L	DL10	DFL10	FA10009	2	± 0.10 ± 0.20 ± 0.40	≤ 0.08 ≤ 0.10	± 0.4 ± 0.4 ± 0.4	≤ 0.20 ≤ 0.20 ≤ 0.20
123	P12x20L D200	D200	DF30	FA10010	20		≤ 0.15		
8 ⁵¹⁰ 4 138	P8x200L	D200	DF200	FA10011		± 0.50 ± 1.00	≤ 0.25 ≤ 0.40	± 3.2 ± 3.2	≤ 1.2 ≤ 1.2
P280	P12x200L	D300	DF300	FA10012	200	± 2.00	≤ 0.50	± 3.2	≤ 1.2
(1 ¹¹)		D200	DF200	FA10015	30 150	± 1.00 ± 1.00 ± 1.50 ± 3.00	≤ 0.35 ≤ 0.35 ≤ 0.60 ≤ 1.00	± 8.0 ± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0
738		D300	DF300	FA10016					≤ 3.0 ≤ 3.0

P101 model can be used up to 0.5 µl

* PIOL model can be used up to us_pic. * PS000L and PIOmLL do not have tip ejectors. For a pipette with a plastic tip ejector, the part number ends with the letter P. For a pipette with a stainless sheel tip ejector, the part number is ends with the letter M. Gilson maximum permissible errors are guaranteed only when PIPETMAN pipettes are used with the recommended PIPETMAN DIAMOND Tips

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® G

PREMIUM PIPETTING COMFORT

PIPETMAN[®] G offers one of the lowest pipetting forces commercially available. With a redesigned piston assembly system and high quality piston grease, PIPETMAN G guarantees hours of comfortable pipetting.

RELIABLE RESULTS

PIPETMAN G relies on the legendary accuracy, precision, and reliability of PIPETMAN[®], with improved pipetting comfort.

BUILT-TO-LAST AND CONVENIENT

Made of PVDF and stainless steel, PIPETMAN G offers premium durability. The PIPETMAN G clip ejector allows for convenient access to serviceable parts.

PIPETMAN® G KITS

Model	Part Number	PIPETMAN G Models	PIPETMAN DIAMOND Tips	Accessories
PIPETMAN G Starter Kit	F167900	P20G P200G P1000G	D200 D1000	3 SINGLE [™] pipette holders 3 plastic ejectors 3 Comfort Handles User Guide Gilson Guide to Pipetting Two-minute inspection poster
PIPETMAN G Micro-volume Kit	F167800	P2G P10G P100G	DL10 D200	3 SINGLE [™] pipette holders 3 plastic ejectors User Guide Gilson Guide to Pipetting Two-minute inspection poster
PIPETMAN G Large-volume Kit	F167920	P5000G P10mLG	-	2 bags of 10 filters
PIPETMAN G Four Pipette Kit	F167360	P2G P20G P200G P1000G	DL10 D200 D1000	4 SINGLE™ pipette holders 4 Comfort Handles User Guide Gilson Guide to Pipetting Two-minute inspection poster

Π 20- 200 µL

			PIPETMA	N [®] G SINGLE	CHANNEL			
						Maximum Pe	rmissible Errors	
Model	PIPETMAN* DI	AMOND Tips	Part Number	Volume (µL)	G	ilson	ISO 8655	
					Systematic Error (µL)	Random Error (µL)	Systematic Error (µL)	Random Error (µL)
P2G	D10 DL10	DF10 DFL10	F144054M	0.2 0.5 1 2	± 0.024 ± 0.025 ± 0.025 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.012 ≤ 0.014	± 0.08 ± 0.08 ± 0.08 ± 0.08	≤ 0.04 ≤ 0.04 ≤ 0.04 ≤ 0.04
P10G*	D10 DL10	DF10 DFL10	F144055M	1 5 10	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 0.12 ± 0.12 ± 0.12	≤ 0.08 ≤ 0.08 ≤ 0.08
P20G	D200	DF30	F144056M	2 10 20	± 0.10 ± 0.10 ± 0.20	≤ 0.030 ≤ 0.050 ≤ 0.060	± 0.2 ± 0.2 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.1
P100G	D200	DF100	F144057M	10 50 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 0.8 ± 0.8 ± 0.8	≤ 0.3 ≤ 0.3 ≤ 0.3
P200G	D200 D300	DF200 DF300	F144058M	20 100 200	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 1.6 ± 1.6 ± 1.6	≤ 0.6 ≤ 0.6 ≤ 0.6
P1000G	D1000 D1200	DF1000 DF1200	F144059M	100 500 1000	± 3.0 ± 4.0 ± 8.0	≤ 0.6 ≤ 1.0 ≤ 1.5	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0
P5000G**	D5000		F144066	500 2500 5000	± 12 ± 15 ± 30	≤ 3 ≤ 5 ≤ 8	± 40 ± 40 ± 40	≤ 15.0 ≤ 15.0 ≤ 15.0
P10mLG**	D10mL		F144067	1000 5000 10000	± 30 ± 40 ± 60	≤ 6 ≤ 10 ≤ 16	± 60 ± 60 ± 60	≤ 30.0 ≤ 30.0 ≤ 30.0

PIPETMAN® G MULTICHANNEL

						Maximum Permissible Errors			
	Model	PIPETMAN* DIAN	MOND Tips	Part Number	Volume (µL)	Gil	son	ISO 8655	
						Systematic Error (μL)	Random Error (µL)	Systematic Error (μL)	Random Error (µL)
(P8x10 P12x10	D10 DL10	DF10 DFL10	F144068 F144069	1 5 10	± 0.08 ± 0.20 ± 0.20	≤ 0.05 ≤ 0.10 ≤ 0.10	± 0.24 ± 0.24 ± 0.24	≤ 0.16 ≤ 0.16 ≤ 0.16
10 AV 920	P8x20 P12x20	DL10 D200	DFL10 DF30	F144070 F144071	2 10 20	± 0.10 ± 0.20 ± 0.40	≤ 0.08 ≤ 0.10 ≤ 0.20	± 0.4 ± 0.4 ± 0.4	≤ 0.20 ≤ 0.20 ≤ 0.20
(¹⁰)	P8x200 P12x200	D200 D300	DF200 DF300	F144072 F144073	20 100 200	± 0.50 ± 1.00 ± 2.00	≤ 0.25 ≤ 0.40 ≤ 0.50	± 3.2 ± 3.2 ± 3.2	≤ 1.2 ≤ 1.2 ≤ 1.2
	P8x300 P12x300	D200 D300	DF200 DF300	F144074 F144075	30 150 300	± 1.00 ± 1.50 ± 3.00	≤ 0.35 ≤ 0.60 ≤ 1.00	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0

Gilson maximum permissible errors are guaranteed only when PIPETMAN* pipettes are used with the recommended PIPETMAN* DIAMOND Tips. For more information about guaranteed performance, visit <u>www.gilson.com</u>. *1960 model can be used up to 0.5 µL. ** P5000G and P10mLG do not have tip ejectors.

ACCESSORIES							
Accessory	Part Number						
CARROUSEL STAND, 7 PIPETTES	F161401						
TRIO STAND, 3 PIPETTES	F161405						

For our full range of pipette accessories, see page 19.





THE WORLD PIPETTING STANDARD

PIPETMAN[®] Classic line, the world standard in pipetting, offers a wide range of continuously adjustable, air-displacement pipettes with legendary accuracy and precision. The PIPETMAN Classic line is available in eight single channel models covering a range of volumes from 0.2 μ L to 10 mL.

BUILT TO LAST

Made of highly resistant materials like PVDF and stainless steel, PIPETMAN Classic offers uncontested durability and reliability. Built to last, it is the economical solution for years of pipetting.

EASIEST PIPETTE TO MAINTAIN

Routine cleaning and maintenance are all that is required to keep PIPETMAN Classic in top condition for years.

The PIPETMAN Classic design allows for easy access to user-serviceable parts, along with a fully autoclavable tip holder and ejector.

AN EVOLUTION

1969 The Original PIPETMAN	1972 PIPETMAN* Classic	2007 PIPETMAN* Neo	2011 PIPETMAN* G	2012 PIPETMAN* L
and the second s		S. T		
The PIPETMAN story began more than 40 years ago with the invention of the original PIPETMAN, the world's first adjustable volume pipette.	PIPETMAN Classic is the world standard in pipetting. It boasts accuracy, precision, and reliability.	PIPETMAN Neo contains all the benefits that built the reputation of the legendary PIPETMAN Classic with the added bonus of increased comfort.	PIPETMAN G provides the robustness and dependable accuracy in results of the PIPETMAN Classic and offers lower pipetting forces.	PIPETMAN L is the latest mechanical pipette from Gllson, built on ergonomics, comfort, and traceability research.

For more information about PIPETMAN Neo, please contact your local Gilson representative.

PIPETMAN® CLASSIC SINGLE CHANNEL-VARIABLE VOLUME MODELS

						Maximum Permissible Errors			
	Model	PIPETMAN [®] DIAMOND Tips	Part Number	Volume (µL)	Gil	son	ISO 8655		
						Systematic Error (µL)	Random Error (µL)	Systematic Error (µL)	Random Error (µL)
	P2	D10 DL10	DF10 DFL10	F144801	0.2 0.5 1 2	± 0.024 ± 0.025 ± 0.025 ± 0.030	≤ 0.012 ≤ 0.012 ≤ 0.012 ≤ 0.014	± 0.08 ± 0.08 ± 0.08 ± 0.08	≤ 0.04 ≤ 0.04 ≤ 0.04 ≤ 0.04
	P10	D10 DL10	DF10 DFL10	F144802	1 5 10	± 0.025 ± 0.075 ± 0.100	≤ 0.012 ≤ 0.030 ≤ 0.040	± 0.12 ± 0.12 ± 0.12	≤ 0.08 ≤ 0.08 ≤ 0.08
10,44	P20	D200	DF30	F123600	2 5 10 20	± 0.10 ± 0.10 ± 0.10 ± 0.20	≤ 0.030 ≤ 0.040 ≤ 0.050 ≤ 0.060	± 0.2 ± 0.2 ± 0.2 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.1 ≤ 0.1
44 8	P100	D200	DF100	F123615	10 50 100	± 0.35 ± 0.40 ± 0.80	≤ 0.10 ≤ 0.12 ≤ 0.15	± 0.8 ± 0.8 ± 0.8	≤ 0.3 ≤ 0.3 ≤ 0.3
24+ 81	P200	D200 D300	DF200 DF300	F123601	20 100 200	± 0.50 ± 0.80 ± 1.60	≤ 0.20 ≤ 0.25 ≤ 0.30	± 1.6 ± 1.6 ± 1.6	≤ 0.6 ≤ 0.6 ≤ 0.6
9	P1000	D1000 D1200	DF1000 DF1200	F123602	100 500 1000	± 3.0 ± 4.0 ± 8.0	≤ 0.6 ≤ 1.0 ≤ 1.5	± 8.0 ± 8.0 ± 8.0	≤ 3.0 ≤ 3.0 ≤ 3.0
	P5000	D5000		F123603	500 2500 5000	± 12 ± 15 ± 30	≤ 3 ≤ 5 ≤ 8	± 40 ± 40 ± 40	≤ 15.0 ≤ 15.0 ≤ 15.0
0	P10mL	D10mL		F161201	1000 2000 5000 10000	± 30 ± 30 ± 40 ± 60	≤ 6 ≤ 6 ≤ 10 ≤ 16	± 60 ± 60 ± 60 ± 60	≤ 30.0 ≤ 30.0 ≤ 30.0 ≤ 30.0

PIPETMAN® CLASSIC KITS

Model	Part Number	PIPETMAN Classic Models	PIPETMAN® DIAMOND Tips	Accessories
PIPETMAN Classic Starter Kit	F167300	P20 P200 P1000	D200 D1000	3 SINGLE™ pipette holders 1 Gilson Guide to Pipetting
PIPETMAN Classic Micro-volume Kit	F167500	P2 P10 P100	DL10 D200	3 SINGLE™ pipette holders 1 Gilson Guide to Pipetting
PIPETMAN Classic Large-Volume Kit	F167400	P5000 P10mL	-	2 bags of 10 filters
PIPETMAN Classic Four Pipette Kit	F167380	P2 P20 P200 P1000	DL10 D200 D1000	4 SINGLE™ pipette holders 4 PIPETMAN Comfort Handles 1 Gilson Guide to Pipetting 1 Two-minute inspection poster



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MAXIMIZE REPRODUCIBILITY OF YOUR BIOLOGICAL SAMPLE PREP

Increase reproducibility and the pace of your experiments with this easy-to-use, affordable, 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

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

PIPETMAN INSIDE

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

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 Single channel 1000 μL			
Pipette Head Mounts	Two PIPETMAX pipetting heads			
Labware Compatibility	Standard shallow- and deep-well microplates and microcentrifuge tubes			
	PIPETMAX with rotating cover 54.4 x 65.5 x 53.1 cm (21.4 x 25.8 x 20.9 in)			
Dimensions (W x D x H)	PIPETMAX with rotating cover installed on optional riser assembly for off-bed tip disposal $54.4 \times 65.5 \times 69.6 \text{ cm} (21.4 \times 25.8 \times 27.4 \text{ in})$			
	PIPETMAX without cover 50.8 x 64.3 x 49.5 cm (20 x 25.3 x 19.5 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					
Accessory	Part Number				
PIPETMAX MAX8X20 Pipette Head	FC10022				
PIPETMAX MAX8X200 Pipette Head	FC10021				
Tip Disposal Bin	32000274				
PIPETMAX Riser Off-Bed Tip Disposal	32000177				
TRILUTION [®] micro Software for PC	32000320				
TRILUTION® micro Software Tablet	32000321				

APPLICATION VERSATILITY

- qPCR
- NGS Library Preparation
- ELISA
- Custom Liquid Handling
- Cell Based Assays
- Agencourt[®] AMPure[®] XP PCR kits
- Protein Assays

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- Illumina Nextera® XT System DNA Library Preps for Miseq®
- Enzymatic Reactions
- Promega GoTaq[®] Probe 1-Step RT-qPCR[®]
- PCR
- Promega GoTaq® PCR Core System
- Kinase Assays

Download application notes at <u>www.gilson.com</u>.

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platemaster[®]

FAST MICROPLATE PIPETTING

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

SAVE TIME AND INCREASE YOUR PRODUCTIVITY

With minimal setup you can fill 96or 384-well plates in less than one minute by significantly reducing the number of pipetting steps.

SIMPLIFIES SAMPLE PREP

PLATEMASTER requires no programming, no power, and minimal training, so you can start pipetting right away.

CONVENIENT FOR ANY MICROPLATE APPLICATION

From plate transfer to supernatant, achieve accuracy and precision on the bench or under the hood.



PLATEMASTER ACCESSORIES

Description	Part Number
384-well adapter, positioned done by wheel.	F1077602
384-well adapter, positioned done 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

		PLATEMASTER			
Model	Part Number	PIPETMAN* DIAMOND Tips	Volume	Dimensions	Weight
PLATEMASTER P20	F110761	D200, D5200*, D200ST*, D5200ST, DF100ST, DF200ST, DF5200ST*	0.5 μL-20 μL Adjustable in 0.1 μL increments	300 x 450 x 400 mm	16 kg
PLATEMASTER P220	F110762	D200, DS200*, D300, D200ST*, DS200ST, D300ST, DF200ST, DFS200ST*, DF300ST	2 μL-220 μL Adjustable in 1 μL increments	300 x 450 x 400 mm	16 kg

*Validated for use with 384-well plates

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 (PN F161401)

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 (PN F161301) 10 Coloris Identification Clips, red (PN F161302) 10 Coloris Identification Clips, yellow (PN F161303) 10 Coloris Identification Clips, green (PN F161304) 10 Coloris Identification Clips, blue (PN F161305) 10 Coloris Identification Clips, white (PN F161306)

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 (PN F161406)

TRIO™ PIPETTE STAND

Safely stores and protects three PIPETMAN

Helps organize your workbench.

ORDERING INFORMATION

Trio Pipette Stand for 3 pipettes (PN F161405)

POWER CARROUSEL™ PIPETMAN® M charging stand. Charge up to five at once in one hour. Keeps your PIPETMAN M always operational. ORDERING INFORMATION



COMFORT HANDLE

Clips on to PIPETMAN* Classic, PIPETMAN* Neo, and PIPETMAN* G models. Reduces the force needed to grip the pipette for maximum comfort.



COMFORT HANDLE pack of 3, blue (PN **F161486**) COMFORT HANDLE pack of 3, white (PN **F161488**) COMFORT HANDLE pack of 50, blue (PN **F161485**) COMFORT HANDLE pack of 50, white (PN **F161487**) COMFORT HANDLE stickers, 120 (PN **F161499**)

REAGENT RESERVOIRS

Disposable, ideal for dispensing reagent with multichannel pipettes. 25 mL and 50 mL available.

ORDERING INFORMATION



Reagent Reservoir 25 mL, 100 (PN **F267660**) Reagent Reservoir 50 mL, 100 (PN **F267670**)





JIMMY[™] MICROTUBE OPENER

Clips on to pipette. Increases pipetting efficiency. Lessens the fatigue associated with manual tube opening



ORDERING INFORMATION The JIMMY Microtube Opener (PN F144983)

4 GILSON



HIGHEST QUALITY TIPS FOR SUPERIOR RESULTS

Not all pipette tips are created equal. Trust Gilson 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-tolot performance.

GUARANTEE YOUR PIPETMAN RESULTS

PIPETMAN DIAMOND Tips are designed to fit your PIPETMAN perfectly. Only by using PIPETMAN DIAMOND Tips in conjunction with your Gilson pipette can you guarantee the 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, every lab can afford the highest quality PIPETMAN DIAMOND Tips for 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 contaminates that can alter your experiments. From mold to bench, they are guaranteed, certified, and traceable to meet the most stringent demands in many applications.

Also available are PIPETMAN[®] DIAMOND Filter Tips offering total protection against aerosol contamination and PIPETMAN® DIAMOND Sterilized Tips, which are gamma irradiated (SAL of 10⁻⁶) and certified free of DNA, RNA, RNases, DNases, ATP proteases and trace metals.

WIDE RANGE OF TIP PACKAGING

BLISTER REFILL

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.



< refill system	
ich and 70%	
s the reload box	

TIPACK

New design is more compact, convenient, ergonomic and eco-friendly Patented 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

Quickest way to reload empty box Uses 70% less plastic, recyclable packaging is eco-friendly

Easy to store, takes up less bench space Affordable and convenient Fully autoclavable

RELOAD PACK



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 wast 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 device quality plastic terilization guaranteed for 5 years 400 individually wrapped sterilized tips







pipetman® DIAMOND TIPS

			STANDARD PIP	ETMAN® DIAMC	ND TIPS		
	D		Values - Danse	Tig Logath		Autoclavable Tips	Sterilized Tips
	Desc	ription	Volume Range	Tip Length	Qty/Pack	Part Number	Part Number
ACK		DL10 RELOAD PACK	0.1-20 μL	45 mm	960	F167012	-
RELOAD PACK		D200 RELOAD PACK	2-200 μL	51 mm	960	F167013	-
		D1000 RELOAD PACK	100-1000 μL	66 mm	576	F167014	-
		DL10 BLISTER REFILL	0.1-20 μL	45 mm	960	F172200	F172201
REFIL		D200 BLISTER REFILL	2-200 μL	51 mm	960	F172300	F172301
BLISTER REFILL		D300 BLISTER REFILL	10-300 μL	51 mm	960	F172400	F172401
B		D1000 BLISTER REFILL	100-1000 μL	66mm	960	F172500	F172501
		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
TIPACK		D300 TIPACK	10-300 μL	51 mm	960	F171400	F171401
, TIP		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	-
		D10 TOWERPACK	0.1-10 μL	30 mm	960	F167101	F167201
ACK		DL10 TOWERPACK	0.1-20 μL	45 mm	960	F167102	F167202
TOWERPACK		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
		D10 ECOPACK	0.1-10 μL	30 mm	10,000	F161630	-
		DL10 ECOPACK	0.1-20 μL	45 mm	10,000	F161450	-
ECOPACK		D200 ECOPACK	2-200 μL	51 mm	10,000	F161930	-
ЕСО		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	-
		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	-
YPACK		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 (1 box of 200)	1–10 mL	16 cm	200	F161210	-
PACK		D200ST STERILPACK	2-200 μL	51 mm	400	-	F161330
STERILPACK		D1000ST STERILPACK	100-1000 μL	66 mm	400	-	F161340

PIPETMAN[®] DIAMOND FILTER TIPS

	Description	Volume Range	Tip Length	Qty/Pack	Sterilized Tips
	Description				Part Number
	DFL10ST BLISTER REFILL	0.1 - 10 μL	45 mm	960	F172203
	DF30ST BLISTER REFILL	2 - 30 μL	51 mm	960	F172303
REFILL	DF100ST BLISTER REFILL	10 - 100 μL	51 mm	960	F172403
BLISTER	DF200ST BLISTER REFILL	20- 200 μL	51 mm	960	F172503
B	DF300ST BLISTER REFILL	10 - 300 μL	51 mm	960	F172703
	DF1000ST BLISTER REFILL	100 - 1000 μL	66 mm	960	F172603
	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
TIPACK	DF100ST Filter TIPACK	10 - 100 μL	51 mm	960	F171403
TIPA	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.

	Description	Qty/Pack	Part Number
	Universal Reload Box (1 rack) for TOWERPACK	1	F167100
	DL10/D200 Empty Box for BLISTER REFILL and RELOAD Pack	2	F171204
TOWER-PACK	D1000 Empty Box	2	F171504
	Description	Qty/Pack	Part Number
	D10 Empty Racks	2	F171102
	DL10 Empty Racks	2	F171202
	D200 Empty Racks	2	F171302
	D300 Empty Racks	2	F171402
ersal Reload box for use with TOWERPACKS.	D1000/D1200 Empty Racks	2	F171502
y Box for use with RELOAD Pack and BLISTER REFILL.	D5000 Empty Rack	1	F161360
ty Rack for use with ECOPACK and EASYPACK loose tips.	D10mL Empty Rack	1	F161220

EMPTY RELOAD RACKS/BOXES

BLISTER REFILL FOR PIPETMAX®-CERTIFIED 384-WELL

	Door	ription	Volume Range	Tip Length	Qtv/Pack	Autoclavable Tips	Sterilized Tips
	Desc	inption	Volume Range	TIP Length	Qty/Pack	Part Number	Part Number
REFILL		DSL10 BLISTER REFILL 384-Certified	0.1-20 μL	45 mm	960	F172210	F172211
		DS200 BLISTER REFILL 384-Certified	2-200 μL	51 mm	960	F172310	F172311
BLISTER		DS1000 BLISTER REFILL 384-Certified	100-1000 μL	66 mm	960	F172510	F172511
PACK		DSFL10ST BLISTER REFILL 384-Certified	0.1-10 μL	45 mm	960	-	F172213
FILTER P		DSF30ST BLISTER REFILL 384-Certified	2-30 μL	51 mm	960	-	F172313
BLISTER FI		DSF200ST BLISTER REFILL 384-Certified	20-200 μL	51 mm	960	-	F172513
BLIS		DSF1000ST BLISTER REFILL 384-Certified	100-1000 μL	66 mm	960	-	F172613

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LIQUID HANDLING

4 microman®

ERGONOMIC PIPETTING FOR NON-AQUEOUS LIQUIDS

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

RELIABLE RESULTS EVEN WITH NON-AQUEOUS LIQUIDS

MICROMAN E positive-displacement pipettes, along with disposable capillary piston tips (CP) provide the highest precision when pipetting viscous or volatile liquids such as oils, blood, glycerol, and more.



Switch

OVERALL PROTECTION

Minimize the potential for pipette, sample, and human contamination. MICROMAN E provides safety by reducing aerosol formation and cross contamination when pipetting aggressive fluids like acids, alkalis, solvents, or hazardous samples such as infectious solutions or radiolabeled components.

DESIGNED WITH COMFORT IN MIND

The Red Dot award-winning design of the MICROMAN E features an improved handle shape that rests comfortably in your hand.

				Maximum Permissible Errors				
Model	Part Number	Capillary Piston	Volume (µL)	Gi	lson	ISO 8655		
				Systematic error (µL)	Random error (µL)	Systematic error (µL)	Random erro (µL)	
MIOE	FD10001	CP10 CP10ST	1 5 10	± 0.09 ± 0.10 ± 0.15	≤ 0.03 ≤ 0.03 ≤ 0.06	± 0.2 ± 0.2 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.1	
M25E	FD10002	CP25 CP25ST	3 10 25	± 0.25 ± 0.27 ± 0.30	≤ 0.08 ≤ 0.08 ≤ 0.10	± 0.7 ± 0.7 ± 0.7	≤ 0.3 ≤ 0.3 ≤ 0.3	
M50E	FD10003	CP50 CP50ST	20 50	± 0.34 ± 0.70	≤ 0.20 ≤ 0.30	± 0.7 ± 0.7	≤ 0.3 ≤ 0.3	
M100E	FD10004	CP100 CP100ST	10 50 100	± 0.50 ± 0.75 ± 1.00	≤ 0.20 ≤ 0.30 ≤ 0.40	±1.5 ±1.5 ±1.5	≤ 0.6 ≤ 0.6 ≤ 0.6	
M250E	FD10005	CP250 CP250ST	50 100 250	± 1.50 ± 1.70 ± 2.50	≤ 0.30 ≤ 0.30 ≤ 0.50	± 6 ± 6 ± 6	≤ 2.0 ≤ 2.0 ≤ 2.0	
M1000E	FD10006	CP1000 CP1000ST	100 500 1000	± 3.0 ± 5.0 ± 8.0	≤ 1.6 ≤ 2.5 ≤ 4.0	± 12 ± 12 ± 12	≤ 4.0 ≤ 4.0 ≤ 4.0	

MICROMANE

CAPILLARY PISTONS

Capill

CP10

CP25

CP50

CP100

CP250

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.

- Dye-free—no risk of chemical contamination.
- Slender profile—fits most tubes.

M1000E

CAPILLARY PISTONS			STERILIZED CAPILLARY PISTONS						
ary Piston	MICROMAN E Model	Part Number	Qty/Box		Capillary Piston	M	1ICROMAN E Model	Part Number	Qty/Bo
		F148412	192		CDIOCT		105	F148413	192
	M10E	F148312	960	1	CP10ST	M	110E	F148313	960
	MOLE	F148112	200		CP25ST	M	125E	F148712	576
	M25E	F148012	960		CP50ST	M	150E	F148713	576
	4505	F148113	200	1	CDIOOCT		1005	F148415	192
	M50E	F148013	960	1	CP100ST	M100E		F148315	960
	MIOOF	F148414	192		CP250ST	M	1250E	F148714	576
	M100E		960		CP1000ST	M	11000E	F148180	182
	1405.05	F148114	200	1					
)	M250E	F148014	960	1					
				-					



F148560

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repetman®

THE MOTORIZED REPETITIVE DISPENSING SOLUTION

The REPETMAN[®] electronic, positive-displacement pipette provides fast and convenient repetitive transfers. The REPETMAN features three operational modes that cover transfer volumes from 1 μ L to 50 mL. It is well suited for routine applications in the clinical, biological, food and beverage, chemistry, environmental, and other fields.

COMFORTABLE PIPETTING WITH NO FORCE REQUIRED

It fits naturally in either hand and increases operator comfort.

IMPROVES RESULTS REDUCING OPERATOR ERROR

Motorized pipette with automatic recognition of the associated REPET-TIPS. REPETMAN is a positive-displacement pipette with a large choice of REPET-TIPS consumables - standard or sterile from 0.1 mL to 50 mL, covering a wide range of dispensed volumes: from 1 μ L to 50 mL.

REPETMAN						
Description	Part Number					
REPETMAN, EU plug	F164501					
REPETMAN, US plug	F164502					
REPETMAN, UK plug	F164503					
REPETMAN, Australian plug (230V/50Hz)	F164504					
NiMH battery pack	F164595					

			REPET-TIPS		
REPET-TIPS	Non-Sterile	Sterile*	REPET-TIPS	Non-Sterile	Sterile*
REPET-TIPS (0.1 mL)	F164510	F164515	REPET-TIPS (10.0 mL)	F164557	F164558
REPET-TIPS (0.5 mL)	F164520	F164525	REPET-TIPS (12.5 mL)	F164560	F164565
REPET-TIPS (1.0 mL)	F164527	F164528	REPET-TIPS (25 mL, box of 50)**	F164570	-
REPET-TIPS (1.25 mL)	F164530	F164535	REPET-TIPS (25 mL, box of 25)**	-	F164575
REPET-TIPS (2.5 mL)	F164540	F164545	REPET-TIPS (50 mL)**	F164580	F164585
REPET-TIPS (5.0 mL)	F164550	F164555	Adapter for 25/50 mL Repet-Tip (set of 10)	F164591	-
* Sterile / Endotoxin-free (less than 0.01 ** One autoclavable adapter is provided			Adapter for 25/50 mL Repet-Tip (set of 5)	-	F164592

REPETMAN is not available in the United States.

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.

Optimal pipetting results even with volatile or viscous liquids.

SAVE MONEY

DISTRIMAN covers a large volume range with only three DISTRITIPS syringes very economical and available in standard or sterilized form (boxes of 50).

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

DISTRIMAN®			
escription	Part Number		
PISTRIMAN (1 μL to 1.25 mL)	F164001		

DISTRITIPS							
					Maximum Peri	missible Errors	
DISTRITIPS	Aliquot	Part	Volume	Gil	son	ISO	8655
(Pack of 50)	Range	Number	(μL)	Systematic Error (µL)	Random Error (µL)	Systematic Error (µL)	Random Error (µL)
125 μL Micro Micro ST*	1-12.5 μL	F164100 F164130	2 5 10	± 0.100 ± 0.125 ± 0.200	≤ 0.080 ≤ 0.075 ≤ 0.100	± 0.2 ± 0.2 ± 0.2	≤ 0.1 ≤ 0.1 ≤ 0.1
1250 μL Mini Mini ST*	10-125 μL	F164110 F164140	20 50 100	± 0.80 ± 1.00 ± 1.00	≤ 0.20 ≤ 0.40 ≤ 0.60	± 1.5 ± 1.5 ± 1.5	≤ 0.6 ≤ 0.6 ≤ 0.6
12.5 mL Maxi Maxi ST*	0.1-1.25 mL	F164120 F164150	200 500 1000	± 6.0 ± 7.5 ± 10.0	≤1.0 ≤1.5 ≤2.5	± 12.0 ± 12.0 ± 12.0	≤ 4.0 ≤ 4.0 ≤ 4.0

*ST means sterilized syringes (individually wrapped)



125. DDBaters

GILSON



macroman®

serological PIPETTES

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

MACROMAN[®] is a reliable pipette controller for glass and plastic pipettes from 1 to 100 mL.

OPTIMAL SPEED CONTROL

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 and the aspiration and dispensing speed setting.

COMFORTABLE USE

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

The Lithium-Ion battery enables a longer, vibration-free use with reduced charging t

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

Description

Wall mount

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



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for	ociclet		MACROMAN	
ng.	Ebote	Description	Volume Range	Part Num
	2111	MACROMAN	0.1 to 100 mL	F110120
time.				

MACROMAN						
scription	Volume Range	Part Number				
CROMAN	0.1 to 100 mL	F110120				

macroman

MACROMAN ACCESSORIES Part Number Description Part Number F107200 F107207 Charging desk stand Filter 0.45 um sterile (set of 10) F107201 Power supply F107203 F107202 F107208 Magnetic wall mount _ithium-Ion battery E107204 F107209 Filter, 0.22 µm, standard (set of 10) Nosepiece E107205 E107210 Filter, 0.22 um, sterile (set of 10) Adjustable side stand F107211 Filter, 0.45 µm, standard (set of 10) F107206 Pinette adanto

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 cellculture, 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.

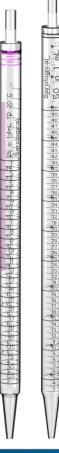
The polyester fiber plug, offering a high level of protection against over-pipetting and contamination by liquids and aerosols.

EASY VOLUME CONTROL

These serological pipettes offer precise volume control and have color-coded rings for easy size identification, 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.



Description	Qty/Case	Part Number	Volume	Ri		
Serological Pipettes - Sterile Bags						
40 sterile bags of 25 units	1000	F110121	1 mL	•		
40 sterile bags of 25 units	1000	F110123	2 mL			
	500	F110125	5 mL			
20 sterile bags of 25 units	500	F110127	10 mL			
10 sterile bags of 20 units	200	F110129	25 mL			
Serological Pipettes - Steri	le Individually	Wrapped				
10 bags of 100 sterile,	1000	F110122	1 mL	•		
individually wrapped units	1000	F110124	2 mL			
	200	F110126	5 mL			
4 bags of 50 sterile, individually wrapped units	200	F110128	10 mL			
	200	F110130	25 mL			
	100	F110131	50 mL	-		



4 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.

ISP	ENSM	1AN
131	LINDI	

				Maximum Permissible Errors				
Model	Part Number	Volume Range	Scaling (mL)		Gilson		O 8655	
				Systematic Error (mL)	Random Error (mL)	Systematic Error (mL)	Random Error (mL)	
DISPENSMAN 2.5 mL	F110101	0.25-2.5 mL	0.05	± 0.012	≤ 0.002	± 0.030	≤ 0.010	
DISPENSMAN 5.0 mL	F110102	0.5-5 mL	0.10	± 0.030	≤ 0.005	± 0.030	≤ 0.010	
DISPENSMAN 10 mL	F110103	1–10 mL	0.20	± 0.060	≤ 0.010	± 0.060	≤ 0.020	
DISPENSMAN 25 mL	F110104	2.5-25 mL	0.50	± 0.150	≤ 0.025	± 0.150	≤ 0.050	
DISPENSMAN 50 mL	F110105	5-50 mL	1.00	± 0.300	≤ 0.050	± 0.300	≤ 0.100	

trackman®

GUIDING YOU TO SUCCESS!

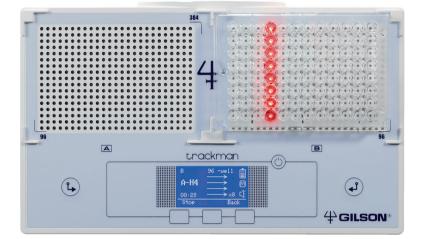
Get on track, keep on track, as you pipette flawlessly from one microplate to another with the help of TRACKMAN[®].

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				









IMPROVED TEMPERATURE STABILITY KEEPS SAMPLES SAFE

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

INTUITIVE USE

The CENTRY 117 Microcentrifuge has a full-color, touchscreen control that displays speed (rpm or rcf), set time, and remaining run time. Easily program and store up to nine custom run programs, which are simply accessed through a single button. The CENTRY 117 Microcentrifuge achieves speeds from 1,000 to 13,500 rpm (100 to 16,800 x g), which can be set in 100 rpm increments. The built-in timer lets you set any time from 1 to 99 minutes.

IMPROVED TEMPERATURE ACCURACY

The CENTRY 117 Microcentrifuge offers improved temperature controls, guaranteeing that your samples remain at constant temperature, even during longer runs. The centrifuge can also be used in a cold room.

ADAPTABLE DESIGN

With its combination rotor design, the CENTRY 117 Microcentrifuge can accommodate up to 24 1.5–2.0-mL tubes or two PCR strips (16 x 0.2 mL) without needing separate adapters, making this ideal for many labs. In addition, its compact footprint takes up less of your precious benchtop.



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					

NO MORE SPILLS WITH SPECIAL ROTOR DESIGN

The CENTRY[™] 101 Plate Centrifuge prevents microplate contents from spilling, increasing the reliability of your microplate reactions. The centrifuge accepts most popular PCR plates and microplates.

DECREASED SPILL RISK

The CENTRY 101 Plate Centrifuge offers a patented swing-out rotor design that keeps the microplate contents from spilling out while concentrating all reaction components in the well bottom, improving the accuracy of your reactions, such as sensitive PCR reactions. The rotor carriers rest at a 75° angle, allowing you to insert plates without sealing tape or caps. At speed, the microplates run vertically. The two-plate capacity CENTRY 101 Plate Centrifuge accommodates most PCR and microplates.

SMALL, BUT FAST

Samples are spun down in less than 20 seconds at 2,550 rpm (600 x g). The centrifuge automatically stops when the lid is open and smoothly decelerates to a stop in four seconds. With a small footprint (23 x 26 cm, 9.2 x 10.2 in.), the CENTRY 101 Plate Centrifuge 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



digital dry bath

digital hotplate

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. The aluminum blocks concisely fit tubes from 0.5 mL to 50 mL. Three models are available that accommodate one, two, or four blocks.

ACCURATE TEMPERATURE DELIVERY

The Dry Bath Series offers convenient digital temperature and time controls with built-in calibration functionality, improving the reliability and reproducibility of your reactions without external thermometers or timers. The Dry Bath Series provides a temperature range of +5°C to 150°C that is adjustable in 0.1°C increments. The timer can be set for up to 999 minutes.

UNIFORM TEMPERATURE ACROSS ALL SAMPLES

The Dry Bath Series accommodates a wide variety of high-grade aluminum blocks that are precisely engineered to the shape of 0.5, 1.5, 2.0, 15, and 50 mL tubes, providing uniform temperature delivery to all your samples and



improving reliability across reactions. Blocks are sold separately; custom blocks are available upon request. Each dry bath is supplied with an insulated block lifter to remove hot blocks.

DIGITAL DRY BATH SERIES					
One-Block Digital Dry Bat	h	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

PRECISE SPEED AND TEMPERATURE MIXING

Using advanced microprocessing technology, the Digital Hotplate Stirrer quickly delivers precise speed and temperature adjustments, up to 1,500 rpm and 380°C, respectively.

RELIABLE TEMPERATURE AND SPEED

The Digital Hotplate Stirrer relies on improved microprocessors to control temperature and speed, quickly and precisely. Temperature and speed are easily monitored on the large LCD display. A safety light indicates when the plate is above 50°C. The hotplate has a temperature range of 5°C-380°C and the magnetic stirrer speed ranges from 200 to 1,500 rpm.



For more stringent

applications, an optional temperature probe is available that transmits the actual sample temperature in real time to the microprocessor for continual adjustment within +/-0.5°C. An optional support rod for external thermometers or probes is also available.

VERSATILE SIZING

With a compact footprint 17.75 x 26.5 x 10 cm (7 x 10.5 x 4 in.), the Hotplate Stirrer fits easily onto the most crowded benchtop. The chemical-resistant, white ceramic top (16.5 cm/6.5 in. square) handles a range of popular glass flask and beaker sizes.

DIGITAL HOTPLATE STIRRER			ACCESSORIES		
Description	Part Number		Description	Part Number	
Digital Hotplate Stirrer, 115V, US Plug	36110600		Optional Temperature Probe	36110640	
Digital Hotplate Stirrer, 230V, EU Plug	36110610		Optional Rod for Hotplate/Stirrer	36110650	
Digital Hotplate Stirrer, 230V, UK Plug	36110620		Clamp set, includes rods and clamps	36110660	

35



mini vortex

SELF-CONTAINED TEMPERATURE CONTROLS IMPROVE INCUBATION ACCURACY

With built-in digital temperature control, the Digital Mini Incubator allows you to accurately set the internal temperature without an external thermometer. Two models are available for heating only or heating and cooling, both with small footprints that accommodate large flasks.

ACCURATE

The Mini Incubator uses digital temperature controls to set and monitor the internal chamber temperature with improved accuracy over external thermometers and analog controls. The large LED panel displays the internal temperature for quick review.

VERSATILE

The Mini Incubator accommodates 2 L flasks in a small footprint that saves benchtop space. It includes two removable shelves and has a built-in internal universal outlet for connecting other instruments such as small shakers.

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 in.	36117380	



SMALL SIZE, POWERFUL MIXING

With touch-activated operation, the Mini Vortex Mixer provides powerful mixing in a small footprint for tubes up to 50 mL.

SMALL SIZE, POWERFUL MIXING

The Mini Vortex Mixer delivers a fixed speed of 2,800 rpm by only applying slight pressure to the center of the spill-resistant vortex head. Remove the pressure and the vortex motor immediately stops. The entire operation is quiet and smooth and contained in a small 10 x 10 cm (4 x 4 in.) footprint.



MINI VORTEX MIXER			
Specifications			
Description			
Fixed, 2800 rpm			
TOUCH mix			
Rubber cup for single tube mixing			
4 mm			
4°C to 65°C			
9.4 x 9.9 x 6.6 cm / 3.7 x 3.9 x 2.6 in.			
0.4 kg / 1 lb.			
Universal, 100V-240V, 50-60 Hz			

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			

Ordering Information





roto-mini PLUS

MAXIMIZE MIXING, MINIMIZE NOISE AND VIBRATION

With a unique balance system, our powerful Vortex Mixer offers instant vortex mixing without the noise and vibration. The mixer features both touch and continuous operation, variable speeds, and can be used in a range of temperature environments.

MAXIMIZE MIXING, MINIMIZE NOISE

The Vortex Mixer relies on a novel counter-balance system that provides powerful mixing action with decreased noise and vibration over other mixing instruments, even for 50 mL tubes. With its suction feet, the Vortex Mixer remains stable on your bench.

The Vortex Mixer offers instant variable speed control from 200 to 3,200 rpm and can be used in touch or continuous operating modes.

VERSATILE

The Vortex Mixer operates in a wide range of temperatures (+4°C to 65°C) and features spill-proof electronic controls. Several optional heads featuring both flat and multi-tube configurations are also available.

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



Part Number

36110740

36110750

36110760

LIQUID HANDLING

FLEXIBLE VARIABLE SPEED ROTATOR FOR A RANGE OF APPLICATIONS

With speeds from 5 to 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 mL to 50 mL, making it a flexible addition to any lab.

FLEXIBLE OPERATIONAL MODES

With speeds from 5 to 70 rpm, the Roto-Mini Plus variable speed rotator provides three different mixing modes to cover many applications, including:

- Mix samples rotate with oscillations for increased mixing
- Pause sample rotation includes periodic pauses
- Rock samples gently rock in a see-saw manner.

ADAPT TO MANY TUBE STYLES

The Roto-Mini Plus includes four holders that cover the following common tube sizes:

- 11 x 1.5/2.0 mL tubes
- 5 x 5/7 mL tubes
- 5 x 10/15 mL tubes
- 6 x 50 mL tubes/24 x 0.5 mL tubes

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		





PURIFICATION

Get the accuracy and precision you need for trusted results with VERITY® purification systems. Whether you isolate large or small molecules or need milligram to kilogram purifications, our VERITY systems offer you a wide array of components to build the perfect system to meet your specific needs. All systems are easily controlled by intuitive software, letting you focus on the science. Backed by Gilson's long history in chromatography, you are reassured that VERITY solutions are built to last and will make your life in the lab easier.

venity® COMPACT CPC SYSTEM

The VERITY[®] Compact CPC System combines a PLC Purification System with a centrifugal partition chromatography (CPC) column for high-level target compound purification. The technique of CPC and PLC supported on a single platform provides scientists the possibility to perform flash chromatography, preparative HPLC, or CPC separations on the same purification system configuration.

PURIFICATION SYSTEM SELECTION GUIDE





IDEAL FOR NATURAL PRODUCT PURIFICATION

Based on liquid-liquid purification technique, CPC does not denature fragile molecules. CPC columns tackle tough separations of complex samples in a single step without prior purification, making it an ideal choice for natural product isolation. It achieves 95% recoveries with greater than 99% purity.

EFFICIENT AND STREAMLINED WORKFLOW

The reusable, silica-free columns offer high injection capacities of milligrams to kilograms. Cost-effective and reusable CPC columns use approximately five times less solvent than more traditional columns and eliminates column replacement and silica recycling costs.

EASY TO USE

This fully automated system with dedicated Glider CPC Software offers flexible reporting capabilities and an intuitive touchscreen interface that enables easy method writing and modifying of parameters. The system and the software can be adapted to customer needs with the additional detectors or activation of the 21CFR compliance option.

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

SHOP ONLINE WWW.GILSON.COM





PURIFICATION WITH MS

Save valuable time by confirming the molecular weight of the contents of every collected fraction during the purification process, which eliminates the need for subsequent analytical verification. The VERITY® 1910 MS Detector is a unique, chip-based mass detector that can be integrated into purification systems for HPLC, flash chromatography, or CPC.

PURIFICATION WITH MS SYSTEM SELECTION GUIDE





The VERITY[®] 281 LCMS System is a large capacity, high throughput preparative liquid chromatography (LC) system, that combines the separation power of HPLC with the detection power of a mass spectrometry (MS) detector. This reliable systems enables mass-directed purification.



HIGHLY MODULAR SYSTEM

VERITY 281 LCMS System offers modular components

for increased flexibility. The system configuration includes a GX-281 Liquid Handler for injection and fraction collection, Gilson pumping system, Gilson detectors with VERITY® 1910 MS Detector and powerful Gilson TRILUTION® LC Software.

OBTAIN RESULTS FASTER

By moving to mass spec detection using the VERITY 1910 MS Detector, reach your results faster thanks to more targeted fraction collection, quicker cleaning, and no need for subsequent analysis.

EASY TO MAINTAIN

The VERITY 1910 MS Detector has miniaturized, interchangeable components that are easier to maintain, lowering its operational costs when compared to traditional single quadrupole detectors. The compact, stackable design fits into most fume hoods and produces less heat and noise than conventional MS detectors.

Request a quote today at <u>www.gilson.com</u> or from your local Gilson representative.

PURIFICATION WITH MS





EXTRACTION

GET THE MOST FROM YOUR ANALYTICAL SYSTEMS WITH TRUSTED RESULTS

Solid phase extraction (SPE) is a highly selective cleanup technique that eliminates matrix effects and concentrates compounds present as traces to improve analytical detection. The ASPEC extraction line offers hands-free solutions that provides increased sample throughput and reliable test results while providing the traceability needed when studying metabolites, drugs, 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 UPLC or LC integration Compatible with Gel Permeation Chromatography (GPC) and liquid-liquid extraction (LLE) 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 cleanup
ASPEC* 271 LARGE VOLUME ASPEC* 274 SYSTEM SYSTEM	 Ultimate versatility system for basic and advanced small- to large-volume SPE automation Up to 16 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



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 unique sealing cap design increases reproducibility from sample to sample. The syringe pump delivers accurate volume dispensing.

SMART DESIGN FOR MAXIMIZED PERFORMANCE

Mobile rack technology enables multiple fraction elution and extraction per sample and additional sample transfer 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 liquidliquid 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.

Request a quote today at <u>www.gilson.com</u> or from your local Gilson representative.

SHOP ONLINE WWW.GILSON.COM

EXTRACTION



CONSISTENT PERFORMANCE, RELIABLE RESULTS

Get more reliable results with ASPEC® SPE Cartridges. These ready-to-use, highquality silica and polymer cartridges come in a variety of industry-standard phases and are available in 1, 3, and 6 mL cartridges, or 96-well plates. The ASPEC SPE Cartridges are available with ASPEC caps for cost-effective, automationready use on ASPEC automated solutions.

LOT-TO-LOT REPRODUCIBILITY

Reproducible extraction

TIGHT PARTICLE SIZE DISTRIBUTION

- Higher recoveries due to less risk of channeling
- Tighter peaks resulting in concentrated eluates

LARGE SURFACE AREA

- Large loading capacity
- Faster extractions with less sorbent mass, leading to less solvent volume

PRE-CAPPED CARTRIDGES AVAILABLE 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
- Custom phase pre-capped ASPEC cartridges available upon request
- Competitively priced versus uncapped cartridges with the need to purchase caps



RETENTION MECHANISMS SELECTION

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

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

*Polymeric





extractman®

IMPROVE MANUAL SPE REPRODUCIBILITY

With uniform and consistent flow rate, the ASPEC® Positive Pressure Manifold improves solid phase extraction (SPE) reproducibility and recovery, even with high viscosity samples. It integrates easily into lab workflows, and provides a fast and simple way to prepare samples for subsequent analysis by chromatography. Compatible with both popular SPE cartridges and 96-well plates, you'll get flexibility and be able to perform parallel extractions to increase your throughput and productivity. Combine with Gilson repetitive pipettes for accurate volume dispensing.

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.

FLEXIBILITY FOR A VARIETY OF APPLICATIONS

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

Request a quote today at <u>www.gilson.com</u> or from your local Gilson representative.

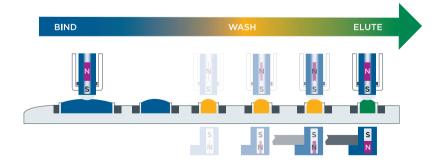


Co-immunoprecipitation (Co-IP) is a common technique for observing protein-protein interactions; however, weakly-or transiently-bound species often go undetected as aggressive or repeated wash steps in the Co-IP process can result in a loss of these interactions. EXTRACTMAN® allows for rapid, yet gentle washing of protein solutions during Co-IP thus isolating more transiently-bound, protein-protein interactions.



RAPID ISOLATION

Exclusion-based Sample Preparation (ESP[™]) technology enables high yield, high purity isolations without the need for long washing steps.



ERGONOMIC AND EASY-TO-USE

Slide-based extraction gently moves four samples in parallel through isolation with a simple slide of the handle.

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



EXT

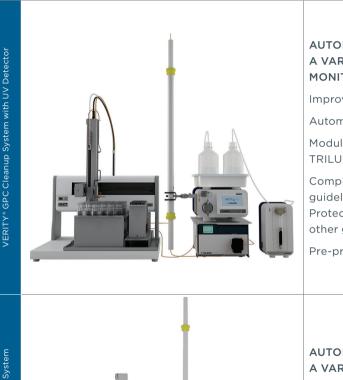
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4

GEL PERMEATION CHROMATOGRAPHY (GPC)

The VERITY[®] GPC Cleanup System is an ideal solution for post-extraction cleanup of high-molecular weight interfering substances from environmental samples, food products, and animal tissue prior to analysis using gel permeation chromatography (GPC). Removal of these contaminants leads to more reliable results, fewer sample repeats, and less downtime for downstream chromatography instruments.

GPC SYSTEM SELECTION GUIDE





AUTOMATED GPC CLEANUP FOR A VARIETY OF SUBSTANCES, MONITORED BY UV DETECTION

Improve column life and decrease downtime

Automated cleanup of up to 80 sample extracts

Modular system all under TRILUTION® LC Software control

Comply with GPC post-extraction guidelines set by the US Environmental Protection Agency (US EPA) and with other governments requirements

Pre-programmed GPC methods included

AUTOMATED GPC CLEANUP FOR A VARIETY OF SUBSTANCES

Improve column life and decrease downtime

Automated cleanup of up to 80 sample extracts

Modular system all under TRILUTION® LC Software control

Pre-programmed GPC methods included

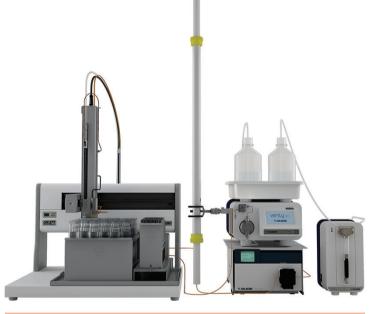
VERITY[®] GPC CLEANUP SYSTEM

REMOVE ANALYTICAL INTERFERENCES WHILE IMPROVING METHOD EFFICIENCY AND REPRODUCIBILITY

The VERITY[®] GPC Cleanup System uses gel permeation chromatography (GPC) to remove contaminants from your sample matrices prior to analysis, producing more reliable results, fewer sample repeats, and less system downtime.

GPC CLEANUP FOR A VARIETY OF SUBSTANCES

The automated VERITY[®] GPC Cleanup System provides a post-extraction purification solution that removes matrix interferences prior to GC, GC/MS, HPLC, or LC/MS, extending the life of chromatography columns, protecting chromatography instruments, improving analytical accuracy, and lowering detection limits. The VERITY GPC System automates cleanup of up to 80 sample extracts and can collect multiple fractions from the same extract, all with reduced sample carryover. The system meets U.S., Canadian, and European Union requirements for GPC cleanup.



The VERITY® GPC Cleanup System is configured with a GX-271 Liquid Handler, GX Direct Injection Module, VERITY® 4020 Single Syringe Pump, VERITY® 3011 Isocratic Pump, TRILUTION® LC Software and an optional 157 UV-VIS Detector.

ALL UNDER TRILUTION® LC SOFTWARE CONTROL

The VERITY GPC System is controlled by the powerful TRILUTION LC software which contains preprogrammed 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.





LIQUID HANDLERS

LIQUID HANDLER

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

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

LIQUID HANDLER SELECTION GUIDE





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 $2 \,\mu\text{L}$ 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 with 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.







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

PUMP SELECTION GUIDE

VEBITY SOULSOCEATIC BLMD	VERLY JOILSOCKAIC FUMP	Vericy and Parson	IDEAL PUMPING SOLUTION FOR CHEMICAL REACTION MONITORING 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
	522 HPLC PUMP		MULTI SOLVENT PUMP FOR ANALYTICAL TO SEMI-PREPARATIVE HPLC Accommodates flow rates from 0.15 mL/min up to 30 mL/min at pressures up to 8,700 psi (600 bar) High-pressure dynamic mixer Performs a binary gradient with a single unit
331/332 HBI C BIIMBS	551/352 AFLC FUMPS		THE PUMPING CHOICE FOR SEMI-PREPARATIVE HPLC Accommodate flow rates ranging from 0.5 mL/min to 50 mL/min at pressures up to 8,700 psi (600 bar) using columns up to 30 mm ID Multi-solvent selection with an optional four-solvent valve Features a variable-volume, dynamic mixer for optimized high pressure gradient performance
223/224 HDI C DIIMPC	55% 554 HFLC FOMPS		THE PUMPING CHOICE FOR PREPARATIVE HPLC Accommodate flow rates 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 Multi-solvent selection with an optional four-solvent valve Features a variable-volume, dynamic mixer for optimized high pressure gradient performance
VERITY- 4 X20 SY RINGE 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 A pressure sensor is available in some models.

Verity[®] 4120 DUAL WITH TEE SYRINGE PUMP

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).

The VERITY 4120 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
	Type: Three port, no moving parts
	Diameter of channels: 1.5 mm
Tee	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

Part Number Description		
VEDITY* 4120 Dupl with Teo Syringe Dupp	Part Number	Description
VERTI 4/20 Dual with fee Syringe Fullip	31130002	VERITY* 4120 Dual with Tee Syringe Pump

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



PUMPS



The compact MINIPULS[®] 3 Peristaltic Pump is a high-performance, low-pulse, peristaltic pump with interchangeable pump heads for delivering a diverse variety of liquids—from biological to chemical—without altering the critical components within the liquid. Six different channel and flow rate configurations are available.

PULSE-FREE 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 $\mu L/min$ 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 an uncomplicated 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

Most suitable material according to your sample's chemical compatibility.

Large variety of internal diameters to reach desired flow rates.

Appropriate connectors and extension tubing.

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



PUMPS

MINIPULS TUBING

Tubing for MF1 and MF4 Pump Heads Length = Approximately 40 cm (16 in.)

Material	Internal Diameter (mm)	Reference Tubing (Calibrated Tubing)	Color Coo	ded Stops	Extension Tubing 3 m (118 in.)	Connectors	Maximum Flow Rate (mL/min)
	0.25	F117932	•		F117952	F117985	0.574
	0.38	F117933	•		F117953	F117986	1.22
	0.51	F117934	•	•	F117954	F117986	1.90
	0.76	F117936			F117956	F117987	3.00
	1.02	F117938	0	0	F117958	F1179941	6.0
PVC	1.30	F117940	0	0	F117960	F1179941	9.0
đ	1.52	F117942	•		F117962	F1179941	14
	1.65	F117943			F117963	F1179941	16
	2.06	F117945			F117965	F1179941	25
	2.29	F117946			F117966	F1179941	29
	2.79	F117948		0	F117968	F1179951	39
	3.18	F117949		0	F117969	F1179951	47
ي ب	0.5	F1817741	•	•	F117740	F117986	2.9
lso-Versinic® or Viton®	1.0	F1817743			F117742	F1179941	10
Versinic Viton®	2.0	F1817745			F117744	F1179941	24
- 03 - 03	3.0	F117747			F117746	F1179951	55
<u> </u>	4	F117749		•	F117748	-	70
	0.64	F1825111	•	0	F1825131	F117987	3.2
Silicone	1.02	F1825112	0	0	F1825132	F1179941	7
Silic	2.06	F1825113			F1825133	F1179951	21
	2.79	F1825114		0	F117975	F1179951	31
ĕd®	0.51	F1825101	•	•	F1825121	F117986	2.5
Santoprene™ or PharMed®	1.02	F1825102	0	0	F1825122	F1179941	7
Sar	2.06	F1825103	•	•	F1825123	F1179941	24

Material	Internal Diameter (mm)	Reference Tubing (Calibrated Tubing)	Maximum Flow Rate (mL/min)
	2.06	F117965	33
	2.29	F117966	41
	2.79	F117968	66
PVC	3.16	F117969	85
à	4.0	F117970	128
	5.0	F117980	179
	6.0	F117981	218
	8.0	F117982	340
	2.0	F117744	30
'sinic ton®	3.0	F117746	67
so-Versinic [®] or Viton®	4.0	F117748	120
<u>s</u>	6.0	F117750	246
	2.0	F1825133	31
	3.0	F117975	57
ilicone	4.0	F117976	105
Silic	5.0	F117977	148
	6.0	F117978	207
	7.0	F117979	300
ed®	2.0	F1825123	31
Santoprene™ or PharMed®	3.2	F1825124	77
Sar	6.4	F1825125	240

Tubing for HF2 Pump Head

Length = 3 m (118 in

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

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Verity® 1910 Ms detector

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

DETECTOR SELECTION GUIDE

to	157 UV/VIS SINGLE WAVELENGTH DETECTOR Highly flexible and compact design Offers a single, but variable wavelength range of 190-750 nm Wide range of flow cells available from analytical and preparative HPLC to pilot-scale	
157 UV-VIS Detector 159 UV-VIS Detector		159 UV/VIS MULTIPLE WAVELENGTH DETECTOR Monitors up to four different wavelengths simultaneously while acquiring spectral data from 190–750 nm, allowing you to more easily track impurities Best-in-its-class value for noise, drift, and linearity achieved through smart optical bench technology and the use of optimized components Wide range of flow cells available from analytical and preparative HPLC to pilot-scale
171 Diode Array Detector 172 Diode Array Detector	and the second s	Delivers accurate UV/VIS and spectrum data with up to seven specific wavelengths simultaneously Flexible fiber optic light paths Interchangeable flow cell design
prepEL S [™] Detector		Expand detection capabilities for preparative or analytical HPLC applications Precise control of the spray chamber and drift tube temperature Revolutionary filtering capabilities allow for effective baseline noise reduction without affecting peak height or shape Easy to use and low maintenance
VERITY 1810 Conductivity and pH Monitor	Control of	State-of-the-art detection instrument for biological purifications Compact instrument with an integrated conductivity sensor and an external optional pH sensor Integrates into any Gilson VERITY® System
VERITY* 1910 MS Detector		Chip-based, single quadrupole mass spectrometry detector Provides a mass-directed purification solution Mass range detection capabilities from 50 to 1400 <i>m/z</i> Integrate with the PLC Purification System for HPLC, flash chromatography, or CPC or with the VERITY HPLC systems

The VERITY[®] 1910 MS Detector provides a complete, compact, and fully packaged solution for mass spectrometry (MS) purification. The VERITY 1910 MS Detector offers a mass range of 50–1400 m/z with the ability to collect full scan signals and up to four selected ion monitoring (SIM) channels simultaneously. The chip-based technology removes the routine maintenance and operation costs of a traditional MS detector and meets the high demands of purification applications. The MiDasTM module features a make-up pump and MRA splitter to deliver consistent flow to the VERITY 1910 MS Detector and allows for split ratios from 1:100 to 1:100,000 for purifying large amounts of compound, based on a target mass signal.

VERITY* 1910 MS DETECTOR		
Technical Specification	Definition	
Communication	Ethernet	
Detector	Electron multiplier detector	
Dynamic Range	Three orders of magnitude	
Flow Rate Range	0.3-2000 μL/min	
Interface	Off-axis vac-chip™ microengineered atmospheric pressure interface	
Ionization Modes	Positive and negative ESI modes	
Ion Source	Spraychip® electrospray ionization source	
Mass Analyzer	ionchip* quadrupole mass filter	
Mass Range	<i>m/z</i> 50-1400 with ionchip 150	
Pumping System	Integrated oil-free pumps	
Sample Inlet	Compatible with standard capillaries and unions e.g., 1/32" tubing	
Scan Modes	Full scan, SIM (4 <i>m/z</i> channels), simultaneous scan/SIM, and timed SIM	
Scan Rate	<i>m/z</i> 1,500/s (7,500 pts/s)	
Sensitivity	10 pg of reserpine yields a peak in SIM mode with a S/N ratio of 10:1 (RMS)	
Software Control	PC control via Ethernet and TRILUTION® LC Software Control via Ethernet and Gilson Glider Prep Software (GGP) and Masscape® Software Software	
Weight	32 kg (70.5 lbs.)	



Integrate with the PLC Purification System for HPLC, flash chromatography, or CPC or with the VERITY HPLC systems.

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

DETECTORS



FRACTION COLLECTORS

SOFTWARE

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 or control the system through your PC with TRILUTION® LC Software.

FRACTION COLLECTOR SELECTION GUIDE



The compact, lower capacity FC 203B Fraction Collector collects samples based on time, drop, or peak, making it the preferred choice for a range of LC applications. The collector accommodates a wide variety of collection vessels, including microplates, vials, and tubes and can be used with any HPLC system.

VERSATILE COLLECTION OPTIONS

Choose among peak, drop, or time collection options with the FC 203B. For example, in peak mode, the FC 203B monitors a detector signal and identifies peaks using either an adaptive-slope algorithm or a specified millivolt threshold. With up to ten programmable time windows to use, collect only what you want and discard the column void volume, peaks of no interest, and equilibration volumes. Multicolumn adapters are available for collecting up to 18 separate channels and an optional 3-way diverter valve prevents contamination of collected fractions.



The FC 204 Fraction Collector is a large-bed fraction collector capable of handling test tubes, vials, and up to eight shallow or deep well microplates. Fractions can be collected by drop, peak, or time, and the collector can be used with any HPLC system.

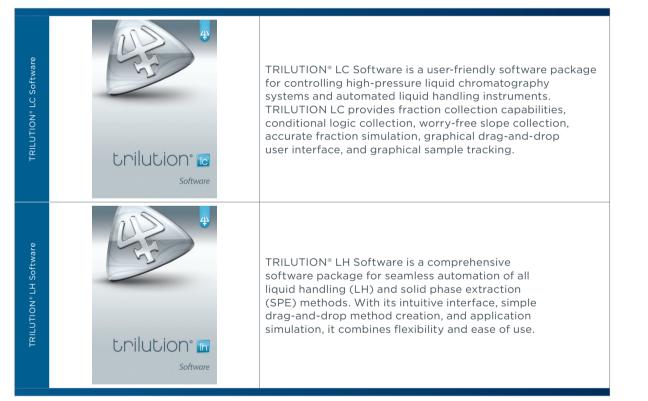
ADAPTABLE TO MANY COLLECTION STRATEGIES

Collect samples by peak, drop, or time. When collecting using drop counting, up to 9,999 drops may be collected per fraction with a maximum drop rate of 20 drops/second. The 3-way diverter valve prevents contamination of fractions. Multicolumn adapters allow for collection from up to 18 separate channels.

SOFTWARE DESIGNED BY SCIENTISTS FOR SCIENTISTS

Gilson offers powerful software to complement robust instruments. With accommodating features, drag-and-drop functionality, and numerous supplied tasks, Gilson software packages allow effortless, complete control of instruments, allowing you to focus on the science rather than the software.

SOFTWARE SELECTION GUIDE







ACCESSORIES

OPTIMIZE YOUR INSTRUMENTATION

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

ACCESSORIES SELECTION GUIDE



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 Software



The Orbital Shaker is specifically designed to satisfy liquid handling needs for on-line or off-line vortexing and mixing. It is a fully functional, stand-alone instrument. It is a compact shaker that 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.



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.

racks

STANDARD AND CUSTOM RACKS

Gilson offers standard and custom racks to meet the needs of any and all applications. 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.



SHOP ONLINE WWW.GILSON.COM



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