

Product Guide for PFAS Analysis

A Methods-Based Reference to Lab Supplies for PFAS Testing

Selecting the Right Lab Supplies for PFAS Methods

When government agencies and other research organizations developed the first PFAS analysis methods, certain per- and polyfluoroalkyl substances (PFAS) exhibited signal loss or enhancement based on how the samples were handled. These unexpected sources of error could occur anywhere in the sample pathway from collection to analysis and could lead to inaccurate quantification and reporting. Significant troubleshooting efforts from those pioneering organizations resulted in two primary observations that guide how we test these "forever chemicals" today.

- 1. PFAS can be found everywhere—at the sampling site, in the analytical lab (even in instruments), and anywhere in between, so it is essential to prevent background sources from contaminating samples.
- 2. PFAS can be "sticky"—they can adhere to certain materials that are commonly used in sampling and analysis (e.g., glass containers or pipettes), so everything in the sample flow path has to be considered for its ability to retain PFAS.

Due to these characteristics, avoiding background contamination and preventing loss due to retention are particularly important for PFAS testing. Regardless of the method you are running, best practices dictate evaluating your system and supplies prior to sample analysis to qualify them for use. In some cases, the results may warrant equipment modification or replacement of parts to ensure suitability for the analytes and LODs you are testing. The following sampling and lab supplies are often screened prior to use:

- Sample collection vessels
- Solid phase extraction (SPE) products
- SPE vacuum manifolds
- Filtration devices
- Autosampler vials and caps
- Mobile phase filters
- Mobile phase transfer lines
- PTFE tubing and filters used in UHPLC or HPLC instruments (e.g., mobile phase degasser, LC pump components, etc.)
- Mobile phase solvents and reagents
- LC columns
- anything else in the sample flow path



Table I details the lab supplies for PFAS analysis that are used in test methods from ASTM, DIN, EPA, and ISO. When selecting the right supplies, be sure to choose method-appropriate products and evaluate your system and supplies to ensure they are free of target analytes (Table II) and qualified for PFAS analysis at the levels required by the method. Restek is proud to support PFAS testing labs with clean, high-quality lab supplies and expert technical support for the analysis of legacy, alternative, and ultrashort-chain PFAS across a wide range of global testing standards.

	U.S. EPA 537.1	U.S. EPA 533	U.S. EPA 8327	ISO 25101	ISO 21675	ASTM D7979	ASTM D7968	DIN 38407-42
Sample Matrix	Drinking Water	Drinking Water	Various Waters & Solids (Soil, Sediment, Biota)	Drinking Water, Ground Water, Surface Water	Drinking Water, Natural Water, Wastewater*	Water, Sludge, Influent, Effluent, Wastewater	Solids (e.g., soil)	Drinking Water Ground Water, Surface Water, Wastewater, Sludge
Analytical				50 x 2.1 mm , 2.7 μr				1
LC Column				50 x 2.1 mm, 1.8 μn				
		(Refer to ou	ır PFAS Column Sel	ection Guide [www.	restek.com/PFAS-L	.CC] for other colun	nn choices.)	
Delay Column				PFAS Delay Colu	mn (cat.# 27854)			
Sample Prep	Resprep S-DVB SPE (cat.# 28937)	Resprep WAX SPE (60 µm particle cat.# 28470; 30 µm particle cat.# 28291, 28292)	_	Resprep WAX SPE (60 µm particle cat.# 28469, 28470; 30 µm particle cat.# 28291, 28292)	Resprep WAX SPE (60 µm particle cat.# 28469, 28470; 30 µm particle cat.# 28291, 28292)	_	_	Resprep WAX SPE (60 µm particle cat.# 28468, 28469 28470; 30 µm particle cat.# 28291, 28292
Vials and Caps				olypropylene Vials lyethylene Vial Cap				1
Vacuum Manifold				ep QR-12, QR-24 (ca s for Resprep Quick				
Vacuum Pump				Rocker Vacu	ium Pumps			
Sample Reservoirs	Polypropylene S (cat.# 2 Polypropylen (cat.# 2	e Connectors	_	Polypropylene Sample Reservoir (cat.# 26015) Polypropylene Connectors (cat.# 26007)	_	_	_	Polypropylene Sample Reservoir (cat.# 26015) Polypropylene Connector (cat.# 26007)

Access technical resources, chromatograms, and new lab supplies for PFAS analysis at www.restek.com



Table II: PFAS Compound Lists by Method

acetic acid (NEt-FOSAA) • N-methyl perfluorooctane-sulfonamido- acetic acid (NMeFOSAA) • Perfluorobutanesulfonic acid (PFBS) • Perfluorobutanesulfonic acid (PFBS)	N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)
Perfluorododecanoic acid (PFDoA)Perfluorononanoic acid (PFNA)Perfluoroheptanoic acid (PFHxA)Perfluorooctanesulfonic acid (PFOA)Perfluorononanoic acid (PFNA)Perfluorooctanoic acid (PFOA)Perfluorooctanesulfonic acid (PFNA)Perfluoroundecanoic acid (PFUnA)Perfluorooctanoic acid (PFOA)Perfluoropulene oxide dimer acid (HFPO-DA)Perfluoroundecanoic acid (PFTA)Perfluoropentanoic acid (PFPA)Perfluoroundecanoic acid (PFTA)Perfluoropentanoic acid (PFPA)Perfluoroundecanoic acid (PFTDA)Perfluoropentanesulfonic acid (PFPA)Perfluoroundecanoic acid (PFUnA)Perfluoropentanesulfonic acid (PFPS)Perfluoropropylene oxide dimer acidPerfluoropentanesulfonic acid (PFPS)Perfluorophexadecafluoro-3-oxa- none-1-sulfonic acid (9CI-PF3ONS)Perfluorononanoic acid4,8-Dioxa-3H-perfluorononanoic acidPerfluoro.3-oxanone-1-sulfonic acid (11CI-PF3OUdS)11-Chloroeicosafluoro-3-oxaundec- ane-1-sulfonic acid (11CI-PF3OUdS)Perfluoro-3-methoxypropanoic acid (PFMPA)Perfluoro-4-methoxybutanoic acid (PFMBA)	 Perfluorobutanesulfonic acid (PFBS) Perfluorodecanoic acid (PFDA) Perfluoroheptanoic acid (PFDA) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorohexanoic acid (PFNA) Perfluorononanoic acid (PFNA) Perfluoroctanesulfonic acid (PFOS) Perfluorotetradecanoic acid (PFTeDA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic acid (PFTA) Perfluorobutanoic acid (PFTA) Perfluorobutanoic acid (PFBA) Perfluorobutanoic acid (PFDA) Perfluorobutanoic acid (PFDS) Perfluorobutanoic acid (PFDS) Perfluorobutanesulfonic acid (PFDS) Perfluorobutanesulfonic acid (PFDS) Perfluoropentanesulfonic acid (PFDS) Perfluoropentanesulfonic acid (PFDS) Perfluorobutanesulfonic acid (PFDS)

ISO 25101	ISO 21675	ASTM D7979 & D7968	DIN 38407-42
 Perfluoro-<i>n</i>-octanesulfonic acid Perfluoro-<i>n</i>-octanoic acid (pentadecafluoro-<i>n</i>- octanoic acid) 	 N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) Perfluoro-<i>n</i>-butanesulfonic acid (PFBS) Perfluoro-<i>n</i>-decanoic acid (PFDA) Perfluoro-<i>n</i>-decanoic acid (PFDDA) Perfluoro-<i>n</i>-heptanoic acid (PFHAA) Perfluoro-<i>n</i>-heptanoic acid (PFHAA) Perfluoro-<i>n</i>-hexanesulfonic acid (PFHXS) Perfluoro-<i>n</i>-hexanoic acid (PFHXA) Perfluoro-<i>n</i>-nexanoic acid (PFAA) Perfluoro-<i>n</i>-notanoic acid (PFAA) Perfluoro-<i>n</i>-octanosulfonic acid (PFOS) Perfluoro-<i>n</i>-otanoic acid (PFOA) Perfluoro-<i>n</i>-tidecanoic acid (PFTDA) Perfluoro-<i>n</i>-nudecanoic acid (PFTDA) Perfluoro-<i>n</i>-nudecanoic acid (PFTDA) Perfluoro-<i>n</i>-butanoic acid (PFBA) Perfluoro-<i>n</i>-butanoic acid (PFBA) Perfluoro-<i>n</i>-heptanosulfonic acid (PFDS) Perfluoro-<i>n</i>-heptanosulfonic acid (PFDS) Perfluoro-<i>n</i>-heptanosulfonic acid (PFDS) Perfluoro-<i>n</i>-heptanesulfonic acid (S:2 FTSA) 8:2 Fluorotelomer sulfonic acid (8:2 FTSA) 8:2 Fluorotelomer unsaturated carboxylic acid (8:2 FTUCA) 8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP) N-methyl perfluorooctanesulfonamide (N-MeFOSA) N-ethyl perfluorooctanesulfonamide (N-EtFOSA) Perfluoro-<i>n</i>-hexadecanoic acid (PFNDA) Perfluoro-<i>n</i>-hexadecan	 Perfluorobutylsulfonate (PFBS) Perfluorodecanoate (PFDA) Perfluoroheptanoate (PFDA) Perfluoroheptanoate (PFDA) Perfluorohexylsulfonate (PFHxA) Perfluorohexanoate (PFHxA) Perfluorohexanoate (PFNA) Perfluoroctylsulfonate (PFOS) Perfluoroctanoate (PFOA) Perfluorotetradecanoate (PFOA) Perfluorotetradecanoate (PFTriA) Perfluorobutanoate (PFBA) Perfluorobutanoate (PFBA) Perfluorobutanoate (PFPA) Perfluorobutanoate (PFPA) Perfluorobutanoate (PFPA) Perfluorobutanoate (PFPA) Perfluorohexyl ethanoic acid (FOUEA) Decaluoro-4-(pentafluoro-ethyl)cyclohexanesulfonate (PFecHS) 2-Perfluorohexyl ethanoic acid (FDEA) 2-Perfluoroctyl ethanoic acid (FDEA) 2-Perfluorobetyl ethanoic acid (FDEA) 2-Perfluoropheptyl propanoic acid (FDEA) 2-Perfluoro-2-octenoic acid (FDEA) 2-Perfluoropheptyl propanoic acid (FDEA) 2-Perfluoro-2-octenoic acid (FDEA) 2-Perfluorobetyl ethanoic acid (FDEA) 	 Perfluoro-<i>n</i>-butanesulfonic acid (PFBS) Perfluoro-<i>n</i>-decanoic acid (PFDA) Perfluoro-<i>n</i>-heptanoic acid (PFHpA) Perfluoro-<i>n</i>-hexanesulfonic acid (PFHxS) Perfluoro-<i>n</i>-nonanoic acid (PFNA) Perfluoro-<i>n</i>-octanesulfonic acid (PFOS) Perfluoro-<i>n</i>-octanoic acid (PFOA) Perfluoro-<i>n</i>-butanoic acid (PFBA) Perfluoro-<i>n</i>-pentanoic acid (PFPA)





Resprep S-DVB SPE Cartridge

- High-purity material with highest reproducibility and lowest blank values due to an optimized manufacturing process.
- Excellent recovery rates, especially for the enrichment of pharmaceuticals and active ingredients, due to the spherical particle shape, homogeneous surface, and optimized pore structure.
- Hydrophobic styrene-divinylbenzene (SDVB) copolymer, pH stability 1–14.
- Unique polypropylene locking ring helps prevent frit movement common to S-DVB sorbent.
- Recommended analytes: PFAS in drinking water; pharmaceuticals/active ingredients from tablets, creams, and water/wastewater; drugs from blood, plasma, serum, and urine; trace analysis of herbicides, pesticides, PAHs, PCBs; and phenols from water.
- Ideal for EPA Method 537.1 PFAS in drinking water; meets method performance requirements.

Description	Packing	Volume	qty.	cat.#
Resprep S-DVB	500 mg spherical styrene-divinylbenzene (SDVB) copolymer	6 mL	30-pk.	28937



25845



Resprep CarboPrep Plus SPE Cartridges

- Designed specifically for the cleanup of sample extracts for organochlorine pesticides analysis.
- Excellent alternative to Florisil products, especially for the removal of nonvolatile matrix components that contaminate GC inlets and columns.
- Proprietary treatment renders the carbon consistent and clean, ensuring the same selectivity tube to tube and lot to lot with no interfering background.
- Uses the same hardware, solvents, and solvent volumes as traditional Florisil cleanup, so switching is simple.

Description	Packing	Volume	qty.	cat.#
Resprep CarboPrep Plus SPE Cartridges	CarboPrep Plus	3 mL, 95 mg	30-pk.	25845

ordering notes

Certificates of analysis for this product are provided electronically. To view and download your certificate, simply visit www.restek.com/ documentation



Limited-Volume 2.0 mL, 9 mm Screw-Thread Polypropylene Vials

- Available in 1.5 mL or 700 μL volumes.
- Limited-volume design fits all 2.0 mL, 12 x 32 mm, vial-based autosamplers.
- Compatible with all 9 mm screw-thread caps.
- PTFE-free—ideal for PFAS analysis (e.g., EPA 537) and other PFAS-sensitive methods.

Description	Туре	Volume	Color	Size	qty.	Similar to Part #	cat.#
	9 mm Screw- Thread	1.5 mL	Clear	12 x 32 mm	100-pk.	Thermo Fisher Scien- tific C4000-14	23242
Limited-Volume 2.0 mL, 9 mm	9 mm Screw- Thread	1.5 mL	Clear	12 x 32 mm	1000-pk.	Thermo Fisher Scien- tific C4000-14	23245
Screw-Thread Polypropylene Vials,	9 mm Screw- Thread	700 µL	Clear	12 x 32 mm	100-pk.	tific C4000-14 Waters 186005230	23243
	9 mm Screw- Thread	700 µL	Clear	12 x 32 mm	1000-pk.	Waters 186005230	23246



23242

2.0 mL, 9 mm Solid-Top Polyethylene Caps

- Compatible with all 9 mm screw-thread vials.
- Molded, 10 mil, solid, pierceable cap.
- PTFE-free—ideal for PFAS analysis (e.g., EPA 537) and other PFAS-sensitive methods.

Note: Polyethylene caps prevent sample contamination from PTFE-coated septa. However, since polyethylene caps do not reseal, evaporation occurs after injection. Multiple injections from the same vial are therefore not possible.

Description	Туре	Cap Size	Color	qty.	Similar to Part #	cat.#
2.0 mL, 9 mm Solid-Top Polyeth-	Screw-Thread	9 mm	Clear	100-pk.	Waters 186004169	23244
ylene Caps,	Screw-Thread	9 mm	Clear	1000-pk.	Waters 186004169	23247



23244





Resprep Polymeric SPE Cartridges and 96-Well Plates

- Silica-free, bonded polymeric material—no unwanted secondary silica interactions, even with basic compounds.
- High surface area—higher loading capacity compared to silica-based sorbents.
- Stable over a wide pH range (0–14)—won't hydrolyze under extreme conditions.
- Water-wettable—streamlined conditioning and equilibration steps drastically reduce solvent usage and sample prep time.
- No flow-rate dependence—maintains retention and capacity after conditioning, even if dried out from vacuum or positive pressure flows.
- Choose cartridges for high loading capacity; 96-well plates for high throughput and automation.

Description	Packing	Particle Size	Recommended Analytes	Volume	qty.	cat.#
Resprep Polymeric SPE	HLB	30 µm	General-purpose for acids, bases, or neu- trals; high capacity for polar compounds.	10 mg	ea.	28453
96-Well Plate	HLB	30 µm	General-purpose for acids, bases, or neu- trals; high capacity for polar compounds.	30 mg	ea.	28454
	HLB	30 µm	General-purpose for acids, bases, or neu- trals; high capacity for polar compounds.	1 mL, 30 mg	100-pk.	28449
Resprep Polymeric SPE	HLB	60 µm	General-purpose for acids, bases, or neu- trals; high capacity for polar compounds.	3 mL, 60 mg	50-pk.	28450
Cartridge	HLB	60 µm	General-purpose for acids, bases, or neu- trals; high capacity for polar compounds.	6 mL, 200 mg	30-pk.	28451
	HLB	60 µm	General-purpose for acids, bases, or neu- trals; high capacity for polar compounds.	6 mL, 500 mg	30-pk.	28452
Resprep Polymeric SPE	MAX	30 µm	Acids	10 mg	ea.	28459
96-Well Plate	MAX	30 µm	Acids	30 mg	ea.	28460
	MAX	30 µm	Acids	1 mL, 30 mg	100-pk.	28455
Resprep Polymeric SPE	MAX	60 µm	Acids	3 mL, 60 mg	50-pk.	28456
Cartridge	MAX	60 µm	Acids	6 mL, 150 mg	30-pk.	28457
caltiluge	MAX	60 µm	Acids	6 mL, 500 mg	30-pk.	28458
Resprep Polymeric SPE	MCX	30 µm	Bases	10 mg	ea.	28465
96-Well Plate	MCX	30 µm	Bases	30 mg	ea.	28466
	MCX	30 µm	Bases	1 mL, 30 mg	100-pk.	28461
Deserve Delements CDC	MCX	60 µm	Bases	3 mL, 60 mg	50-pk.	28462
Resprep Polymeric SPE - Cartridge	MCX	60 µm	Bases	6 mL, 150 mg	30-pk.	28463
	МСХ	60 µm	Bases	6 mL, 500 mg	30-pk.	28464
Resprep Polymeric SPE	WAX	30 µm	Strong acids	10 mg	ea.	28471
96-Well Plate	WAX	30 µm	Strong acids	30 mg	ea.	28472
	WAX	30 µm	Strong acids	1 mL, 30 mg	100-pk.	28467
	WAX	60 µm	Strong acids	3 mL, 60 mg	50-pk.	28468
	WAX	60 µm	Strong acids	6 mL, 150 mg	30-pk.	28469
Resprep Polymeric SPE Cartridge	WAX	30 µm	Strong acids	6 mL, 200 mg	30-pk.	28292
curringe	WAX	30 µm	Strong acids	6 mL, 500 mg	30-pk.	28291
	WAX	60 µm	Strong acids	6 mL, 500 mg	30-pk.	28470
Resprep Polymeric SPE	WCX	30 µm	Strong bases	10 mg	ea.	28477
96-Well Plate	WCX	30 µm	Strong bases	30 mg	ea.	28478
	WCX	30 µm	Strong bases	1 mL, 30 mg	100-pk.	28473
	WCX	60 µm	Strong bases	3 mL, 60 mg	50-pk.	28474
Resprep Polymeric SPE Cartridge	WCX	60 µm	Strong bases	6 mL, 200 mg	30-pk.	28475
	WCX	60 µm	Strong bases	6 mL, 500 mg	30-pk.	28476

HLB – Hydrophilic-Lipophilic Balance

MAX – Mixed-Mode, Strong Anion Exchange

MCX – Mixed-Mode, Strong Cation Exchange

WAX – Mixed-Mode, Weak Anion Exchange

WCX – Mixed-Mode, Weak Cation Exchange

ordering notes

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Resprep SPE Tube Parts & Accessories

Resprep tubes, frits, caps, and connectors for your method development needs.

Description	Material	Porosity	Volume	qty.	Similar to Part #	cat.#
	polypropylene		1 mL	50-pk.		26010
	polypropylene		3 mL	50-pk.		26011
Franks Tubas	polypropylene		6 mL	50-pk.		26012
Empty Tubes	polypropylene		15 mL	50-pk.		26013
	polypropylene		sample reservoir, 25 mL	12-pk.		26014
	polypropylene		sample reservoir, 75 mL	12-pk.		26015
	polyethylene	20 µm	1 mL, 6 mm	100-pk.		26016
	polyethylene	20 µm	3 mL, 9 mm	100-pk.	Agilent 12131020	26017
Frits	polyethylene	20 µm	6 mL, 1.2 cm	100-pk.		26018
Frits	polyethylene	20 µm	15 mL, 1.6 cm	100-pk.		26019
	polyethylene	20 µm	25 mL, 2.0 cm (For 20 mL packed tubes.)	100-pk.	к. k. <.	26020
	polyethylene		1 mL	12-pk.		26001
	polyethylene		3 mL	12-pk.		26002
Tube Caps	polyethylene		6 mL	12-pk.		26003
Tube Caps	polyethylene		15 mL	12-pk.		26004
	polyethylene		25 mL (For 20 mL packed tubes.)	12-pk.		26005
Female Luer End Caps	polypropylene		universal	12-pk.		26000
	polypropylene		1, 3, 6, 10, or 15 mL	15-pk.	Agilent 12131001	26007
Connectors	polypropylene		12, 25 mL	12-pk.		26008
	polypropylene		60 mL	12-pk.		26009



Resprep Quick-Replace SPE Vacuum Manifolds (12- or 24-Port)

- Disposable, quick-replace valve liners ensure a clean flow path and eliminate crosscontamination of samples extracted on the same port.
- Individual screw-type valves in each SPE port provide precise flow control.
- Easily modified sample collection rack supports a wide variety of collection vessels.
- Solvent-resistant vacuum gauge and bleed valve offer better sealing and vacuum control.
- Valves are compatible with any standard male luer end SPE cartridge.

Resprep QR-12 and QR-24 Quick-Replace vacuum manifolds enable analysts using solid phase extraction (SPE) cartridges to simultaneously prepare up to 12 or 24 samples. These manifolds are designed to eliminate the risk of contamination when consecutive samples are extracted in a manifold port. They are equipped with integral flow control valves, and each valve has an inexpensive, disposable PTFE liner/solvent guide running through its length. This guide acts as a liner so that all surfaces that come in contact with a sample can be discarded and replaced following each extraction. A luer hub attached to the PTFE liner fits snugly into a matching slot on the flow control valve stem. As the SPE cartridge is rotated on its axis, the valve pinches or releases the liner, stopping or starting the flow.

Description	Includes	Size	qty.	cat.#
Resprep QR-12 Quick-Re- place vacuum manifold	Cover with flow control valves & gasket (cat.# 28316-VM); Collection Rack (cat.# 28318-VM); Plate for 16 mm test tubes (cat.# 28319-VM); 100-pk. Quick Replace liners, PTFE (cat.# 28310-VM); 12-pk. Liner guide (cat.# 28312-VM); 12-pk. Test tubes (cat.# 28315-VM)	12-port	kit	28298-VM
Resprep QR-24 Quick-Re- place vacuum manifold	Cover with flow control valves & gasket (cat.# 28323-VM); Collection Rack (cat.# 28325-VM); Plate for 16 mm test tubes (cat.# 28326-VM); 100-pk. Quick Replace liners, PTFE (cat.# 28310-VM); 2, 12-pk. Liner guides (cat.# 28312-VM); 2, 12-pk. Test tubes (cat.# 28315-VM)	24-port	kit	28299-VM

Note: Extra plates to accommodate for 2 mL autosampler vials (28320-VM and 28327-VM) and 20 mL scintillation vials (28321-VM for QR-24 only) can be purchased if needed.







Replacement Parts for Resprep Quick-Replace SPE Vacuum Manifolds

(12- or 24-Port)

Gasket for Resprep QR-12for QR-122-pk.28317-VMCollection rack for Resprep QR-12for QR-12ea.28318-VAPlate for 16 mm test tubes for Resprep QR-12for QR-12ea.28318-VAPlate for 2 mL autosampler vials for Resprep QR-12for QR-12ea.28320-VAPlate for 2 mL scintillation vials for Resprep QR-12for QR-12ea.28322-VAPlate for 2 mL scintillation vials for Resprep QR-12for QR-12ea.28322-VASplash guard for Resprep QR-12for QR-12ea.28322-VACover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VACover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VACollection rack for Resprep QR-24for QR-24ea.28325-VACollection rack for Resprep QR-24for QR-24ea.28325-VAPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VAPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VAValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VAQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VAQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VAQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VAQuick stainless ste	Description	Size	qty.	cat.#
Collection rack for Resprep QR-12for QR-12ea.28318-VMPlate for 16 mm test tubes for Resprep QR-12for QR-12ea.28319-VMPlate for 2 mL autosampler vials for Resprep QR-12for QR-12ea.28320-VMPlate for 2 mL autosampler vials for Resprep QR-12for QR-12ea.28322-VMPlate for 2 mL scintillation vials for Resprep QR-12for QR-12ea.28322-VMSplash guard for Resprep QR-12for QR-12ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VMCoulection rack for Resprep QR-24for QR-24ea.28325-VMCollection rack for Resprep QR-24for QR-24ea.28326-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24<	Cover with flow control valves & gasket for Resprep QR-12	for QR-12	ea.	28316-VM
Plate for 16 mm test tubes for Resprep QR-12for QR-12ea.28319-VMPlate for 2 mL autosampler vials for Resprep QR-12for QR-12ea.28320-VMPlate for 2 mL autosampler vials for Resprep QR-12for QR-12ea.28321-VMPlate for 20 mL scintillation vials for Resprep QR-12for QR-12ea.28322-VMSplash guard for Resprep QR-12for QR-12ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28323-VMGasket for Resprep QR-24for QR-24ea.28325-VMCollection rack for Resprep QR-24for QR-24ea.28325-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28313-VMRetaining clips for collection r	Gasket for Resprep QR-12	for QR-12	2-pk.	28317-VM
Plate for 2 mL autosampler vials for Resprep QR-12for QR-12ea.28320-VMPlate for 20 mL scintillation vials for Resprep QR-12for QR-12ea.28321-VMSplash guard for Resprep QR-12for QR-12ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28322-VMCould control valves & gasket for Resprep QR-24for QR-24ea.28325-VMCollection rack for Resprep QR-24for QR-24ea.28326-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-12 and QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28313-VM </td <td>Collection rack for Resprep QR-12</td> <td>for QR-12</td> <td>ea.</td> <td>28318-VM</td>	Collection rack for Resprep QR-12	for QR-12	ea.	28318-VM
Plate for 20 mL scintillation vials for Resprep QR-12for QR-12ea.28321-VMSplash guard for Resprep QR-12for QR-12ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28323-VMGasket for Resprep QR-24for QR-24ea.28322-VMCollection rack for Resprep QR-24for QR-24ea.28325-VMCollection rack for Resprep QR-24for QR-24ea.28325-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28314-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28314-VM	Plate for 16 mm test tubes for Resprep QR-12	for QR-12	ea.	28319-VM
Splash guard for Resprep QR-12for QR-12ea.28322-VMCover with flow control valves & gasket for Resprep QR-24for QR-24ea.28323-VMGasket for Resprep QR-24for QR-242-pk.28324-VMCollection rack for Resprep QR-24for QR-24ea.28325-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24100-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28313-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28313-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28314-VM	Plate for 2 mL autosampler vials for Resprep QR-12	for QR-12	ea.	28320-VN
Cover with flow control valves & gasket for Resprep QR-24for QR-24ea.28323-VMGasket for Resprep QR-24for QR-242-pk.28324-VMCollection rack for Resprep QR-24for QR-24ea.28325-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24100-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28313-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28314-VM	Plate for 20 mL scintillation vials for Resprep QR-12	for QR-12	ea.	28321-VN
Gasket for Resprep QR-24for QR-242-pk.28324-VMCollection rack for Resprep QR-24for QR-24ea.28325-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28327-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24100-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28313-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24ea.28313-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28314-VM	Splash guard for Resprep QR-12	for QR-12	ea.	28322-VN
Collection rack for Resprep QR-24for QR-24ea.28325-VMPlate for 16 mm test tubes for Resprep QR-24for QR-24ea.28326-VMPlate for 2 mL autosampler vials for Resprep QR-24for QR-24ea.28326-VMValve stem for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2424-pk.28308-VMQuick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-24100-pk.28310-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28311-VMQuick-replace flow control valves for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-242-pk.28312-VMVacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28313-VMRetaining clips for collection racks for Resprep Quick-Replace vacuum manifoldsfor QR-12 and QR-2412-pk.28314-VM	Cover with flow control valves & gasket for Resprep QR-24	for QR-24	ea.	28323-VN
Plate for 16 mm test tubes for Resprep QR-24 for QR-24 ea. 28326-VN Plate for 2 mL autosampler vials for Resprep QR-24 for QR-24 ea. 28327-VN Valve stem for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 24-pk. 28308-VN Quick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 100-pk. 28310-VN Quick-replace flow control valves for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 2-pk. 28311-VN Quick-replace flow control valves for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 2-pk. 28311-VN Quick-replace flow control valves for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28312-VN Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 ea. 28313-VN Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 ea. 28313-VN Retaining clips for collection racks for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28314-VN	Gasket for Resprep QR-24	for QR-24	2-pk.	28324-VN
Plate for 2 mL autosampler vials for Resprep QR-24 for QR-24 ea. 28327-VM Valve stem for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 24-pk. 28308-VM Quick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 100-pk. 28310-VM Quick-replace flow control valves for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 2-pk. 28311-VM Quick-replace flow control valves for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 2-pk. 28311-VM Liner guides (stainless steel) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28312-VM Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 ea. 28313-VM Retaining clips for collection racks for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 ea. 28313-VM	Collection rack for Resprep QR-24	for QR-24	ea.	28325-VN
Valve stem for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 24-pk. 28308-VM Quick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum for QR-12 and QR-24 100-pk. 28310-VM Quick-replace flow control valves for Resprep Quick-Replace vacuum for QR-12 and QR-24 2-pk. 28311-VM Quick-replace flow control valves for Resprep Quick-Replace vacuum for QR-12 and QR-24 2-pk. 28311-VM Liner guides (stainless steel) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28312-VM Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum for QR-12 and QR-24 ea. 28313-VM Retaining clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 12-pk. 28313-VM Retaining clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 12-pk. 28314-VM	Plate for 16 mm test tubes for Resprep QR-24	for QR-24	ea.	28326-VN
Quick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum for QR-12 and QR-24 100-pk. 28310-VM Manifolds for QR-12 and QR-24 100-pk. 28310-VM Quick-replace flow control valves for Resprep Quick-Replace vacuum for QR-12 and QR-24 2-pk. 28311-VM Liner guides (stainless steel) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28312-VM Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum for QR-12 and QR-24 ea. 28313-VM Manifolds for QR-12 and QR-24 ea. 28313-VM Retaining clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 12-pk. 28314-VM Manifolds for QR-12 and QR-24 12-pk. 28314-VM	Plate for 2 mL autosampler vials for Resprep QR-24	for QR-24	ea.	28327-VN
manifolds for QR-12 and QR-24 100-pk. 28310-VA Quick-replace flow control valves for Resprep Quick-Replace vacuum for QR-12 and QR-24 2-pk. 28311-VA Liner guides (stainless steel) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28312-VA Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum for QR-12 and QR-24 ea. 28313-VA manifolds realing clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 ea. 28313-VA Retaining clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 12-pk. 28314-VA	Valve stem for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	24-pk.	28308-VN
manifolds for QR-12 and QR-24 2-pk. 28311-VM Liner guides (stainless steel) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28312-VM Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 ea. 28313-VM manifolds Retaining clips for collection racks for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 ea. 28313-VM Retaining clips for collection racks for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28314-VM	Quick-replace disposable liners (PTFE) for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	100-pk.	28310-VM
Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum for QR-12 and QR-24 ea. 28313-VM manifolds Retaining clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 12-pk. 28314-VM manifolds	Quick-replace flow control valves for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	2-pk.	28311-VM
manifolds 101 QR-12 and QR-24 ea. 28313-VM Retaining clips for collection racks for Resprep Quick-Replace vacuum for QR-12 and QR-24 12-pk. 28314-VM manifolds	Liner guides (stainless steel) for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	12-pk.	28312-VM
manifolds tor QR-12 and QR-24 12-pk. 28314-VN	Vacuum gauge and bleed valve for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	ea.	28313-VM
Fest tubes (10 x 75 mm) for Resprep Quick-Replace vacuum manifolds for QR-12 and QR-24 12-pk. 28315-VA	Retaining clips for collection racks for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	12-pk.	28314-VM
	Test tubes (10 x 75 mm) for Resprep Quick-Replace vacuum manifolds	for QR-12 and QR-24	12-pk.	28315-VM

Rocker Rocker Vacuum Pumps

- Oil-free vacuum pumps are piston powered, so they do not pollute the air and require minimal maintenance.
- Quiet, low-vibration units keep disturbances to a minimum.
- Built-in thermal protector automatically shuts off pump if it overheats and then restarts it once the unit is cool.
- Inlet filter traps particles and removes moisture, prolonging pump life.
- International CE and CSA certification.
- Applications include filtration for air sampling, microbiology, suspended solid test, vacuum oven, thermal desorption (TD) tubes, sampling bags (regulator recommended for TD tubes and sampling bags), and general use. (Not intended to evacuate air canisters.)
- Two-year pump warranty.

Description	Instrument	Flow Capacity	Used with	Voltage	qty.	cat.#
	Rocker 300	21 L/min		AC110 V, 60 Hz	ea.	27424
	Rocker 300	18 L/min		AC220 V, 50 Hz	ea.	27425
	Rocker 300DC	25 L/min	For use with automotive type 12 V battery.	DC Power (12 V)	ea.	27447
	Rocker 400	37 L/min		AC110 V, 60 Hz	ea.	27432
Vacuum Pump	Rocker 400	34 L/min		AC220 V, 50 Hz	ea.	27433
	Rocker 410	23 L/min		AC110 V, 60 Hz	ea.	27434
	Rocker 410	20 L/min		AC220 V, 50 Hz	ea.	27435
	Rocker 500	28 L/min		AC110 V, 60 Hz	ea.	27436
	Rocker 500	23 L/min		AC220 V, 50 Hz	ea.	27437



PFAS Delay Column

- Traps system-related PFAS, preventing interference and ensuring accurate trace-level analysis of PFAS in samples.
- Universal compatibility: works with
 - any HPLC or UHPLC up to 15,000 psi (1034 bar);
 - both FPP and SPP analytical columns; and
 - all stationary phases.
- Highly retentive of system-related PFAS; no breakthrough even with extended equilibration times.
- Easy installation with standard fittings.

ID	Length	qty.	cat.#
5 µm Particles			
2.1 mm	50 mm	ea.	27854



Particle: 5 µm, spherical, fully porous pH Range: 2.5 to 8 Maximum Temperature: 80 °C Maximum Pressure: 1034 bar/15,000 psi

Raptor C18 LC Columns (USP L1)

- A traditional end-capped C18 ideal for general-purpose use in reversed-phase chromatography.
- Wide pH range (2–8) provides excellent data quality for many applications, matrices, and compounds.
- Offers the highest hydrophobic retention of any Raptor phase.
- Part of Restek's Raptor LC column line featuring 1.8, 2.7, and 5 μm SPP core-shell silica.

ID	Length	qty.	cat.#
1.8 µm Particles			
2.1 mm	100 mm	ea.	9304212
3.0 mm	100 mm	ea.	930421E
0.1	30 mm	ea.	9304232
2.1 mm	50 mm	ea.	9304252
3.0 mm	50 mm	ea.	930425E
2.1 mm	150 mm	ea.	9304262
2.7 µm Particles			
2.1 mm	100 mm	ea.	9304A12
4.6 mm	100 mm	ea.	9304A15
3.0 mm	100 mm	ea.	9304A1E
2.1 mm	30 mm	ea.	9304A32
4.6 mm	30 mm	ea.	9304A35
3.0 mm	30 mm	ea.	9304A3E
2.1 mm	50 mm	ea.	9304A52
4.6 mm	50 mm	ea.	9304A55
3.0 mm	50 mm	ea.	9304A5E
2.1 mm	150 mm	ea.	9304A62
4.6 mm	150 mm	ea.	9304A65
3.0 mm	150 mm	ea.	9304A6E
5 µm Particles			
2.1 mm	100 mm	ea.	9304512
4.6 mm	100 mm	ea.	9304515
3.0 mm	100 mm	ea.	930451E
	30 mm	ea.	930453E
2.1 mm	50 mm	ea.	9304552
4.6 mm	50 mm	ea.	9304555
3.0 mm	50 mm	ea.	930455E
2.1 mm	150 mm	ea.	9304562
4.6 mm	150 mm	ea.	9304565
3.0 mm	150 mm	ea.	930456E
4.6 mm	250 mm	ea.	9304575



Stationary Phase Category: C18, octadecylsilane (L1) Ligand Type: End-capped C18 Particle: 1.8 µm, 2.7 µm, or 5 µm superficially porous
particle (SPP or "core-shell" particle) silica Pore Size: 90 Å
Carbon Load: 9% (1.8 µm), 7% (2.7 µm), 5% (5 µm)
End-Cap: yes Surface Area: 125 m²/g (1.8 µm), 130 m²/g (2.7 µm), or 100
m ² /g (5 μm)
Recommended Usage: pH Range: 2.0–8.0
Maximum Temperature: 80 °C
Maximum Pressure: 1034 bar/15,000 psi* (1.8 µm), 600 bar/8700 psi (2.7 µm); 400 bar/5800 psi (5 µm)
* For maximum lifetime, recommended maximum pressure
for 1.8 μm particles is 830 bar/12,000 psi.
Properties:

- Compatible with moderately acidic to neutral mobile phases (pH 2–8).
- Excellent data quality in food, environmental, bioanalytical, and other applications.

Switch to a C18 column when:

- You need a general-purpose column for reversed-phase chromatography.
- You need to increase retention of hydrophobic compounds.







A 316 stainless-steel tip with a Tefzel collar seals to a corrosion-resistant, 316 stainlesssteel filter element. The slip-on filter easily attaches to the pump inlet line without the use of wrenches. The universal 1/8" OD tip accommodates standard PTFE tubing inner diameters. The cylindrical filter is standard 10 µm porosity. Fits Altex, ISCO, LDC, Varian, Waters, PerkinElmer, and other pumps.

Description	qty.	cat.#
Slip-On Inlet Filter	ea.	25008



25097



Lit. Cat.# EVAR3498B-UNV

Survival Kit for HPLC, Stainless Steel

For start-up and maintenance in all HPLC systems.

The stainless-steel survival kit contains a wide range of tubing, fittings, and tools necessary to set up and maintain your HPLC system: a selection of lengths and IDs of 1/16" tubing, nuts, ferrules, a ValvTool wrench, and a zero-dead-volume union.

Kit includes:

HPLC Capillary Tubing, SS, 1/16" x 0.005" x 5 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.005" x 10 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.005" x 20 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.005" x 30 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.007" x 5 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.007" x 10 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.007" x 20 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.007" x 30 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.010" x 5 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.010" x 10 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.010" x 20 cm, 3-pk.

HPLC Capillary Tubing, SS, 1/16" x 0.010" x 30 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.020" x 5 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.020" x 10 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.020" x 20 cm, 3-pk. HPLC Capillary Tubing, SS, 1/16" x 0.020" x 30 cm, 3-pk. 1/16" Rheodyne Style Nut, 10-pk. 1/16" Rheodyne Style Ferrule, 10-pk. ValvTool Wrench, ea. Ferrules, 1/16" Stainless Steel, 10-pk. Nuts, 1/16" Stainless Steel, 10-pk. Zero-Dead-Volume Internal Union, ea.

qty.

kit

cat.#

25097

Description Survival Kit for HPLC

Developing new methods? Review our PFAS Column Selection Guide for chromatograms as well as column phase and dimension recommendations optimized for different PFAS types and instrumentation.

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