

Analytical

SALES & SERVICES, Inc.

Products for Science



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To place your order, you will need to supply the catalog number, a brief description and size, or the particular specifications when indicated.

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- **Fax:** 973-616-0133
- **Email:** orders@analytical-sales.com
- **Online store:** www.analytical-sales.biz

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If you have an account with Analytical Sales, we will bill you for your purchases. All prices are F.O.B. Flanders, NJ. Terms of payment are net 30 days. To open an account, please call us. We also accept Visa®, Mastercard® and American Express®.

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New Products



Truetaper™ 1 mL
96-Well Collection Plates

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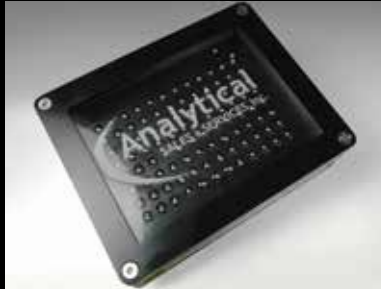
Select-A-Vial™
Vial Insert/Rack System

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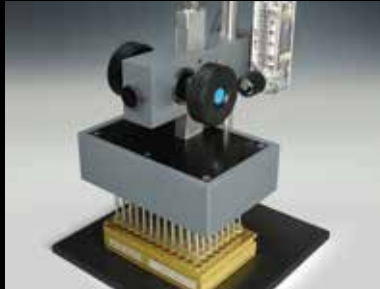
Alpha-Numeric Templates
for 96-Well Collection Plates

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SpeedyBead™
96-Well Bead Dropper

Page 35



96-Well Evaporator

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Aluminum Reaction
Blocks

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Powder Transfer Plates

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AluFit™
Heat Transfer Collars

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Sentinel™
Fluid Level Indicator

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Just go to www.analytical-sales.com to

Sign Up!



Analytical Sales and Services was founded in March 1988 (PittCon is our anniversary). Over the years we've built our reputation as a caring, value-added, technical support company. At Analytical Sales and Services, we apply intelligence to helping you make your analysis more valuable. We invent, manufacture and supply a vast array of products tailored to chromatography applications. Therefore, our intellectual property can help yours. We know it's important to you to be able to discuss new products, ideas, and ways to improve support after the sale.

Markets Served

Our major focus continues to be in the HPLC and related chromatography markets of the pharmaceutical and biotech industries, with a primary focus on R&D. For access to the intellectual property available at Analytical Sales and Services, contact us or visit our web site at www.analytical-sales.com.

Facilities

Our corporate headquarters is located in Flanders, New Jersey. All operations, including R&D, manufacturing, and applications laboratory for conducting methods development for customers are located here.

Chief Chromatographic Techniques Supported

- HPLC-analytical, narrow-bore, microbore, and semi-prep columns
- LC-LC/MS column heaters
- Chromatography modeling
- High throughput collection plates, available in 96 and 384 well design
- SPE and filter plates, available in 96 and 384 well design

Products & Services

Products developed and manufactured by Analytical Sales & Services:

- **Hot Sleeve Plus™** column heater
- **Cold Sleeve™** column cooler/heater
- **AgileSLEEVE Plus™** small diameter flexible column heater
- **MonoSLEEVE™** single column heater controller
- **MultiSLEEVE™** multiple column heater controller
- **AluFit™** Heat Transfer Collars **New!**
- **PowerSelector™** temperature controlled column selector
- **FlexChrom™** 1/16" flexible stainless steel tubing
- UHPLC Fingertight Fittings/Assemblies
- **TrueTaper™** 96-well collection plates
- Alpha-numeric Templates for 96-Well Collection Plates **New!**
- Teflon® and Silicone Adhesive Sealing Films and Cap Mats
- **Canary-Safe™** solvent safety products
- **SENTINEL™** Fluid Level Indicator **New!**
- **Paradox™** Parallel Synthesis & Photoredox/Optimization Plates **New!**
- **Lumidox™** LED Photon Generator
- Powder Transfer Plates **New!**
- Vacuum manifold filtration system
- 96 and 384-well protein crash filter plates
- **SpeedyBead™** 96-Well Bead Dropper **New!**
- **96-Well Mini Evaporator New!**
- **DBS** – Dried Blood Spot Card Punch
- **SiliGuard™** low-bind surface coating

Other chromatography-related products offered:

- HPLC/LC–MS columns: Wide selection of hardware and sorbents available for analytical, narrow-bore, microbore, prep and semi-prep applications
- Direct-connect columns
- Sample and solvent preparation products
- Automated valves for injection, selection and switching
- Fluidic transfer products, tubing and fittings
- Replacement pump parts and detector lamps
- 96 and 384-well collection plates, glass inserts, cap mats and films
- Solid-phase extraction products

Analytical Sales & Services also specializes in Custom Product Design, Manufacturing and Development

Your Challenge + Our Capabilities = Your Solution

Together We Create

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Don't Get Stuck with Your Guard Down!

- Unique SiliGuard™ Treatment
- Reduces Non-Specific Binding
- Great for Sticky Compounds
- Low Protein/Peptide Binding
- Can Be Applied to All Polypropylene Products (e.g. Collection Plates, HPLC Vials, Micro-centrifuge Tubes)



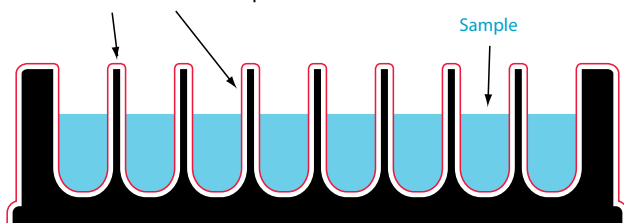
Get the most from your samples. SiliGuard™ is a **low-bind** surface coating which helps prevent compounds from sticking to polypropylene surfaces.

96-Well Collection Plates with SiliGuard

Cat. No.	Description	Volume	Qty
96355GC	U-Shaped Bottom, 96-Well Collection Plate w/ SiliGuard	355µL	25
96340GC	V-Shaped Bottom, 96-Well Collection Plate w/ SiliGuard	340µL	25
96390GC	Flat Bottom, 96-Well Collection Plate w/ SiliGuard	390µL	25
96065GC	V-Shaped Deep, 96-Well Collection Plate w/ SiliGuard	650µL	50
968810GC	TrueTaper 96-Well Collection Plate w/ SiliGuard	1mL	25
17P687GC	Round Top/Bottom 96-Well Collection Plate w/ SiliGuard	1mL	20
17P557GC	Clear-Vu™ Round Top/Bottom 96-Well Plate w/ SiliGuard	1mL	24
968820GC	TrueTaper 2mL, 96-Well Collection Plate w/ SiliGuard	2mL	25
59623-23GC	Square Top, V-Bottom, 96-Well Collection Plate w/ SiliGuard	2mL	10
27P687GC	Square Top/Round Bottom, 96-Well Collection Plate w/ SiliGuard	2mL	20
967720GC	Round Well/Round Bottom, 96-Well Collection Plate w/ SiliGuard	2mL	25

Additional SiliGuard plates are available

SiliGuard Protective Coating Keeps proteins from binding to surface of PP collection plate



Polypropylene Collection Plate with SiliGuard

PRODUCT NOTE:

We also have the capability to Silanize glass products

Sealing Film + (Patented)

Pattern Adhesive Teflon® (PTFE) and Silicone Sealing Films

Established & Proven

- Superior Solvent Compatibility
- Higher Chemical Resistance
- Greater Tackiness
- Compatible with Standard LCMS Solvents

- Adhesive-free target areas
- Firm seal to microplate -80°C to +120°C
- Prevents cross-contamination and evaporation
- Outstanding performance for PCR applications
 - 40 cycles, hot lid at 100°C
- Outstanding performance with Autosamplers
 - Only 0.5 lb force needed to pierce
 - No coring of material
 - No clogging of needle
- Optically clear for inspection and diagnosis

Offers outstanding solvent resistance including DMSO, aqueous mixture of isopropanol, ethanol, methanol and acetonitrile and superior chemical compatibility, with a firm seal at -80°C to +120°C.

96-Well Pattern Teflon (PTFE) Adhesive Sealing Film

Cat. No.	Description	Well Shape	Qty
961801	Advantage™ Teflon (PTFE) Adhesive Film, Round 96-Well Pattern, Ultra-thin	○ Round	100
961802	Advantage™ Pre-scored Teflon (PTFE) Adhesive Film, Round 96-Well Pattern, Ultra-thin	⊕ Round	100
961201	Advantage™ Teflon (PTFE) Adhesive Film, Square 96-Well Pattern, Ultra-thin	□ Square	100
961202	Advantage™ Pre-scored Teflon (PTFE) Adhesive Film, Square 96-Well Pattern, Ultra-thin	⊞ Square	100

384-Well Pattern Teflon (PTFE) Adhesive Sealing Film

Cat. No.	Description	Well Shape	Qty
38402	Advantage™ Teflon (PTFE) Adhesive Film, 384 Square Well Pattern, Ultra-thin, Purple	□ Square	100

Pattern Adhesive PTFE (Teflon®) Sealing Films in White and Black

Outstanding solvent resistance including DMSO, aqueous mixture of isopropanol, ethanol, methanol and acetonitrile and superior chemical compatibility, with a firm seal at -80°C to +120°C.

Black adhesive has exceptional bond strength to low surface energy substrates such as polypropylene, outstanding water vapor and UV resistance, and superior chemical resistance, with a firm seal at -75°C to +125°C.

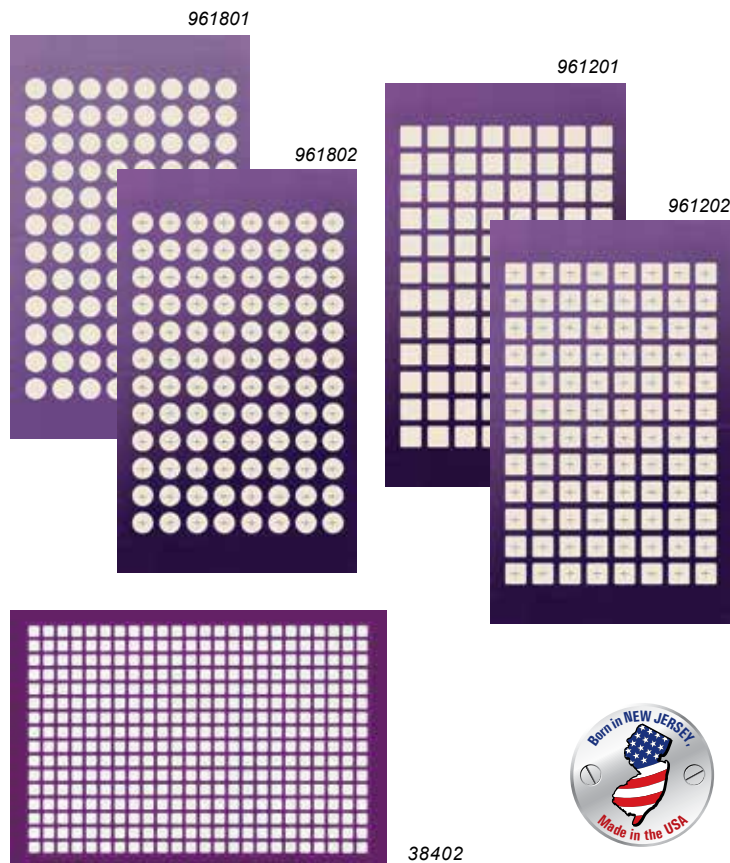
Cat. No.	Description	Well Shape	Qty
96893	White Teflon Film	○ Round	100
96823	Black Teflon Film	○ Round	100



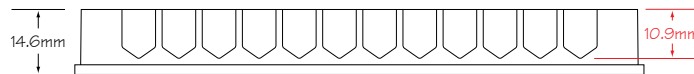
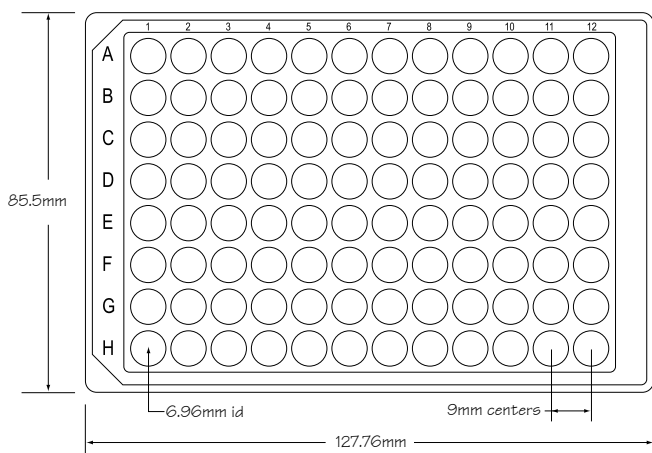
96104

Pattern Adhesive **Resealable** SILICONE Sealing Film

Cat. No.	Description	Well Shape	Qty
96104	Round 96-Well Adhesive Silicone Sealing Film	○ Round	5



Small Volume 96-Well Collection Plates - Round Well



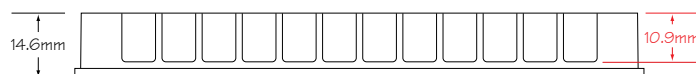
Round Well with V-Shaped Bottoms - 340µL

Cat. No.	Description	Material	Color	Volume	Qty
96340	V-Shaped Bottom	PP	CLEAR	340µL	100
96340GC	V-Shaped Bottom with SiliGuard	PP	CLEAR	340µL	25



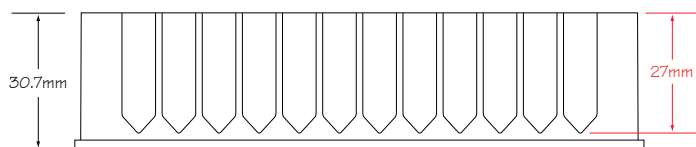
Round Well with U-Shaped Bottoms - 355µL

Cat. No.	Description	Material	Color	Volume	Qty
96355	U-Shaped Bottom	PP	CLEAR	355µL	100
96355GC	U-Shaped Bottom with SiliGuard	PP	CLEAR	355µL	25



Round Well with Flat Bottoms - 390µL

Cat. No.	Description	Material	Color	Volume	Qty
96390	Flat Bottom	PP	CLEAR	390µL	100
96390GC	Flat Bottom with SiliGuard	PP	CLEAR	390µL	25



Round Well with Deep V-Shaped Bottoms - 650µL

Cat. No.	Description	Material	Color	Volume	Qty
96065	V-Shaped Deep	PP	CLEAR	650µL	50
96065GC	V-Shaped Deep with SiliGuard	PP	CLEAR	650µL	50

PRODUCT TIP:

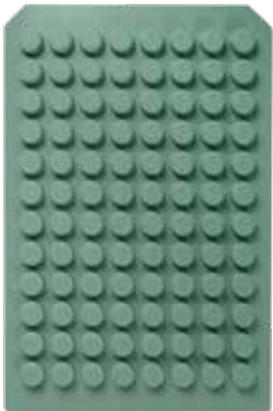
Additional shallow well geometries can be found with our PCR® plates, see page 25

Resealable Silicone/PTFE Coated Cap Mats

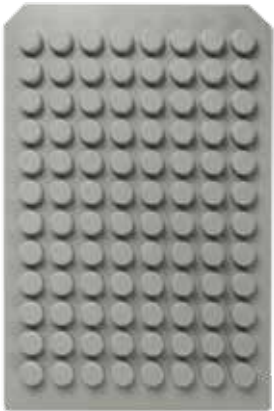
- Compatible with all current autosampler needles
- No coring or cross talk
- Fits all standard 96-position blocks
- Reseals after multiple injections
- Pre-slit or non-pre-slit




Cat No.	Color	Qty
965007	Purple	5
Ultra Thin Round Well, Soft Silicone/PTFE		
Cat No.	Color	Qty
965075	Purple	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		



Cat No.	Color	Qty
963675	Green	5
Round Well, Silicone/PTFE (<i>good for long-term storage at -80°C</i>)		
Cat No.	Color	Qty
963670	Green	5
Pre-Slit Round Well, Silicone/PTFE		



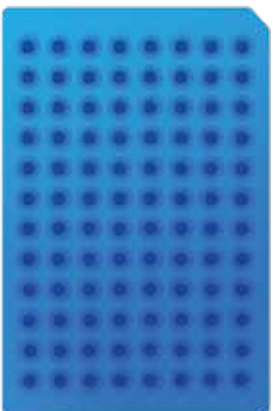
Cat No.	Color	Qty
96FSS0	Gray	5
Round Well, Soft Silicone/PTFE, good with aggressive solvents and shaking		
Cat No.	Color	Qty
96FPSO	Gray	5
Pre-Slit Round Well, Soft Silicone/PTFE, good with aggressive solvents		



Cat No.	Color	Qty
964007	CLEAR	5
Ultra Thin Round Well, Soft Silicone/PTFE		
Cat No.	Color	Qty
964075	CLEAR	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		


Thicker Resealable Silicone, PTFE Coated Cap Mats

- Use in Shimadzu autosamplers



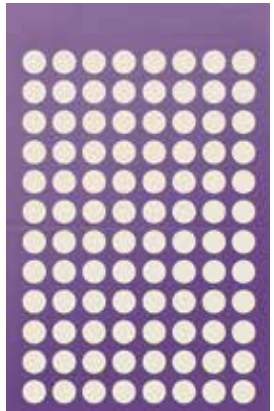
Cat No.	Color	Qty
967702	Blue	5
Round Well, Soft Silicone/PTFE, Better Suited for 2° - 8°C Autosampler Temperatures		
Cat No.	Color	Qty
967701	Blue	5
Pre-Slit Round Well, Soft Silicone/PTFE		

Polypropylene Round Well Cap Mats



Cat No.	Color	Qty
96057	CLEAR	5
1mL Autosampler Compatible PP Cap Mat, Pierceable X on Surface		
Cat No.	Color	Qty
96017	CLEAR	5
1mL PE Cap Mat, for Storage Only - up to 120°C		

Pattern Adhesive PTFE (Teflon®) Sealing Film (patented)

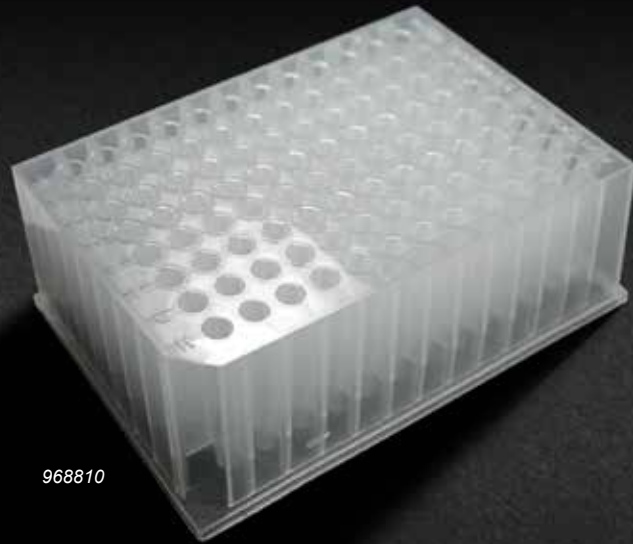


Cat No.	Color	Qty
961801	Purple	100
PTFE Adhesive Film, Round 96-Well Pattern, Ultra-thin		
Cat No.	Color	Qty
961802	Purple	100
Pre-scored PTFE Adhesive Film, Round 96-Well, Ultra-thin		

Pattern Adhesive Resealable Silicone Sealing Film (patented)



Cat No.	Color	Qty
96104	Purple	5
Round 96-Well Adhesive Resealable SILICONE Sealing Film		

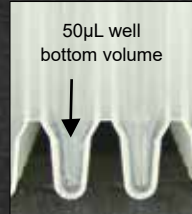


968810

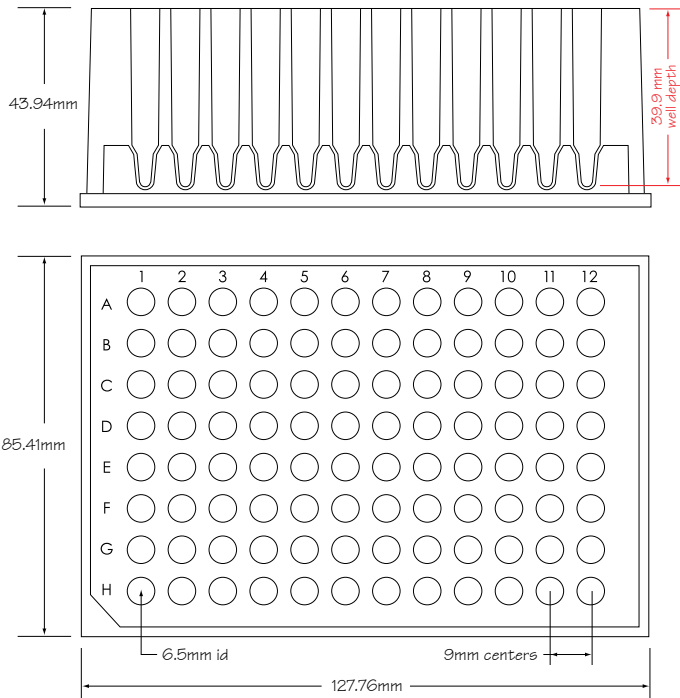
TrueTaper™
COLLECTION PLATES

1mL TrueTaper™

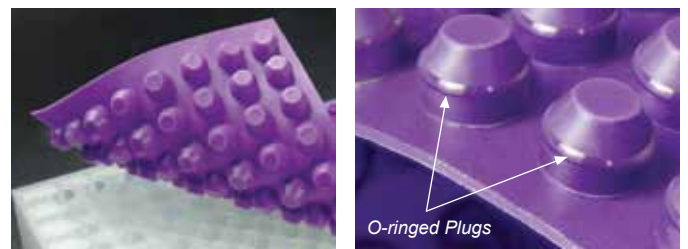
96-Well Polypropylene Collection Plate



- 50µL tapered bottom volume
- 1.0mL total volume capacity
- Round well with unique tapered bottom for maximum sample recovery
- See Tech Note Below



O-Ringed Purple Silicone Cap Mats for 1mL TrueTaper Collection Plates



- Unique O-ringed Plugs
- No Crosstalk
- Holds Seal with Vigorous Vortexing
- Autosampler Compatible

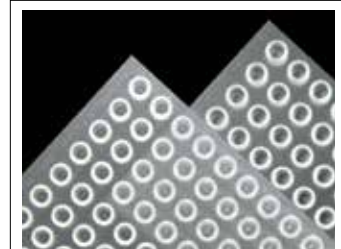
Cat No.	Color	Qty	Cat No.	Color	Qty
960181	Purple	5	960185	Purple	5
Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate			<i>Pre-Slit</i> Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate		

Standard Silicone Cap Mats

for 1mL TrueTaper Collection Plates and 1mL Tapered Vials



Cat No.	Color	Qty
99890	Blue	5
<i>Pre-Slit</i> Opaque Silicone/PTFE Cap Mat, Round Well		



Cat No.	Color	Qty
99685	CLEAR	5
Silicone/PTFE Cap Mat, Round Well		
99690	CLEAR	5
<i>Pre-Slit</i> Silicone/PTFE Cap Mat, Round Well		

Cat. No.	Description	Volume	Qty
968810	1mL TrueTaper™ 96-Well Collection Plate	50µL bottom/ 1.0mL total	25
968810GC	1mL TrueTaper™ 96-Well Collection Plate with SiliGuard	50µL bottom/ 1.0mL total	25

TECH NOTE:



Higher meniscus provides reduced dead volume, easier liquid/liquid extraction and slower evaporation rate.

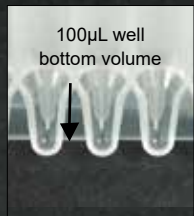


Available with

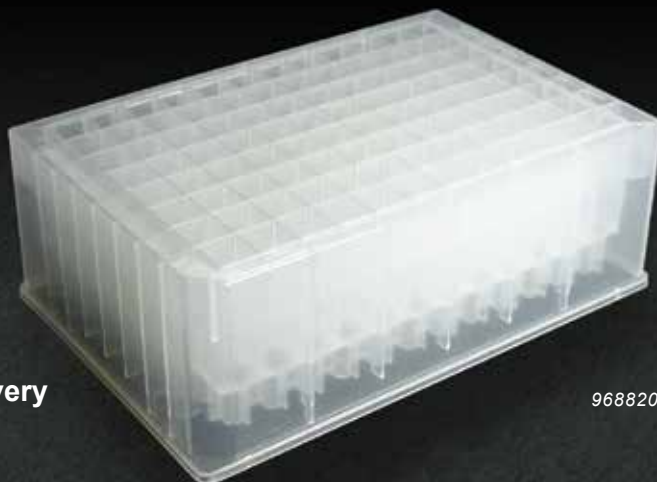


2mL TrueTaper™

96-Well Polypropylene Collection Plate



- 100µL tapered bottom volume
- 2.0mL total volume capacity
- Square well with unique tapered bottom for **maximum sample recovery**
- See *Tech Note on Page 8*

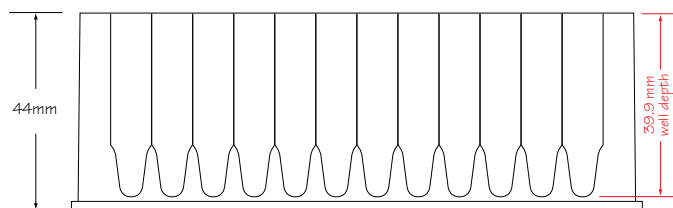


968820

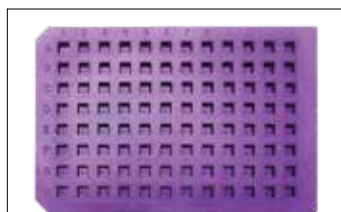
Cat. No.	Description	Volume	Qty
968820	2mL TrueTaper™ Collection Plate	100µL bottom/2.0mL total	25
968820GC	2mL TrueTaper™ with SiliGuard	100µL bottom/2.0mL total	25

Black TrueTaper - for Light Sensitive Compounds

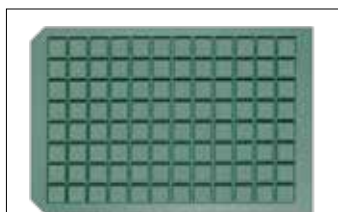
Cat. No.	Description	Volume	Qty
968820BL	2mL TrueTaper, Black	100µL bottom/2.0mL total	25



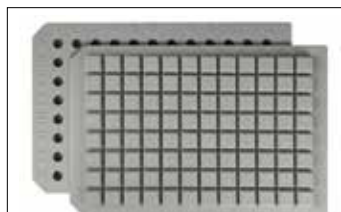
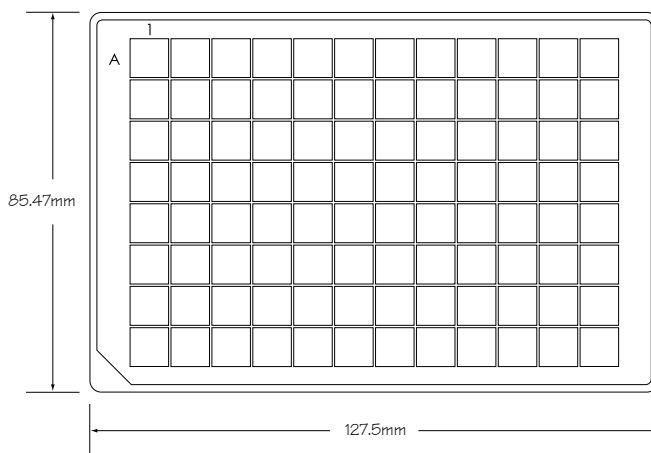
Resealable Silicone/PTFE Coated Cap Mats



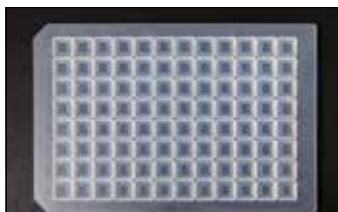
Cat No.	Color	Qty
965008	Purple	5
Ultra Thin Square Well, Soft Silicone/PTFE		
965085	Purple	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		



Cat No.	Color	Qty
963725	Green	5
Square Well, Silicone/PTFE (good for long-term storage at -80°C)		
963724	Green	5
Pre-Slit Square Well, Silicone/PTFE		

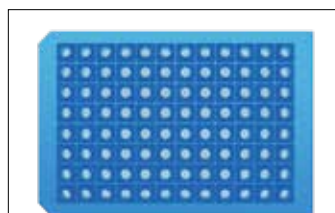


Cat No.	Color	Qty
29660	Gray	5
Square Well, Soft Silicone/PTFE, good w/ aggressive solvents and shaking		
29665	Gray	5
Pre-Slit Square Well, Soft Silicone/PTFE, good with aggressive solvents		



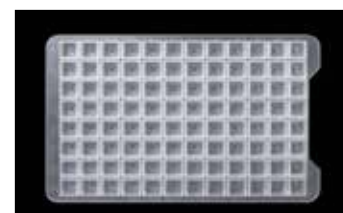
Cat No.	Color	Qty
964008	CLEAR	5
Ultra Thin Square Well, Soft Silicone/PTFE		
964085	CLEAR	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		

Thicker Resealable Cap Mats



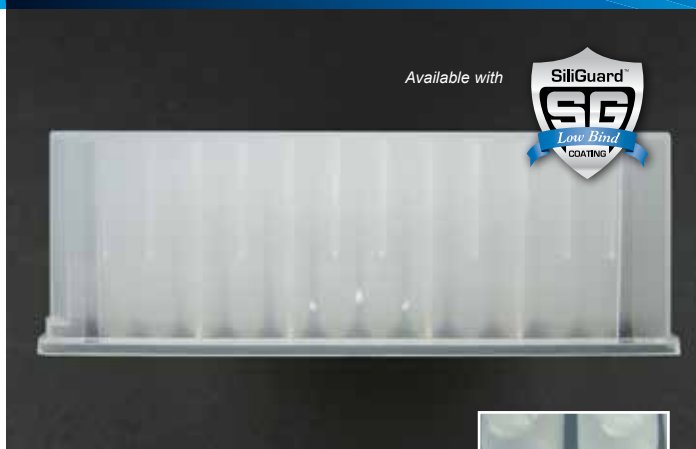
Cat No.	Color	Qty
968802	Blue	5
Square Well, Soft Silicone/PTFE		
968801	Blue	5
Pre-Slit Square, Soft Silicone/PTFE		

Polypropylene Square Cap Mats



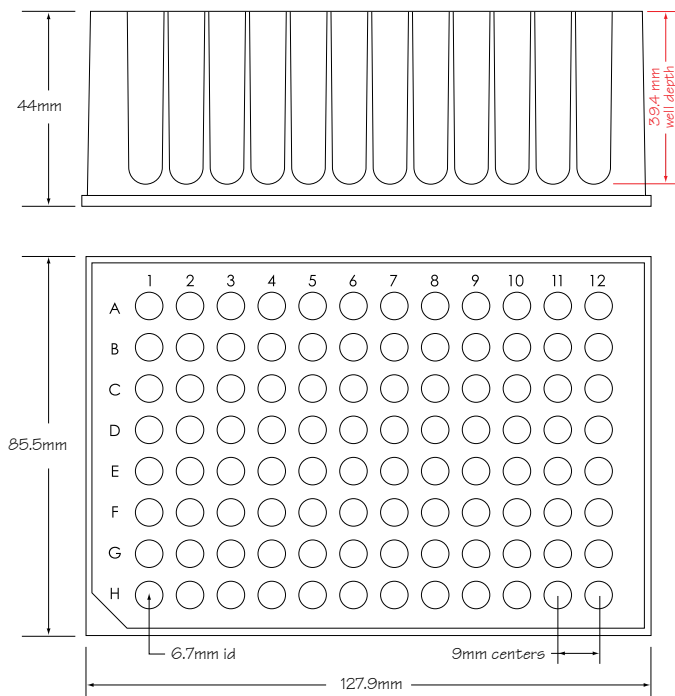
Cat No.	Color	Qty
2726	CLEAR	5
Square, Pierceable 'X' in Each Well, PP		
3726	CLEAR	5
2mL Square Cap Mat, PP		

Advantage™ 1 mL 96-Well Collection Plates - Round Well



Advantage™ Standard 1mL Collection Plates with Round Wells & Round Bottoms

- High quality, solvent resistant polypropylene
- Industry standard
- Distinct alphanumeric designation
- Compatible with all robotic systems



Cat. No.	Description	Volume	Qty
17P687	Round Well/Round Bottom	1mL	20
17P687GC	Round Well/Bottom with SiliGuard	1mL	20

Resealable Silicone/PTFE Coated Round Well Cap Mats

Cat No.	Color	Qty
965007	Purple	5
Ultra Thin Round Well, Soft Silicone/PTFE		
965075	Purple	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		

Cat No.	Color	Qty
963675	Green	5
Round Well, Silicone/PTFE (<i>good for long-term storage at -80°C</i>)		
963670	Green	5
Pre-Slit Round Well, Silicone/PTFE		

Cat No.	Color	Qty
96FSS0	Gray	5
Soft Silicone/PTFE, <i>good with aggressive solvents and shaking</i>		
96FPSO	Gray	5
Pre-Slit Round Well, Soft Silicone/PTFE, <i>good w/ aggressive solvents</i>		

Cat No.	Color	Qty
964007	CLEAR	5
Ultra Thin Round Well, Soft Silicone/PTFE		
964075	CLEAR	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		

Thicker Resealable Cap Mats

Cat No.	Color	Qty
967702	Blue	5
Soft Silicone/PTFE, Better Suited for 2° - 8°C Autosampler Temperatures		
967701	Blue	5
Pre-Slit , Round, Soft Silicone/PTFE		

Polypropylene Round Cap Mats

Cat No.	Color	Qty
96057	CLEAR	5
PP, Pierceable 'X' in Each Well		
96017	CLEAR	5
for Storage Only - up to 120°C		

Beige Rubber Cap Mats

Cat No.	Color	Qty
96230	Beige	5
Beige Rubber Cap Mat, Round Well, Reduced Evaporation		
96235	Beige	5
Pre-Slit Beige Rubber Cap Mat, Round		

Pattern Adhesive Sealing Film

Cat No.	Color	Qty
961801	Purple	100
PTFE Adhesive Film, Ultra-thin, Round		
961802	Purple	100
Pre-scored PTFE Adh. Film, Round		
96104	Purple	5
Round 96-Well Adhesive Resealable Silicone Sealing Film		

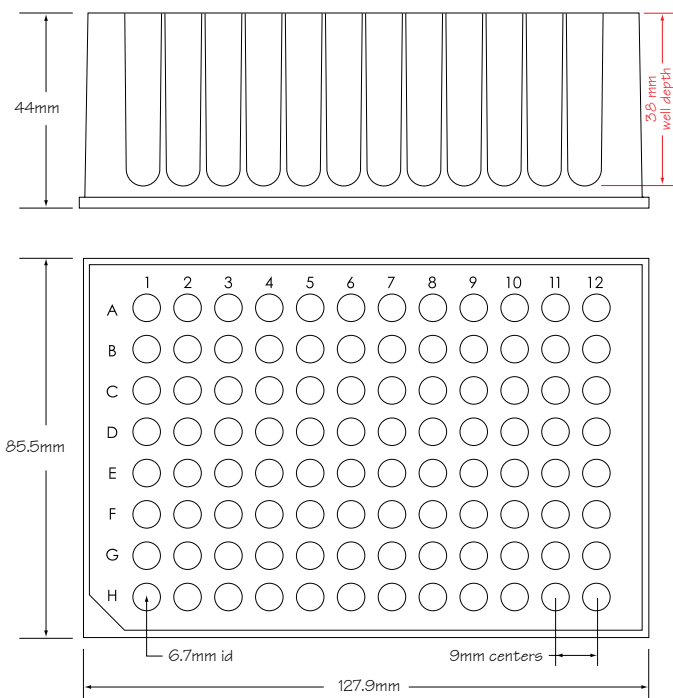


Old Favorite - New Design!
Ultra-clear Polypropylene
Collection Plate

Advantage™ Standard 1mL Collection Plates with Round Wells & Round Bottoms

Cat. No.	Description	Volume	Qty
17P687Z	Round Well/Round Bottom	1mL	20
17P687ZGC	Round Well/Bottom w/ SiliGuard	1mL	20

Sterilized plates are available upon request



TECH NOTE:

Configure in Agilent 1100 Autosampler: "96 DeepAgilent 4.1 mm"

Resealable Silicone/PTFE Coated Round Well Cap Mats

Cat No.	Color	Qty
965007	Purple	5
Ultra Thin Round Well, Soft Silicone/PTFE		
965075	Purple	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		

Cat No.	Color	Qty
963675	Green	5
Round Well, Silicone/PTFE (good for long-term storage at -80°C)		
963670	Green	5
Pre-Slit Round Well, Silicone/PTFE		

Cat No.	Color	Qty
96FSS0	Gray	5
Soft Silicone/PTFE, good with aggressive solvents and shaking		
96FPSO	Gray	5
Pre-Slit Round Well, Soft Silicone/PTFE, good w/ aggressive solvents		

Cat No.	Color	Qty
964007	CLEAR	5
Ultra Thin Round Well, Soft Silicone/PTFE		
964075	CLEAR	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		

Thicker Resealable Cap Mats

Cat No.	Color	Qty
967702	Blue	5
Soft Silicone/PTFE, Better Suited for 2° - 8°C Autosampler Temperatures		
967701	Blue	5
Pre-Slit , Round, Soft Silicone/PTFE		

Polypropylene Round Cap Mats

Cat No.	Color	Qty
96057	CLEAR	5
PP, Pierceable 'X' in Each Well		
96017	CLEAR	5
for Storage Only - up to 120°C		

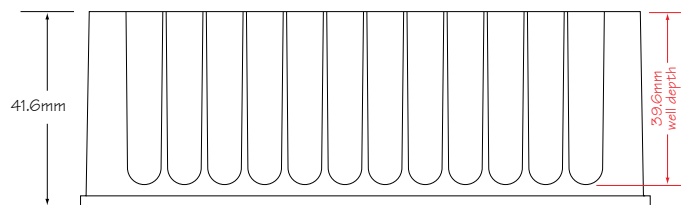
Beige Rubber Cap Mats

Cat No.	Color	Qty
96230	Beige	5
Beige Rubber Cap Mat, Round Well, Reduced Evaporation		
96235	Beige	5
Pre-Slit Beige Rubber Cap Mat, Round		

Pattern Adhesive Sealing Film

Cat No.	Color	Qty
961801	Purple	100
PTFE Adhesive Film, Ultra-thin, Round		
961802	Purple	100
Pre-scored PTFE Adh. Film, Round		
96104	Purple	5
Round 96-Well Adhesive Resealable Silicone Sealing Film		

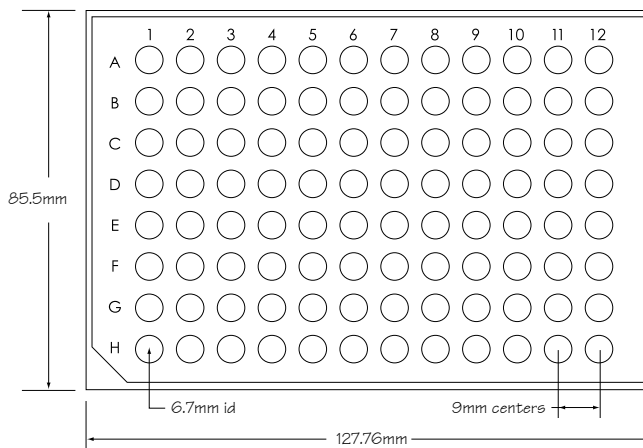
Advantage™ 1 mL 96-Well Collection Plates - Round Well



Advantage™ Clear-Vu™ 1mL Polypropylene Collection Plates with Round Well & Round Bottom

• See-through polypropylene

Cat. No.	Description	Color	Volume	Qty
17P557	Round Well/Round Bottom	CLEAR	1mL	24
17P587G	Round Well/Round Bottom	Green	1mL	24
17P587B	Round Well/Round Bottom	Blue	1mL	24
17P587R	Round Well/Round Bottom	Red	1mL	24
17P587Y	Round Well/Round Bottom	Yellow	1mL	24
17P557GC	Round Well/Bottom w SiliGuard	CLEAR	1mL	24



Resealable Silicone/PTFE Coated Round Well Cap Mats

Cat No.	Color	Qty
965007	Purple	5
Ultra Thin Round Well, Soft Silicone/PTFE		
965075	Purple	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		

Cat No.	Color	Qty
963675	Green	5
Round Well, Silicone/PTFE (<i>good for long-term storage at -80°C</i>)		
963670	Green	5
Pre-Slit Round Well, Silicone/PTFE		

Cat No.	Color	Qty
96FSS0	Gray	5
Soft Silicone/PTFE, <i>good with aggressive solvents and shaking</i>		
96FPSO	Gray	5
Pre-Slit Round Well, Soft Silicone/PTFE, <i>good w/ aggressive solvents</i>		

Cat No.	Color	Qty
964007	CLEAR	5
Ultra Thin Round Well, Soft Silicone/PTFE		
964075	CLEAR	5
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE		

Thicker Resealable Cap Mats

Cat No.	Color	Qty
967702	Blue	5
Soft Silicone/PTFE, Better Suited for 2° - 8°C Autosampler Temperatures		
967701	Blue	5
Pre-Slit , Round, Soft Silicone/PTFE		

Polypropylene Round Cap Mats

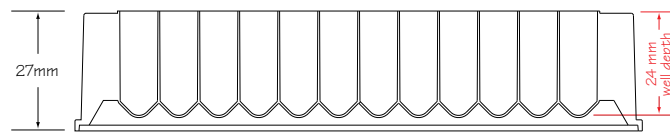
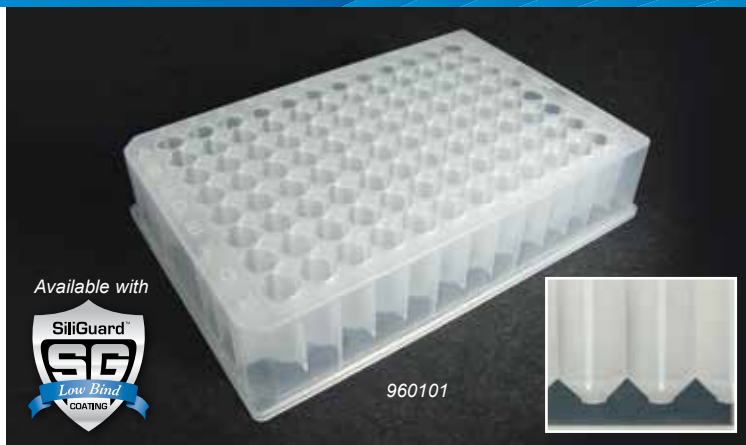
Cat No.	Color	Qty
96057	CLEAR	5
PP, Pierceable 'X' in Each Well		
96017	CLEAR	5
for Storage Only - up to 120°C		

Beige Rubber Cap Mats

Cat No.	Color	Qty
96230	Beige	5
Beige Rubber Cap Mat, Round Well, Reduced Evaporation		
96235	Beige	5
Pre-Slit Beige Rubber Cap Mat, Round		

Pattern Adhesive Sealing Film

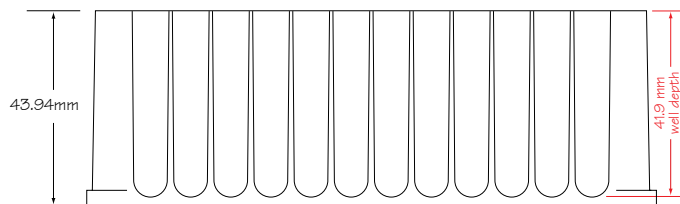
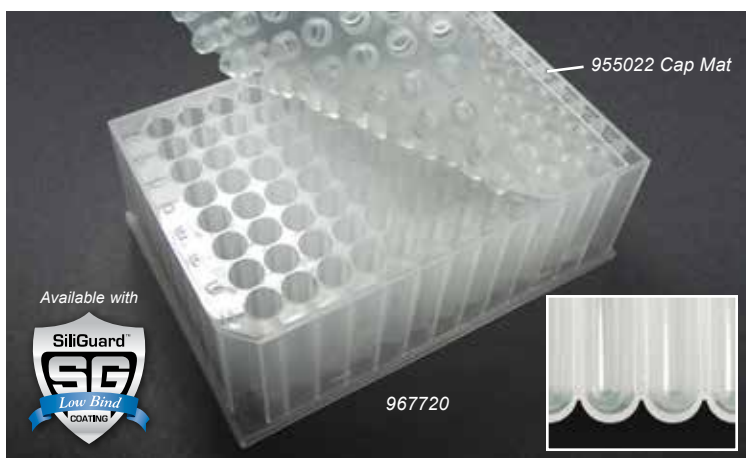
Cat No.	Color	Qty
961801	Purple	100
PTFE Adhesive Film, Ultra-thin, Round		
961802	Purple	100
Pre-scored PTFE Adh. Film, Round		
96104	Purple	5
Round 96-Well Adhesive Resealable Silicone Sealing Film		



Use with Cap Mats 955011 or 955022 (see below for details)

Advantage™ 1 mL Half-Height 96-Well Collection Plate

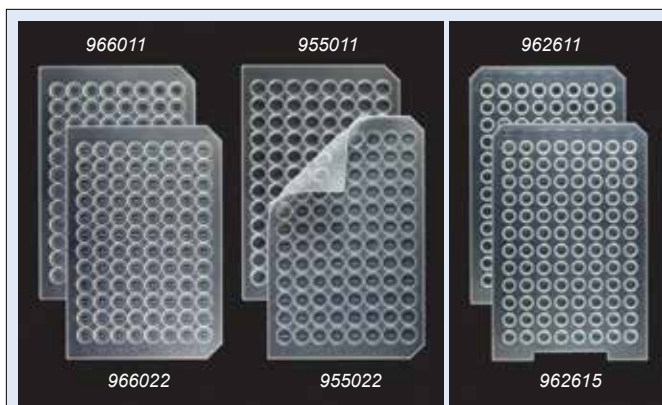
Cat. No.	Description	Volume	Qty
960101	Half-Height, Round Well, Shallow V-Bottom	1mL	32
960101GC	Half-Height, Round Well, Shallow V-Bottom w/ SiliGuard	1mL	32



Use with Cap Mats 955011, 955022, 966011 or 966022 (see below for details)

2 mL Round Well/Round Bottom Collection Plate

Cat. No.	Description	Volume	Qty
967720	2 mL Round Well/Round Bottom 96-Well Collection Plate	2mL	25
967720GC	2 mL Round Well/Round Bottom w/ SiliGuard	2mL	25



Specialty Round 96-Well Silicone/PTFE Cap Mats

Used on Axygen and Nunc™ Collection Plates

Cat. No.	Description	Qty
955011	Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5
955022	Pre-Slit Silicone/PTFE Cap Mat, Shallow Plug, Wider Surface Area	5
966011	Silicone/PTFE Cap Mat, Deeper Plug, Thicker	5
966022	Pre-Slit Silicone/PTFE Cap Mat, Deeper Plug, Thicker	5

Used on Waters® 1 mL, Costar® and VWR Collection Plates

962611	Clear Silicone/PTFE Cap Mat for Low Profile Collection Plates	5
962615	Pre-Slit Clear Silicone/PTFE Cap Mat for Low Profile Collection Plates	5

Advantage™ 2mL 96-Well Collection Plates - Square Well



- 100µL tapered bottom volume
- 2.0mL total volume capacity
- Square well with tapered bottom for **maximum sample recovery**
- See [Tech Note on Page 8](#)

Cat. No.	Description	Volume	Qty
968820	2mL TrueTaper™ Collection Plate	100µL bottom/2.0mL total	25
968820GC	2mL TrueTaper™ with SiliGuard	100µL bottom/2.0mL total	25

Black TrueTaper - for Light Sensitive Compounds

Cat. No.	Description	Volume	Qty
968820BL	2mL TrueTaper, Black	100µL bottom/2.0mL total	25

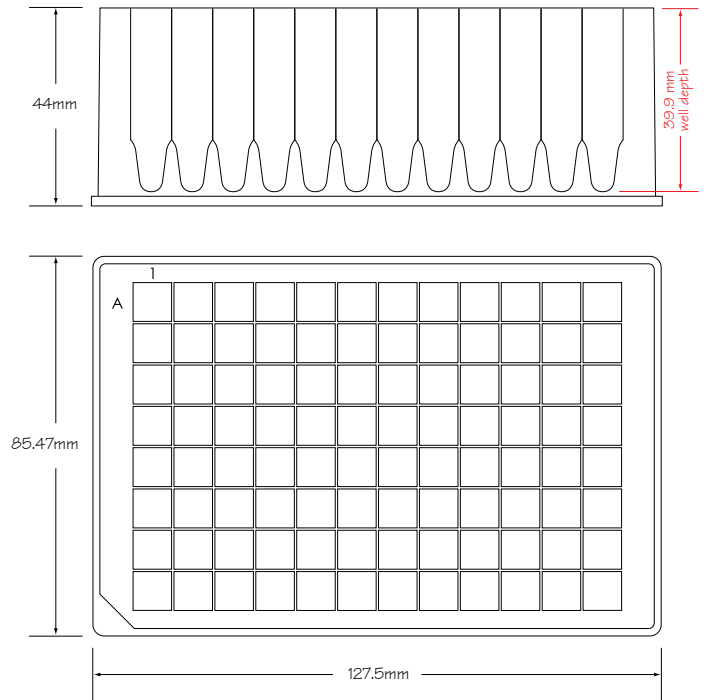


Advantage™ 2mL 96-Well Collection Plates Square Well with **V-Shaped** Bottom

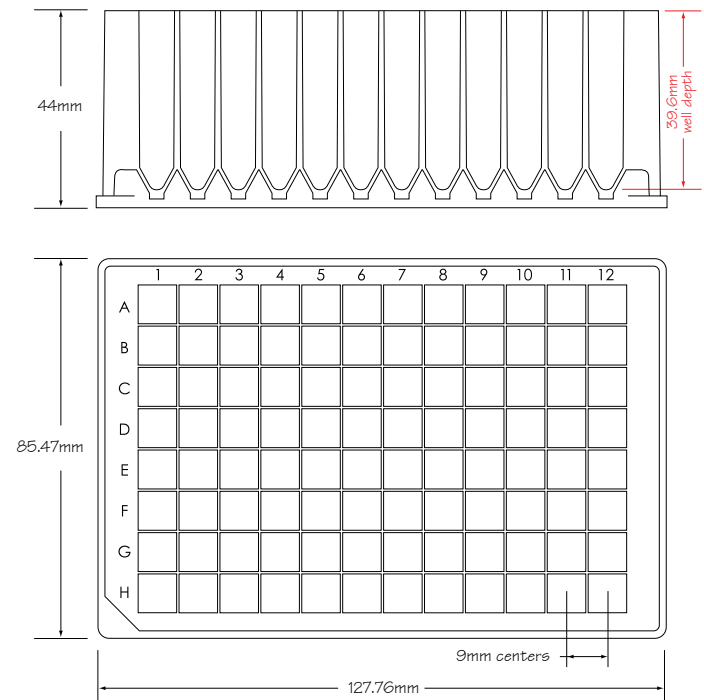
Cat. No.	Description	Material	Volume	Qty
59623-23	Square Top, V-Bottom Collection Plate	PP	2mL	10
59623-23GC	Square Top, V-Bottom w/ SiliGuard	PP	2mL	10
59623-23BK	BLACK Square Top, V-Bottom	PP	2mL	10

TrueTaper™
COLLECTION PLATES

2mL TrueTaper™
96-Well Polypropylene
Collection Plate



Use with these Cap Mats →

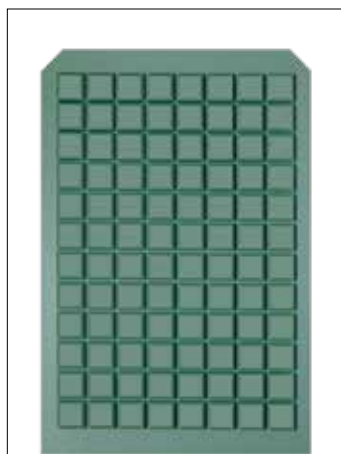


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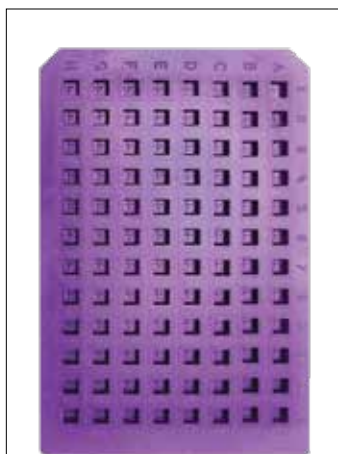
↑ Part no. 59623-23 - Transition from square sides to cone bottom is sloped - NO FLAT LEDGES.

Resealable Silicone/PTFE Coated Cap Mats

- Compatible with all current autosampler needles
- No coring or cross talk
- Fits all standard 96-position blocks
- Reseals after multiple injections
- Pre-slit or non-pre-slit



Cat No.	Color	Qty
963725	Green	5
Square Well, Silicone/PTFE (good for long-term storage at -80°C)		
Cat No.	Color	Qty
963724	Green	5
Pre-Slit Square Well, Silicone/PTFE		



Cat No.	Color	Qty
965008	Purple	5
Ultra Thin Square Well, Soft Silicone/PTFE		
Cat No.	Color	Qty
965085	Purple	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		



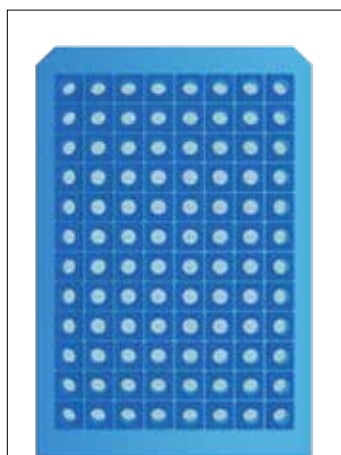
Cat No.	Color	Qty
964008	CLEAR	5
Ultra Thin Square Well, Soft Silicone/PTFE		
Cat No.	Color	Qty
964085	CLEAR	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		



Cat No.	Color	Qty
29660	Gray	5
Square Well, Soft Silicone/PTFE, good with aggressive solvents and shaking		
Cat No.	Color	Qty
29665	Gray	5
Pre-Slit Square Well, Soft Silicone/PTFE, good with aggressive solvents		

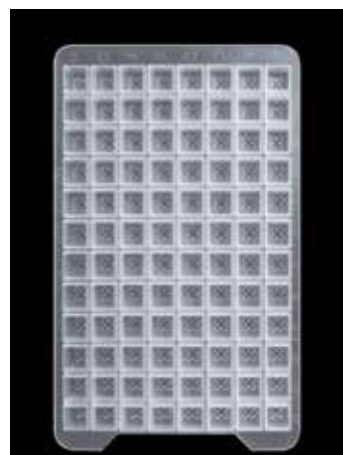
Thicker Resealable Silicone, PTFE Coated Cap Mats

- Use in Shimadzu autosamplers



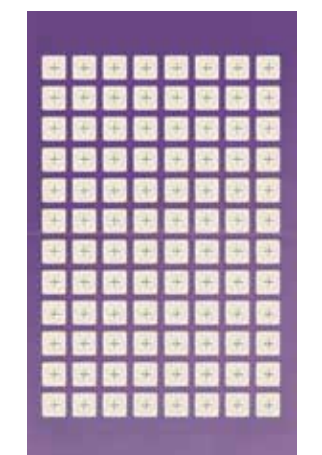
Cat No.	Color	Qty
968802	Blue	5
Square Well, Soft Silicone/PTFE, Better Suited for 2° - 8°C Autosampler Temperatures		
Cat No.	Color	Qty
968801	Blue	5
Pre-Slit Square Well, Soft Silicone/PTFE		

Polypropylene Square Well Cap Mats



Cat No.	Color	Qty
2726	CLEAR	5
2mL Autosampler Compatible Square Cap Mat, Pierceable 'X' on Surface		
Cat No.	Color	Qty
3726	CLEAR	5
2mL Square Cap Mat, Low Temp. (-80°), For Long Term Storage		

Pattern Adhesive PTFE Sealing Film (patented)



Cat No.	Color	Qty
961201	Purple	100
PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin		
Cat No.	Color	Qty
961202	Purple	100
Pre-scored PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin		

Rubber Roller

- Secures cap mat to plate



Cat No.	Qty
96400	Each

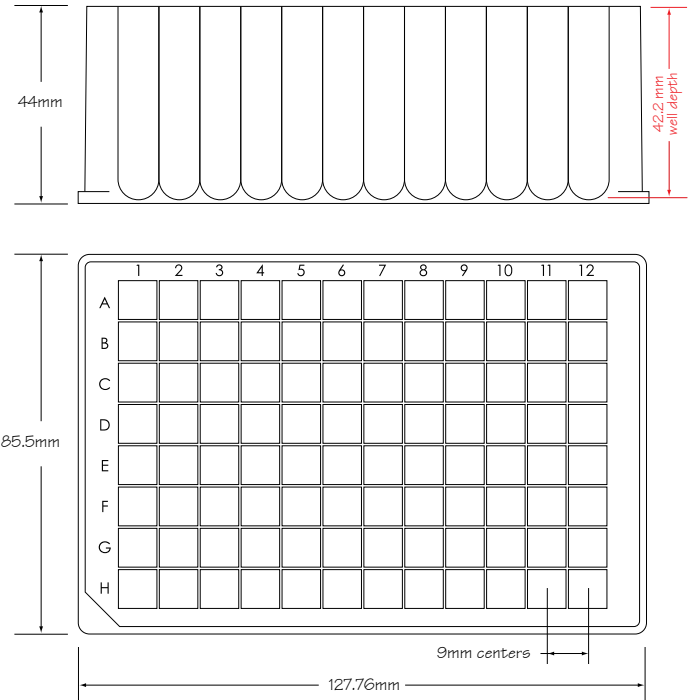
Advantage™ 2mL 96-Well Collection Plates - Square Well



Advantage™ 2mL Polypropylene 96-Well Collection Plates Square Well with Round Bottom

Cat. No.	Description	Material	Volume	Qty
27P687	Square Top, Round Bottom Collection Plate	PP	2mL	20
27P687GC	Square Top, Round Bottom w/ SiliGuard	PP	2mL	20

Sterilized plates are available upon request



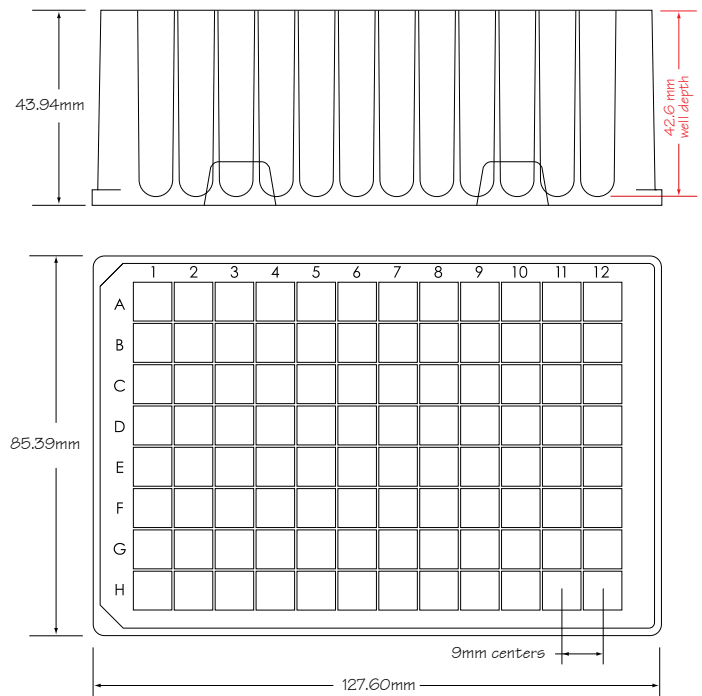
Advantage™ Clear-Vu™ 2mL 96-Well Collection Plates Square Well with Round Bottom

• See-through polypropylene

Cat. No.	Description	Color	Volume	Qty
27P557	Square Well, Round Bottom	CLEAR	2mL	24
27P557G	Square Well, Round Bottom	Green	2mL	24
27P557B	Square Well, Round Bottom	Blue	2mL	24
27P557R	Square Well, Round Bottom	Red	2mL	24
27P557Y	Square Well, Round Bottom	Yellow	2mL	24
27P557GC	Square Well, Round Bottom w/ SiliGuard	CLEAR	2mL	24

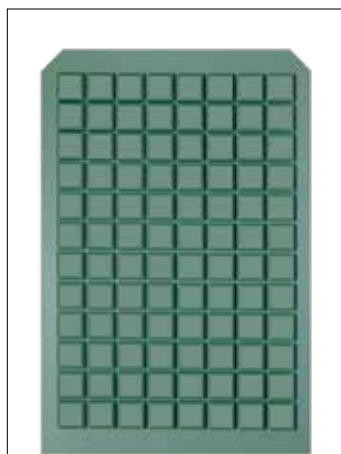


Use with these Cap Mats →

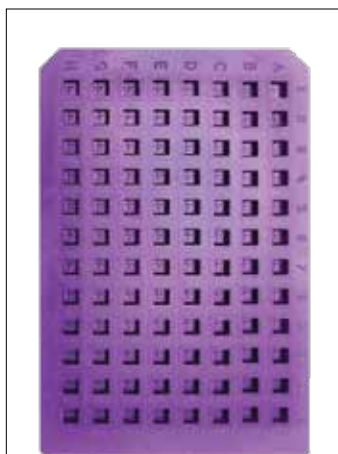


Resealable Silicone/PTFE Coated Cap Mats

- Compatible with all current autosampler needles
- No coring or cross talk
- Fits all standard 96-position blocks
- Reseals after multiple injections
- Pre-slit or non-pre-slit



Cat No.	Color	Qty
963725	Green	5
Square Well, Silicone/PTFE (good for long-term storage at -80°C)		
Cat No.	Color	Qty
963724	Green	5
Pre-Slit Square Well, Silicone/PTFE		



Cat No.	Color	Qty
965008	Purple	5
Ultra Thin Square Well, Soft Silicone/PTFE		
Cat No.	Color	Qty
965085	Purple	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		



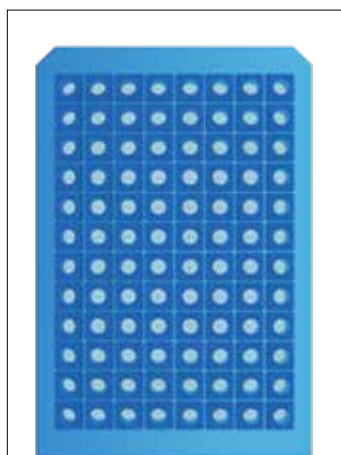
Cat No.	Color	Qty
964008	CLEAR	5
Ultra Thin Square Well, Soft Silicone/PTFE		
Cat No.	Color	Qty
964085	CLEAR	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		



Cat No.	Color	Qty
29660	Gray	5
Square Well, Soft Silicone/PTFE, good with aggressive solvents and shaking		
Cat No.	Color	Qty
29665	Gray	5
Pre-Slit Square Well, Soft Silicone/PTFE, good with aggressive solvents		

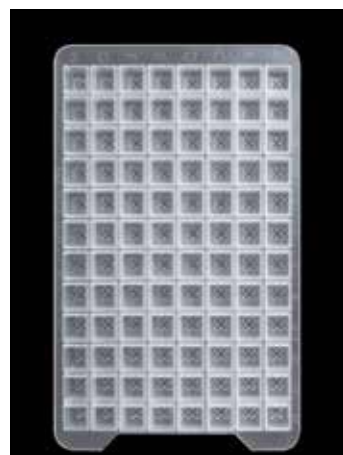
Thicker Resealable Silicone, PTFE Coated Cap Mats

- Use in Shimadzu autosamplers



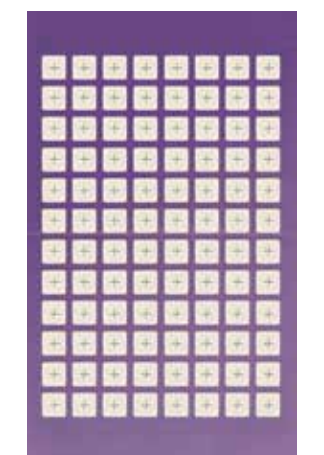
Cat No.	Color	Qty
968802	Blue	5
Square Well, Soft Silicone/PTFE, Better Suited for 2° - 8°C Autosampler Temperatures		
Cat No.	Color	Qty
968801	Blue	5
Pre-Slit Square Well, Soft Silicone/PTFE		

Polypropylene Square Well Cap Mats



Cat No.	Color	Qty
2726	CLEAR	5
2mL Autosampler Compatible Square Cap Mat, Pierceable 'X' on Surface		
Cat No.	Color	Qty
3726	CLEAR	5
2mL Square Cap Mat, Low Temp. (-80°), For Long Term Storage		

Pattern Adhesive PTFE Sealing Film (patented)



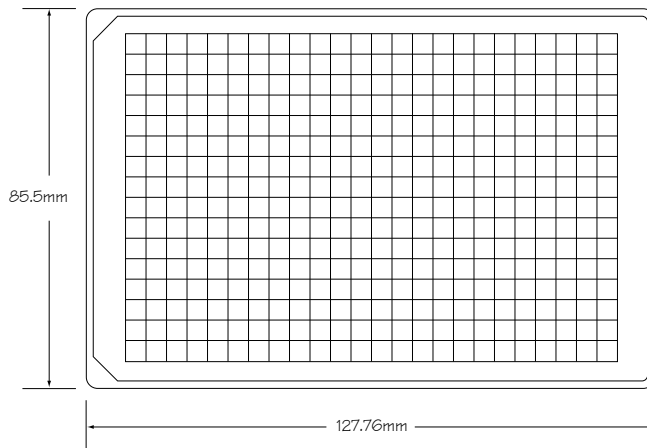
Cat No.	Color	Qty
961201	Purple	100
PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin		
Cat No.	Color	Qty
961202	Purple	100
Pre-scored PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin		

Rubber Roller

- Secures cap mat to plate



Cat No.	Qty
96400	Each

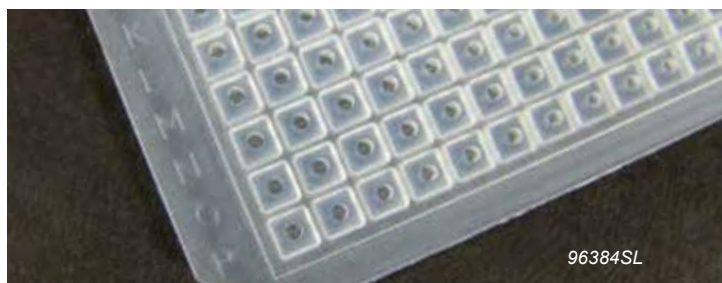
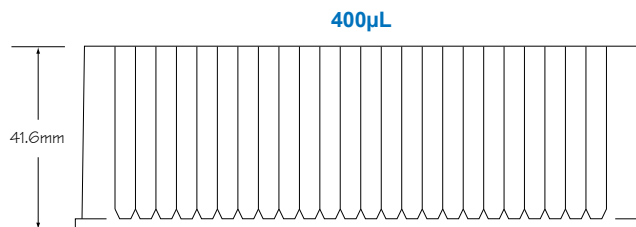
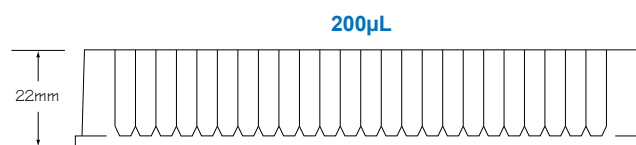
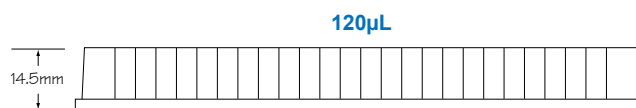


384-Well Collection Plates – Square Well

Cat. No.	Description	Qty
38435	0.35mL, Square Opening, Spherical Bottom, Clear Polypropylene, 58µL per well	60
38120	Polypropylene, Square Well, 120µL, Clear	24

Cat. No.	Description	Qty
38200	200µL, Polypropylene, Square Well, Clear	24
38200B	200µL, Polypropylene, Square Well, Blue	24
38200G	200µL, Polypropylene, Square Well, Green	24
38200R	200µL, Polypropylene, Square Well, Red	24
38200Y	200µL, Polypropylene, Square Well, Yellow	24

Cat. No.	Description	Qty
38400	400µL, Polypropylene, Square Well, Clear	24
38400B	400µL, Polypropylene, Square Well, Blue	24
38400G	400µL, Polypropylene, Square Well, Green	24
38400R	400µL, Polypropylene, Square Well, Red	24
38400Y	400µL, Polypropylene, Square Well, Yellow	24

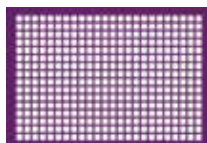


384-Well Soft Silicone Cap Mats & Accessories

Cat. No.	Description	Qty
96384	Molded Soft Silicone, 384-Well Square Well Cap Mat	5
96384SL	Molded Soft Silicone, 384-Well Pre-Slit Square Well Cap Mat	5
96400	4" Rubber Roller (Used to secure Cap Mat to Plate)	1

384 Square Well Purple Pattern Adhesive PTFE (Teflon®) Sealing Film

Cat. No.	Description	Qty
38402	384 Square Well Purple Pattern Adhesive PTFE Sealing Film	100



1536-Well Collection Plates – Square Well

Cat. No.	Description	Qty
15020	Polystyrene, Square Top/Square Bottom, 20µL	60

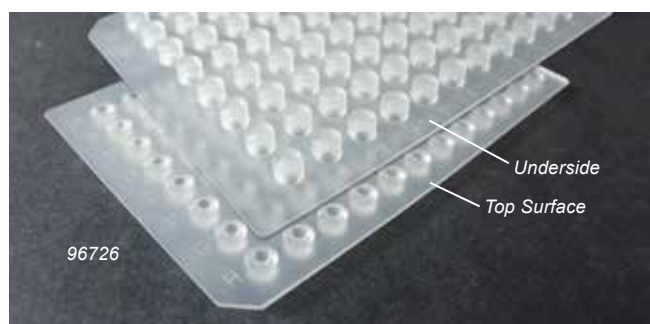
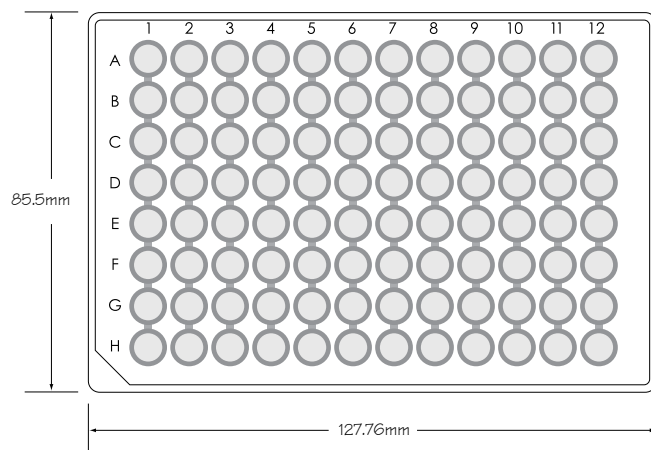
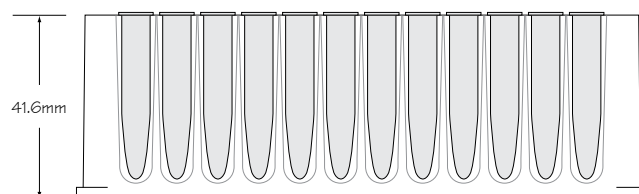




Deep Well Plates with 600µL 8-Tube Strips

These plates feature 600 µl wells for smaller volume applications. They include a deep well plate along with twelve eight-tube strips.

Cat. No.	Description	Qty
96865	96-Well Storage Rack with Removable 600µL Wells	24
96888	Strip of 8 600µL Tubes	600



Cap Mats for 600µL Polypropylene Tubes

Cat. No.	Description	Qty
96726	PCR Silicone Cap Mat with 6mm Plugs	5
96727	PCR Pre-slit Silicone Cap Mat with 6mm Plugs	5
96727-8	6mm Pre-Slit Silicone/PTFE Plug Strips for 96-Well Collection Plates, PCR Plates & Inserts (8 plugs/strip)	60

Plug Caps for 600µL Polypropylene Tubes

Cat. No.	Description	Qty
96845	Domed Cap Strips, 8 Caps/Strip	125
96840	Domed Cap Strips, 12 Caps/Strip	125
96855	Flat Cap Strips, Pierceable , 8 Caps/Strip	125

PRODUCT TIP:

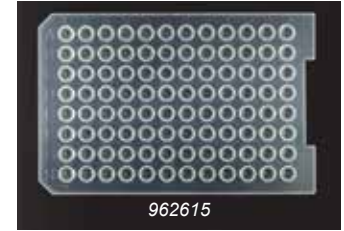
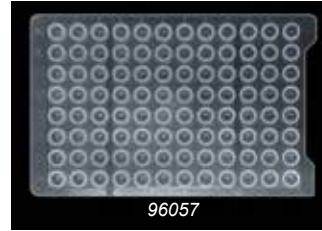
For more options of individual tubes in a 96-well format, look at Flexi-Tier (page 26), Collection Plates w/Inserts (page 31-33) and the new Select-A-Vial (page 34).



Bar code printing available, contact ASAS for more details

1.2mL Polypropylene Tubes in 96-Well Blocks

Cat. No.	Description	Qty
96961-1	96-Well Storage Rack with 96 Individual Tubes, Non-sterile	10
96812-1	96-Well Storage Rack with 8 Strips of 12 Tubes, Non-sterile	10
96128-1	96-Well Storage Rack with 12 Strips of 8 Tubes, Non-sterile	10
96120	1.2ml Individual Tubes, Non-sterile	4800



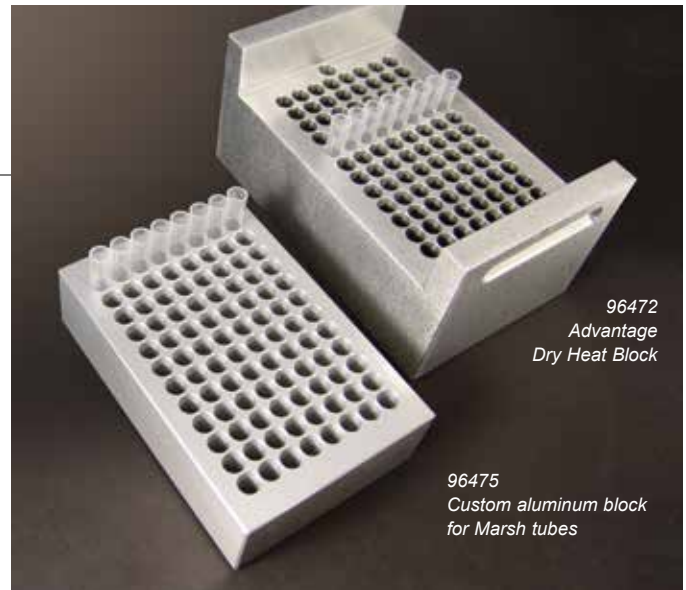
Cap Mats for 1.2mL Polypropylene Tubes

Cat. No.	Description	Qty
96057	1mL Autosampler Compatible, Clear PP Cap Mat, Pierceable X	20
962615	<i>Pre-Slit</i> 96-well Clear Silicone/PTFE Cap Mat	5

Plug Caps for 1.2mL Polypropylene Tubes

- For mixing and long-term storage
- Not recommended for autosampler

Cat. No.	Description	Qty
96812-2	Strips of 12 Plug Caps	80
96128-2	Strips of 8 Plug Caps	120
96962-2	Individual Plug Caps	960



Custom Aluminum Dry Heat Blocks

Cat. No.	Description	Qty
96472	Aluminum Dry Heat Block	Each
96475	Aluminum Dry Heat Block for Marsh Tubes	Each



12-Well Aluminum Block

Cat. No.	Description	Qty
12349	12-Well Aluminum Block	Each

PRODUCT NOTE:

We can manufacture to your specifications in a variety of materials.



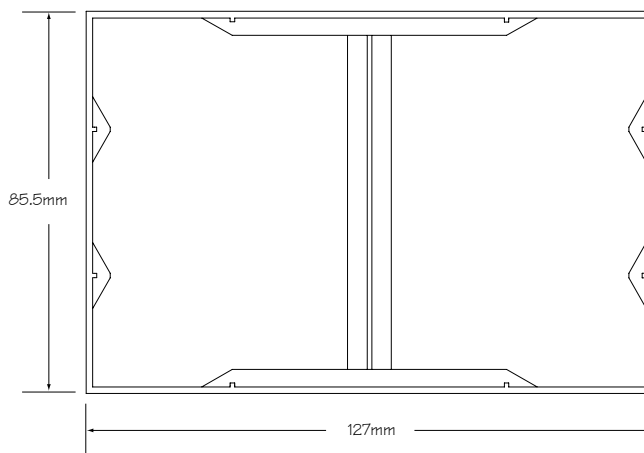
TECH NOTE:
 Suitable for temperatures down to -80°C

Autoclavable 2mL Polypropylene Tubes in 96-Well Blocks

Cat. No.	Description	Qty
96550-00	96-Well Storage Rack, Non Sterile, with Tubes	10
96526-12	Mat Cover for 96550-00 (Can be Split into Strips of 8 Caps)	10
96520	Individual 2mL Tubes	4800
96521	Low Surface Tension 2mL Tubes	4800

Bar code printing available, contact ASAS for more details

Reservoirs, Trough Plates & Basins



ClickBio VBLOK™ 200 Reservoir/Collection Plate

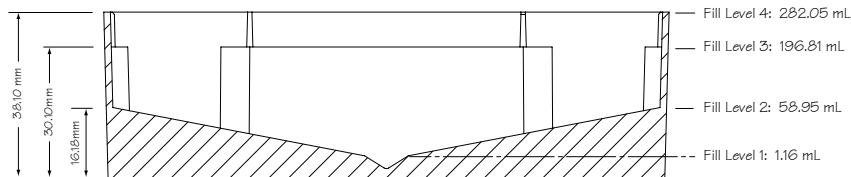
High capacity, low dead volume
 Transfer liquid without using tips

As a Reservoir

- Capacity: 282 mL
- Material: Virgin medical grade polypropylene
- Graduation mark at 200 mL for visual reference
- ANSI: SLAS standard
- Certified DNase/RNase & Pyrogen free

As a Collection Plate

- Locating features (see Fill Level 3, above) hold an inverted microplate
- Tested to support over 100 kg for liquid transfers using centrifugation



ClickBio VBLOK™ 200

Cat. No.	Description	Qty
20099	Reagent Reservoir / Collection Plate	25



Cat. No.	Format	Partitions	Qty
96473	Rows	4 Rows	25
Deep Well PP Reservoir, 73mL/row, 292mL max, Height: 44mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
32082	Rows	8 Rows	25
Low Profile PP Reservoir, 10.6mL/Row, 85mL max, Height: 19mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
32008	Rows	8 Rows	25
Deep Well PP Reservoir, 32mL/row, 256mL max, Height: 44mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
47005	Columns	12 Columns	25
Low Profile PP Reservoir, 7mL/column, 84mL max, Height: 19mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
21012	Columns	12 Columns	25
Deep Well PP Reservoir, 21mL/column, 252mL max, Height: 44mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
32018	Rows	16 Rows	25
Low Profile PP Reservoir, 4.9mL/Row, 78mL max, Height: 19mm, Well Bottom Shape: Pyramid			



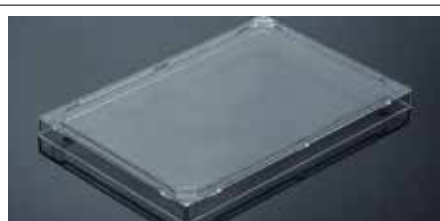
Cat. No.	Format	Partitions	Qty
24296	Columns	24 Columns	25
Low Profile PP Reservoir, 3.3mL/column, 78mL max, Height: 19mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
47025	Special	12 Columns, 2 Rows	25
Low Profile PP Reservoir, 3.5mL/column, 84mL max, Height: 19mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
47006	Columns	6 Columns, 24-Well Base	25
Deep Well PP Reservoir, 47mL/column, 282mL max, Height: 44mm, Well Bottom Shape: Pyramid			



Reservoir/Collection Plate Lids

• Universal, 96-Well Robot Compatible

Cat. No.	Description	Qty
69500	Reservoir Lid, Clear	100
69500BK	Reservoir Lid, Black	100

Disposable Basins

Angled Sides, V-Bottom, 55mL

Cat. No.	Description	Qty
DSBWPS	Disposable Basin, White PS	100
DSBPVC	Disposable Basin, Clear PVC	100



Cat. No.	Format	Partitions	Qty
38422	Open	None	25

Low Profile PP Reservoir, 90mL max Volume, Height: 19mm, Well Bottom Shape: Flat



Cat. No.	Format	Partitions	Qty
47170	Open	None, 12 Column Base	25

Half Height PP Reservoir, no partitions, 170mL max, Height: 30.6mm, Column Shape: Pyramid



Cat. No.	Format	Partitions	Qty
96173	Open	None, 96-Well Base	25

Deep Well PP Reservoir, 287mL max Volume, Height: 44mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
38481	Open	None, 384 Well Base	25

Low Profile PP Reservoir, 92mL max Volume, Height: 19mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
38455	Open	None, 384 Well Base	25

Half Height PP Reservoir, 170mL max Volume, Height: 30.6mm, Well Bottom Shape: Flat



Cat. No.	Format	Partitions	Qty
38471	Open	None, 384 Well Base	25

Deep Well PP Reservoir, 282mL max Volume, Height: 44mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
38485	Special	4 Controls, 24 Column Base	25

Low Profile PP Reservoir, 3.25mL/control, 86.3mL main, Height: 19mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
38444	Special	4 Controls, 384-Well Base	25

Half Height PP Reservoir, 2.6mL/control, 155mL main, Height: 30.6mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
38477	Special	2 Controls, 384-Well Base	25

Deep Well PP Reservoir, 7mL & 2mL/control, 273mL main, Height: 30.6mm, Bottoms: Pyramid



Cat. No.	Format	Partitions	Qty
962144	Columns	2 Columns	25

Deep Well PP Reservoir, 144mL/Column, 288mL max, Height: 44mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
960395	Columns	3 Columns	25

Deep Well PP Reservoir, 95mL/Column, 285mL max, Height: 44mm, Well Bottom Shape: Pyramid



Cat. No.	Format	Partitions	Qty
96733	Columns	4 Columns	25

Deep Well PP Reservoir, 73mL/column, 292mL max, Height: 44mm, Well Bottom Shape: Pyramid



V-Troughs

Cat. No.	Description	Qty
96013	12 Column V-Trough, Clear PETG, 3mL/Channel	5
96012	8 Row V-Trough, White Polystyrene, 3mL/Channel	5
55001	Polypropylene dual reservoir with Lid, 50mL on one side, flip over - 12, 5mL wells on opposite side	25



Storage/Assay 24 & 48 Well Plates - *Ideal for use in automated liquid handlers*



Cat. No.	Format	Partitions	Qty
24108	24-Well	6 Columns, 4 Rows	25
Deep Well PP Square Well Storage/Reaction Microplate, 10mL/well, 240mL max, Height: 44mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Partitions	Qty
24727	24-Well	6 Columns, 4 Rows	25
Deep Well PP Square Well Storage/Reaction Microplate, 10mL/well, 240mL max, Height: 44mm, Well Bottom Shape: Round			



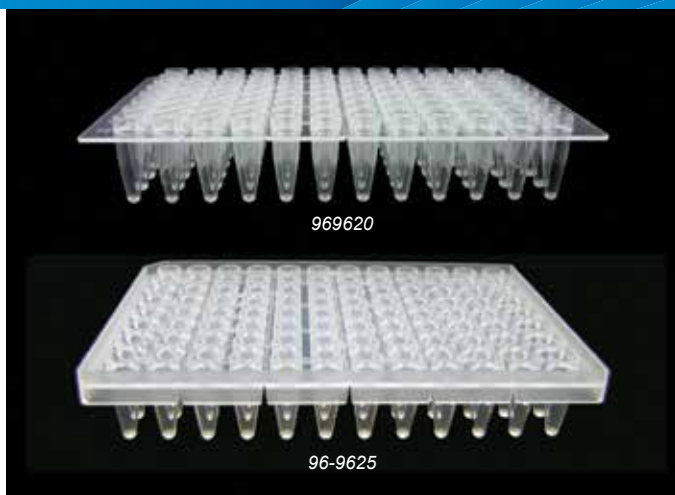
Cat. No.	Format	Qty
24777	24-Well	5
Silicone/PTFE Cap Mat for 24-well Collection Plates		



Cat. No.	Format	Partitions	Qty
48685	48-Well	6 Columns, 8 Rows	25
Deep Well PP Rectangle Well Collection Plate, 5mL/well, Height: 44mm, Well Bottom Shape: Pyramid			



Cat. No.	Format	Qty
48010CM	48-Well	100
Pierceable Santoprene Cap Mat for 48-Well Plates, White		



Raised Rim Thin Wall PCR Plates

- Ideal for automated pipetting systems
- Perfect rigidity for robotic handling
- Suited for high performance thermal cycling
- Easy sample recovery due to non-wettable surface

Available with



Cat. No.	Description	Qty
969620	Clear 250µL PCR Plate, 3mm Rim Around Each Well, Clear <i>(Alternative to Robbins Plate)</i>	100
969620B	Clear 250µL PCR Plate, 3mm Rim Around Each Well, Blue	100
969620Y	Clear 250µL PCR Plate, 3mm Rim Around Each Well, Yellow	100
96-9625	Clear 250µL PCR Plate, 3mm Rim Around Each Well, <i>(Alternative to Corning® Plate)</i>	100

Thin Wall PCR Plates

- Each well has 0.2mL capacity
- Can be used with all leading thermal cyclers
- Thin Walled – Can Be Cut Into Sections

Available with



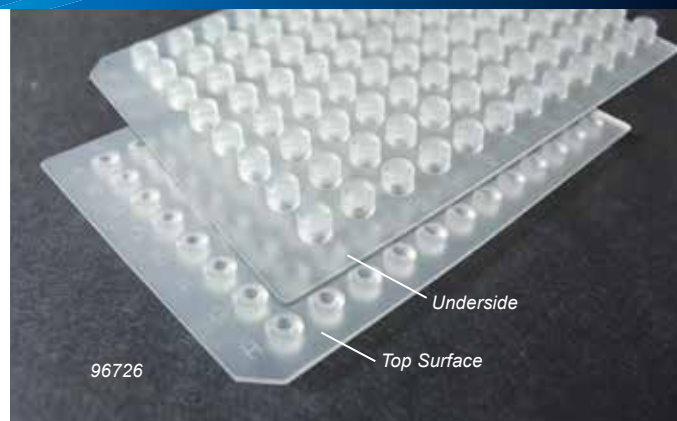
Cat. No.	Description	Qty
969610	Clear 200µL PCR Plate, Flat Well Rim	100
969610B	Blue 200µL PCR Plate, Flat Well Rim	100



Standard No-Cut PCR Plates

Cat. No.	Description	Qty
96100	Clear 100µL Skirted Low Profile Plate	100
96100GC	Clear 100µL Skirted Low Profile Plate w/ SiliGuard	100
96100B	Blue 100µL Skirted Low Profile Plate	100
For chemical illuminiscent and fluorescent procedures:		
96323	White 100µL Skirted Low Profile PCR Plate	100
96323B	Black 100µL Skirted Low Profile PCR Plate	100

Available with



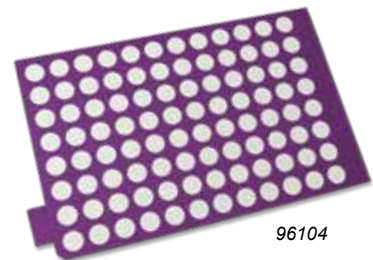
Cap Mats for PCR Plates

Cat. No.	Description	Qty
96726	PCR Silicone Cap Mat	5
96727	PCR Pre-slit Silicone Cap Mat	5
96727-8	PCR Pre-slit Silicone Plug Strips (8 plugs/strip, 6mm Plugs)	60



Pattern Adhesive Resealable Silicone Sealing Film (patented)

Adhesive-free Target Area



Cat. No.	Description	Qty
96104	Round 96-Well Adhesive Silicone Sealing Film	5

See page 5 for full details on pattern adhesive film.

Pattern Adhesive PTFE (Teflon®) Sealing Film (patented)

Cat. No.	Description	Qty
961801	Purple PTFE Adhesive Film, Round 96-Well Pattern, Ultra-thin	100
96893	White Teflon Film, Round 96-Well Pattern	100
96823	Black Teflon Film, Round 96-Well Pattern	100



Standard Sealing Films

- Temperature range -40°C to 120°C
- Sterile films also available - call for pricing

Cat. No.	Description	Qty
968120	Aluminum Foil Film for PCR, 1.5mils, Pierceable	100
964012	Clear Polypropylene Film for PCR, 2mils, <i>not pierceable</i>	100

PCR® is a Registered Trademark of Hoffman-LaRoche.

Flexi-Tier™

- Unique design for maximum flexibility
- Adjusts to various heights
- Accommodates 0.5 - 2mL vials
- Compatible with all autosampler & robotic systems
- Can be centrifuged to 2500 RPMs
- Open bottom base allows immersion
- Total fluid contact with vials for even heat or cold transfer



Compatible with all autosampler & robotic systems



96-Position Flexi-Tier™ Complete Opaque Systems* Heat Resistance up to 80°C

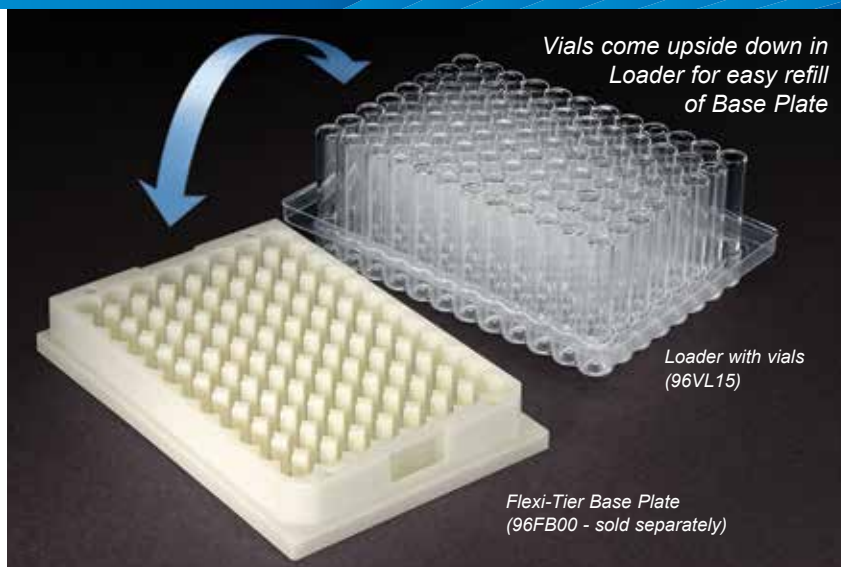
Cat. No.	Size	Material & Style	Base	Qty
96FP05	0.5mL	Clear Conical Glass	Opaque	Each
96FP10	1.0mL	Clear Conical Glass	Opaque	Each
96FP15	1.5mL	Clear Conical Glass	Opaque	Each
96F220	2.0mL	Clear Conical Glass	Opaque	Each
96F220A	2.0mL	Amber Conical Glass	Opaque	Each
96PV05	0.5mL	Conical Polypropylene	Opaque	Each
96PV10	1.0mL	Conical Polypropylene	Opaque	Each
96PV15	1.5mL	Conical Polypropylene	Opaque	Each
96PV20	2.0mL	Conical Polypropylene	Opaque	Each
96BB05	0.5mL	Clear Flat Bottom Glass	Opaque	Each
96BB10	1.0mL	Clear Flat Bottom Glass	Opaque	Each
96BB15	1.5mL	Clear Flat Bottom Glass	Opaque	Each
96FP20	2.0mL	Clear Flat Bottom Glass	Opaque	Each

96-Position Flexi-Tier™ Complete Clear Systems* Heat Resistance up to 150°C

Cat. No.	Size	Material & Style	Base	Qty
96FP05-C	0.5mL	Clear Conical Glass	Clear	Each
96FP10-C	1.0mL	Clear Conical Glass	Clear	Each
96FP15-C	1.5mL	Clear Conical Glass	Clear	Each
96F220-C	2.0mL	Clear Conical Glass	Clear	Each
96F220A-C	2.0mL	Amber Conical Glass	Clear	Each
96PV05-C	0.5mL	Conical Polypropylene	Clear	Each
96PV10-C	1.0mL	Conical Polypropylene	Clear	Each
96PV15-C	1.5mL	Conical Polypropylene	Clear	Each
96PV20-C	2.0mL	Conical Polypropylene	Clear	Each
96BB05-C	0.5mL	Clear Flat Bottom Glass	Clear	Each
96BB10-C	1.0mL	Clear Flat Bottom Glass	Clear	Each
96BB15-C	1.5mL	Clear Flat Bottom Glass	Clear	Each
96FP20-C	2.0mL	Clear Flat Bottom Glass	Clear	Each

* All Systems Include Pre-Scored PTFE/Silicone Flat Liner (96FSC1) and Cover.

Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.



Glass Inserts in Loader

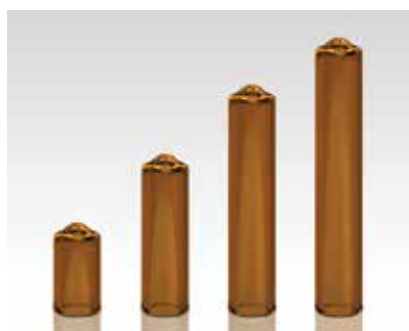
Cat. No.	Type	Style	Volume	Qty
96FV05	Conical	Clear	0.5mL	96
96FV10	Conical	Clear	1.0mL	96
96FV15	Conical	Clear	1.5mL	96
96FV20	Conical	Clear	2.0mL	96
96FV05A	Conical	Amber	0.5mL	96
96FV10A	Conical	Amber	1.0mL	96
96FV15A	Conical	Amber	1.5mL	96
96FV20A	Conical	Amber	2.0mL	96
96VL05	Flat Bottom	Clear	0.5mL	96
96VL10	Flat Bottom	Clear	1.0mL	96
96VL15	Flat Bottom	Clear	1.5mL	96
96VL20	Flat Bottom	Clear	2.0mL	96
96VL05A	Flat Bottom	Amber	0.5mL	96
96VL10A	Flat Bottom	Amber	1.0mL	96
96VL15A	Flat Bottom	Amber	1.5mL	96
96VL20A	Flat Bottom	Amber	2.0mL	96

Silanized Glass Inserts in Loader

96FV05-S	Conical	Clear	0.5mL	96
96FV10-S	Conical	Clear	1.0mL	96
96FV15-S	Conical	Clear	1.5mL	96
96FV20-S	Conical	Clear	2.0mL	96
96FV20A-S	Conical	Amber	2.0mL	96
96VL05-S	Flat Bottom	Clear	0.5mL	96
96VL10-S	Flat Bottom	Clear	1.0mL	96
96VL15-S	Flat Bottom	Clear	1.5mL	96
96VL20-S	Flat Bottom	Clear	2.0mL	96
96VL20A-S	Flat Bottom	Amber	2.0mL	96



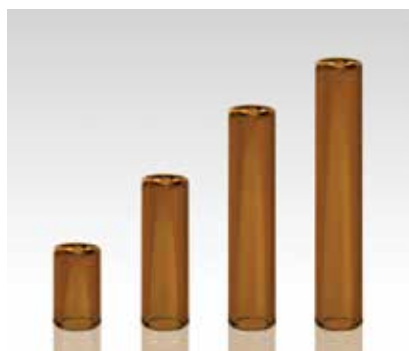
Conical Bottom Clear Glass Vials



Conical Bottom Amber Glass Vials



Flat Bottom Clear Glass Vials



Flat Bottom Amber Glass Vials

Bulk, Loose Glass Inserts

Cat. No.	Type	Style	Volume	Qty
96F005	Conical	Clear	0.5mL	100
96F010	Conical	Clear	1.0mL	100
96F015	Conical	Clear	1.5mL	100
96F020	Conical	Clear	2.0mL	100
96F005A	Conical	Amber	0.5mL	100
96F010A	Conical	Amber	1.0mL	100
96F015A	Conical	Amber	1.5mL	100
96F020A	Conical	Amber	2.0mL	100
96F605	Flat Bottom	Clear	0.5mL	100
96F610	Flat Bottom	Clear	1.0mL	100
96F615	Flat Bottom	Clear	1.5mL	100
96F620	Flat Bottom	Clear	2.0mL	100
96F625	Flat Bottom	Clear	2.5mL	100
96F605A	Flat Bottom	Amber	0.5mL	100
96F610A	Flat Bottom	Amber	1.0mL	100
96F615A	Flat Bottom	Amber	1.5mL	100
96F620A	Flat Bottom	Amber	2.0mL	100

Polypropylene Inserts in Loader

Cat. No.	Type	Style	Volume	Qty
96PL05	Conical	PP	0.5mL	96
96PL10	Conical	PP	1.0mL	96
96PL15	Conical	PP	1.5mL	96
96PL20	Conical	PP	2.0mL	96

PP Inserts w/ Siliguard in Loader

96PL05GC	Conical	PP	0.5mL	96
96PL10GC	Conical	PP	1.0mL	96
96PL15GC	Conical	PP	1.5mL	96
96PL20GC	Conical	PP	2.0mL	96

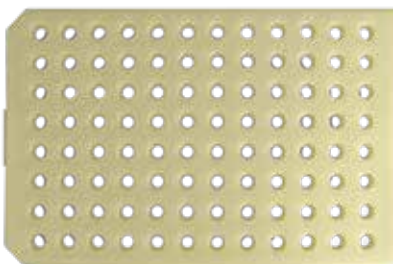
Bulk, Loose PP Inserts

Cat. No.	Type	Style	Volume	Qty
96P005	Conical	PP	0.5mL	100
96P010	Conical	PP	1.0mL	100
96P015	Conical	PP	1.5mL	100
96P020	Conical	PP	2.0mL	100

Bulk, Loose PP Inserts w/ Siliguard

96P005GC	Conical	PP	0.5mL	100
96P010GC	Conical	PP	1.0mL	100
96P015GC	Conical	PP	1.5mL	100
96P020GC	Conical	PP	2.0mL	100

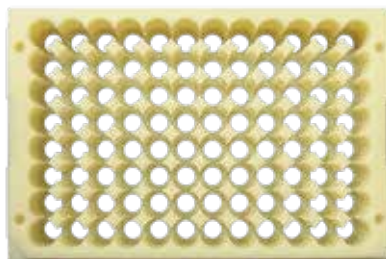




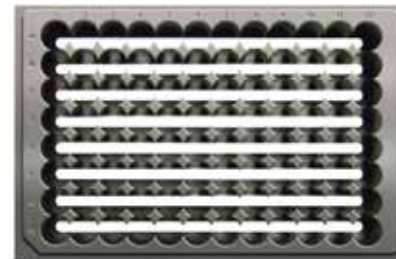
96FC00



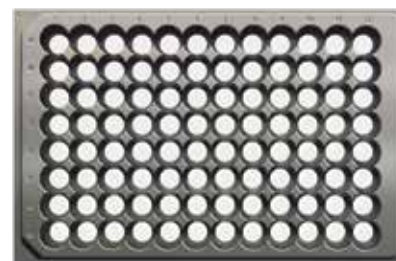
96FB00



96RB00



96AB11



96AB74



96AB22

Flexi-Tier™ Collection Plate Accessories

Cat. No.	Description	Qty
96FS00-C	Clear Spacer	Each
96FC00-C	Clear Cover	5
96FB00-C	Clear Base Plate	Each
96FC00	Opaque Cover	5
96FS00	Opaque Spacer	Each
96FB00	Opaque Slotted Bottom Base Plate	Each
96RB00	Opaque Round Hole Bottom Base Plate	Each
96AB11	Aluminum Base Plate Slotted/Open Bottom	Each
96AB74	Aluminum Open Round Bottom Base	Each
96AB22	Aluminum Base Plate Solid Bottom	Each

Advantage™ 96-Well Aluminum Base Plates

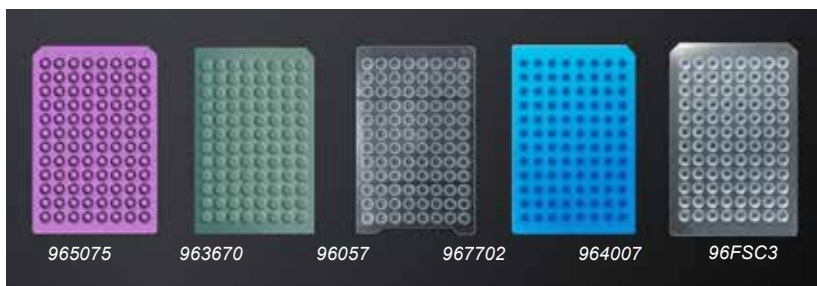
- Solid aluminum base design is perfect for platform heating/cooling devices
- Superb conductivity for uniform vial heating and cooling, and can be immersed in heating/cooling liquids for total fluid contact with the vials
- Ideal for volatile solvents, salt screening, high throughput solubility & physical characterization

Cat. No.	Description	Qty
96A002	TALL Aluminum Base Plate	Each

Tall Aluminum Base Plate provides more consistent heating/cooling of 1.5mL and 2mL vials.



96A002



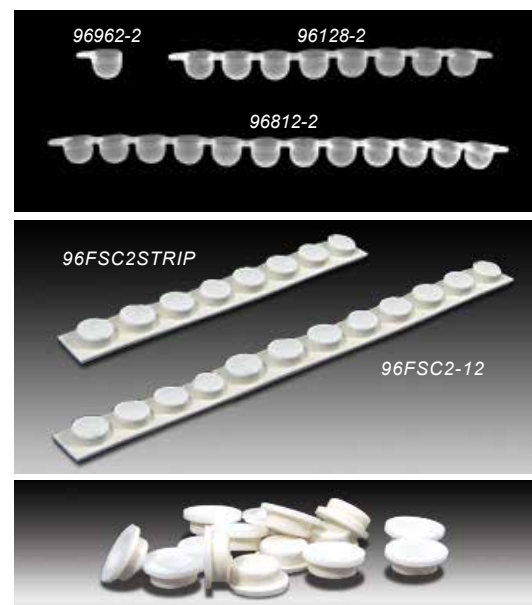
Cap Mats For Flexi-Tier & Aluminum Collection Systems

Cat. No.	Description	Qty
965007	Ultra Thin Round Well, Soft Silicone/PTFE, Purple	5
965075	Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE, Purple	5
963675	Round Well, Silicone/PTFE, Green	5
963670	Pre-Slit Round Well, Silicone/PTFE, Green	5
96057	1mL Autosampler Compatible Round Cap Mat, Polypropylene with 'X' on Surface, Clear	20
967702	Round Well Molded Soft Silicone, Blue	5
967701	Pre-Slit Round Well Molded Soft Silicone, Blue	5
964007	Ultra Thin Round Well w/ Molded Soft Silicone, Clear	5
96FSC2	Molded PTFE/Silicone Liner, White	5
96FSC3	Pre-Scored Molded PTFE/Silicone Liner, White	5
96FSC4	Molded Silicone Liner (Standard with Aluminum Systems)	5
96FSC5	Pre-Scored Molded Silicone Liner, White	5
96FSC3STRIP	Pre-Scored Molded PTFE/Silicone 8 Position Strip Liner	12
96FSC3PLUG	Pre-Scored Molded PTFE/Silicone Single Plug	100
96FSC2STRIP	Molded PTFE/Silicone 8 Position Strip Liner, White	12
96FSC2-12	Molded PTFE/Silicone 12 Position Strip Liner, White	8
96FSC2PLUG	Molded PTFE/Silicone Single Plug, White	100

Polypropylene Plugs

- For mixing and long-term storage
- Not recommended for autosampler

Cat. No.	Description	Qty
96812-2	Strips of 12 Plug Caps	80
96128-2	Strips of 8 Plug Caps	120
96962-2	Individual Plug Caps	960



96FSC2PLUG

Advantage™ 96-Well Aluminum Collection System for High Throughput

- Samples are securely contained without possibility of crosstalk.
- System fits liquid handling systems and autosamplers.



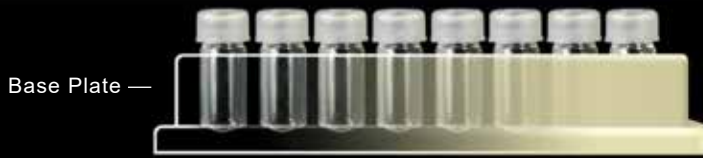
Cat. No.	Description	Qty
96A105	Complete 0.5mL Aluminum Block System with Conical Clear Glass Inserts	Each
96A110	Complete 1.0mL Aluminum Block System with Conical Clear Glass Inserts	Each
96A115	Complete 1.5mL Aluminum Block System with Conical Clear Glass Inserts	Each
96A120	Complete 2.0mL Aluminum Block System with Conical Clear Glass Inserts	Each
96F105	Complete 0.5mL Aluminum Block System with Flat Bottom Clear Glass Inserts	Each
96F110	Complete 1.0mL Aluminum Block System with Flat Bottom Clear Glass Inserts	Each
96F115	Complete 1.5mL Aluminum Block System with Flat Bottom Clear Glass Inserts	Each
96F120	Complete 2.0mL Aluminum Block System with Flat Bottom Clear Glass Inserts	Each

Replacement Parts

96A001	Aluminum 96-Well Solid Bottom Base Plate w/ Tapped Holes in Each Corner	Each
96AB77	Aluminum 96-Well Round Hole Bottom Base Plate, Tapped Holes in Each Corner	Each
96B002	Aluminum 96-Well Block System Slotted Cover	Each
96050	Stainless Steel Screws for 0.5mL Aluminum 96-Well Block System	4
96010	Stainless Steel Screws for 1.0mL Aluminum 96-Well Block System	4
96015	Stainless Steel Screws for 1.5mL Aluminum 96-Well Block System	4
96020	Stainless Steel Screws for 2.0mL Aluminum 96-Well Block System	4
96FSC4	Molded Silicone Liner (Standard with Aluminum Systems)	5



Flexi-Tier Base & Spacers with Snap & Seal Glass Vials



Base Plate —

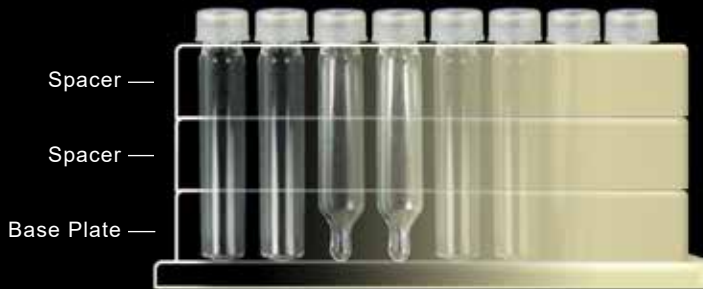
For 0.5mL vials (96922), use the Flexi-Tier Base Plate only.



Spacer —

Base Plate —

For 0.75mL vials (96936 & 96938), use the Flexi-Tier Base Plate and one spacer.



Spacer —

Spacer —

Base Plate —

For 1.0mL vials (96946 & 96948), use the Flexi-Tier Base Plate and two spacers.

Flexi-Tier Base and Spacer Accessories

- 0.5mL system requires base plate only
- 0.75mL system requires base plate & one spacer
- 1.0mL system requires base plate & two spacers

Cat. No.	Description	Qty
96FB00	Opaque Base Plate	Each
96FS00	Opaque Spacer	Each
96FB00-C	Clear Base Plate	Each
96FS00-C	Clear Spacer	Each

Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.



Snap & Seal Glass Vials for Flexi-Tier System

Cat. No.	Description	Qty
96922	Conical Clear Glass 0.5mL Snap & Seal Vial	100
96936	Conical Clear Glass 0.75mL Snap & Seal Vial	100
96938	Tapered Clear Glass 0.75mL Snap & Seal Vial	100
96946	Conical Clear Glass 1.0mL Snap & Seal Vial	100
96948	Tapered Clear Glass 1.0mL Snap & Seal Vial	100
96950	Flat Bottom Clear Glass 2.0mL Snap & Seal Vial	100

Snap & Seal Glass Vials for Flexi-Tier System – Silanized

Cat. No.	Description	Qty
96922S	Silanized Conical Clear 0.5mL Snap & Seal Vial	100
96936S	Silanized Conical Clear 0.75mL Snap & Seal Vial	100
96938S	Silanized Tapered Clear 0.75mL Snap & Seal Vial	100
96946S	Silanized Conical Clear 1.0mL Snap & Seal Vial	100
96948S	Silanized Tapered Clear 1.0mL Snap & Seal Vial	100
96950S	Flat Bottom Clear Glass 2.0mL Snap & Seal Vial	100

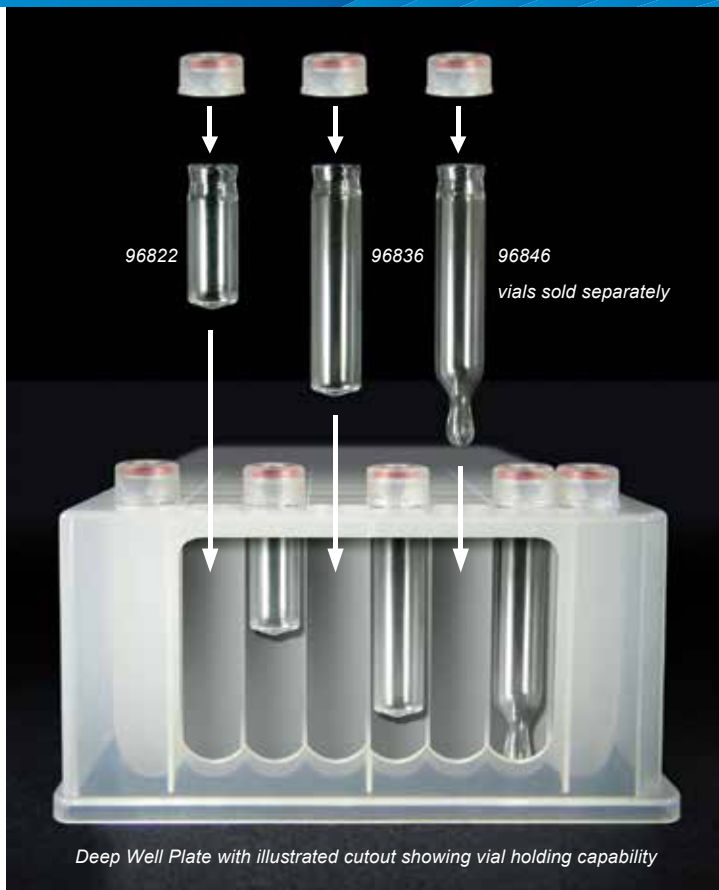


Snap & Seal Caps for Flexi-Tier Conical and Tapered Vials

Cat. No.	Description	Qty
96030	PTFE Lined Cap	100
96040	PTFE/Butyl Rubber Lined Cap	100
96080	PTFE/Silicone Lined Cap	100
96060	PTFE/Silicone/PTFE Lined Cap	100
96070	Pre-Slit PTFE/Silicone Lined Cap	100

PRODUCT NOTE:

All glass inserts and vials can be silanized. Call for part numbers.



Standard 2mL Deep Well Plates

Cat. No.	Description	Qty
27P687	Advantage™ 2mL 96-well Polypropylene Plate Square Top, Round Bottom	20

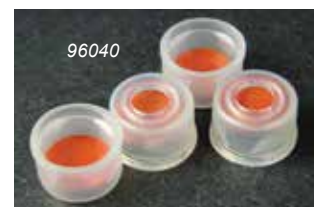
Snap & Seal Vials for Standard 2mL Deep Well Plates

- Designed to fit standard square-top 96-well plates
- Compatible with autosamplers & robotic systems
- 10µl residual
- 8mm OD

Cat. No.	Description	Qty
96822	Conical Clear Glass 0.40mL Snap & Seal Vial	100
96836	Conical Clear Glass 0.75mL Snap & Seal Vial	100
96846	Tapered Clear Glass 0.80mL Snap & Seal Vial	100

Snap & Seal Vials for Standard 2mL Deep Well Plates – Silanized

Cat. No.	Description	Qty
96822S	Silanized Conical Clear Glass 0.40mL Snap & Seal Vial	100
96836S	Silanized Conical Clear Glass 0.75mL Snap & Seal Vial	100
96846S	Silanized Tapered Clear Glass 0.80mL Snap & Seal Vial	100



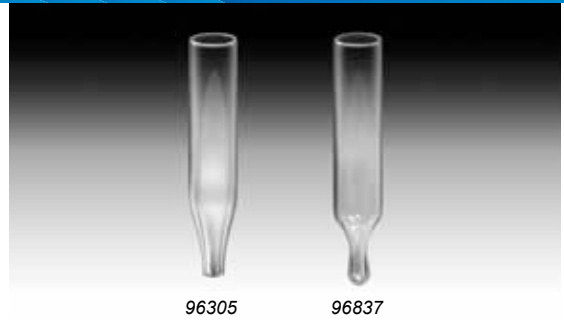
Snap & Seal Caps for Conical and Tapered Vials

Cat. No.	Description	Qty
96030	PTFE Lined Cap	100
96040	PTFE/Butyl Rubber Lined Cap	100
96080	PTFE/Silicone Lined Cap	100
96060	PTFE/Silicone/PTFE Lined Cap	100
96070	Pre-Slit PTFE/Silicone Lined Cap	100

Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.

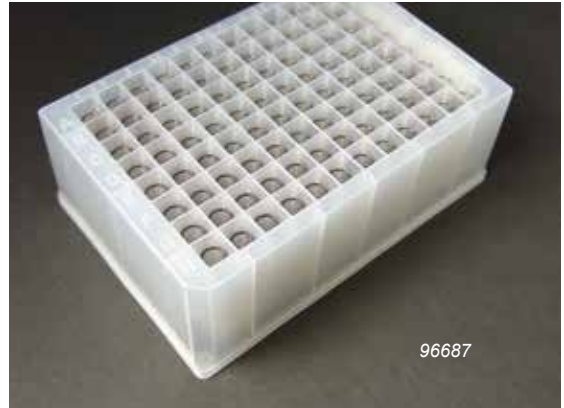
Loose & Assembled 0.7mL Flat Bottom Inserts

Cat. No.	Description	Qty
96305	0.7mL Flat Bottom Glass Inserts	100
96382	96-Well Plate (27P687), 0.7mL Flat Bottom Glass Inserts	1
96326	96-Well Plate (27P687), 0.7mL Flat Bottom Glass Inserts, 2mL Polypropylene Pierceable Cap Mat with "X" on Surface	1
96380	96-Well Plate (27P687), 0.7mL Flat Bottom Glass Inserts, Pre-Slit Silicone/PTFE Cap Mat, Pre-Assembled	1
96385	96-Well Plate (27P687), 0.7mL Flat Bottom Glass Inserts, CLEAR Ultra Thin Silicone/PTFE Cap Mat, Pre-Assembled	1



Loose & Assembled 0.7mL Tapered Inserts

Cat. No.	Description	Qty
96837	Tapered 0.7mL Glass Inserts	100
96687	96-Well Plate (27P687), Tapered 0.7mL Glass Inserts	1
96627	96-Well Plate (27P687), Tapered 0.7mL Glass Inserts, Polypropylene Cap Mat	1
96685	96-Well (27P687) Plate with Tapered 0.7mL Glass Inserts and Purple Ultra Thin Pre-Slit Square Cap Mat, Pre-Assembled	1



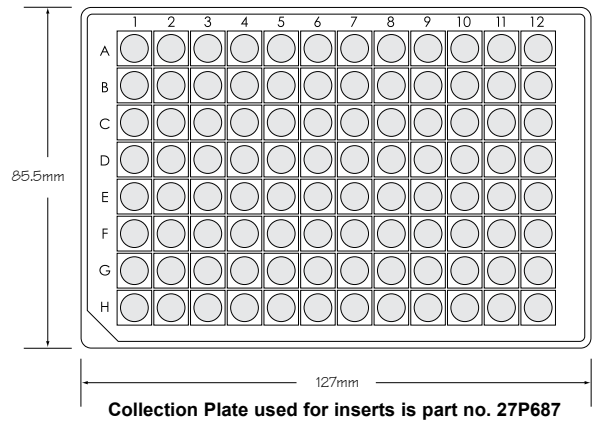
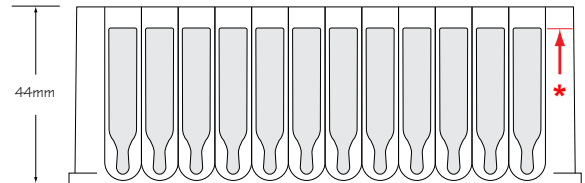
Loose & Assembled 0.7mL Inserts - Silanized

Cat. No.	Description	Qty
96305S	Flat Bottom 0.7mL Silanized Glass Inserts	100
96326S	Flat Bottom 0.7mL Silanized Glass Inserts with Cap Mat & Plate	1
96837S	Tapered 0.7mL Silanized Glass Inserts	100
96687S	96-Well Plate (27P687), Tapered 0.7mL Silanized Glass Inserts	1
96627S	96-Well Plate (27P687) with Silanized Tapered 0.7mL Glass Inserts and Pierceable Polypropylene Cap Mat, Pre-Assembled	1

* 0.7mL glass inserts do not reach the top surface of the collection plate - use these **square-well** cap mats:

96-Well Square Cap Mats

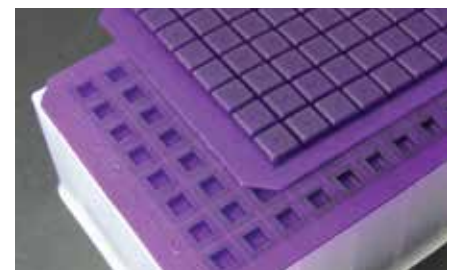
Cat. No.	Description	Qty
2726	2mL Autosampler Compatible Square PP Cap Mat with 'X' on Surface	20
964008	CLEAR Ultra Thin Silicone/PTFE Square Cap Mat	5
964085	CLEAR Pre-Slit , Ultra Thin Silicone/PTFE Square Cap Mat	5
965008	Purple Ultra Thin Silicone/PTFE Square Mighty Mat	5
965085	Purple Pre-Slit , Ultra Thin Silicone/PTFE Square Mighty Mat	5



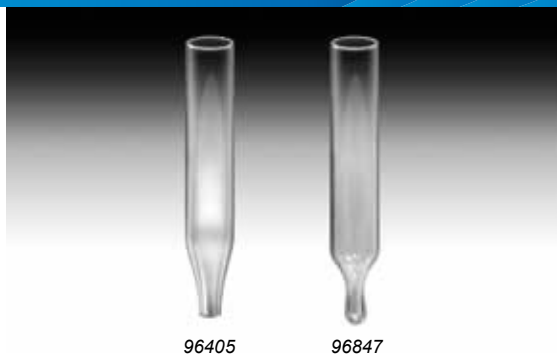
2726



964085



965085



96405

96847



961879

Loose & Assembled 1mL Flat Bottom Inserts

Cat. No.	Description	Qty
96405	1mL Flat Bottom Glass Inserts	100
96481	96-Well Plate, 1mL Flat Bottom Glass Inserts	1
96485	96-Well Plate, 1mL Flat Bottom Glass Inserts, Clear Silicone/PTFE Cap Mat	1
96490	96-Well Plate, 1mL Flat Bottom Glass Inserts, Pre-slit Clear Silicone/PTFE Cap Mat	1
96489	96-Well Plate, 1mL Flat Bottom Glass Inserts, Pre-slit Blue Silicone/PTFE Cap Mat	1
96426	96-Well Plate, 1mL Flat Bottom Glass Inserts, Sealing Silicone Cap Mat	1

Loose & Assembled 1mL Tapered Inserts

Cat. No.	Description	Qty
96847	Tapered 1mL Glass Inserts	100
96681	96-Well Plate, Tapered 1mL Glass Inserts	1
99861	96-Well Plate, Tapered 1mL Glass Inserts, Clear Silicone/PTFE Cap Mat	1
99862	96-Well Plate, Tapered 1mL Glass Inserts, Pre-slit Clear Silicone/PTFE Cap Mat	1
961879	96-Well Plate, Tapered 1mL Glass Inserts, Pre-slit Blue Silicone/PTFE Cap Mat	1

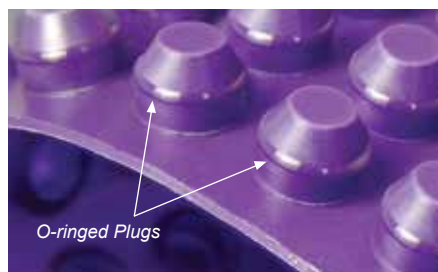
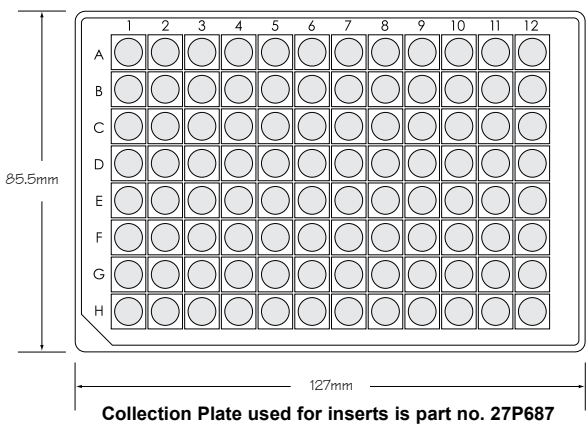
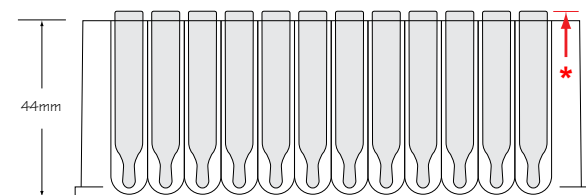
Loose & Assembled 1mL Inserts - Silanized

Cat. No.	Description	Qty
96405S	Flat Bottom 1mL Tapered Silanized Glass Inserts	100
96847S	Tapered 1mL Silanized Glass Inserts	100
96681S	96-Well Plate (27P687), Tapered 1mL Silanized Glass Inserts	1
99862S	96-Well Plate, Tapered 1mL Silanized Glass Inserts, Pre-Slit Clear Silicone/PTFE Cap Mat, Pre-Assembled	1

* 1mL glass Inserts extend beyond the top surface of the collection plate - use these **round-well cap mats**:

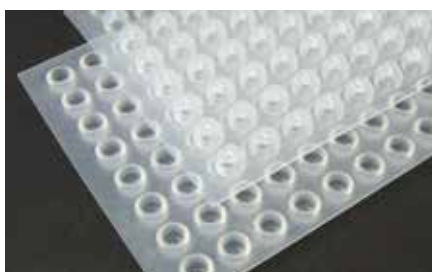
96-Well Round Cap Mats

Cat.No.	Description	Qty
960181	Purple Silicone/PTFE Cap Mat with O-ringed Plugs	5
960185	Purple Pre-Slit Silicone/PTFE Cap Mat with O-ringed Plugs	5
99685	CLEAR Silicone/PTFE Cap Mat for 1mL Tapered Vials	5
99690	CLEAR Pre-Slit Silicone/PTFE Cap Mat for 1mL Tapered Vials	5
99890	Blue Opaque Pre-Slit Silicone/PTFE Cap Mat for 1mL Tapered Vials	5

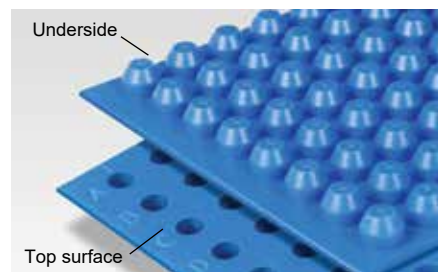


O-ringed Plugs

960181



99690



Underside

Top surface

99890

Select-A-Vial™

Vial Insert/Rack System

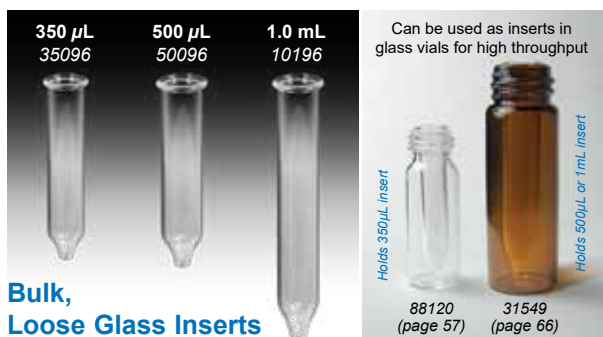
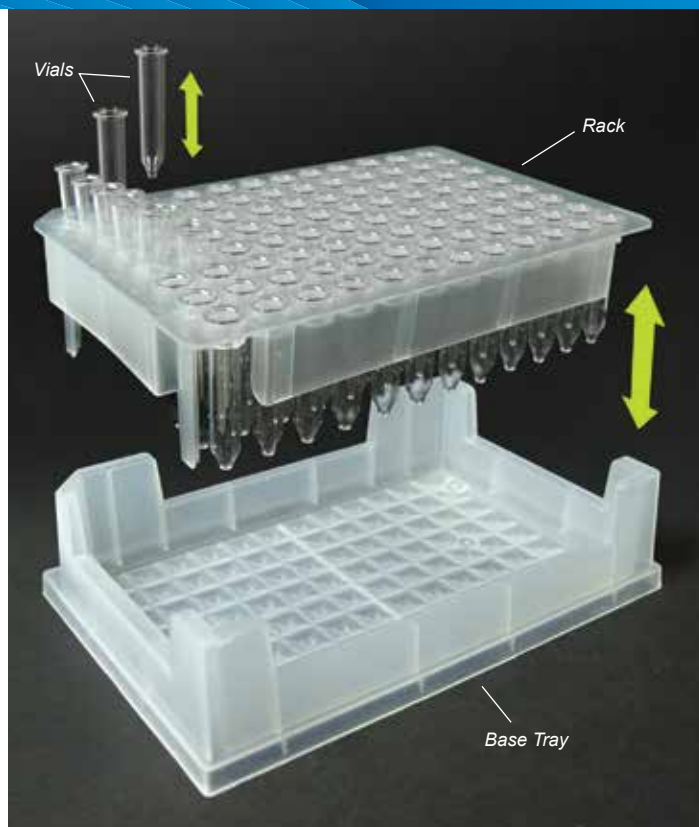
- 96-Well Format
- Universal Base
- 3 Volume/Rack Options
- Accommodates 350µL, 500µL or 1mL Vials
- Seal with Cap Mats

96 Position Select A Vial - Complete System

Cat. No.	Description	Qty
27350	350µL Clear Conical Glass Inserts in Rack and Base Tray	Each
27350S	350µL Silanized Conical Glass Inserts in Rack and Base Tray	Each
27500	500µL Clear Conical Glass Inserts in Rack and Base Tray	Each
27500S	500µL Silanized Conical Glass Inserts in Rack and Base Tray	Each
27001	1.0mL Clear Conical Glass Inserts in Rack and Base Tray	Each
27001S	1.0mL Silanized Conical Glass Inserts in Rack and Base Tray	Each

Assembled Glass Inserts in Racks Only

Cat. No.	Description	Qty
35078	350µL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg
35078S	350µL Silanized Conical Glass Inserts in Rack Only	6 Racks/Pkg
50078	500µL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg
50078S	500µL Silanized Conical Glass Inserts in Rack Only	6 Racks/Pkg
10178	1.0mL Clear Conical Glass Inserts in Rack Only	6 Racks/Pkg
10178S	1.0mL Silanized Conical Glass Inserts in Rack Only	6 Racks/Pkg

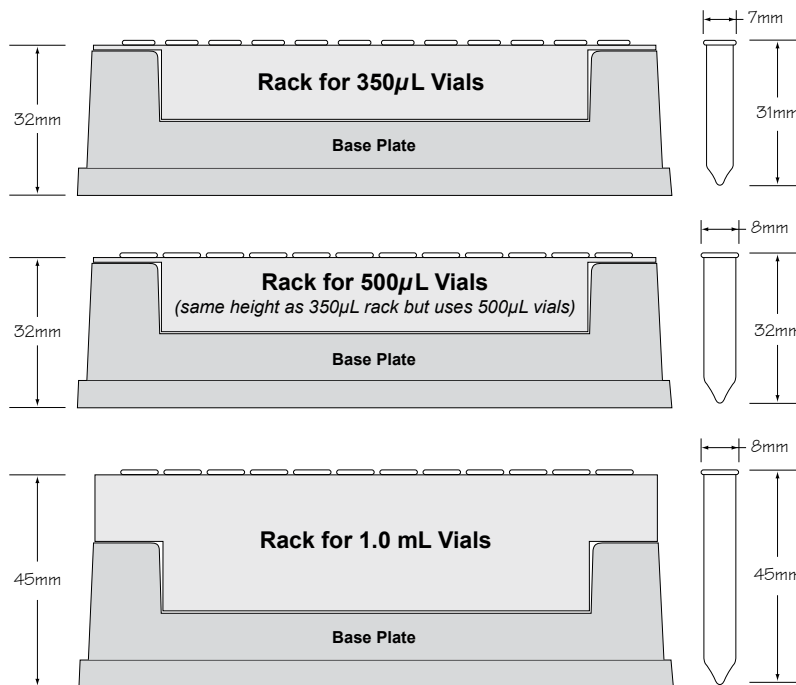


Bulk, Loose Glass Inserts

Cat. No.	Description	Qty
35096	350µL Clear Conical Glass Inserts	100
35096S	350µL Silanized Conical Glass Inserts	100
50096	500µL Clear Conical Glass Inserts	100
50096S	500µL Silanized Conical Glass Inserts	100
10196	1.0 mL Clear Conical Glass Inserts	100
10196S	1.0 mL Silanized Conical Glass Inserts	100

Base Tray

Cat. No.	Description	Qty
20096	Clear Base for All Racked Glass Inserts	6



Clear Cap Mats for Select-A-Vial

For 350µL Vials

Cat. No.	Description	Qty
35070	Silicone/PTFE Cap Mat for 350µL Conical Inserts	5
35075	Pre-Slit Silicone/PTFE Cap Mat for 350µL Conical Inserts	5



Beige Rubber Cap Mats for Select-A-Vial

For 500µL & 1.0mL Vials

Cat. No.	Description	Qty
96230	Rubber Cap Mat for 500µL & 1mL Conical Inserts	5
96235	Pre-Slit Rubber Cap Mat for 500µL & 1mL Conical Inserts	5

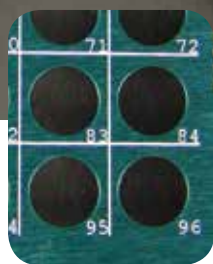
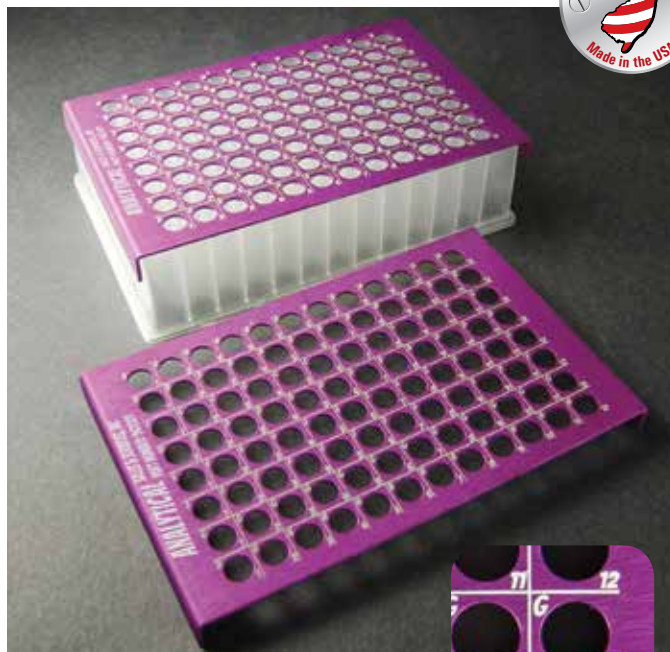
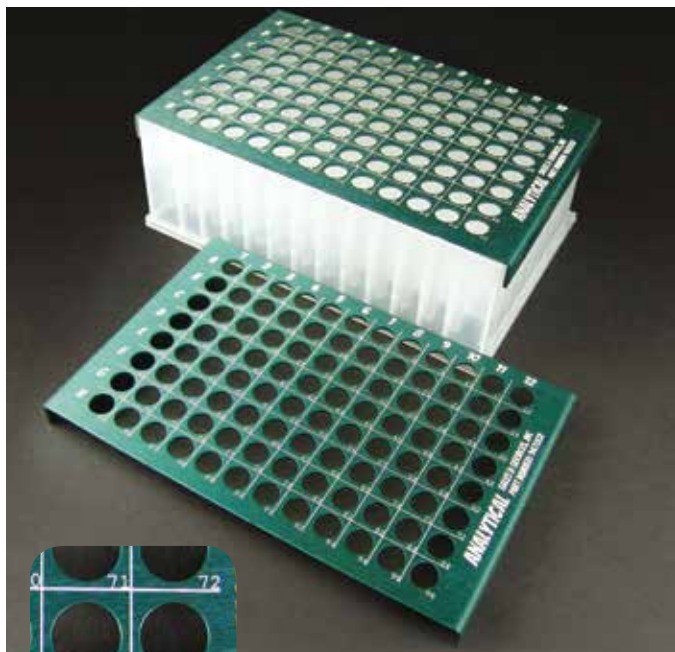
Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.

Numeric & Alpha-Numeric Templates for 96-Well Collection Plates

- Provides easy identification of each well
- Reusable – made of lightweight aluminum
- Low cost



Collection Plates and Accessories



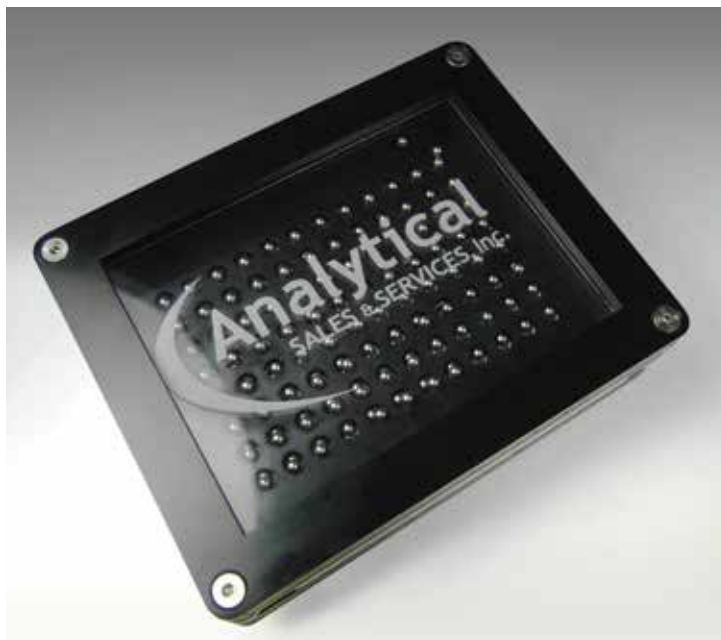
Numeric Template, Green
Numbers only 1-96 in the lower right corners



Alpha-Numeric Template, Purple
Letters A-H in the upper left corners
Numbers 1-12 in the lower right corners

Cat. No.	Description	Qty
96T002	Numeric Template for 96-Well Collection Plates	Each

Cat. No.	Description	Qty
96T001	Alpha-numeric Template for 96-Well Collection Plates	Each



NEW! SpeedyBead™ 96-Well Bead Dropper

- Holds up to 1,000 beads
- Fill up to 10 collection plates before reloading
- Drops one agitator bead into each of the 96 wells simultaneously
- Increases efficiency - reduces prep time
- 100% accuracy - no missed wells, no double-up
- For beads up to 5/32" (0.15625")

Cat. No.	Description	Qty
96T051	Speedy-Bead 96-Well Bead Dropper	Each



See it in Action!
Watch the video at:
<http://www.analytical-sales.com/SpeedyBead-Video.html>



LOI-96FT



LOR-96FT



Foot pedal

**Reduce manual errors,
increase productivity!**

**Light up your 96-well
collection plate samples**

LightOne Illuminator

- Reduces manual pipetting errors
- Highlight a single well or an entire row or column
- Perfect for cluster tubes and glass inserts
- Foot pedal control for easy, hands-free navigation

The LightOne Illuminator is a compact, bench top pipetting aid for enhanced visualization of 96-well plates. It provides illumination of specific wells during dispensing and as a stand-alone device, requires no computer interface. The illumination may be advanced manually or automatically using a user-defined time interval. It reduces errors associated with manual pipetting into 96-well plates and increases the confidence of the operator in delivering the correct reagent or sample to the intended well.

LightOne Red

- For Real Time PCR
- No need to pipette in the dark or dim environment
- Selective illumination to accommodate light sensitive reagents
- No bleaching of fluorescent dyes
- Same functions as the LightOne Illuminator

Cat. No.	Description	Qty
LOI-96FT	LightOne Illuminator	Each
LOR-96FT	LightOne Red	Each

* Includes Power Supply, Foot Pedal, Viewing Frame & Tilt Stand!



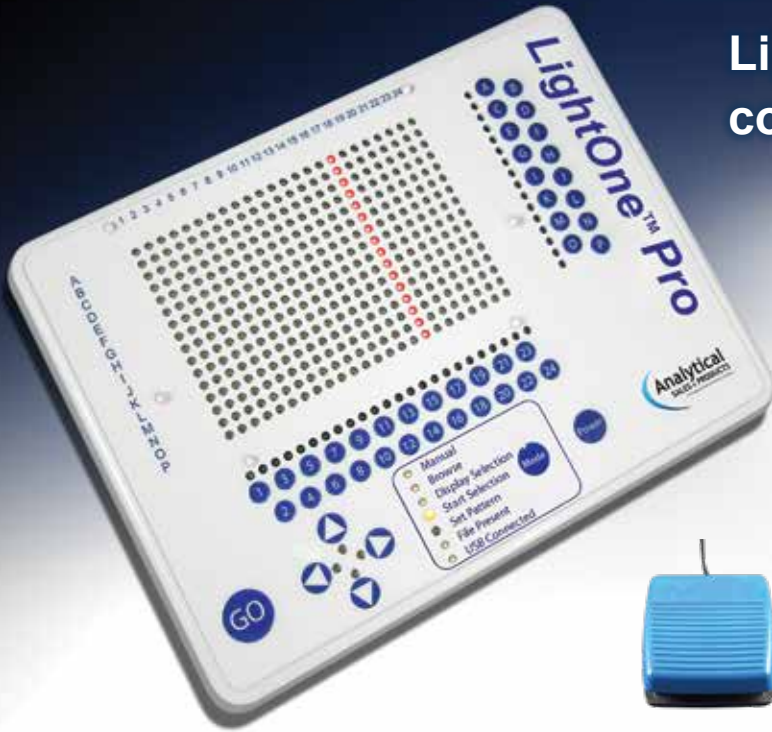
Full vertical/horizontal functionality!

Four directional arrows give you full control over the LightOne Illuminator!

Don't need a whole row illuminated?

Illuminate partial rows or columns easily!

Pause it! Press "Go" or any directional arrow to pause, then press again to resume using the LightOne!



Light up your 384 or 96-well collection plate samples

LightOne Pro Illuminator

- Quickly identify and select the area you want to pipette
- Customizable: highlight a single well or an entire row or column
- Foot pedal control for easy, hands-free navigation
- Use USB port for downloading templates and customized files for cherry picking
- 384-Well or 96-Well



The LightOne™ Pro includes:

- LightOne Pro unit
- Foot pedal
- USB stick (with 96 and 384-well CSV converter files)
- 96-well silicone adapter mat

Cat. No.	Description	Qty
LOI-384	LightOne Pro	Each

LightOne Pro Video

Learn more about the LightOne Pro and see it in action! Go to: www.analytical-sales.com/LightOnePro/videos



ViewOne™ Lablite

- Highlight your collection plate or petri dish samples
- Direct light provides better viewing for picking colonies, ELISA, cell viability and stained gel
- Fits in the palm of your hand
- Features three light intensities: Low, Medium and High!



Cat. No.	Description	Qty
56410	ViewOne Lablite 100-240V	Each

ViewOne Indexer

Features three light intensities:

Low, Medium & High!

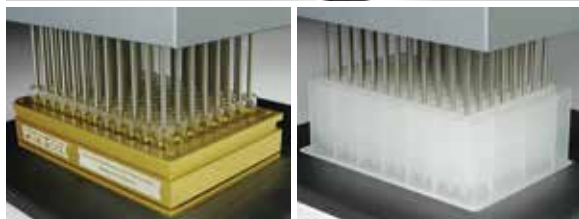
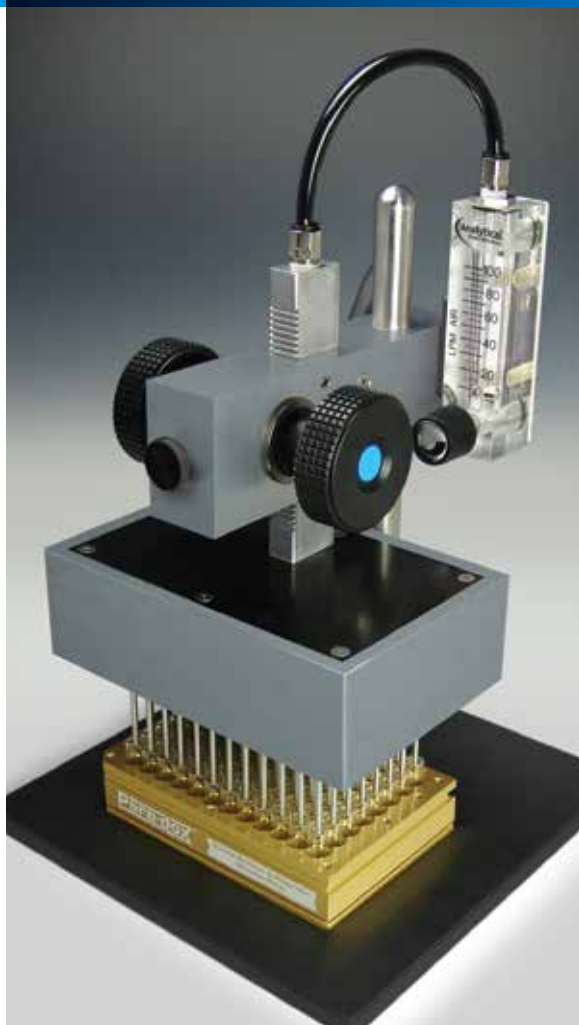
Includes:

- ViewOne Lablite
- 15° Stand
- 25° Stand
- (2) 96-Well Template Transparencies

Cat. No.	Description
56411	ViewOne Indexer

Compact and portable, the ViewOne Indexer provides illumination of your 96-well plates. The transparent template helps you keep track of individual samples, and two interchangeable stands make viewing easy and comfortable.





96-Well EquaVAP Evaporator

- Use with 96-well Polypropylene Collection Plates or 96-well Reaction Blocks with 1mL Vials

Cat. No.	Description	Qty
23096	EquaVAP 96-Well Blowdown Evaporator	Each

Evaporation Times

Chemical	Avg Evap Time (HH:MM:SS)
Dichloromethane 99.9%	00:00:23
Acetone 100%	00:02:04
Methanol 99.9%	00:06:09
Ethyl Acetate	00:03:04
Acetonitrile	00:06:37
Isopropyl Alcohol 99.0%	00:08:48
Water (DI)	01:23:46

Conditions: 100 uL of solvent evaporated at AIR flow of 100 L/min (using 1mL round deep well plate)

EquaVAP™ 96, 54, 48 and 24-well Blowdown Evaporators

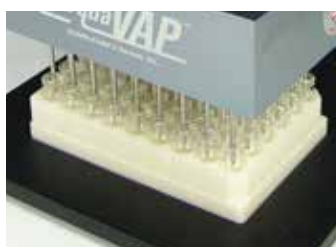
- **Internal pressure baffles** - Distributes equal pressure release across all needle ports regardless of sample position
- **Stainless Steel Needle Tips** - Long term robust use, sturdy, wide solvent compatibilities
- **Step-down height adjustment** - Offers positive repeatable height positions
- **Stand alone** - simple to operate, connects to Nitrogen supply & standard socket
- **Small footprint (8" base)** - fits into small glove boxes & standard fume hoods
- Rapidly evaporates common organic solvents



48-Well EquaVAP Evaporator

- Use with 48-well **Aluminum Reaction Blocks** with 2mL Vial

Cat. No.	Description	Qty
23048	EquaVAP 48-Well Evaporator for 48-Well Reaction Blocks with 2mL vials	Each



54-Well EquaVAP Evaporator

- Use with 2mL, 12 x 32mm Vials in 54-position Base Plate (part # 96054)

Cat. No.	Description	Qty
23054	EquaVAP 54-Well Evaporator for 2mL Vials in 54-position Base Plate	Each



24-Well EquaVAP Evaporator (18mm)

- 18mm center-to-center needle distance
- Use with 24-well **polypropylene collection plates** (part nos. 24108 or 24727)

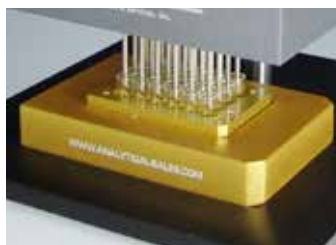
Cat. No.	Description	Qty
23024-18	EquaVAP 24-Well Evaporator for PP Collection Plates, 18mm	Each



24-Well EquaVAP Evaporator (20mm)

- 20mm center-to-center needle distance
- Use with 24-well **Reaction Blocks** w/ 1 Dram (4mL) or 2 Dram (8mL) vials

Cat. No.	Description	Qty
23024-20	EquaVAP 24-Well Evaporator for 24-Well Reaction Blocks, 20mm	Each



24-Well EquaVAP for 9mm Vial Spacing

- Use with 24-well optimization blocks
- 24-well block fits into 96-well footprint with use of rack adapter (24245)

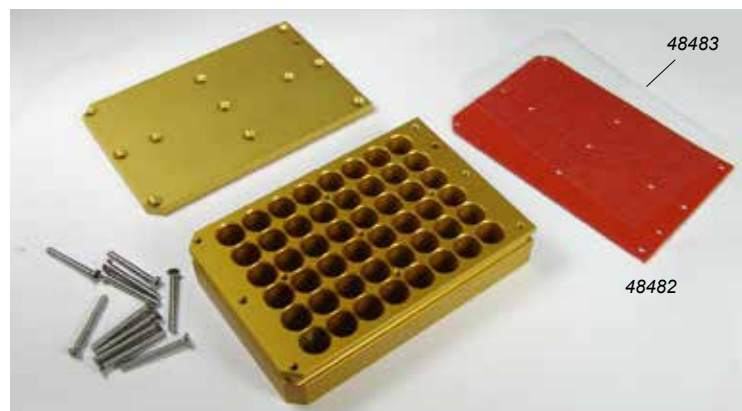
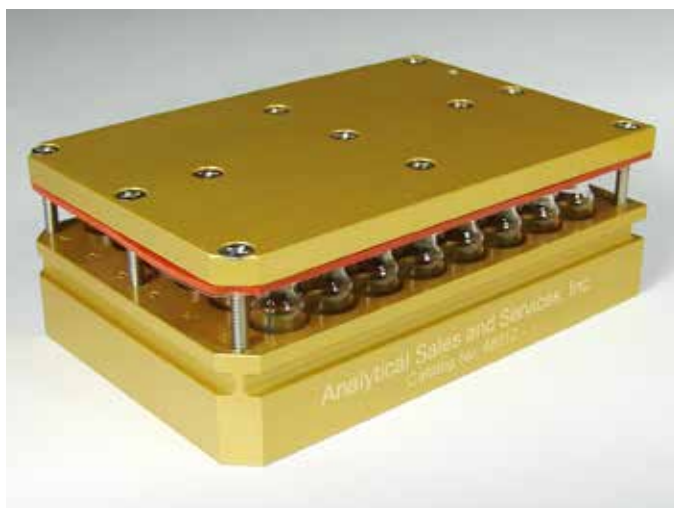
Cat. No.	Description	Qty
23024-09	EquaVAP 24-Well Evaporator for 9mm Vial Spacing	Each



Aluminum Reaction Blocks

- Useful for generating compound arrays (medicinal chemistry)
- Useful for conducting screening reaction conditions
- SBS plate format allows for use in multiple automation applications
- Can be used on tumble stirrers / hot plate stirrers
- Can easily be used in a glovebox
- Sealed with/ PFA Film and Rubber Mats
- [Blocks for Photo Reactions or Sampling](#) can be found on our website

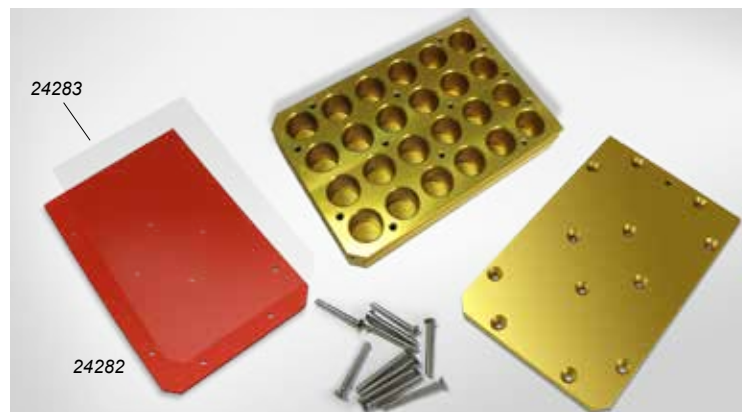
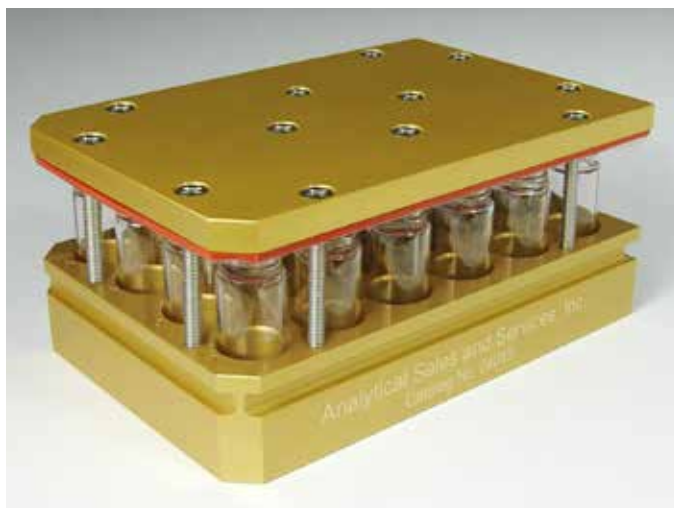
Parallel Reactor Block (2mL) 48 x 2 mL Aluminum Reaction Block



Cat. No.	Description	Qty
48012	48-Well Aluminum Reaction Block, Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each

Use with 12 x 32mm vials, sold separately. See part no. 11211-Case listed below.

Parallel Reactor Block (4mL) 24 x 4 mL Aluminum Reaction Block



Cat. No.	Description	Qty
24015	24-Well Aluminum Reaction Block, Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each

Use with 15 x 45mm vials, sold separately. See part no. 31531-Case listed below.

Accessories

Cat. No.	Description	Qty
48483	PFA Films for 48-Well Reaction Blocks for Vials	25
48482	Rubber Mats for 48-Well Reaction Blocks for Vials	25
24283	PFA Films for 24-Well Reaction Blocks for Vials	25
24282	Rubber Mats for 24-Well Reaction Blocks for Vials	25
VSCREW24	1 3/4" Screws for 24-Well Aluminum Reaction Plate	100
VSCREW48	1 1/4" Screws for 48-Well Aluminum Reaction Plate	100
11211-Case	2mL Clear Glass Crimp Top Vials	1000
20033-Case	Aluminum Crimp Caps, Natural Rubber/PTFE Lined	1000
31531-Case	4mL Clear Glass Screw Top Vials	1000
31554-Case	Solid Polypropylene PTFE Lined Cap	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (Note: not available for international shipping)	Each



SD1000
Battery Powered
Screwdriver



Anodized Aluminum Micro Vial Photoredox/Optimization Plates

(25µL maximum volume if using tumble stir bars)

96-Well Reaction Plates

- 4x21mm glass micro flat bottom vials, 50µL volume
- Validated to have less than 5% solvent loss with prolonged heating above boiling point
- Temperature range -78°C – 150°C
- Quality Stirring with Tumble Stirring
- **Silicone Rubber Mats** provide compression sealing
- **Teflon® PFA Films** keep the glass reaction vials from sticking to the silicone rubber mats during heating

Advantage™ 96-Well Anodized Aluminum Photoredox Micro Block Assembly

Includes Vial Rack, Bottom and Top Covers, PFA Sheets, Rubber Mats and Screws

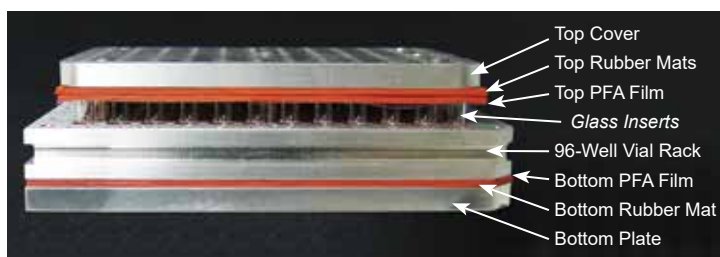
For 4x21mm Micro Vials

Cat. No.	Description	Qty
96970	Photoredox 96-Well Micro Block Assembly - Includes Vial Rack, Bottom and Top Covers, PFA Sheets, Rubber Mats and Screws	Each
96971	96-Well Vial Rack for Photoredox Micro	Each
96972	Bottom Plate for Photoredox Micro	Each
96977	Bottom PFA Films	25
96978	Bottom Rubber Mats	25
96976	Top Cover for 96-Well Photoredox Micro	Each
96981	Top PFA Films for 96-Well Photoredox Micro	25
96982	Top Rubber Mats for 96-Well Photoredox Micro	25
1/2"SCREW96	1/2" Bottom Screws	100
1"SCREW	1" Top Screws	100



Accessories

Cat. No.	Description	Qty
10421-Case	Micro Vials, Total Volume 50µL Flat Bottom Glass Inserts, 4 x 21mm	1000
96342	96-Well Polypropylene Tray with 4x21mm Flat Bottom Vials, Assembled	Each
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (Note: not available for international shipping)	Each



Anodized Aluminum **Micro Vial** Photoredox/Optimization Plates (25µL maximum volume if using tumble stir bars)

24-Well Reaction Plates

- 4x21mm glass micro flat bottom vials, **50µL** volume
- Validated to have less than 5% solvent loss with prolonged heating above boiling point
- Temperature range -78°C – 150°C
- Quality Stirring with Tumble Stirring
- **Silicone Rubber Mats** provide compression sealing
- **Teflon® PFA Films** keep the glass reaction vials from sticking to the silicone rubber mats during heating



Advantage™ 24-Well Anodized Aluminum Photoredox Micro Block Assembly

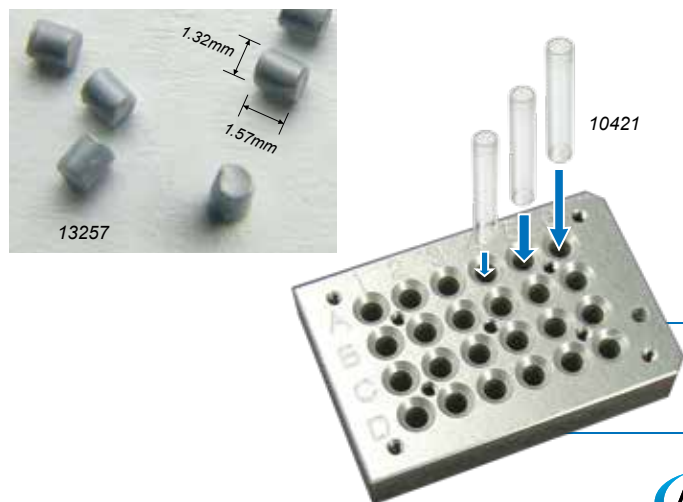
Includes Vial Rack, Bottom and Top Covers, PFA Sheets, Rubber Mats and Screws

For 4x21mm Micro Vials

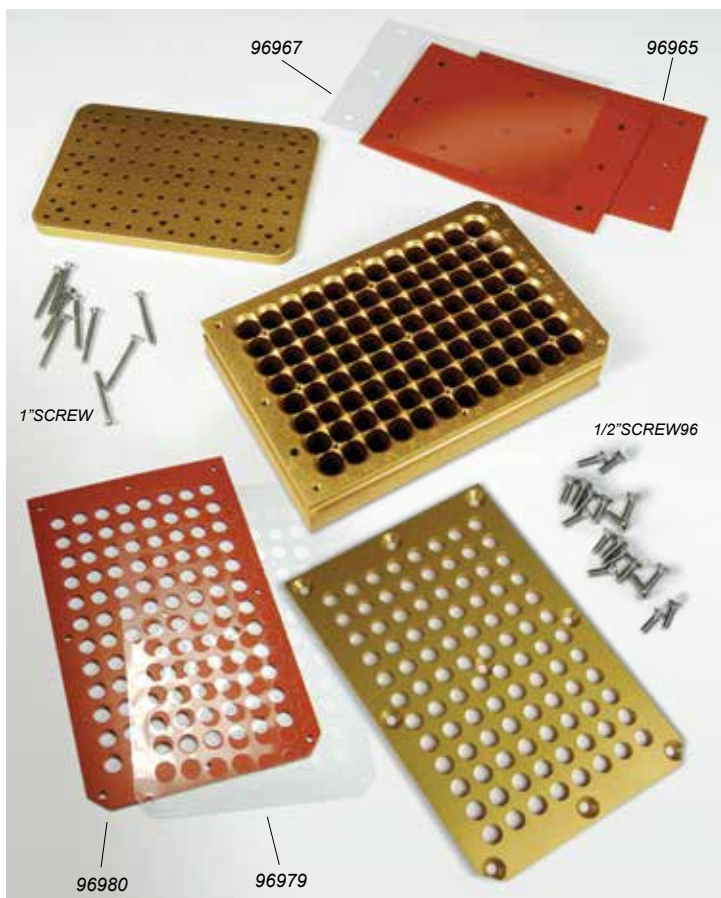
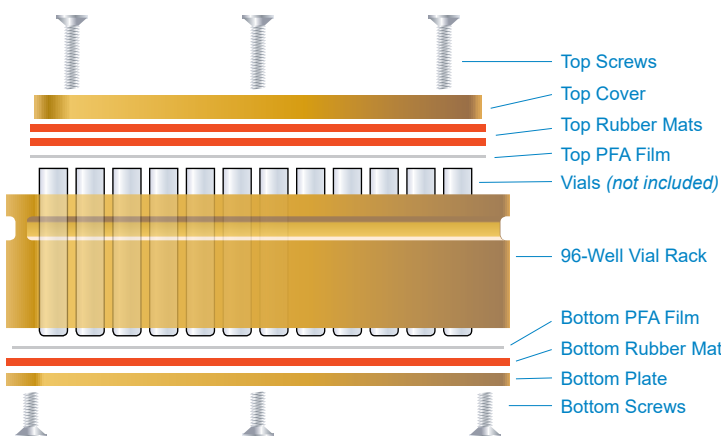
Cat. No.	Description	Qty
24250	Photoredox 24-Well Micro Block Assembly - Includes Vial Rack, Bottom and Top Covers, PFA Sheets, Rubber Mats and Screws	Each
24251	24-Well Vial Rack for Photoredox Micro	Each
24252	Bottom Plate for Photoredox Micro	Each
24257	Bottom PFA Films	25
24258	Bottom Rubber Mats	25
24256	Top Cover for 24-Well Photoredox Micro	Each
24261	Top PFA Films for 24-Well Photoredox Micro	25
24262	Top Rubber Mats for 24-Well Photoredox Micro	25
1/2"SCREW96	1/2" Bottom Screws	100
1"SCREW	1" Bottom Screws	100

Accessories

Cat. No.	Description	Qty
10421-Case	Micro Vials, Total Volume 50µL Flat Bottom Glass Inserts, 4 x 21mm	1000
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm	1000
24245	Rack Adapter	Each



Both the 24-well and 96-well micro block systems will hold **50µL**, 4 x 21mm Micro Vial flat bottom glass inserts (part no. 10421).



Anodized Aluminum Photoredox/Optimization Plates

96-Well Reaction Plates (1mL volumes)

- **Silicone Rubber Mats** provide compression sealing
- **Teflon® PFA Films** keep the glass reaction vials from sticking to the silicone rubber mats during heating
- Validated to have less than 5% solvent loss with prolonged heating above boiling point
- Temperature range -78°C – 150°C
- Quality Stirring with Tumble Stirring



96-Well Block Assembly for Screening Chemistry

Includes Block, Covers, Mats, Films and Screws

Cat. No.	Description	Qty
96973	Photoredox 96-Well Block Assembly	Each
96967	Replacement Top Films for 96-Well Photoredox Block	25
96965	Replacement Top Mats for 96-Well Photoredox Block	25
96979	Replacement Bottom Films for 96-Well Photoredox Block	25
96980	Replacement Bottom Mats for 96-Well Photoredox Block	25
1/2\"SREW96	1/2" Bottom Screws	100
1\"SREW	1" Top Screws	100

Assembled Vials

Cat. No.	Description	Qty
884001	Stackable Tray Loaded with 8x30 Shell Vials (84001-CASE), Includes Tray and Vials	Each



Accessories

Cat. No.	Description	Qty
84001-Case	1mL Clear Glass Shell Vials, 8 x 30mm	1000
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (Note: not available for international shipping)	Each

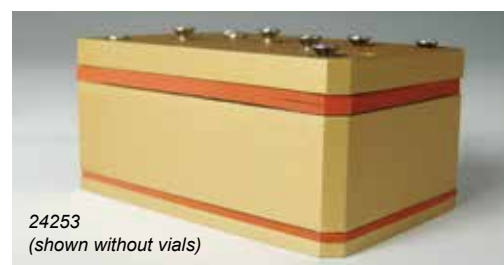
Para-dox™
Parallel Synthesis & Photoredox
Optimization Plates

24 & 96-Well Block Assemblies
for Screening Chemistry

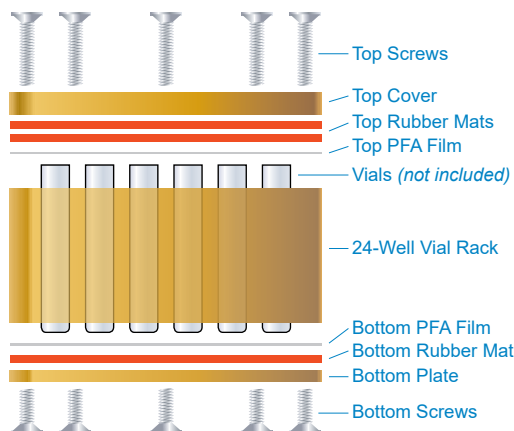
Anodized Aluminum Photoredox/Optimization Plates

24-Well Reaction Plates (1mL volumes)

- Validated to have less than 5% solvent loss with prolonged heating above boiling point
- Temperature range -78°C – 150°C
- Quality Stirring with Tumble Stirring
- Can be stirred on a standard lab stir plate
- **Silicone Rubber Mats** provide compression sealing
- **Teflon® PFA Films** keep the glass reaction vials from sticking to the silicone rubber mats during heating



24253
(shown without vials)



24-Well Block Assembly for Screening Chemistry

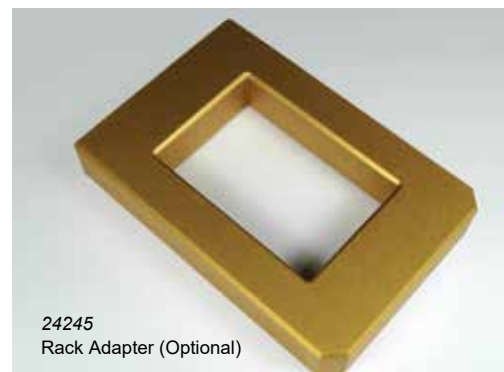
Includes Block, Covers, Mats, Films, Screws and Rack Adapter

Cat. No.	Description	Qty
24253	Photoredox 24-Well Block Assembly - Includes Vial Rack, Top Cover, Bottom Cover, PFA Films, Rubber Mats, Screws	Each
24247	Replacement Top Films for 24 Position, Photoredox Block	25
24248	Replacement Top Mats for 24 Position, Photoredox Block	25
24259	Replacement Bottom Films for 24 Position, Photoredox Block	25
24260	Replacement Bottom Mats for 24 Position, Photoredox Block	25
3/8\"/>		



Accessories

Cat. No.	Description	Qty
84001-Case	1mL Clear Glass Shell Vials, 8 x 30mm	1000
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (Note: not available for international shipping)	Ea



24245
Rack Adapter (Optional)



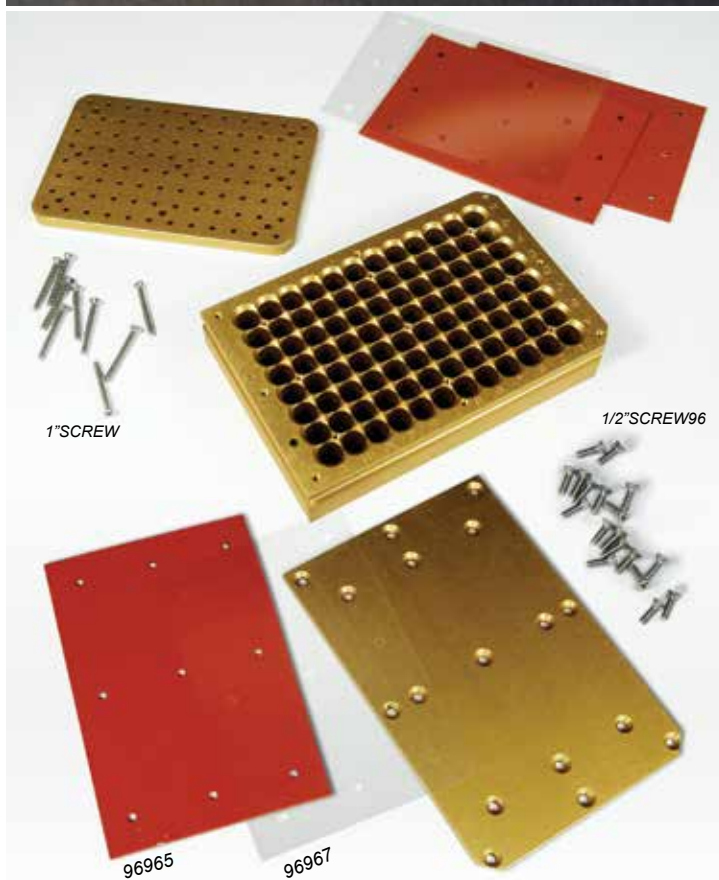
Parallel Synthesis/Optimization Plates 96-Well Reaction Plates

- **Silicone Rubber Mats** provide compression sealing
- **Teflon® PFA Films** keep the glass reaction vials from sticking to the silicone rubber mats during heating
- Validated to have less than 5% solvent loss with prolonged heating above boiling point
- Temperature range -78°C – 150°C
- Quality Stirring with Tumble Stirring



Assembled Vials

Cat. No.	Description	Qty
884001	Stackable Tray Loaded with 8x30 Shell Vials (84001-CASE), Includes Tray and Vials	Each
96242	Assembled 5 x 31mm Flat Bottom Vials in 96-Well PP Tray	Each



96-Well Block Assembly for Screening Chemistry


Includes Block, Covers, Mats, Films and Screws

Cat. No.	Description	Qty
96960	Parallel Synthesis/Optimization 96-Well Block Assembly	Each
96967	Replacement Films for 96-Well Optimization Block	25
96965	Replacement Mats for 96-Well Optimization Block	25
1/2\"/>		

Accessories

Cat. No.	Description	Qty
96969	Anodized Aluminum Spacers for 5 x 31mm Inserts	96
20303-Case	250µL Flat Bottom Glass Inserts, 5 x 31mm	1000
84001-Case	1mL Clear Glass Shell Vial, 8 x 30mm	1000
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (Note: not available for international shipping)	Each

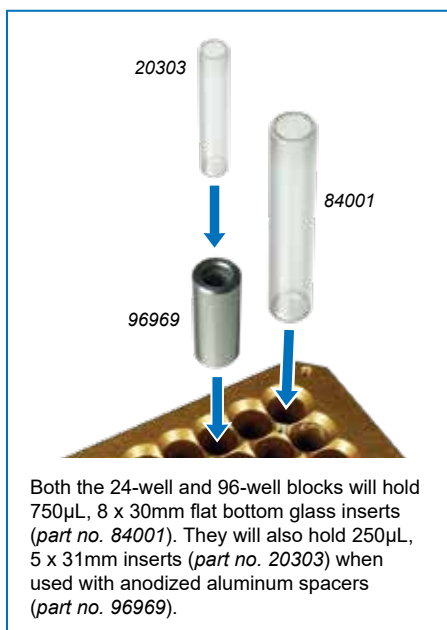
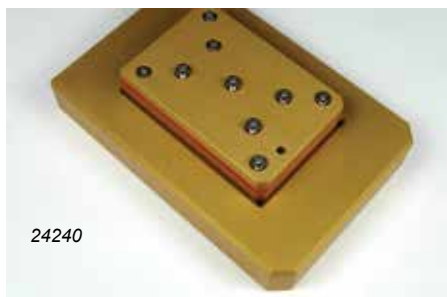
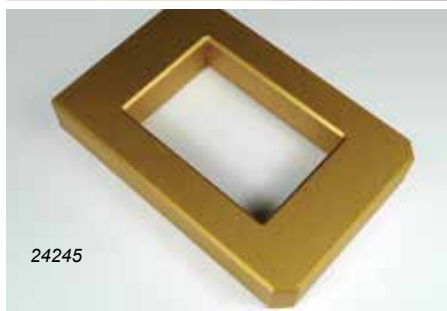
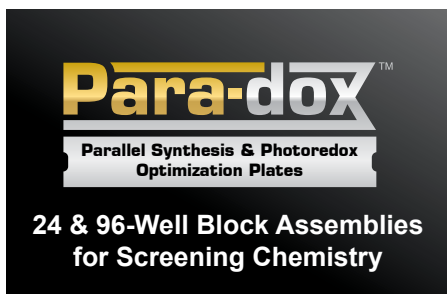
Both the 24-well and 96-well blocks will hold 750µL, 8 x 30mm flat bottom glass inserts (part no. 84001). They will also hold 250µL, 5 x 31mm inserts (part no. 20303) when used with anodized aluminum spacers (part no. 96969).



96969



SD1000
Battery Powered
Screwdriver



Parallel Synthesis/Optimization Plates

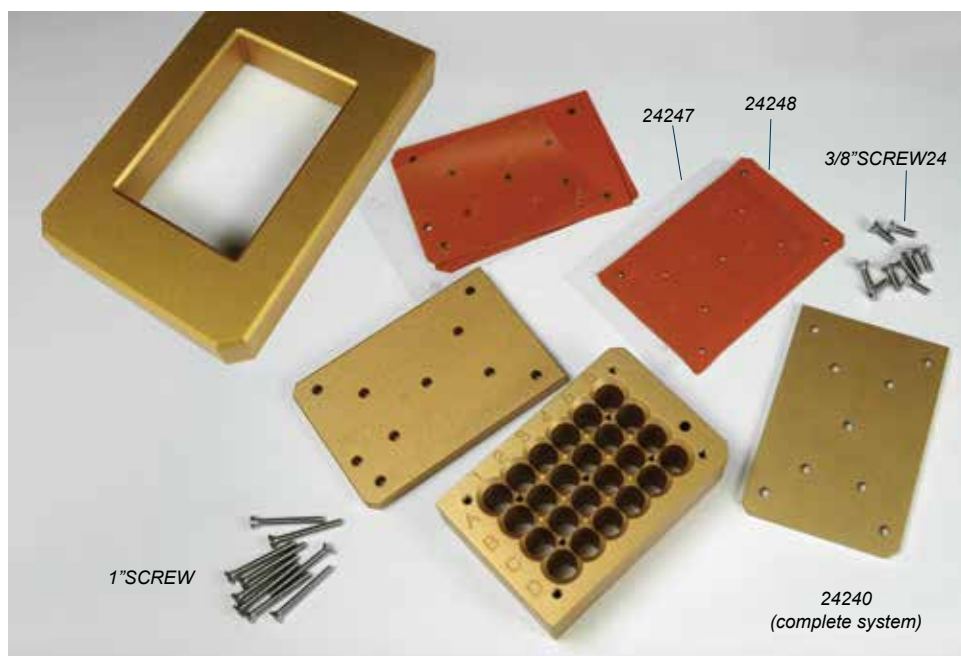
24-Well Reaction Plates

- Validated to have less than 5% solvent loss with prolonged heating above boiling point
- Temperature range -78°C – 150°C
- Quality Stirring with Tumble Stirring
- Can be stirred on a standard lab stir plate



Silicone Rubber Mats – Provide compression sealing. Plates use two silicone rubber mats on top and one on the bottom of each plate.

PFA Films – One chemically compatible Teflon® PFA mat is used on top to provide a seal and one on the bottom to keep the glass reaction vials from sticking to the silicone rubber mats during heating.



24-Well Block Assembly for Screening Chemistry

Cat. No.	Description	Qty
24240	Parallel Synthesis/Optimization 24-Well Block Assembly - Includes Vial Rack, Top Cover, Bottom Cover, PFA Films, Rubber Mats, Screws and Rack Adapter	Each
24249	Parallel Synthesis/Optimization 24-Well Block Assembly, <i>no Rack Adapter</i>	Each
24245	Rack Adapter	Each
24247	Replacement Films for 24 Position, Optimization Block	25
24248	Replacement Mats for 24 Position, Optimization Block	25
3/8"SCREW24	3/8" Bottom Screws	100
1"SCREW	1" Top Screws	100

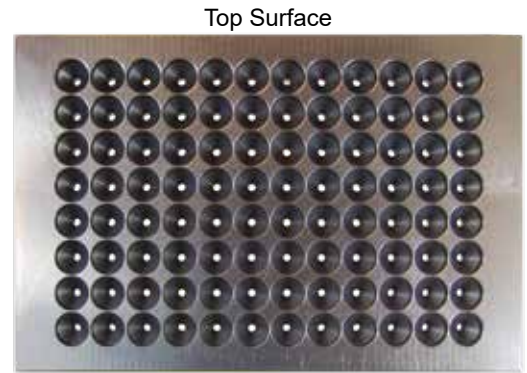
Accessories

Cat. No.	Description	Qty
96969	Anodized Aluminum Spacers for 5 x 31mm Inserts	96
20303-Case	250 μ L Flat Bottom Glass Inserts, 5 x 31mm	1000
84001-Case	1mL Clear Glass Shell Vial, 8 x 30mm	1000
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (Note: not available for international shipping)	Each

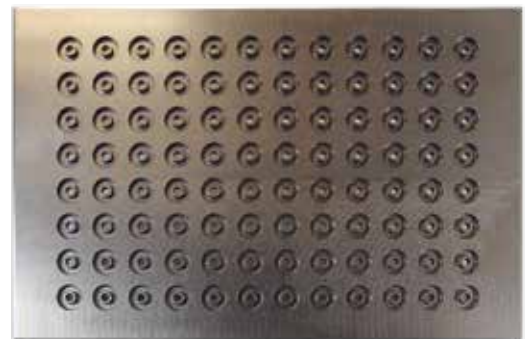




96T100



Top Surface



Bottom Surface

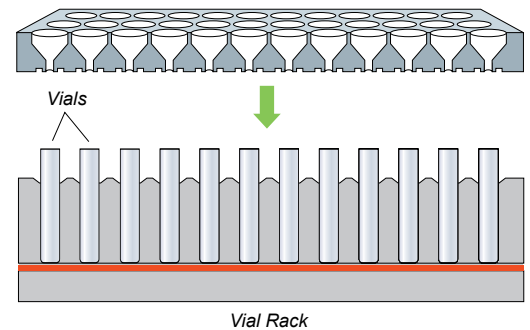
Powder Transfer Plate

Easily dispense powder into your 4x21 micro vials

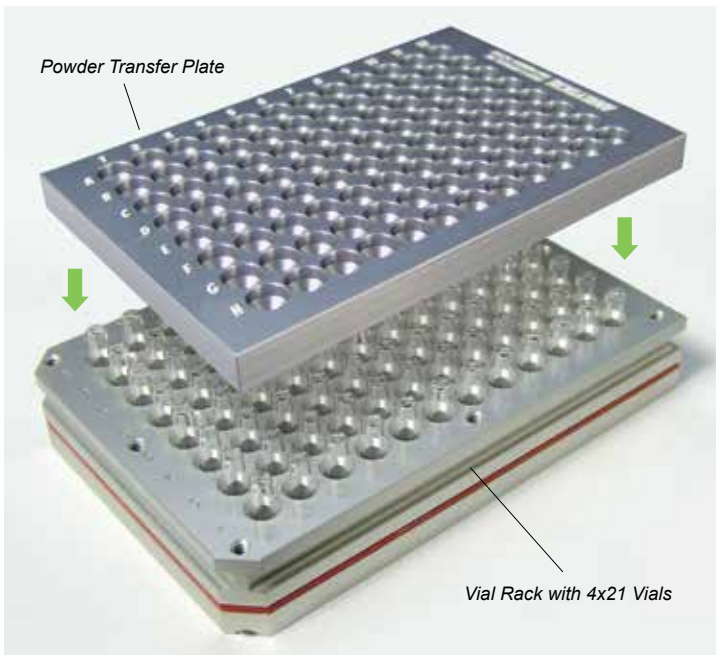
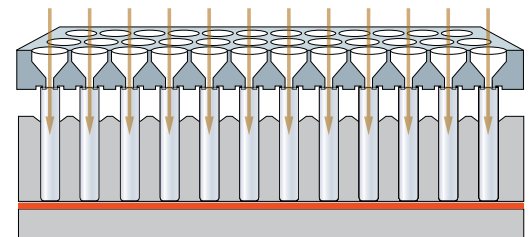
- Extra wide openings for easy filling
- Funneled holes guide powder down into vials
- Circular grooves on underside of transfer plate “lock” vials into position to eliminate spillage and mess

Cat. No.	Description	Qty
96T100	Powder Transfer Plate for 4x21 Vials	Each

Powder Transfer Plate (cross section view) - Lower plate onto vials and let the vials “settle” into the circular grooves surrounding each hole, essentially locking them in place



Powder can now be easily dispensed into each vial



Powder Transfer Plate

Vial Rack with 4x21 Vials



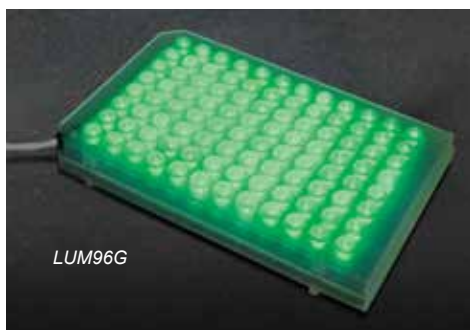
Lumidox Controller

LUM96B
LED Array (sold separately)

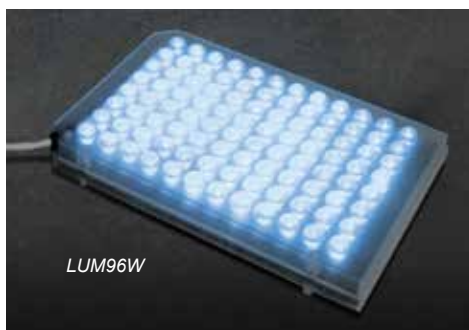
Lumidox™ System

LED Photon Generator for Photoredox Applications

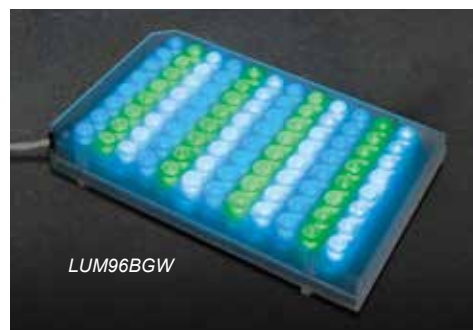
Intelligent Autosensing LED controller for 24 well and 96 well LED arrays



LUM96G



LUM96W



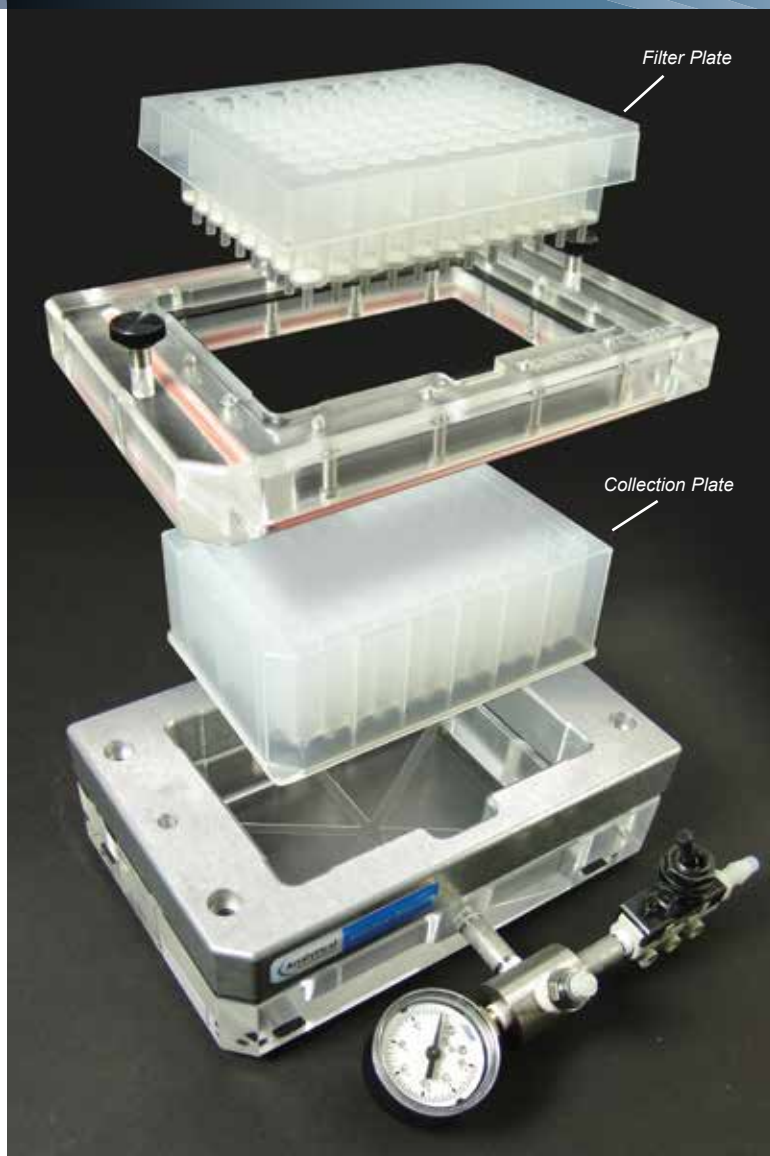
LUM96BGW

- Repeatability of milliamp selection for photon intensity
- Non-magnetic LED base
- Robust Controller Shell
- PTFE coated cabling
- Chemically resistant LED cover
- 30mA LED Maximum Output
- 470nm, 527nm, White LED's
- Available in **Blue**, **Green**, **White** and **Alternating**

PRODUCT NOTE:

New arrays of various wavelengths coming soon

Catalog No.	Description	Qty
LUM24B	Lumidox 24-Well Blue LED Array	Each
LUM24G	Lumidox 24-Well Green LED Array	Each
LUM24W	Lumidox 24-Well White LED Array	Each
LUM96B	Lumidox 96-Well Blue LED Array	Each
LUM96G	Lumidox 96-Well Green LED Array	Each
LUM96W	Lumidox 96-Well White LED Array	Each
LUM96BGW	Lumidox 96-Well, Alternating Blue , Green and White LED Array	Each
LUMCON	Lumidox LED Controller (LED arrays sold separately)	Each



Vacuum Manifold Filtration System

for SPE Sample Preparation

- Sturdy, clear acrylic construction
- Adjustable vacuum control
- Easy access to filtrate
- Compatible with all standard filter bottom microplates
- Collect into any storage plate
- Compatible with robotic handling



The Advantage™ Vacuum Manifold Filtration System allows you to collect into any storage plate (including low volume collection plates) and is compatible with robotic handling systems. It uses an integral flat gasket between the collection plate and the filtration plate which stays totally secure within the system. A spacer is supplied for use with low volume collection plates. The Vacuum Manifold is constructed of tough acrylic for optimum performance and visual accessibility.

Cat. No.	Description	Qty
96844	Vacuum Manifold Filtration System for SPE Sample Filtration	Each



Advantage™ Protein Crash Plates for Protein Precipitation & Hepatocyte Filtration

- Proprietary frits produce optimized Protein Precipitation
- Use for Plasma, Urine, and other bioanalysis samples
- Works on all current manual or automated processing instrumentation

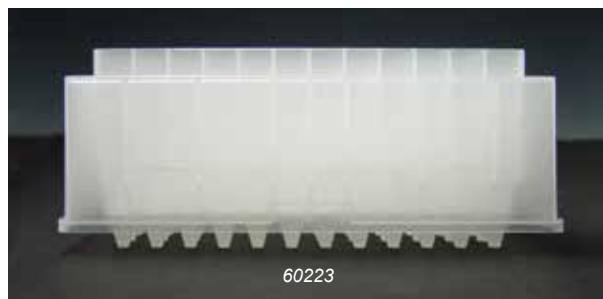
Advantage™ Protein Crash Plates for protein precipitation provide an extremely simple and rapid method for removing protein compounds from samples prior to downstream analysis. The plate has a unique hydrophobic membrane configuration which retains the acetonitrile/sample mixture during mixing or inoculation steps. The pore size of the filter decreases with the increase in depth so that larger particles and/or macromolecules are trapped on the surface and throughout the interior of the filter. The components are all medical grade polypropylene. The ending filtrate is ready for HPLC or MS analysis.

PRODUCT NOTE:

Our 1mL Protein Crash Plates are made under tight tolerances in our NJ facility. We are able to provide this product at a price point that makes protein precipitation plates a viable option once again! Check our web site or call for pricing.

Advantage™ 1mL 96-Well Protein Crash Plates

Cat. No.	Description	Qty
60513	1mL Protein Precipitate 96 Well Plate	1
60513-5	1mL Protein Precipitate 96 Well Plate	5



Advantage™ 2mL 96-Well Protein Crash Plates

Cat. No.	Description	Qty
60223	2mL, 96-Well Plate w/ Grated Screen	1
60223-5	2mL, 96-Well Plate w/ Grated Screen	5
60223-10	2mL, 96-Well Plate w/ Grated Screen	10
60223-25	2mL, 96-Well Plate w/ Grated Screen	25

Drug Discovery 96-Well Filter Plates

- Low Protein Binding
- General Filtration



Cat. No.	Description	Qty
96122-10	1mL Hydrophobic PP, 0.20µm	10
96222-10	2mL Hydrophobic PP, 0.20µm	10
96154-10	1mL Hydrophobic PP, 0.45µm	10
96254-10	2mL Hydrophobic PP, 0.45µm	10
960300	300µL Glass Membrane 1.0µm	50
964PP20	400µL Hydrophobic PP, 0.20µm	25
964PP45	400µL Hydrophobic PP, 0.45µm	25
96045	300µL Hydrophobic PP, 0.45µm	25
968PV20	800µL PVDF, 0.20µm	25



General Filtration 96-well Filter Plates

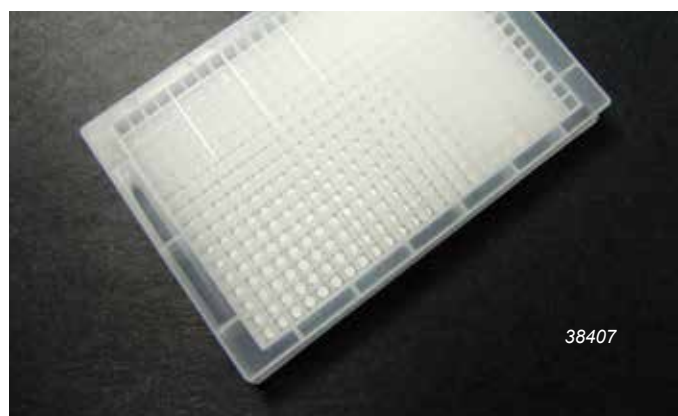
- After SPE
- Dilute and Shoot
- Use prior to LCMS and Microarraying
- Filtration of Tissue Culture Media, Antibiotics, Alcohols and protein Solutions

Low Protein Binding - Sample in Solvent

Cat. No.	Description	Qty
96152-10	1mL Hydrophilic PP, 0.20µm	10
96432-10	1mL Hydrophilic PVDF, 0.20µm	10
96465-10	2mL Hydrophilic PVDF, 0.20µm	10
96832-10	1mL Hydrophilic PVDF, 0.45µm	10
96835-10	2mL Hydrophilic PVDF, 0.45µm	10
96155-10	1mL Hydrophilic PP, 0.45µm	10
96245-10	2mL Hydrophilic PP, 0.45µm	10
96205-25	2mL, Glass Fiber, 5.0µm	25

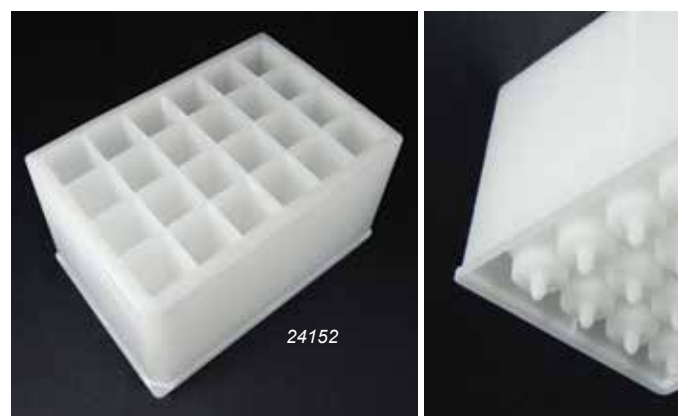
General Biological Filtration - Aqueous Sample

Cat. No.	Description	Qty
96620-10	1mL Nylon Filter Plate, 0.20µm	10
96210-10	2mL Nylon Filter Plate, 0.20µm	10
96110-10	1mL Nylon Filter Plate, 0.45µm	10
96255-10	2mL Nylon Filter Plate, 0.45µm	10



General Filtration 384-well Filter Plates

Cat. No.	Description	Qty
38407	384-Well Filter Plates, 140µL, Glass Fiber, 0.7µm	10
38412	384-Well Filter Plates, 140µL, Glass Fiber, 1.2µm	10
38405	384-Well Filter Plates, 140µL, Glass Fiber, 5.0µm	10



24-well Filter Plates

Cat. No.	Description	Qty
24152	24 Well Filter Plates, PE 25µm, 15mL	15

Low Adhesion Surface PP Screw Top Micro-Centrifuge Tubes

- Specially formulated polypropylene provides a low adhesion surface to obtain maximum sample yield
- Ideal for research procedures such as nucleic acid amplifications, protein work and others
- No lubricants (such as silicone) necessary, thereby eliminating the danger of sample contamination
- Can be used at extreme temperatures from -196 °C to +121 °C
- Certified RNase-, DNase-, Pyrogen- and DNA-free



Cat. No.	Description	Qty
16601	Self Standing, 0.5mL, Low Adhesion Screw Top Micro Tube, PP	1000
16602	Self Standing, 1.5mL, Low Adhesion Screw Top Micro Tube, PP	1000
16606	1.5mL, Low Adhesion Screw Top Micro Tube, PP*	1000
16603	Self Standing, 1.8mL, Low Adhesion Screw Top Micro Tube, PP	1000

*Can be centrifuged. Max RCF: 20,000g. (non-skirted tubes only)

Micro-Centrifuge Caps with O-Ring Seal

- Available in Natural, Blue, Green, Lilac, Orange, Red, Yellow, White & Brown



Cat. No.	Description	Qty
15267	Micro Centrifuge Caps with O-Rings, Natural	1000
15267B	Micro Centrifuge Caps with O-Rings, Brown	1000
15267BL	Micro Centrifuge Caps with O-Rings, Blue	1000
15267G	Micro Centrifuge Caps with O-Rings, Green	1000
15267L	Micro Centrifuge Caps with O-Rings, Lilac	1000
15267O	Micro Centrifuge Caps with O-Rings, Orange	1000
15267R	Micro Centrifuge Caps with O-Rings, Red	1000
15267W	Micro Centrifuge Caps with O-Rings, White	1000
15267Y	Micro Centrifuge Caps with O-Rings, Yellow	1000



Writable Colored Cap Inserts

- Write-on frosted area for sample identification
- Insert into top of natural micro-centrifuge cap
- Assorted Colors

Cat. No.	Description	Qty
15266	Color Coding Cap Inserts, Assorted Colors	500

Transfer Pipettes

Cat. No.	Description	Qty
B78-400	Graduated in Increments of 0.25mL	500
B78-200	Jumbo Bulb, 7.5mL Volume, 6"	500
B78-300	Thin Stem, 4mL Volume, 6"	500
B78-100	Graduated 6mL Volume, 9"	500

End to End Micro Pipettes with Anticoagulant

- Micro sampling allows for more time points from animals

Cat. No.	Description	Qty
173313	End to End Micro Pipette, 8µL, K2EDTA	1000
174113	End to End Micro Pipette, 10µL, K2EDTA	1000
172513	End to End Micro Pipette, 15µL, K2EDTA	1200

New Version!

DBS

Dried Blood Spot Pneumatic Card Punch

The DBS Punch eliminates hand fatigue and blistering from the use of hand-held manual card punches. It is a pneumatic foot-controlled "power" punch that increases speed and efficiency when loading dried blood spot samples into collection plates or tubes. It is the perfect solution for facilities in the exploratory phase of DBS research and analysis that don't want or need to invest thousands of dollars in automated card punches.

- Easy to Use - Foot Pedal Operation
- No Hand Fatigue or Blistering
- Reduces Processing Time
- Direct Insertion of Punched Disc into Collection Plate Well or Tube
- New, Better View of Punching Area
- 3mm, 4mm, 5mm and 6mm Punch Sizes Available

*Call Analytical Sales and Services
for more information*





Shown is a 12 Position Vacuum Manifold (Cat. No. 2100-00) and accessories.

- 1) 2125-15 Collection Rack, shelves, legs, clips and posts
- 2) 2131-12 Stopcock Valves
- 3) 2124-12 Polypropylene Outlet Needles
- 4) 2112-00 Stainless Steel Outlet Needles
- 5) Vacuum Valve and Gauge
- 6) Glass Collection Chamber
- 7) Polypropylene Lid

Vacuum Manifolds for Solid Phase Extraction, Elution & Filtration Columns

Complete Systems

Cat. No.	Description	Qty
2100-00	12 Position Vacuum Manifold System	Each
2100-16	16 Position Vacuum Manifold System	Each
2100-24	24 Position Vacuum Manifold System	Each
2500-10	10 Position Flash Vacuum Manifold System	Each

The manifold consists of a clear glass cabinet and top to which vacuum is applied. The top is fitted with 12, 16, or 24 female luer connectors in series with a similar number of stopcock valves. These luer connectors enable the manifolds to work with any male luer-hub sample prep device. Opening the stopcock valve under a clean-up device causes sample or solvent to be drawn through the device and into the cabinet where it can be collected by test tubes, autosampler vial, volumetric flasks, etc. The eluent is deposited directly into the collection vessel via polypropylene needles or optional stainless steel needles. The attached vacuum bleed valve and gauge allows the amount of vacuum to be controlled and monitored. The 16 Position Manifold was designed specifically for use with the robot compatible columns.

Replacement Parts for 10 Position Vacuum Manifold

Cat. No.	Description	Qty
2500-11	Glass Chamber	Each
2500-12	Cover, Gasket, Valve & Glass Chamber	Each
2500-13	Gasket	Each
2500-14	Vacuum Gauge, Valve & Glass Chamber	Each
2500-15	Polypropylene Needles	10
2500-16	Stainless Steel Needle	Each
2500-17	Collection Rack	Each
2500-18	Plate for 19mm Tubes	Each
2500-20	Plate for 25mm Tubes	Each
2500-22	Dimple Plate	Each
2500-23	Base Plate	Each
2500-24	Stopcocks	10
2500-25	Drying Attachment	Each

Replacement Parts for 16 Position Vacuum Manifold

Cat. No.	Description	Qty
2101-16	16 Position Glass Chamber	Each
2102-16	Cover, Gaskets and 16 Stopcocks	Each
2103-16	Vacuum Gauge, Valve & Glass Block	Each
2104-16	16 Position Collection Rack	Each
2105-16	Plate for 16mm Test Tubes	Each
2106-16	Plate for 13mm Test Tubes	Each
2107-16	Gaskets for 16 and 24 Position	2
2108-16	Stainless Steel Outlet Needle	Each
2111-16	Dimple Plate	Each
2112-16	Stainless Steel Outlet Needles	16
2113-16	Base Plate	Each
2114-16	Drying Attachment	Each
2124-16	Polypropylene Outlet Needles	16
2131-16	One-Way Stopcocks	16

Replacement Parts for All Vacuum Manifolds

Cat. No.	Description	Qty
2122-03	Vacuum Gauge & Valve Assembly	Each
2129-12	Retaining Clips	12
2120-02	Female Luer, Nylon (for top of lid)	Each
2121-02	Male Luer, Nylon (for bottom of lid)	2
2123-02	Support Posts for Rack	Each
2124-02	Black Legs for Cover	Each
2125-02	Valve Assembly	Each
2126-02	Vacuum Gauge	Each
2127-02	Plugs	Each
4124-10	Disposable Teflon Needles	100
4124-12	Disposable Teflon Needles	500
4202	Control Valve	25

SPE columns are available. Call for details.

Replacement Parts for 12 Position Vacuum Manifold

Cat. No.	Description	Qty
2106-12	Plate for 13mm Test Tubes	Each
2111-12	Dimple Plate	Each
2112-00	Stainless Steel Outlet Needles	12
2113-12	Base Plate	Each
2114-12	Drying Attachment	Each
2120-00	Cover, Gaskets and 12 Stopcocks	Each
2123-04	12-Pos. Vacuum Gauge, Valve & Glass Block	Each
2124-12	Polypropylene Outlet Needles	12
2125-15	12-Position Collection Rack	Each
2126-01	Plate for Volumetric Flasks	Each
2127-01	Plate for 16mm Test Tubes	Each
2128-01	Plate for Autosampler Vials	Each
2131-10	Disposable Waste Containers	10
2131-12	One-Way Stopcocks	12
2132-12	Glass Chamber	Each
2140-12	Gasket	Each

Replacement Parts for 24 Position Vacuum Manifold

Cat. No.	Description	Qty
2101-24	24 Position Glass Chamber	Each
2102-24	Cover, Gaskets and 24 Stopcocks	Each
2103-24	Vacuum Gauge, Valve & Glass Block	Each
2104-24	24 Position Collection Rack	Each
2105-24	Plate for 16mm Test Tubes	Each
2106-24	Plate for 13mm Test Tubes	Each
2107-24	Gaskets for 24 Position	2
2108-24	Stainless Steel Outlet Needles	24
2109-24	Polypropylene Outlet Needles	24
2111-24	Dimple Plate	Each
2113-24	Base Plate	Each
2114-24	Drying Attachment	Each
2115-24	One-Way Stopcocks	24



This photo shows the path of the eluent as it is drawn down through the stopcock valves and the polypropylene needles into the collection vessels.



Micro-Spin Filter Tubes

- Polypropylene housing
- Up to 850µL sample volumes
- Receiver tube holds a 2mL volume
- Max G-force is 10,000 x G

Cat. No.	Description	Qty
8502-00	0.45µm Cellulose Acetate	100
8503-00	0.20µm Cellulose Acetate	100
8504-00	0.45µm Nylon	100
8505-00	0.20µm Nylon	100
8507-00	0.45µm PVDF	100
8506-00	0.20µm PVDF	100
8508-00	0.45µm Polysulfone	100
8509-00	0.20µm Polysulfone	100
8515-00	0.45µm Polypropylene	100
8512-00	0.20µm Polypropylene	100
8514-00	0.45µm PTFE	100
8513-00	0.20µm PTFE	100

Cat. No.	Description	Qty
210056A	Florisil 300mg Snap Cap Cartridge	100

MWCO Micro Spin Filters

800µL Capacity w/ 2mL Receiver Tubes

PES = Polyethersulfone

- Ideal for use in Life Science Applications to Remove Particulates During General Filtration
- Low Protein and Drug Binding Characteristics

PVDF = Polyvinylidene Fluoride

- Sterilizing Filtration of Biological Solutions
- Clarifying Filtration of Biological Solutions
- Provides High Flow Rates & Throughput
- Low Extractability & Broad Chemical Compatibility
- Hydrophobic

Cat. No.	Description	Qty
8690-01	PES Membrane, 1K	100
8690-03	PES Membrane, 3K	100
8690-05	PES Membrane, 5K	100
8690-10	PES Membrane, 10K	100
8690-30	PES Membrane, 30K	100
8690-50	PES Membrane, 50K	100
8690-100	PES Membrane, 100K	100
8690-300	PES Membrane, 300K	100
7833-30	PVDF Membrane, 30K	100
7833-100	PVDF Membrane, 100K	100
7833-250	PVDF Membrane, 250K	100



Two Part SPE Rack

Cat. No.	Description	Qty
ADV2045	Two Part SPE Rack	Each

Can be used with

Polypropylene Micro-Centrifuge Tubes



Cat. No.	Description	Qty
111540	1.5mL, Attached Flat Cap, Conical Bottom	1000
111552	2.0mL, Attached Flat Cap, Conical Bottom	1000



Inline Filter System



1L Funnel System

Complete Vacuum Filter Systems

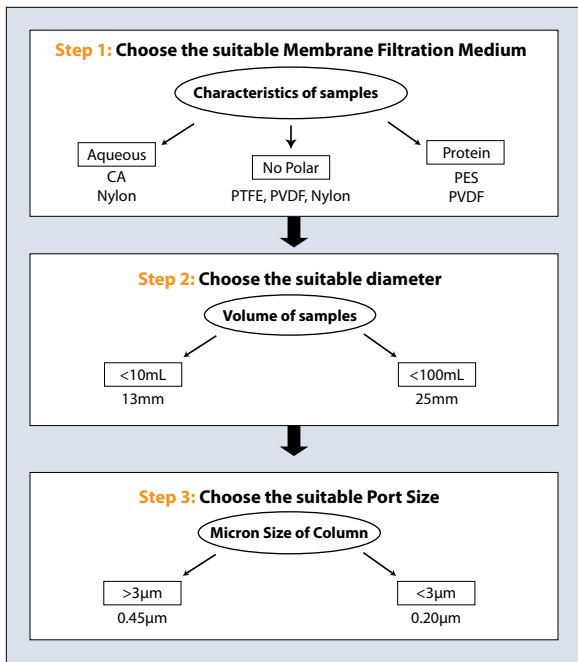
- Comes in 1 liter, 2 liter or inline systems
- Uses o-ring for secure closure
- Easy set up and clean up
- Made of durable polypropylene
- Great for small or large volumes

Cat. No.	Description	Qty
45531	1L Filter Funnel System - Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, SS Vacuum Port), Filter Retainer Ring, 1L Funnel, SS Filter Support, Adapter Kit	Each
45532	2L Filter Funnel System - Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, SS Vacuum Port), Filter Retainer Ring, 2L Funnel, SS Filter Support, Adapter Kit	Each
45530	Inline Filter System - Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, SS Vacuum Port), Inline Adapter Cap, Filter Retainer Ring, SS Filter Support, Adapter Kit	Each
45534	1L Filter Funnel System: Metal-Free, Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, PEEK Vacuum Port), Filter Retainer Ring, 1L Funnel, PEEK Filter Support, Adapter Kit	Each
45535	2L Filter Funnel System: Metal-Free, Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, PEEK Vacuum Port), Filter Retainer Ring, 2L Funnel, PEEK Filter Support, Adapter Kit	Each
45533	Inline Filter System: Metal-Free, Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, PEEK Vacuum Port), Inline Adapter Cap, Filter Retainer Ring, PEEK Filter Support, Adapter Kit	Each

Replacement Parts & Accessories

Cat. No.	Description	Qty
45377	Filter Retainer Ring	Each
45311	1 Liter Funnel	Each
45322	2 Liter Funnel	Each
45373	Stainless Steel Filter Support	Each
45390	PEEK Filter Support	Each
45388	Silicone Rubber O-ring	Each
45389	Viton® Rubber O-ring	Each
45325	Adapter Kit	Each
45345	Inline Filter Adapter Cap w/ PEEK™ Port	Each





Advantage™ Syringes w/ Siliconized Gaskets

- Latex free, sterile, non-pyrogenic and non-toxic



Cat. No.	Description	Qty
22001EL-100	1mL Luer Lock Syringe w/ Siliconized Gaskets	100
22003EL-100	3mL Luer Lock Syringe w/ Siliconized Gaskets	100
22005EL-100	5mL Luer Lock Syringe w/ Siliconized Gaskets	100
22010EL-100	10mL Luer Lock Syringe w/ Siliconized Gaskets	100
22020EL-50	20mL Luer Lock Syringe w/ Siliconized Gaskets	50
22030EL-50	30mL Luer Lock Syringe w/ Siliconized Gaskets	50
22050L-30	50mL Luer Lock Syringe w/ Siliconized Gaskets	30

Advantage™ Syringes without Gaskets

- Inert, non-reactive syringe
- More chemically resistant than rubber tipped syringes



Cat. No.	Description	Qty
22001L-100	Advantage 1mL Luer Slip Sterile Syringe	100
22003L-100	Advantage 3mL Luer Lock Sterile Syringe	100
22005L-100	Advantage 5mL Luer Lock Sterile Syringe	100
22010L-100	Advantage 10mL Luer Lock Sterile Syringe	100
22020L-100	Advantage 20mL Luer Lock Sterile Syringe	100
22030L-50	Advantage 30mL Luer Lock Sterile Syringe	50
22050L-30	Advantage 50mL Luer Lock Sterile Syringe	30

13mm Syringe Filters: 0.20µm & 0.45µm

Catalog No.	Description	Qty	
Cellulose Acetate, 13mm			
CA	13CP020AN	13mm CA Syringe Filter, 0.20µm	100pk
	13CP020AN5	13mm CA Syringe Filter, 0.20µm	500pk
	13CP045AN	13mm CA Syringe Filter, 0.45µm	100pk
	13CP045AN5	13mm CA Syringe Filter, 0.45µm	500pk
Cellulose Acetate, 13mm, STERILE			
13CS020AS	STERILE 13mm CA Syr. Filter, 0.20µm	100pk	
13CS045AS	STERILE 13mm CA Syr. Filter, 0.45µm	100pk	
PTFE, 13mm			
PTFE	13JP020AN	13mm PTFE Syringe Filter, 0.20µm	100pk
	13JP020AN5	13mm PTFE Syringe Filter, 0.20µm	500pk
	13JP045AN	13mm PTFE Syringe Filter, 0.45µm	100pk
	13JP045AN5	13mm PTFE Syringe Filter, 0.45µm	500pk
Nylon, 13mm			
NY	13NP020AN	13mm NY Syringe Filter, 0.2µm	100pk
	13NP020AN5	13mm NY Syringe Filter, 0.20µm	500pk
	13NP045AN	13mm NY Syringe Filter, 0.45µm	100pk
	13NP045AN5	13mm NY Syringe Filter, 0.45µm	500pk
Polypropylene, 13mm			
PP	13PP020AN	13mm PP Syringe Filter, 0.20µm	100pk
	13PP020AN5	13mm PP Syringe Filter, 0.20µm	500pk
	13PP045AN	13mm PP Syringe Filter, 0.45µm	100pk
	13PP045AN5	13mm PP Syringe Filter, 0.45µm	500pk
Polyethersulfone, 13mm			
PES	13PS020AN	13mm PES Syringe Filter, 0.20µm	100pk
	13PS020AN5	13mm PES Syringe Filter, 0.20µm	500pk
	13PS045AN	13mm PES Syringe Filter, 0.45µm	100pk
	13PS045AN5	13mm PES Syringe Filter, 0.45µm	500pk
PVDF, 13mm			
PVDF	13PV020AN	13mm PVDF Syringe Filter, 0.20µm	100pk
	13PV020AN5	13mm PVDF Syringe Filter, 0.20µm	500pk
	13PV045AN	13mm PVDF Syringe Filter, 0.45µm	100pk
	13PV045AN5	13mm PVDF Syringe Filter, 0.45µm	500pk
Regenerated Cellulose, 13mm			
RC	13RC020AN	13mm RC Syringe Filter, 0.20µm	100pk
	13RC020AN5	13mm RC Syringe Filter, 0.20µm	500pk
	13RC045AN	13mm RC Syringe Filter, 0.45µm	100pk
	13RC045AN5	13mm RC Syringe Filter, 0.45µm	500pk
Nitrocellulose, 13mm			
NC	13NC020AN	13mm NC Syringe Filter, 0.20µm	100pk
	13NC020AN5	13mm NC Syringe Filter, 0.20µm	500pk
	13NC045AN	13mm NC Syringe Filter, 0.45µm	100pk
	13NC045AN5	13mm NC Syringe Filter, 0.45µm	500pk

25mm Syringe Filters: 0.45µm, 0.70µm, 1.00µm, 1.20µm & 3.10µm

Glass, 25mm			
GLASS	25GL100AN	25mm Syr. Filter, 1.0µm Glass Membrane	100pk
	25GL100AN5	25mm Syr. Filter, 1.0µm Glass Membrane	500pk
	25GL120AN	25mm Syr. Filter, 1.2µm Glass Membrane	100pk
	25GL120AN5	25mm Syr. Filter, 1.2µm Glass Membrane	500pk
	25GL310AN	25mm Syr. Filter, 3.10µm Glass Membrane	100pk
	25GL310AN5	25mm Syr. Filter, 3.10µm Glass Membrane	500pk

25mm Syringe Filters: 0.20µm & 0.45µm

	Catalog No.	Description	Qty
CA	Cellulose Acetate, 25mm		
	25CP020AN	25mm CA Syringe Filter, 0.20µm	100pk
	25CP020AN5	25mm CA Syringe Filter, 0.20µm	500pk
	25CP045AN	25mm CA Syringe Filter, 0.45µm	100pk
	25CP045AN5	25mm CA Syringe Filter, 0.45µm	500pk
	Cellulose Acetate, 25mm, STERILE		
	25CS020AS	STERILE 25mm CA Syringe Filter, 0.20µm	50pk
	25CS045AS	STERILE 25mm CA Syringe Filter, 0.45µm	50pk
PTFE	PTFE, 25mm		
	25JP020AN	25mm PTFE Syringe Filter, 0.20µm	100pk
	25JP020AN5	25mm PTFE Syringe Filter, 0.20µm	500pk
	25JP045AN	25mm PTFE Syringe Filter, 0.45µm	100pk
	25JP045AN5	25mm PTFE Syringe Filter, 0.45µm	500pk
NY	Nylon, 25mm		
	25NP020AN	25mm NY Syringe Filter, 0.20µm	100pk
	25NP020AN5	25mm NY Syringe Filter, 0.20µm	500pk
	25NP045AN	25mm NY Syringe Filter, 0.45µm	100pk
	25NP045AN5	25mm NY Syringe Filter, 0.45µm	500pk
PP	Polypropylene, 25mm		
	25PP020AN	25mm PP Syringe Filter, 0.20µm	100pk
	25PP020AN5	25mm PP Syringe Filter, 0.20µm	500pk
	25PP045AN	25mm PP Syringe Filter, 0.45µm	100pk
	25PP045AN5	25mm PP Syringe Filter, 0.45µm	500pk
PES	Polyethersulfone, 25mm		
	25PS020AN	25mm PES Syringe Filter, 0.20µm	100pk
	25PS020AN5	25mm PES Syringe Filter, 0.20µm	500pk
	25PS045AN	25mm PES Syringe Filter, 0.45µm	100pk
	25PS045AN5	25mm PES Syringe Filter, 0.45µm	500pk
PVDF	PVDF, 25mm		
	25PV020AN	25mm PVDF Syringe Filter, 0.20µm	100pk
	25PV020AN5	25mm PVDF Syringe Filter, 0.20µm	500pk
	25PV045AN	25mm PVDF Syringe Filter, 0.45µm	100pk
	25PV045AN5	25mm PVDF Syringe Filter, 0.45µm	500pk
RC	Regenerated Cellulose, 25mm		
	25RC020AN	25mm RC Syringe Filter, 0.20µm	100pk
	25RC020AN5	25mm RC Syringe Filter, 0.20µm	500pk
	25RC045AN	25mm RC Syringe Filter, 0.45µm	100pk
	25RC045AN5	25mm RC Syringe Filter, 0.45µm	500pk
NC	Nitrocellulose, 25mm		
	25NC020AN	25mm NC Syringe Filter, 0.20µm	100pk
	25NC020AN5	25mm NC Syringe Filter, 0.20µm	500pk
	25NC045AN	25mm NC Syringe Filter, 0.45µm	100pk
	25NC045AN5	25mm NC Syringe Filter, 0.45µm	500pk
GLASS PLUS	Glass Plus Pre Filter Membrane		
	25PG045AN	25mm, 0.45µm PP/Glass 1.00µm Syr. Filter	100pk
	25PG045AN5	25mm, 0.45µm PP/Glass 1.00µm Syr. Filter	500pk
	25JG045AN	25mm, 0.45µm PTFE /Glass 1.00µm Syr. Filter	100pk
	25JG045AN5	25mm, 0.45µm PTFE /Glass 1.00µm Syr. Filter	500pk
	25NG045AN	25mm, 0.45µm Nylon/Glass 1.00µm Syr. Filter	100pk
	25NG045AN5	25mm, 0.45µm Nylon/Glass 1.00µm Syr. Filter	500pk



13mm



25mm

Membrane	Application
Cellulose Acetate (CA)	<ul style="list-style-type: none"> • Protein and Enzyme Filtration, Fluid Sterilization, Biological Fluid Filtration Sterilization, Tissue Culture Media Sterilization • Diagnostic Cytology, Receptor Binding Studies • Enhanced Recovery of Fastidious Gram Positive Organisms • Ideal for Aqueous Solutions • Very Low Protein Retention • 0.20µm for Fluid Sterilization • Naturally Hydrophilic
Teflon (PTFE)	<ul style="list-style-type: none"> • Filtration of Strong Acids & Aggressive Solvents • Venting Applications • Phase Separations • Strong Hydrophobicity
Nylon (NY)	<ul style="list-style-type: none"> • Ideal for use in General Filtration or Medical Assays & HPLC Sample Prep • High Protein Binding Capacity: Immobilizes Antigens, Antibodies & other Proteins • Naturally Hydrophilic
Polypropylene (PP)	<ul style="list-style-type: none"> • HPLC Sample Prep Requiring Low Detection Levels • Aqueous & Organic Solvent Filtration • Ion Chromatography • Naturally Hydrophilic
Polyethersulfone (PES)	<ul style="list-style-type: none"> • Ideal for use in Life Science Applications to Remove Particulates During General Filtration • Low Protein and Drug Binding Characteristics
Polyvinylidene Fluoride (PVDF)	<ul style="list-style-type: none"> • Sterilizing Filtration of Biological Solutions • Clarifying Filtration of Biological Solutions • Provides High Flow Rates & Throughput • Low Extractability & Broad Chemical Compatibility • Hydrophobic
Regenerated Cellulose (RC)	<ul style="list-style-type: none"> • Extremely Versatile – Can be used with almost any lab procedure • Chemically resistant with both Aqueous & Organic Samples • Very Low Binding Coefficient
Nitrocellulose (NC)	<ul style="list-style-type: none"> • Medical Assays: HCG • HIV • IH • Chlamydia • Drugs of Abuse, Pathogenic Microorganisms • Environmental Contaminants
Glass Fiber (GF)	<ul style="list-style-type: none"> • Use as a Pre-filter to Extend Membrane Life • Water & Air Pollution Analysis • Liquid Clarification • Cell Harvesting
Glass Fiber Plus	<ul style="list-style-type: none"> • Pre-Filtration with the Glass Membrane & the Application for the Other Membrane

8mm, 12 x 32mm Vials

For Leap™, Perkin Elmer™, Shimadzu®, Spectra Physics™ and Waters® Autosamplers

8mm Screw Vials

Cat. No.	Description	Qty
21231-Case	2mL Clear Glass	1000
21231M-Case	2mL Clear Glass, Marking Spot	1000
21232-Case	2mL Amber Glass	1000
21232M-Case	2mL Amber Glass, Marking Spot	1000

Limited Volume MicroVials

Cat. No.	Description	Qty
21210	100µL TPX MicroVial	1000
21274-Case	300µL Polypropylene MicroVial	1000
21203	100µL Clear Glass MicroVial	100
21203A	100µL Amber Glass MicroVial	100
21229-Case	1.5mL Polypropylene MicroVial	1000

*TPX is a clear PP material.

Screw Caps with Liners for 8mm Screw Vials

Cat. No.	Description	Qty
20012-Case	Polypropylene Integral Lined Cap	1000

For Shimadzu® Autosamplers

Cat. No.	Description	Qty
52003-Case	Soft Silicone/PTFE Lined Black Cap	1000
52003SL-Case	Pre-Slit Silicone/PTFE Lined Black Cap	1000

For All Other Autosamplers

Cat. No.	Description	Qty
20028-Case	Silicone/PTFE Lined Black Cap	1000
20028SL-Case	Pre-Slit Silicone/PTFE Lined Black Cap	1000
21132-Case	Solid Black Cap, PTFE Lined	1000

Vial Inserts

Cat. No.	Description	Volume	Qty
20301-Case	Glass, Tapered	100µL	500
20502-Case	Polypropylene, Bottom Spring	100µL	1000
20501-Case	Glass, Bottom Spring	150µL	500
20303-Case	Glass, Flat Bottom	250µL	1000

Advantage™ 8mm Vials & Caps in Assembled Kits

For Shimadzu® Autosampler

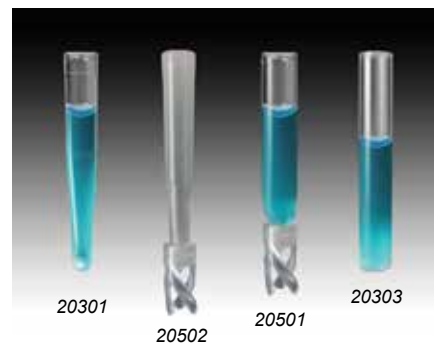
Cat. No.	Description	Qty
52008-Case	2mL Clear Glass Screw Vial, Soft Silicone/PTFE Lined Cap	1000

For Spectra-Physics® Autosamplers

Cat. No.	Description	Qty
52004-Case	2mL Clear Glass Screw Vial, Silicone/PTFE Lined Cap	1000
52004A-Case	2mL Amber Glass Screw Vial, Silicone/PTFE Lined Cap	1000



21231 21231M 21232 21232M



PRODUCT NOTE:

We have the capability to Silanize all of our glass inserts & vials

Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.



9mm Twist Low Volume Vials

Cat. No.	Description	Qty
88255	100µL PP Clear Glass MicroVial	100
88264-Case	100µL Polypropylene MicroVial	1000
88275	100µL TPX* MicroVial	1000
81233	300µL Clear Glass MicroVial	100
81233A	300µL Amber Glass MicroVial	100
81233AM	300µL Amber Glass MicroVial w/ Marking Spot	100
88234	500µL Polypropylene MicroVial	1000
88732-Case	750µL Polypropylene MicroVial - <i>Good for Ion Chromatography</i>	1000

*TPX is a clear PP material.

9mm Wide Mouth Twist Vials

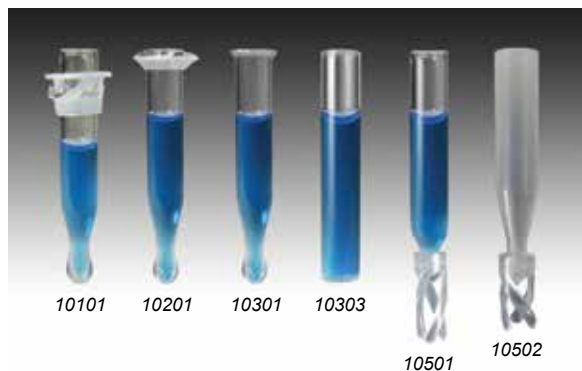
Compatible with Robotic Arm Autosamplers:
Agilent™, Waters®, Leap™, Perkin Elmer™ and Shimadzu®

Cat. No.	Description	Qty
88532-Case	1.5mL Polypropylene	1000
11239	1.5mL Clear Glass	100
88517-Case	1.7mL Polypropylene - <i>Good for Ion Chromatography</i>	1000
88120-Case	2mL Clear Glass	1000
88121-Case	2mL Clear Glass, Marking Spot	1000
88119-Case	2mL Amber Glass	1000
88122-Case	2mL Amber Glass, Marking Spot	1000
88133-Case	2mL Clear Glass, Round Bottom	1000
88133A-Case	2mL Amber Glass, Round Bottom	1000



Pre-Assembled Twist Caps

Cat. No.	Description	Qty
80095-Case	Blue, PTFE/Silicone/PTFE Liner	1000
80044-Case	Blue, Natural Rubber/PTFE Liner	1000
80077-Case	Blue, Silicone/PTFE Liner	1000
80077SL-Case	Blue, Pre-Slit Silicone/PTFE Liner	1000
80077SLG-Case	Green, Pre-Slit Silicone/PTFE Liner	1000
80077SLR-Case	Red, Pre-Slit Silicone/PTFE Liner	1000
80077SLY-Case	Yellow, Pre-Slit Silicone/PTFE Liner	1000
80055-Case	Black Solid Cap w/ PTFE Liner	1000



Vial Inserts

Cat. No.	Description	Qty
10601-Case	50µL Glass, Bottom Spring	500
10201-Case	150µL Glass, Poly Top Flange	500
20501-Case	150µL Bottom Spring Glass Insert	500
10101-Case	200µL Glass, Top Spring	500
10301-Case	250µL Glass, Flange	500
10501	300µL Glass, Bottom Spring	100
10501-Case	300µL Glass, Bottom Spring	500
10502-Case	250µL Polypropylene, Bottom Spring	1000
10303-Case	300µL Glass, Flat Bottom	1000
10304-Case	350µL Glass, Flat Bottom & ID Ring	1000
10305-Case	350µL Longer Glass, Flat Bottom & ID Ring	1000



88535



58126-Case



58125A-Case

9mm Wide Mouth Twist Vials & Caps in Unassembled Kits

Cat. No.	Description	Qty
88535-Case	2mL Clear Glass, PTFE/Silicone Lined Cap	1000
88535A-Case	2mL Amber Glass, PTFE/Silicone Lined Cap	1000
88535SL-Case	2mL Clear Glass, Pre-Slit PTFE/Silicone Lined Cap	1000
88535ASL-Case	2mL Amber Glass, Pre-Slit PTFE/Silicone Lined Cap	1000
88536-Case	2mL Clear Glass, PTFE/Silicone/PTFE Lined Cap	1000
88536A-Case	2mL Amber Glass, PTFE/Silicone/PTFE Lined Cap	1000
58095-Case	2mL Clear Glass, Marking Spot, PTFE/Silicone/ PTFE Lined Cap	1000
58095A-Case	2mL Amber Glass, Marking Spot, PTFE/Silicone/ PTFE Lined Cap	1000
58044-Case	2mL Clear Glass, Marking Spot, Natural Rubber/ PTFE Lined Cap	1000
58044A-Case	2mL Amber Glass, Marking Spot, Natural Rubber/ PTFE Lined Cap	1000
58077-Case	2mL Clear Glass, Marking Spot, Silicone/ PTFE Lined Cap	1000
58077A-Case	2mL Amber Glass, Marking Spot, Silicone/ PTFE Lined Cap	1000
58088-Case	2mL Clear Glass, Marking Spot, Pre-Slit Silicone/ PTFE Lined Cap	1000
58088A-Case	2mL Amber Glass, Marking Spot, Pre-Slit Silicone/ PTFE Lined Cap	1000

9mm Wide Mouth Twist Vials & Caps in Assembled Kits

Cat. No.	Description	Qty
58124-Case	2mL Clear Glass, Natural Rubber/PTFE Lined Cap	1000
58144-Case	2mL Amber Glass, Natural Rubber/PTFE Lined Cap	1000
58125-Case	2mL Clear Glass, Marking Spot, PTFE/Silicone/PTFE Lined Cap	1000
58125A-Case	2mL Amber Glass, Marking Spot, PTFE/Silicone/PTFE Lined Cap	1000
58128-Case	2mL Clear Glass, PTFE/Silicone Lined Cap	1000
58128A-Case	2mL Amber Glass, PTFE/Silicone Lined Cap	1000
58126-Case	2mL Clear Glass, Pre-Slit PTFE/Silicone Lined Cap	1000
58126A-Case	2mL Amber Glass, Pre-Slit PTFE/Silicone Lined Cap	1000
58127-Case	2mL Clear Glass, Marking Spot, PTFE/Silicone Lined Cap	1000
58127A-Case	2mL Amber Glass, Marking Spot, PTFE/Silicone Lined Cap	1000
58129-Case	2mL Clear Glass, Marking Spot, Pre-Slit PTFE/Silicone Lined Cap	1000
58129A-Case	2mL Amber Glass, Marking Spot, Pre-Slit PTFE/Silicone Lined Cap	1000

Vial Trays

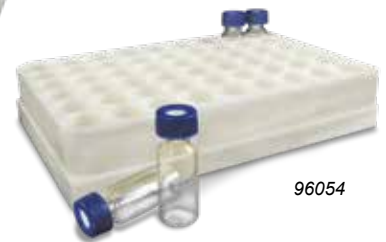
Cat. No.	Description	Qty
90003	Stackable Snap Rack for 12mm Vials	Each

Base Plates for 12 x 32mL (2mL) Vials

Cat. No.	Description	Qty
96096	96-Well Custom Flat Bottom Base Plate	Each
96054	54 Well Custom Flat Bottom Base Plate	Each
481232	48 Well Custom Flat Bottom Base Plate	Each



90003



96054



96096



481232



9mm Screw Vials & Caps in Unassembled Kits



Cat. No.	Description	Qty
99006-Case	2mL Clear Glass Vial, PTFE/Silicone Lined Cap	1000
99006G-Case	2mL Clear Glass Vial, PTFE/Silicone Lined Green Cap	1000
99006R-Case	2mL Clear Glass Vial, PTFE/Silicone Lined Red Cap	1000
99006W-Case	2mL Clear Glass Vial, PTFE/Silicone Lined White Cap	1000
99006M-Case	2mL Clear Glass Vial w/ Marking Spot, PTFE/Silicone Lined Cap	1000
99006SL-Case	2mL Clear Glass Vial, Pre-Slit PTFE/Silicone Lined Cap	1000
99006MSL-Case	2mL Clear Glass Vial w/ Marking Spot, Pre-Slit PTFE/Silicone Lined Cap	1000
99006A-Case	2mL Amber Glass Vial w/ Marking Spot, PTFE/Silicone Lined Cap	1000
99006ASL-Case	2mL Amber Glass Vial w/ Marking Spot, Pre-Slit PTFE/Silicone Lined Cap	1000



9mm Clear Tear Drop Vials & Caps in Unassembled Kits (Maximum Recovery)

Cat. No.	Description	Qty
99260	1.5mL Clear Glass, PTFE/Silicone Lined Screw Cap	100
99290	1.5mL Clear Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100
99290A	1.5mL Amber Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100
87878	1.2mL Clear Glass, Maximum Recovery 12 x 32mm Vial, Assembled Screw Cap w/ PTFE/Silicone Liner, < 2µL Dead Volume	100
87878SL	1.2mL Clear Glass, Maximum Recovery 12 x 32mm Vial, Assembled Screw Cap w/ Pre-slit PTFE/Silicone Liner, < 2µL Dead Volume	100
86868SL	1.2mL Clear Glass, Max. Recovery 12 x 32mm Vial, Assembled Screw Cap w/ Pre-slit, Non-Bonded PTFE/Silicone Liner, < 2µL Dead Volume	100



9mm Screw Vials with 300µL Fused Inserts & Caps in Unassembled Kits

Cat. No.	Description	Qty
99042	2mL Clear Glass, PTFE/Silicone Lined Screw Cap	100
99042A	2mL Amber Glass, PTFE/Silicone Lined Screw Cap	100
99024	2mL Clear Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100
99024A	2mL Amber Glass, Pre-Slit PTFE/Silicone Lined Screw Cap	100
99062	2mL Clear Glass, PTFE/Silicone/PTFE Lined Screw Cap	100
99062A	2mL Amber Glass, PTFE/Silicone/PTFE Lined Screw Cap	100

9mm Screw Caps

Cat. No.	Description	Qty
99669-Case	9mm Screw Caps with PTFE/Silicone Liners	1000
99669G-Case	9mm Green Screw Caps with PTFE/Silicone Liners	1000
99669R-Case	9mm Red Screw Caps with PTFE/Silicone Liners	1000
99669W-Case	9mm White Screw Caps with PTFE/Silicone Liners	1000

Minimum Interference, Maximum Performance!



Precision MSQ™ (Mass Spec Quality)



Why Precision MSQ is the best choice:

Vials made with standard glass contain impurities which can leach into your sample. This can change the pH level of your sample and ultimately alter the accuracy of your results.

Precision MSQ Vials are made with the purest materials under the strictest mandates for cleanliness right here in the United States. Less impurities in the glass means less alteration of your sample and far more accurate results.

Precision MSQ Vials & Caps in Unassembled Kits

- Kits contain (100) 9mm, 2mL unassembled vials/caps
- Cases include 10 boxes of 100 vials/caps
- Ultra pure MSQ PTFE/silicone liners
- Screw thread or snap closures available


Cat. No.	Vial Description	Cap Style	Qty
99005-Case	2mL Clear Glass MSQ Vials	Screw Thread Caps w/ MSQ Liners	1000
99005SL-Case	2mL Clear Glass MSQ Vials	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000
99005M-Case	2mL Clear Glass MSQ Vials w/ Marking Spot	Screw Thread Caps w/ MSQ Liners	1000
99005MSL-Case	2mL Clear Glass MSQ Vials w/ Marking Spot	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000
99015M-Case	2mL Clear Glass MSQ Vials w/ Marking Spot	Snap Caps w/ MSQ Liners	1000
99015MSL-Case	2mL Clear Glass MSQ Vials w/ Marking Spot	Snap Caps w/ Pre-Slit MSQ Liners	1000
99005A-Case	2mL Amber Glass MSQ Vials	Screw Thread Caps w/ MSQ Liners	1000
99005ASL-Case	2mL Amber Glass MSQ Vials	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000
99005AM-Case	2mL Amber Glass MSQ Vials w/ Marking Spot	Screw Thread Caps w/ MSQ Liners	1000
99005AMSL-Case	2mL Amber Glass MSQ Vials w/ Marking Spot	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000
99015AM-Case	2mL Amber Glass MSQ Vials w/ Marking Spot	Snap Caps w/ MSQ Liners	1000
99015AMSL-Case	2mL Amber Glass MSQ Vials w/ Marking Spot	Snap Caps w/ Pre-Slit MSQ Liners	1000
99003M	2mL Clear Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ MSQ Liners	1000
99003MSL	2mL Clear Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000
99003AM	2mL Amber Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ MSQ Liners	1000
99003AMSL	2mL Amber Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000



Screw Thread Caps with MSQ Liners

Cat. No.	Description	Qty
91944-Case	Screw Thread Caps w/ MSQ Liners	1000
91946-Case	Screw Thread Caps w/ Pre-Slit MSQ Liners	1000

Certification of MSQ Vials



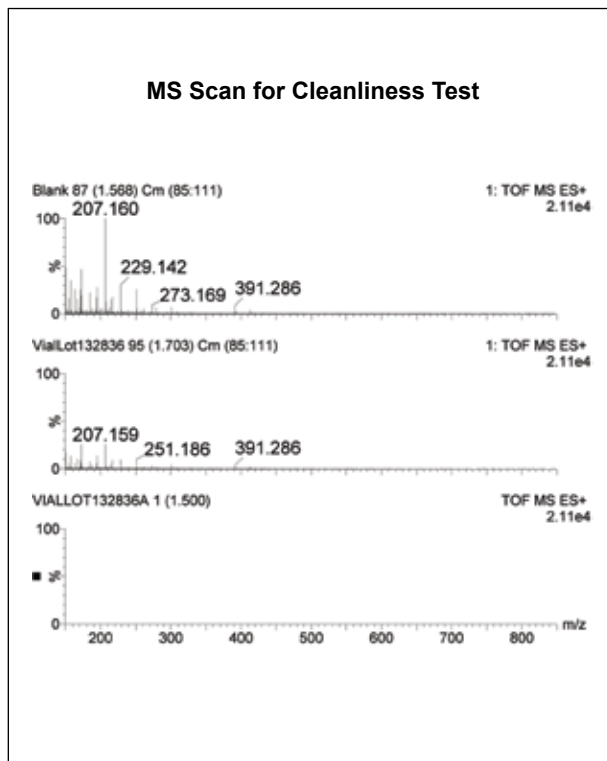
Analytical
SALES & SERVICES, Inc.

Certificate of Analysis

CERTIFIED

Attribute	Test	Result
Glass	Borosilicate, Type 1, Class A, 33 Expansion Glass	Pass
Dimensional Test	Height	Pass
	Diameter	Pass
	Bottom Thickness	Pass
	Neck/Thread	Pass
MS Scan Cleanliness Test	UPLC-MS/MS (TOF MS ES+)	Pass

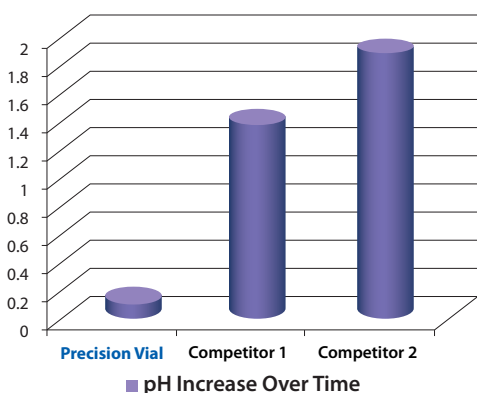
Analytical Sales & Services, Inc.
 179 Route 206, Flanders, NJ 07836
 P: 973-616-0700 • F: 973-616-0133
 E: info@analytical-sales.com • W: www.analytical-sales.com



PRODUCT NOTE:

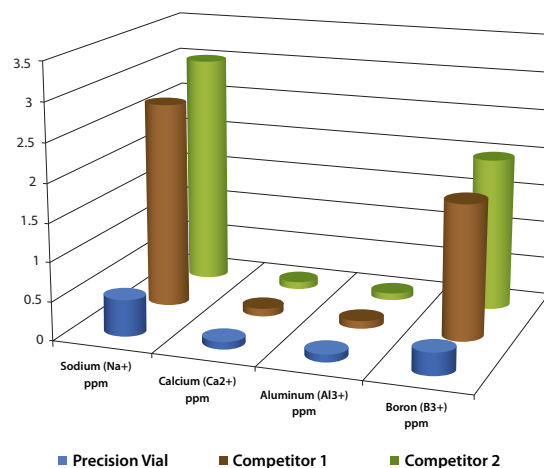
- Regular stock kept on hand
- Standing orders for your convenience are available
- Ultra competitive pricing

pH Leaching Evaluation



Units represent increase in pH measurement of water after standing in vial for 4 hours

Metals Extraction Evaluation



Levels are expressed in ppm. All vials were extracted with water for 4 hours prior to analysis. ICP analysis was used to measure metal ions.

10mm, 12 x 32mm Wide Mouth Screw Vials For Shimadzu® & Waters® Autosamplers



10mm Wide Mouth Screw Vials

Cat. No.	Description	Qty
11231-Case	2mL Clear Glass	1000
11231M-Case	2mL Clear Glass, Marking Spot	1000
11232-Case	2mL Amber Glass	1000
11232M-Case	2mL Amber Glass, Marking Spot	1000
12320-Case	2mL Clear Glass, Round Bottom	1000
12320A-Case	2mL Amber Glass, Round Bottom	1000
11203	300µL Clear Glass MicroVial	100
11203A	300µL Amber Glass MicroVial	100
11234-Case	500µL TPX* MicroVial	1000
11235-Case	500µL Polypropylene MicroVial	1000
11236-Case	750µL Polypropylene MicroVial	1000
11237-Case	750µL TPX* MicroVial	1000

*TPX is a clear polypropylene material.

10mm Solid Caps with Liners

Cat. No.	Description	Qty
11555	Black Polypropylene, PTFE Liner	1000

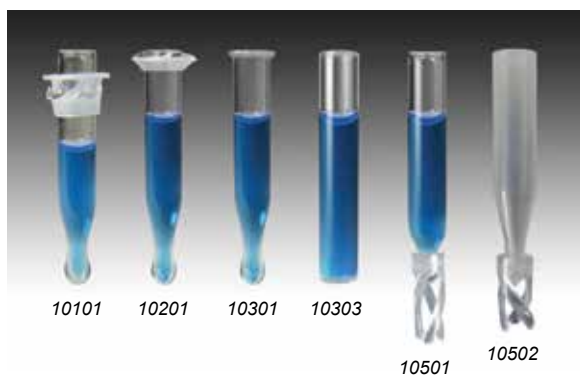


10mm Screw Caps with Liners

Cat. No.	Description	Qty
10012-Case	Polypropylene Cap & Liner	1000
10012ST-Case	Polypropylene Cap & Starburst Liner	1000
10028-Case	Black with Silicone/PTFE Liner	1000
10028SL-Case	Black, w/ Pre-Slit Silicone/PTFE Liner	1000
10028B-Case	Blue, with Silicone/PTFE Liner	1000
10028R-Case	Red, with Silicone/PTFE Liner	1000
10028Y-Case	Yellow, with Silicone/PTFE Liner	1000

Vial Inserts

Catalog No.	Description	Qty
10601-Case	50µL Glass, Bottom Spring	500
10201-Case	150µL Glass, Poly Top Flange	500
10101-Case	200µL Glass, Top Spring	500
10301-Case	250µL Glass, Flange	500
10501	300µL Glass, Bottom Spring	100
10501-Case	300µL Glass, Bottom Spring	500
10502-Case	250µL Polypropylene, Bottom Spring	1000
10303-Case	300µL Glass, Flat Bottom	1000
10304-Case	350µL Glass, Flat Bottom & ID Ring	1000
10305-Case	350µL Longer Glass, Flat Bottom & ID Ring	1000



10mm Wide Mouth Screw Top Vials with Glass Inserts

Catalog No.	Description	Qty
51125	Clear Glass Vial with 300µL Bottom Spring Glass Insert	100
11255	Amber Glass Vial with 300µL Bottom Spring Glass Insert	100

10mm, 12 x 32mm Screw Vial Kits & 11mm, 12 x 32mm Wide Mouth Crimp Vials



10mm Wide Mouth Screw Vials & Caps in Unassembled Kits

Catalog No.	Description	Qty
52248-Case	2mL Clear Glass, Silicone/PTFE Lined Cap	1000
52248SL-Case	2mL Clear Glass, Pre-Slit Silicone/PTFE Lined Cap	1000
52248A-Case	2mL Amber Glass, Silicone/PTFE Lined Cap	1000
52248ASL-Case	2mL Amber Glass, Pre-Slit Silicone/PTFE Lined Cap	1000
53348-Case	2mL Clear Glass, Marking Spot, Silicone/PTFE Lined Cap	1000
53348SL-Case	2mL Clear Glass, Marking Spot, Pre-Slit Silicone/PTFE Lined Cap	1000
53348A-Case	2mL Amber Glass, Marking Spot, Silicone/PTFE Lined Cap	1000
53348ASL-Case	2mL Amber Glass, Marking Spot, Pre-Slit Silicone/PTFE Lined Cap	1000

10mm Wide Mouth Screw Vials & Caps in Assembled Kits

Catalog No.	Description	Qty
52009-Case	2mL Clear Glass, Silicone/PTFE Lined Cap	1000
52009SL-Case	2mL Clear Glass, Pre-Slit Silicone/PTFE Lined Cap	1000
52009A-Case	2mL Amber Glass, Marking Spot, Silicone/PTFE Lined Cap	1000
52348SL-Case	2mL Amber Glass, Marking Spot, Pre-Slit Silicone/PTFE Lined Cap	1000



11mm Wide Mouth Crimp Vials

for Agilent™, Leap™ and Perkin Elmer™ Autosamplers

Cat. No.	Description	Qty
11209	1.5mL Clear Glass	100
11271-Case	1.7mL Clear Glass, Round Bottom	1000
11221-Case	2mL Clear Glass	1000
11222-Case	2mL Amber Glass	1000
12203	300µL Clear Glass MicroVial	100
12203A	300µL Amber Glass MicroVial	100

Wide Mouth Crimp Vial Inserts

Cat. No.	Volume	Description	Qty
20502-Case	100µL	Polypropylene, Bottom Spring	1000
20501-Case	150µL	Glass, Bottom Spring	500
20303-Case	250µL	Glass, Flat Bottom	1000
20304-Case	250µL	Glass, Flat Bottom, ID Ring	1000
20305-Case	250µL	Polypropylene, Flat Bottom	1000

20033



Aluminum Crimp Cap Seals

Cat. No.	Description	Qty
20033-Case	Natural Rubber/PTFE Lined Cap	1000
20034-Case	Silicone/PTFE Lined Cap	1000
20035-Case	Silicone/PTFE/Silicone Lined Cap	1000
20032-Case	White PTFE/White Silicone Lined Cap	1000
20032B-Case	Blue Cap w/ White PTFE/White Silicone Lined Cap	1000



90120



90100

Crimpers, Decrimpers & Decappers

Cat. No.	Description	Qty
90120	Vial Crimper for 11mm OD Vials	Each
90080	Vial Crimper for 8mm OD Vials	Each
90200	Vial Crimper for 20mm OD Vials	Each
90121	Vial Decrimper for 11mm OD Vials	Each
90081	Vial Decrimper for 8mm OD Vials	Each
90131	Vial Decrimper for 13mm OD Vials	Each
90100	Decapping Pliers for All Vials	Each

11 mm, 12 x 32mm Crimp/Snap Vials For Agilent™, Leap™ and Perkin Elmer™ Autosamplers



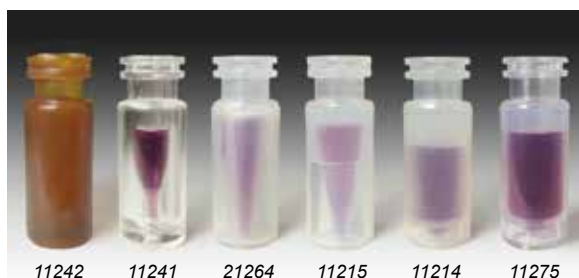
Micro V Clear Glass Vial & Cap Kits

Cat. No.	Description	Qty
87787	1.5mL Clear Snap/Crimp Vial, PTFE/Silicone Lined Cap, Blue	100
87787SL	1.5mL Clear Snap/Crimp Vial, Pre-Slit PTFE/Silicone Lined Cap, Black	100
87203	300µL Clear Glass MicroVial w/Marking Spot	100
87233	300µL Amber Glass MicroVial	100



11mm Crimp/Snap Wide Mouth Vials

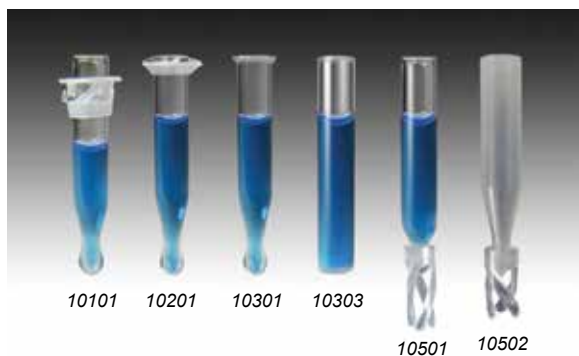
Cat. No.	Description	Qty
11211-Case	2mL Clear Glass	1000
11211M-Case	2mL Clear Glass w/ Marking Spot	1000
11212-Case	2mL Amber Glass	1000
11212M-Case	2mL Amber Glass w/ Marking Spot	1000



Limited Volume Crimp/Snap Vials

Cat. No.	Description	Qty
11242	100µL Glass/ Amber Plastic MicroVial	100
11210	100µL TPX MicroVial	1000
11230-Case	100µL Clear Polypropylene MicroVial	1000
11241	100µL Glass/Clear Plastic MicroVial	100
21264-Case	100µL Polypropylene MicroVial	1000
11254-Case	500µL Clear Polypropylene MicroVial	1000
11215-Case	500µL Polypropylene MicroVial	1000
11217-Case	500µL TPX MicroVial	1000
11261	600µL Glass/Clear Plastic MicroVial	100
11275-Case	750µL Clear Polypropylene MicroVial	1000
11214-Case	750µL Polypropylene MicroVial	1000
11218-Case	750µL TPX MicroVial	1000

*TPX is a clear PP material.



Vial Inserts

Cat. No.	Description	Qty
10601-Case	50µL Glass, Bottom Spring	500
10201-Case	150µL Glass, Poly Flange	500
10101-Case	200µL Glass, Top Spring	500
10301-Case	250µL Glass, Flange	500
10501-Case	300µL Glass, Bottom Spring	500
10502-Case	250µL Polypropylene, Bottom Spring	1000
10303-Case	300µL Glass, Flat Bottom	1000
10304-Case	350µL Glass, Flat Bottom & ID Ring	1000
10305-Case	350µL Longer Glass, Flat Bottom	1000



Crimp/Snap Caps

Cat. No.	Description	Qty
20041-Case	PTFE Lined Cap	1000
20041ST-Case	PTFE Starburst Lined Cap	1000
20044-Case	Clear , Silicone/PTFE Lined Cap	1000
20044B-Case	Blue , Silicone/PTFE Lined Cap	1000
20044SL-Case	Clear , Pre-Slit , Silicone/PTFE Lined Cap	1000
20044ST-Case	Clear , Starburst Slit Silicone/PTFE Lined Cap	1000

* Other colors options are available



Base Plates

Custom 12x32mm Vial Storage and Transfer Bases

Cat. No.	Description	Qty
96054	54 Well Custom Flat Bottom Base Plate	Each
481232	48 Well Custom Flat Bottom Base Plate	Each



12-Well Flat Bottom Custom Base Plate

• Holds 20mL Scintillation Vials

Cat. No.	Description	Qty
961234	12-Well Custom Flat Bottom Base Plate	Each



96-Well Custom Base Plate

• Holds 12x32mm Vials

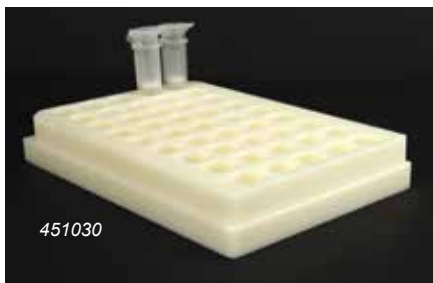
Cat. No.	Description	Qty
96096	96 Well Custom Flat Bottom Base Plate	Each



24-Well Custom Base Plate

• Holds 17x60mm 8mL Scintillation Vials

Cat. No.	Description	Qty
24125	24-Well Custom Solid Bottom Base Plate	Each



Micro-Centrifuge Vial Storage and Transfer Bases

Cat. No.	Description	Qty
24150	50 Well Custom Flat Bottom Base Plate	Each
451030	45 Well Custom Flat Bottom Base Plate	Each



Blue Vial Racks: 25 Position Stackable

Cat. No.	Description	Qty
9000	For 12mm Vials, 25 Position	5
90001	For 8mm Vials, 25 Position	5
90002	For 15mm Vials, 25 Position	5

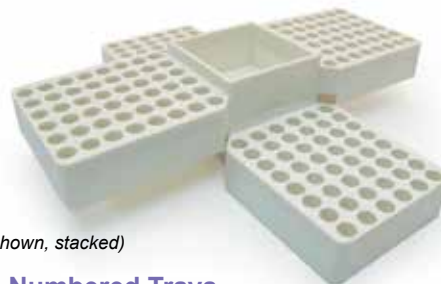


24-Well Custom Base Plate

• Holds 15x46mm 4mL Vials

Cat. No.	Description	Qty
240406	24-Well Custom Open Bottom Base Plate	Each

90004
(two racks shown, stacked)



Snap Rack and Numbered Trays

Cat. No.	Description	Qty
90003	Snap Rack for 12mm Vials, Holds 50	Each
90004	Snap Rack for 8mm Vials, Holds 96	Each

13mm Screw Vials, 15 x 45mm

For Shimadzu® and Waters® Autosamplers



13mm Screw Vials, 15 x 45mm

Cat. No.	Description	Qty
31531-Case	4mL Clear Glass	1000
31531M-Case	4mL Clear Glass, Marking Spot	1000
31531G-Case	4mL Clear Glass, Graduated Marking Spot	1000
31532-Case	4mL Amber Glass	1000
31532M-Case	4mL Amber Glass, Marking Spot	1000
31561	3.1mL Clear Glass MicroVial	100
31534-Case	Polypropylene, 2.5mL Insert	1000
31630-Case	Polypropylene, Molded 2.9mL Insert	1000
31530	Polypropylene, Molded 1.2mL Insert	1000
31333	Polypropylene MicroVial, Clear Glass 300µL Insert	100
31549	4mL Amber Glass, 15 x 49mm, for Insert #10196 (see page 34)	100



Vial Inserts for 15 x 45mm Vials

Cat. No.	Volume	Description	Qty
30501-Case	300µL	Glass, Bottom Spring	1000
30102-Case	300µL	Polypropylene, Top Spring	1000
30502-Case	300µL	Polypropylene, Bottom Spring	1000
30507-Case	700µL	Glass, Bottom Spring for 4mL, 15 x45 Vials	500



13mm Screw Caps with Liners

Cat. No.	Description	Qty
30020-Case	Polypropylene, Integral Lined Cap	1000
53009-Case	Polypropylene, Tan Silicone/PTFE Lined Cap	1000
53126-Case	Polypropylene, Red 0.65" Silicone/PTFE Lined Cap	1000
53126SL-Case	Polypropylene, Red Pre-Slit Silicone/PTFE Lined Cap	1000
53126ST-Case	Polypropylene, Red Starburst Slit Silicone/PTFE Lined Cap	1000
53127-Case	Polypropylene, Red 0.75" Silicone/PTFE Lined Cap	1000
570045-Case	Polypropylene, Starburst Slit Silicone/PTFE Lined Cap (For Hamilton Autosamplers)	1000

13mm Solid Screw Caps with Liners

Cat. No.	Description	Qty
31554-Case	PTFE Lined Cap	1000
31556-Case	Polycone Lined Cap	1000





13mm Screw Vials & Caps in Unassembled Kits

Cat. No	Description	Qty
53631-Case	4mL Clear Glass Vials, Black Polypropylene Caps with 0.60" Silicone/PTFE Liner	1000
53631A-Case	4mL Amber Glass Vials, Black Polypropylene Caps with 0.60" Silicone/PTFE Liner	1000
53731-Case	4mL Clear Glass Vials, Black Polypropylene Caps with 0.75" Silicone/PTFE Liner	1000
53731A-Case	4mL Amber Glass Vials, Black Polypropylene Caps with 0.75" Silicone/PTFE Liner	1000
53731AM-Case	4mL Amber Glass Vials with Marking Spot, Black Polypropylene Caps with 0.75" Silicone/PTFE Liner	1000



13mm Screw Vials & Caps in Assembled Kits

Cat. No.	Description	Qty
51516-Case	4mL Clear Glass, Silicone/PTFE Lined Caps	1000
51516SL-Case	4mL Clear Glass, Pre-Slit Silicone/PTFE Lined Caps	1000
51526-Case	4mL Amber Glass, Silicone/PTFE Lined Caps	1000
51526SL-Case	4mL Amber Glass, Pre-Slit Silicone/PTFE Lined Caps	1000
51527-Case	4mL Clear Glass, 0.075" Silicone/PTFE Lined Caps	1000
53151-Case	Clear Glass, Black PTFE Lined Caps	1000
53152-Case	Amber Glass, Black PTFE Lined Caps	1000



8x40 Shell Vials

Cat. No	Description	Qty
30871-Case	1mL Clear Glass Vial, Conical Starburst Lined Plug	1000
30872-Case	1mL Amber Glass Vial, Conical Starburst Lined Plug	1000

Polypropylene Shell Vials

Cat. No.	Description	Qty
39404-Case	3mL Polypropylene, Insert & Plug	1000



Polyethylene Snap Plugs

Cat. No.	Description	Qty
85008-Case	Advantage 8mm Polyethylene Snap Plug	1000
85008ST-Case	Advantage 8mm Polyethylene Snap Plug with Starburst Liner	1000



Solid Cap Storage Vials

• Assembled Vials with Solid Screw Caps & Teflon® Liners

Cat. No.	Description	Qty
ADV69302	4mL Clear Screw Vial, Solid Teflon® Lined Cap	144
ADV69302A	4mL Amber Screw Vial, Solid Teflon® Lined Cap	144
ADV69304	6mL Clear Screw Vial, Solid Teflon® Lined Cap	144
ADV69304S	6mL Silanized Clear Screw Vial, Solid Teflon® Cap	144
ADV69306	8mL Clear Screw Vial, Solid Teflon® Lined Cap	144
ADV69306A	8mL Amber Screw Vial, Solid Teflon® Lined Cap	144
ADV69308	11mL Clear Screw Vial, Solid Teflon® Lined Cap	144
ADV69308A	11mL Amber Screw Vial, Solid Teflon® Lined Cap	144
ADV69210	15mL Clear Screw Vial, Solid Teflon® Lined Cap	144
ADV69210A	15mL Amber Screw Vial, Solid Teflon® Lined Cap	144
ADV69318	30mL Clear Screw Vial, Solid Teflon® Lined Cap	144
ADV69340	40mL Clear Screw Vial, Solid Teflon® Lined Cap	72
ADV69340A	40mL Amber Screw Vial, Solid Teflon® Lined Cap	72
ADV69360A	60mL Amber Screw Vial, Solid Teflon Lined Cap	144

Advantage Pre-Assembled 2000 Class EPA/VOA Vial Kits

2000 Series Vials: Pre-cleaned to EPA Standards. The Certificate of Analysis and barcode label are not provided. A Certificate of Quality Environmental Compliance is issued, stating that the products have been pre-cleaned to meet and / or exceed the US EPA's Specifications and Guidance for Contaminant Free Sample Containers. Each case is labeled with the production lot number and custody seals.

Cat. No.	Description	Qty
ADV276720	20mL Clear Glass EPA/VOA Vials and Polypropylene Open Top Caps with Teflon/Silicone Liners	72
ADV276740	40mL Clear Glass EPA/VOA Vials and Polypropylene Open Top Caps with Teflon/Silicone Liners	72
ADV276840	40mL Amber Glass EPA/VOA Vials and Polypropylene Open Top Caps with Teflon/Silicone Liners	72
ADV276760	60mL Clear Glass EPA/VOA Vials and Polypropylene Open Top Caps with Teflon/Silicone Liners	72
ADV275540	40mL Clear Glass EPA/VOA Vials and Solid Polypropylene Caps with PTFE Liners	72

Advantage Pre-Assembled 3000 Class EPA/VOA Vial Kits

3000 Series Vials: Analyzed and issued a Certificate of Analysis stating that products meet and / or exceed all requirements as set forth in the US EPA's Specifications and Guidance for Contaminant Free Sample Containers. Each case of products is barcode labeled with the production lot number and is custody sealed.

Cat. No.	Description	Qty
ADV376720	20mL Clear Glass EPA/VOA Vials and Polypropylene Open Top Caps with Teflon/Silicone Liners	72
ADV376840	40mL Amber Glass EPA/VOA Vials and Polypropylene Open Top Caps with Teflon/Silicone Liners	72
ADV375540	40mL Clear Glass EPA/VOA Vials and Solid Polypropylene Caps with PTFE Liners	72
ADV376740	40mL PRE-CLEANED Clear Glass EPA/VOA Vials and PP Open Top Caps with Teflon/Silicone Liners	72

Scintillation (22-400) Vials & Black Caps in Assembled Kits

Cat. No.	Description	Qty
ADV33320	20mL Clear Borosilicate Glass Vial, Solid Polycone Lined Cap	500
ADV33120	20mL Clear Borosilicate Glass, Solid Teflon® Lined Cap	500
ADV33120A	20mL Amber Borosilicate Glass, Solid Teflon® Lined Cap	144
ADV33220	20mL Clear Borosilicate Glass Vial, Foil Lined PP Cap	500

Unassembled Scintillation Vials and Black Caps

Cat. No.	Description	Qty
ADV33020	20mL Clear Borosilicate Glass Vials (22-400)	500
ADV33120-Cap	Solid Polypropylene Cap, Poly Teflon® Liner (22-400)	1000
ADV33020A	20mL Amber Borosilicate Glass Vials (22-400)	144
ADV33020-CAP	White Polypropylene Cap (22-400)	72
ADV33020S	20mL Silanized Clear Borosilicate Glass Vials (22-400)	500

Scintillation Vial Tray

• Holds 20mL Scintillation Vials

Cat. No.	Description	Qty
961234	12 Well Custom Flat Bottom Base Plate	Each





Polypropylene Cryovials & Caps

- Can be used at extreme temperatures, from -196°C to +121°C
- Withstands centrifugation
- Autoclavable
- All polypropylene construction
- Tubes are certified RNase, DNase, Pyrogen & DNA-Free

Cat. No.	Description	Qty
23012	Sterile 2mL Cryovials w/ Internal Threads and Cap w/ Red Silicone O-ring	1000
23112	2mL Self-standing Vials w/ Internal Threads, Non-sterile, Caps Sold Separately	1000
23110	Screw Caps for Internal Thread 2mL Vials	1000
ADV2412	Sterile 4mL Cryovial w/ Internal Threads and Cap w/ White Silicone Washer	1000



Polypropylene Micro-Centrifuge Tubes

Cat. No.	Description	Qty
111540	1.5mL PP Micro-Centrifuge Tube w/ Attached Flat Cap, Conical Bottom	1000
111552	2.0mL PP Micro-Centrifuge Tube w/ Attached Flat Cap, Conical Bottom	1000



Polypropylene Microtubes

Cat. No.	Description	Qty
16402	2mL Clear PP Microtube without Skirt	1000
16401	1.5mL Clear Self Standing PP Micro-Centrifuge Tube, Screw Top	1000
16401A	1.5mL Amber Self-standing Microtubes	1000
16501	2mL Clear Self Standing PP Micro-Centrifuge Tube	1000
16501A	2mL Amber Self Standing PP Micro-Centrifuge Tube	1000
16461	Amber Caps with O-ring & Loop	1000
16561	Amber Caps with O-ring	1000





62321-3



62101-3



62201-3



67221-3



67210-3



67220-3



62282-3



61182-3



62700



62800



62900

20mm Crimp Style Head Space Vials

Crimp style vials, made of borosilicate glass

For continuous results it is very important the head space vial and cap form a tight seal. In this type of analysis, the sample is sealed and heated to very high temperatures so the concentration in the gas phase (head space) is equal to the amount in the liquid phase. An aliquot from the head space is then analyzed.

Cat. No.	Description	Qty
62321-3	6mL Clear Glass Crimp, Bevel Top / Flat Bottom, 22 x 38mm	100
62101-3	10mL Clear Glass Crimp, Bevel Top / Flat Bottom, 23 x 46mm	100
62201-3	20mL Clear Glass Crimp, Bevel Top / Flat Bottom, 23 x 75mm	100

Recommended for PE Autosamplers

67221-3	6mL Clear Glass Crimp, Bevel Top / Round Bottom, 22 x 38mm	100
67210-3	10mL Clear Glass Crimp, Bevel Top / Round Bottom, 23 x 46mm	100
67220-3	20mL Clear Glass Crimp, Bevel Top / Round Bottom, 23 x 75mm	100

Recommended for CTC Autosamplers

62282-3	20mL Clear Glass Crimp, Flat Top / Round Bottom, 23 x 75mm	100
61182-3	10mL Amber Glass Crimp, Beveled Top / Round Bottom, 23 x 46mm	100
61182-3-Case	10mL Amber Glass Crimp, Beveled Top / Round Bottom, 23 x 46mm	1000

20mm Crimp Caps with Liners

Available in Aluminum, Aluminum/Tin and Magnetic Caps

Magnetic Caps are made from a special polished steel alloy for optimum reliability

Cat. No.	Description	Qty
62700	20mm Aluminum Cap, Ultra Low Bleed, Beige PTFE / White Silicone	100
62800	20mm Blue Magnetic Aluminum / Tin Cap, Ultra Low Bleed, Beige PTFE / White Silicone	100
62900	20mm Gold Magnetic Aluminum Cap, Ultra Low Bleed, Beige PTFE / White Silicone	100

Crimpers & Decappers

Cat. No.	Description	Qty
90200	Vial Crimper for 20mm OD Vials	Each
90100-20	Decapping Pliers for 20mm OD Vials	Each



90200



90100



18mm Screw Thread Head Space Vials

Cat. No.	Description	Qty
62546	10mL Clear Glass Flat Bottom Vial, 22.5 x 46.0mm	100
62546A	10mL Amber Glass Flat Bottom Vial, 22.5 x 46.0mm	100
62546S	10mL Clear Glass Flat Bottom Vial, 22.5 x 46.0mm - Silanized	100
62546S-CASE	10mL Clear Glass Flat Bottom Vial, 22.5 x 46.0mm - Silanized	1000
62346	10mL Clear Glass Round Bottom Vial, 22.5 x 46.0mm	100
62346A	10mL Amber Glass Round Bottom Vial, 22.5 x 46.0mm	100
62346S	10mL Clear Glass Round Bottom Vial, 22.5 x 46.0mm - Silanized	100
62346S-CASE	10mL Clear Glass Round Bottom Vial, 22.5 x 46.0mm - Silanized	1000
72546	20mL Clear Glass Flat Bottom Vial, 22.5 x 75.5mm	100
72546A	20mL Amber Glass Flat Bottom Vial, 22.5 x 75.5mm	100
72546S	20mL Clear Glass Flat Bottom Vial, 22.5 x 75.5mm - Silanized	100
72546S-CASE	20mL Clear Glass Flat Bottom Vial, 22.5 x 75.5mm - Silanized	1000



18mm Magnetic Screw Thread Closures with Ultra Low Bleed Silicone Liners

Cat. No.	Description	Qty
62515	18mm Magnetic Screw Cap with Teflon Liner, 0.010"	100
62518	18mm Magnetic Screw Cap with Blue Teflon / White Silicone, 0.080"	100
62517	18mm Magnetic Screw Cap with Blue Teflon / White Silicone, 0.080"	1000



Custom Head Space Vial Holders

Cat. No.	Description	Qty
6233	Head Space Vial Holders for 18mm & 20mm Vials, 3 x 3	Each
6244	Head Space Vial Holders for 18mm & 20mm Vials, 4 x 4	Each
6255	Head Space Vial Holders for 18mm & 20mm Vials, 5 x 5	Each
6266	Head Space Vial Holders for 18mm & 20mm Vials, 6 x 6	Each

We make our Head Space Vial Holders in-house and can custom shape to your specific needs. Call us for more details.

Our glass vials are made from 33 expansion borosilicate glass which conforms to ASTM E-438 Type 1-Class A, USP Type 1 and ISO 3585.

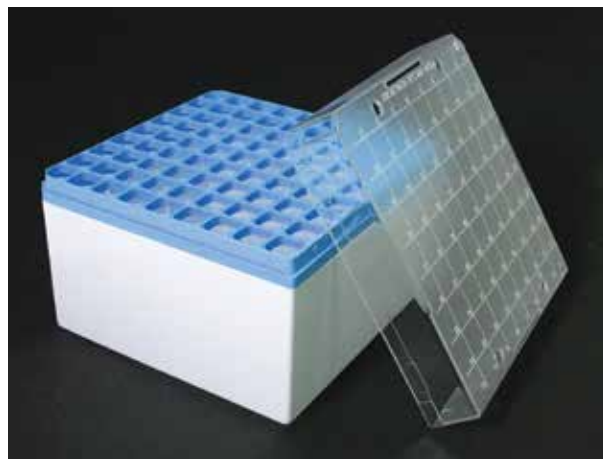
Vial Storage Solutions

Organize your samples with our colorful, stackable, rugged and versatile storage racks and boxes! Our storage solutions provide you with an excellent space saving option. They are color coded and easily labeled to give you quick visual recognition and differentiation. Many of our storage boxes and tube racks are autoclavable and can be used in freezers.

Storage Boxes for 1-2mL & 3-5mL Storage Tubes

- Made of high impact polystyrene.
- Temperature range: -80°C to 80°C. Not autoclavable.

Cat. No.	Description	Qty
96581B	Storage Boxes for 3-5mL Sample Tubes, Blue, Holds 81 Tubes	10



100-Well Microtube Storage Box

Cat. No.	Description	Qty
90006	Plastic Storage Boxes for 1.5/2.0mL Microtubes or Cryogenic Vials, Asst. Colors	5

NEW! Silicone Lab Mats

The Lab Mat is an economical solution to help keep benchtops clean and safe from stains, spills and wear

- Large working surface area accommodates benchtop equipment, weigh boats, stir bars, scales, etc.
- Protect countertops from hot items up to 200°C (392°F)
- Reversible, with two color/design options available

Silicone Lab Mats

Cat. No.	Description	Qty
LABMATP	Silicone Lab Mat, Purple/Gray	Each
LABMATY	Silicone Lab Mat, Yellow/Gray/Blue	Each



• Lip design around all edges enables liquid retention of approximately 300ml of fluid

• Internal metal inserts for retention of magnetic objects, such as stir bars to help keep items organized

Storage Racks

Combi-Rac™ Versatile Sample Rack Systems

Uses minimal counter space and offers maximum flexibility. Made of autoclavable polypropylene for great resistance to various chemicals. One side holds eighty 10 & 12mmOD test tubes or HPLC vials. Flip the tray over and it holds sixty micro-tubes from 0.5 to 2mL volumes. Overall size measures 9"L x 2.5"W x 2.5"H. Supplied with 2 removable handles and is available in a variety of colors.

Cat. No.	Description	Color	Qty
8B165	Combi-Rac™	Blue	10
8G165	Combi-Rac™	Green	10
8R165	Combi-Rac™	Red	10
8P165	Combi-Rac™	Pink	10
8O165	Combi-Rac™	Orange	10
8Y165	Combi-Rac™	Yellow	10
8C165	Combi-Rac™	Assorted	10
8L165	Combi-Rac™ Lid	Transparent	10



Mini Combi-Rac™

- 3" x 3" autoclavable PP rack
- Flip it – one side holds 25 0.5-2.0mL tubes or vials, other side holds 16 0.2-0.5mL microcentrifuge tubes

Cat. No.	Description	Color	Qty
5B025	Mini Combi-Rac™	Blue	10
5R025	Mini Combi-Rac™	Red	10
5Y025	Mini Combi-Rac™	Yellow	10



Tube Racks

Cat. No.	Description	Color	Qty
813600B	Racks for Tubes up to 13mm	Blue	10
813600G	Racks for Tubes up to 13mm	Green	10
816300B	Racks for Tubes up to 16mm	Blue	10
816300G	Racks for Tubes up to 16mm	Green	10
825300B	Racks for Tubes up to 25-30mm	Blue	10
825300G	Racks for Tubes up to 25-30mm	Green	10



Specialty Storage Solutions



81-Well Freezer Storage Racks

These innovative racks fit in standard 5 1/4" square freezer modules and hold 1.5/2.0mL microtubes and cryovials. Featuring molded grid lines on the lid, imprinted coordinates on the base and a molded reference point on the lid, these are truly innovative racks! Available in natural, blue, green, pink, yellow, orange, or assorted colors in packs of 5.

Cat. No.	Description	Color	Qty
FSRNA	81-Well Freezer Racks	Natural	5
FSRBL	81-Well Freezer Racks	Blue	5
FSRGL	81-Well Freezer Racks	Green	5
FSRPI	81-Well Freezer Racks	Pink	5
FSRYL	81-Well Freezer Racks	Yellow	5
FSROR	81-Well Freezer Racks	Orange	5
FSRAS	81-Well Freezer Racks	Assorted	5



96-Well PCR® Racks with Hinged Lid

Sturdy polypropylene racks for working with 0.2mL tubes. Accommodates standard 8 or 12 tube strips. Our racks are perfect for pre or post PCR® sampling applications. The tube wells are easily identified with imprinted numbers and letters. The racks feature a removable hinged lid and are available in natural, blue, green, yellow, or assorted colors in packs of 5. PCR® is a registered trademark of Hoffman-LaRoche Inc.

Cat. No.	Description	Color	Qty
PCRGR	96-Well PCR® Racks	Green	5
PCRBL	96-Well PCR® Racks	Blue	5
PCRYL	96-Well PCR® Racks	Yellow	5
PCRNA	96-Well PCR® Racks	Natural	5
PCRAS	96-Well PCR® Racks	Assorted	5



Benchtop Dispensing Bins

Ergonomically designed with large, angled openings and oversized lip on lid for easy access, even with gloves on. Lid remains open when tilted back. Green bin includes a removable divider. Both have non-skid rubber feet and pre-drilled holes for wall mounting (hardware included). Brilliant colors!

Cat. No.	Description	Color	Qty
28322	180W x 155H x 165mmD, Dual Compartment	Neon Green	Each
28321	155W x 155H x 170mmD, Single Compartment	Neon Blue	Each



Workstation Dispensing Bins

Know inventory levels of pipet tips, tubes, fittings, finger cots and other bulk items at a glance. Flip-top covers on generous openings make filling and dispensing easy and keep products dust-free. With non-skid rubber feet.

Cat. No.	Description	Qty
97321	184W x 194H x 232mm D, One Bin	Each
97322	150W x 177H x 368mm D, Two Bins	Each
97323	217W x 170H x 217mm D, Three Bins	Each
97324	287W x 170H x 217mm D, Four Bins	Each



Work2Store™ Expanding Storage Box

- Expands to provide room for opening tube caps and manipulating samples
- Closes and locks for freezer storage – no need to transfer vials or tubes
- Holds 1.5/2.0 mL microcentrifuge tubes and most standard 2.0 mL cryogenic vials



The Work2Store storage box expands horizontally, providing extra space between rows for greater access to your tubes and makes for easy cap removal.

Cat. No.	Description	Qty
ESB64	Work2Store 64-Well Expanding Storage Box	Each



Work2Store™ Micro Expanding Storage Box

- 0.2 mL tube side is configured to work 8 strip, 12 strip or single tubes
- A low profile clear lid fits either side and locks the rack together for safe handling and transportation.

The Work2Store Micro is a reversible rack which holds 64 x 0.5 mL micro tubes on one side and 96 x 0.2 mL micro tubes on the other.



Cat. No.	Description	Qty
ESBMICRO	Work2Store™ Micro	Each



Flip & Grip™ Pipette Holder

- Holds up to 12 single channel pipette, or a combo of 3 single and 3 multichannel
- Holds most common brands. Rubber grips prevent scratching pipette
- Holder rotates for easy pipette selection and storage
- Weighted base. Fixing screw provided for under shelf option
- Measures (mm):
332 H x 193 W (benchtop style);
187 L x 193 W (undershelf style)

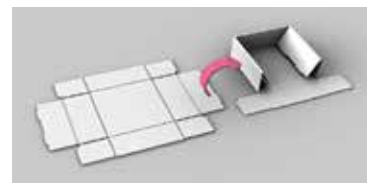
Cat. No.	Description	Color	Qty
FG100B	Flip & Grip Pipette Holder	Blue	Each
FG100L	Flip & Grip Pipette Holder	Lime	Each
FG100M	Flip & Grip Pipette Holder	Magenta	Each



Flatpack Freezer Boxes

Reusable, economical and moisture resistant plastic

- Made of polypropylene material
- Easy self-assemble boxes shipped flat
- More durable than cardboard boxes as they are not susceptible to moisture
- Significantly reduces the chance of mold
- Dividers included with the boxes



Freezer boxes are supplied "flat-packed" eliminating the hassle of stacking and reduces the amount of space needed for storage.

Thin Polypropylene Film 1.5-2 mL

• Can be used in mechanical freezers and vessels down to -196°C (vapor phase only)

Cat. No.	Tube	Wells	Well Dia.	L x W x H	Color	Qty
FFB81W	1.5/2.0 mL	81	12.1 mm	4.95 x 4.92 x 1.92 in (12.5 x 12.4 x 4.9 cm)	White	10
FFB81B	1.5/2.0 mL	81	12.1 mm	4.95 x 4.92 x 1.92 in (12.5 x 12.4 x 4.9 cm)	Blue	10
FFB81G	1.5/2.0 mL	81	12.1 mm	4.95 x 4.92 x 1.92 in (12.5 x 12.4 x 4.9 cm)	Green	10
FFB81P	1.5/2.0 mL	81	12.1 mm	4.95 x 4.92 x 1.92 in (12.5 x 12.4 x 4.9 cm)	Purple	10



Corrugated Polypropylene Box with Dividers

• Store down to temperatures of -80°C

Cat. No.	Tube	Wells	Well Dia.	LxWxH (mm)	Color	Qty
FFB81	0.5 mL	81	12 mm	133 x 133 x 51	Natural	10

Cardboard Micro Tube Boxes

Safe micro tube storage

These low profile boxes are available in two sizes to accommodate standard 0.5mL and 0.2mL micro tubes and vessels of a similar size. They come complete with well dividers in packs of 10.

- Store in mechanical freezers or vapor phase LN2*
- Will fit into most standard freezer racking
- 0.2 mL tube (9.5 mm max) version has 169 wells in a 13 x 13 format
- 0.5 mL tube (12 mm max) version has 100 wells in a 10 x 10 format

Cat. No.	Description	Tubes	Wells	LxWxH (mm)	Qty
MTB169	Cardboard Micro Tube Boxes	0.2 mL	169	133 x 133 x 29	10
MTB100	Cardboard MicroTube Boxes	0.5 mL	100	133 x 133 x 41	10



Foam Tube Racks

- Two-piece racks are Made of expanded polystyrene (EPS) foam
- Extra spacing between wells allows easy gripping with fingertips
- Racks stack securely with nesting features on lid and base
- Holds 1.5 and 2.0 mL microtubes

Cat. No.	Description	Wells	L x W x H (mm)	Qty
FTR100	Foam Tube Racks	100	336 x 95 x 73	10
FTR50	Foam Tube Racks	50	210 x 110 x 71	10



Storage Racks for 80-Well Racks

Strong, clear acrylic construction
For use at room temperature only - do not freeze.

- Holds up to eight 80-well microtube racks filled with either 1.5 or 2.0 mL microtubes

Cat. No.	Description	L x W x H (mm)	Qty
STRV80	Vertical Rack	157 x 236 x 234	Each
STRH80	Horizontal Rack	310 x 236 x 122	Each

Universal Tube Rack

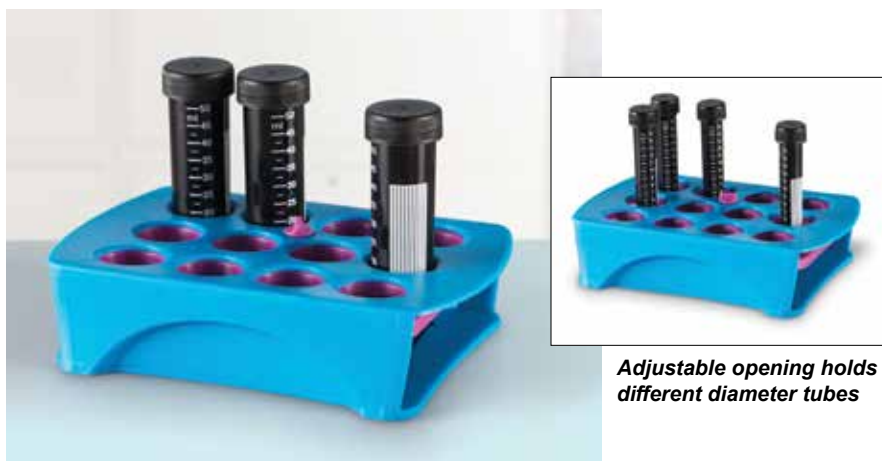
Ideal for firmly holding a wide range of tubes and vessels

Quickly change tube sizes with this adaptable polypropylene rack. Open the well with a turn of the knob or directly insert a tube into the opening.

- Holds up to 12 similar size tubes
- Imprinted references for easy identification
- Generously-sized handles for easy transport
- Accepts tubes and vessels from 16–30 mm in size
- Not recommended for cleaning in autoclave.

Measures 194 x 140 x 51 mm

Cat. No.	Tubes	Wells	Color	Qty
UTR12	15-50 mL	12	Blue	Each



Adjustable opening holds different diameter tubes

Adapt-a-Rack™ Flexible Multi-Tube Rack

Capable of holding different size tubes in each available slot as the well adapts to your tube size, holding it in an upright position. The design enables you to hold 12mm to 30mm (5mL to 50 mL) tubes simultaneously and still allow full viewing of the tube label.

- Racks can be linked together for additional holding capacity
- Open sides allow for label viewing
- Flat base holds tubes upright
- Available in solid or combination colors
- Single rack measures 181 x 56 x 76 mm, two racks per pack
- Autoclavable



Available in solid or combination colors



Cat. No.	Description	Rack #1 Color (top/bottom)	Rack #1 Color (top/bottom)	Qty
AR184BG	Adapt-a-Rack	Blue/Green	Green/Blue	2
AR185BY	Adapt-a-Rack	Blue/Yellow	Yellow/Blue	2
AR186PW	Adapt-a-Rack	Pink/White	White/Pink	2
AR187B	Adapt-a-Rack	Blue/Blue	Blue/Blue	2
AR188W	Adapt-a-Rack	White/White	White/White	2
AR189P	Adapt-a-Rack	Pink/Pink	Pink/Pink	2
AR190Y	Adapt-a-Rack	Yellow/Yellow	Yellow/Yellow	2
AR191G	Adapt-a-Rack	Green/Green	Green/Green	2

One-Well 50 mL Single Tube Racks

- Holds conical- or round-bottom tubes.
- Autoclavable, epoxy-coated steel
- Base ring keeps tubes in place
- Measures 90 x 67 x 67 mm



Cat. No.	Description	Color	Qty
WR1050	Epoxy-Coated Wire Rack	Yellow	Each

One-Well 50 mL Connecting Tube Racks

- Interlocking - form a line of 50mL tubes, or use as a single, stand-alone rack
- Molded circular base ring keeps conical or round-bottom tubes in place
- Autoclavable



Cat. No.	Description	L x W x H (mm)	Colors	Qty
CTR1050	1-Well 50 mL Tube Racks	83 x 70 x 67 mm	Assorted	5

Pop-Up™ Racks

**Close flat for compact storage!
Ready for quick use!**

- Designed to help organize 15 and 50 mL tubes
- Imprinted grid aids quick retrieval
- Stack racks in open or closed position
- Saves space when racks are not in use!
- Robust polypropylene construction. Not recommended for autoclaving
- Measures 255 x 137 x 72 mm when expanded, 21 mm H when collapsed
 - 15 mL max tube dia. 17 mm
 - 50 mL max tube dia. 30 mm



Easy Open & Close!



Cat. No.	Description	Tubes	Wells	Color	Qty
PUR2112B	Pop-Up Racks	15mL / 50mL	21 / 12	Blue	2
PUR2112P	Pop-Up Racks	15mL / 50mL	21 / 12	Pink	2
PUR45P	Pop-Up Racks	15mL	45	Purple	2
PUR18G	Pop-Up Racks	50mL	18	Green	2



4-Way Rack

- Link together to cater to your application needs
- Create as large a rack as you require for your bench top applications
- Made of polypropylene
- Autoclavable

Cat. No.	Description	Tubes	Wells	Well Dia.	L x W x H	Color	Qty
4WRack	4-Way Rack	50mL	4	30mm	6.85 x 3.74 x 2.04 in	Assorted	5
		15mL	12	17.5mm	(17.4 x 9.5 x 5.2 cm)		
		0.5mL	32	8.3mm			
		1.5/2.0mL	32	11.6mm			

Pour-boat Weighing Dishes

- Pour-spout design easily dispenses samples without flexing the dish.
- Flat-bottom dishes are made from 12-mil thick polystyrene for better strength, stability, and handling



Cat. No.	Description	Size	L x W x H	Color	Qty
PBWS	Pour-boat Weighing Dish	Small	43 x 58 x 13 mm	White	500
PBWM	Pour-boat Weighing Dish	Medium	83 x 132 x 26 mm	White	500
PBWL	Pour-boat Weighing Dish	Large	108 x 183 x 26 mm	White	500

Diamond Weighing Boats

- Diamond shape that easily flexes for accurate pouring
- Wide, flat bottom to resist tipping



Cat. No.	Description	Size	L x W x H	Color	Qty
DWB5	Diamond Weighing Boats	5 mL	55 x 35 x 6 mm	White	500
DWB25	Diamond Weighing Boats	25 mL	71 x 46 x 14 mm	White	500
DWB30	Diamond Weighing Boats	30 mL	78 x 56 x 14 mm	White	500
DWB100	Diamond Weighing Boats	100 mL	119 x 90 x 19 mm	White	500



Parafilm® Sealing Film

Colorless, moisture-proof film molds to surface

Parafilm® M is a semi-transparent, flexible, thermoplastic film with two-way stretch.

- Non-toxic and free from plasticizers, primarily composed of polyolefins and paraffin waxes offering good resistance against acids, alkalis and some organic solvents—use not recommended with acetone, diethyl ether or tetrachloride
- Will stretch 200% and adhere to irregular shapes and surfaces to provide a secure seal
- Disposable

Cat. No.	Description	Width	Length	Qty
PRS5075	Parafilm® Sealing Film	50 mm (2-inch)	75m	Each
PRS10038	Parafilm® Sealing Film	100 mm (4-inch)	38m	Each
PRS10075	Parafilm® Sealing Film	100 mm (4-inch)	75m	Each



NEW!

Sprout® Mini-Centrifuge

The Sprout is ideal for quick spin downs, micro-filter cell separations and HPLC samples. It is compact, easy to use and comes with a host of extras.

- Small footprint and quiet operation
- Palm-shaped lid, suitable for left or right handed users—allows quick extraction of tubes
- Made from UV resistant plastic, increasing its user-life under harsh light conditions
- SnapSpin™ Rotors are tool-free for a fast and easy exchange
- Weighted rubberized base eliminates movement and further dampens noise output

Specifications:

- Maximum speed: 6,000 rpm
- Maximum RCF: 2000 x g
- Power: Regional specific versions
- Dimensions: 153 x 128 x 104 mm
- One-year warranty



Cat. No.	Description	Qty
6100-206	Sprout® 110/120 VAC, 50/60 Hz	Each

Replacement parts:

Cat. No.	Description	Qty
6100-116	6 place 1.5/2 mL tube rotor	Each
6100-126	16 place 0.2 mL tube rotor	Each
6100-006	Replacement O-Ring	Each

Sprout® Package includes:

- Sprout® Mini-Centrifuge
- 6 place 1.5/2.0 mL tube rotor
- 16 place 0.2 mL tube rotor (singles, or 2 x 8 Strip)
- 6 tube adapters 0.2 mL
- 6 tube adapters 0.5 mL
- Storage case for rotors and adapters
- Tube rack
- Power cord



NEW!



Gusto™ High-Speed Mini-Centrifuge

This compact centrifuge is ideal for protocols calling for fast spins with a higher RCF requirement. Ideal for PCR®, microfilter cell separation, clinical & diagnostic applications, and HPLC protocols.

- Compact footprint and brush-less motor for quiet operation and low vibration
- Select and set the digital speed display in xg or rpm
- Sample imbalance and tilt safety cut out. Will not operate with the lid open
- Back lit display showing time, speed and operational information on the same screen
- Quick-Spin button for short spin requirements
- Suitable for voltages 110 to 240V, supplied with 4 different plug types
- Double insulated construction

Specifications:

- Speed: 500–12,500 rpm
- RCF: 15–9, 800 Xg
- Power: 110 to 240 VAC, 50/60 Hz with 4 interchangeable plug adapters
- Dimensions: 203 x 171 x 114 mm
- Two-year warranty



Gusto™ Package includes:

- Gusto™ High-Speed Mini-Centrifuge
- 12 place 1.5/2.0 mL tube rotor
- 32 place 0.2 mL tube rotor (singles, or 4 x 8 Strip)
- 12 tube adapters 0.2 mL
- 12 tube adapters 0.5 mL
- Universal power adapter with 4 interchangeable plugs

Cat. No.	Description	Qty
6100-506	Gusto™, 110–240 VAC, 50/60 Hz	Each

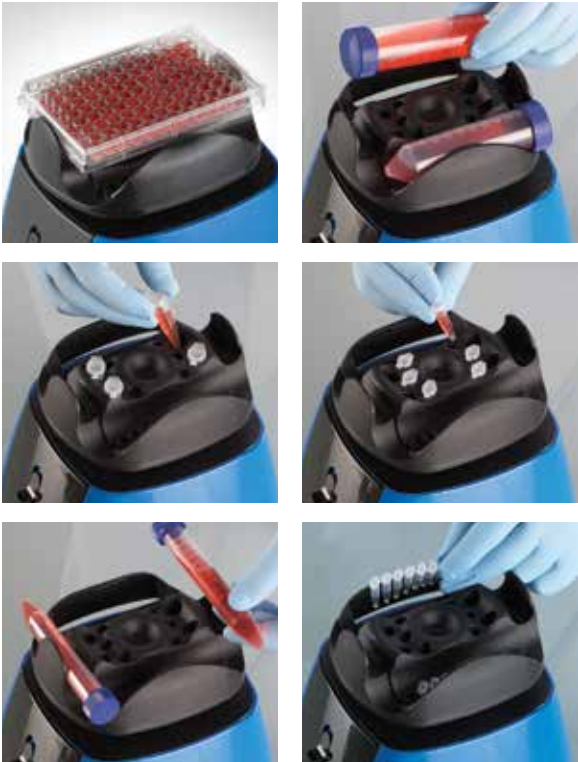
Replacement parts:

Cat. No.	Description	Qty
6100-016	Power Adapter	Each
6100-026	Universal Power Cord Set	Each
6100-036	12 place 1.5/2 mL tube rotor	Each
6100-046	32 place 0.2 mL tube rotor	Each
6100-056	Rotor Knob	Each
6100-066	Rotor Cover for HS100503	Each



- Specifications:**
- Speed Range: Variable 500-3000 rpm (shaking to vortexing)
 - Orbit: 4.2 mm
 - Control: 3 position switch—continuous, intermittent, manual, and off
 - Weight: 8.5 Lb/3.8 Kg
 - Dimensions: 173 W x 198 D x 198mm H (with Headpiece in place)
 - SGS-US-C, CE, CB Scheme, RoHS 2, PSE, and WEEE compliant
 - Two Year Warranty

Holding slots for no less than five different sizes of tubes and a standard assay plate



- “All-in-one” head (which includes a center cup) can hold:**
- Assay Plate x 1
 - 50 mL conical tubes x 2
 - 15 mL conical tubes x 2
 - 1.5/2 mL microfuge tubes x 4
 - 0.5 mL microfuge tubes x 6
 - 0.2 mL microfuge tubes x 24
- No Need to Change Heads!**

Vortexer
Multipurpose Mixer

This sleek and modern designed vortex mixer is capable of meeting the mixing requirements of the most popular consumables used in today’s lab without the need to swap out head units. The truly innovative design makes maximum use of the space available, providing holding slots for no less than five different sizes of tube and a standard assay plate, while the traditional center cup can be used for quick hand-held mixing of a vast range of tubes and vessels.

- Variable speed rotary dial provides finite speed control during vortex mixing
- Stable elastomeric device feet, provide vibration dampening and prevent movement during operation
- Innovative head can be removed for cleaning purposes
- High impact ABS body shell

Cat. No.	Description	Qty
6100-800	Vortexer, 110–240 VAC, 50/60 Hz	Each



NEW!**Specifications:**

- Speed range: 20 to 300 rpm/1 rpm increments
- Orbit diameter: 19.2 mm
- Timer range: 0 to 49 hours/1 second & Continuous
- Maximum load: 4.5 kg
- Power: 110 to 240 VAC, 50/60 Hz with 4 interchangeable plug adapters
- Ambient conditions: 4° to 40°C; 20 to 80% RH, non-condensing
- Platform interior dimensions: 279mm W x 279mm D
- Overall dimensions: 314mm W x 183mm H x 305mm D
- One-year warranty



Digital Orbital Shaker

Multipurpose Compact Universal Shaker

The Digital Orbital Shaker is packed full of high-end design features making it a versatile shaker for a vast range of protocols, yet very affordable.

- None-stop optical motor feedback, enables the unit to instantly adjust to weight load changes and unbalanced loads for truly reproducible results
- Suitable for use in incubators and cold rooms within the stated temperature range
- Soft-start feature reduces spill instances from full vessels
- A high weight loading of 4.5 kg, with an overload protection cut out
- Universal Hi-Lo platform and bungee cords allows you to create your own holding matrix for vessels of all shapes and sizes
- Back lit display is easy to read and time and speed can be separately set
- Very low start speed for sensitive sample agitation, with a high top end and good stability for more vigorous applications
- Suitable for worldwide voltages 110–240V, supplied with 4 different plug types

Package includes:

- Digital Orbital Shaker
- Universal Hi-Lo platform
- Skid-free rubber platform mat
- 8 Bungee cords set
- Universal power adapter 110–240V 50/60 Hz, with 4 interchangeable plug types

Cat. No.	Description	Qty
6100-401	Digital Orbital Shaker, 110–240 VAC, 50/60 Hz	Each





MonoSLEEVE™ Controller

- Self-calibrating
- Plug & Play smart heater technology
- Temperature range from 25°C to 85°C
- Controller comes with Power Supply, USB Cable, GUI Software and Manual.

TECH TIP:

A temperature fluctuation as little as 2°C in either direction is enough to adversely effect the performance of even the most tried and true methods. HotSLEEVE Plus and AgileSLEEVE Plus heaters are accurate to within $\pm 0.1^\circ\text{C}$, ensuring optimum performance.

MonoSLEEVE is the next generation of the original HotSleeve controller. With it's new advanced "Plug & Play" technology, MonoSleeve can accommodate single **HotSleeve™ Plus*** or **AgileSleeve™ Plus*** column heaters of different sizes without having to recalibrate to each individual sleeve. This allows you to switch out different heaters on the fly.

** HotSleeve Plus is the new "smart" version of the original HotSleeve. AgileSleeve Plus is the new "smart" version of AgileSleeve.*

Note: MultiSLEEVE will only accept HotSleeve Plus and AgileSleeve Plus heaters with "Plug & Play" technology. See information about these new heaters on the next page.

Cat. No.	Description	Qty
MonoSLEEVE	Single Column Heater Controller (heater not included)	Each



All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

HotSleeve™+

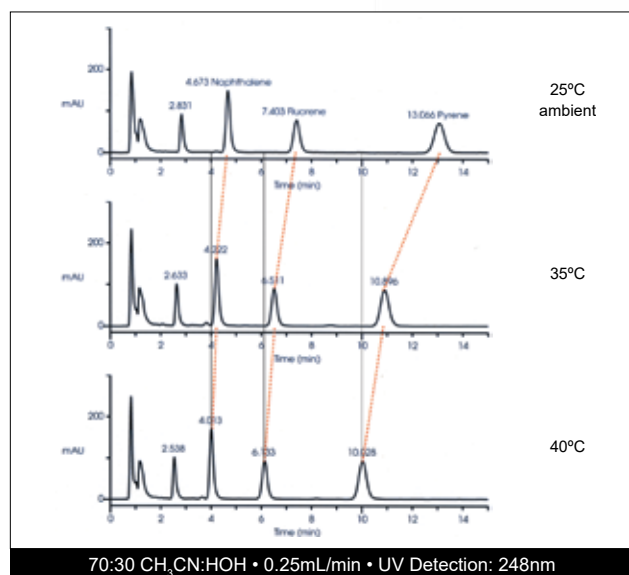


Analytical Size Column Heaters

- Self-calibrating
- Temperature range from 5°C above ambient to 85°C
- Accommodates HPLC columns up to 30cm in length
- Available in 5/10/15/25/30cm lengths, as well as Prep & Semi-Prep sizes
- Tube style design: Unsnap for easy column insertion & removal

The new **HotSleeve Plus** is a self-calibrating “smart” heater that utilizes “Plug & Play” technology. This technology eliminates error generated when switching heaters from one system to another. It incorporates a unique “Tube Style” design which encapsulates a single HPLC column up to 30cm in length.

The **HotSleeve Plus** replaces the original Hot Sleeve column heater. Use with either the **MultiSLEEVE™** controller or the **MonoSLEEVE™** controller only, sold separately.



A temperature fluctuation as little as 2°C in either direction is enough to adversely effect the performance of even the most tried and true methods.

Cat. No.	Description	Qty
HSI-5L	HotSleeve Plus Heater for 5cm Columns	Each
HSI-10L	HotSleeve Plus Heater for 10cm Columns	Each
HSI-15L	HotSleeve Plus Heater for 15cm Columns	Each
HSI-25L	HotSleeve Plus Heater for 25cm Columns	Each
HSI-30L	HotSleeve Plus Heater for 30cm Columns	Each

Call to inquire about Prep, Semi-prep and Super size Hot Sleeve Plus



CE All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

AgileSleeve™+

Flexible Capillary Heater

- Self-calibrating
- Accurate from 5°C above ambient to 100°C
- Heat lines up to 30cm long, with ODs of 1/32” or 1/16”
- Great for small diameter analytical columns, nanospray, injector or pre-column mobile phase lines

AgileSleeve™ Plus slips over a small diameter capillary column, nanospray line, injector line, or pre-column line before the end fittings are attached. It is available in a variety of lengths up to 30cm, with IDs of 1/32” or 1/16”. Each is color-coded for quick diameter identification.

AgileSleeve Plus replaces the original AgileSleeve heater and uses new “smart” Plug & Play technology. Use with either the MultiSLEEVE™ controller or the new MonoSLEEVE™ controller only, sold separately.



Cat. No.	Description	Qty
ASI1032H	AgileSleeve Plus, 10cm x 1/32” ID Self-calibrating Heater	Each
ASI1016H	AgileSleeve Plus, 10cm x 1/16” ID Self-calibrating Heater	Each
ASI1532H	AgileSleeve Plus, 15cm x 1/32” ID Self-calibrating Heater	Each
ASI1516H	AgileSleeve Plus, 15cm x 1/16” ID Self-calibrating Heater	Each
ASI2532H	AgileSleeve Plus, 25cm x 1/32” ID Self-calibrating Heater	Each
ASI2516H	AgileSleeve Plus, 25cm x 1/16” ID Self-calibrating Heater	Each
ASI3032H	AgileSleeve Plus, 30cm x 1/32” ID Self-calibrating Heater	Each
ASI3016H	AgileSleeve Plus, 30cm x 1/16” ID Self-calibrating Heater	Each

AgileSleeve Plus is also available in longer lengths - call for details



Shown with heaters (not included)

MultiSLEEVE™ Controller

- Self-calibrating
- Plug & Play smart heater technology
- Controls up to 4 column heaters simultaneously
- Use to heat capillary, N₂, sheath gas lines, etc.
- 4 independent channels
- Used in multiplexing applications
- Temperature range from 25°C to 85°C
- Controller comes with cables, manual and USB GUI software.

The MultiSLEEVE controller is used for applications which require multiple heating zones or multiple LC system heating. Used in conjunction with the new **HotSleeve™ Plus*** and/or **AgileSleeve™ Plus*** heaters it maintains four independent channels simultaneously and accurately while reducing overall equipment costs.

** HotSleeve Plus is the new "smart" version of the original HotSleeve. AgileSleeve Plus is the new "smart" version of AgileSleeve.*

Note: MultiSLEEVE will only accept HotSleeve Plus and AgileSleeve Plus heaters with "Plug & Play" technology. See information about these new heaters on the next page.

CE All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

Cat. No.	Description	Qty
MultiSLEEVE	Multiple Column Heater Controller (heaters not included)	Each

HotSleeve™+

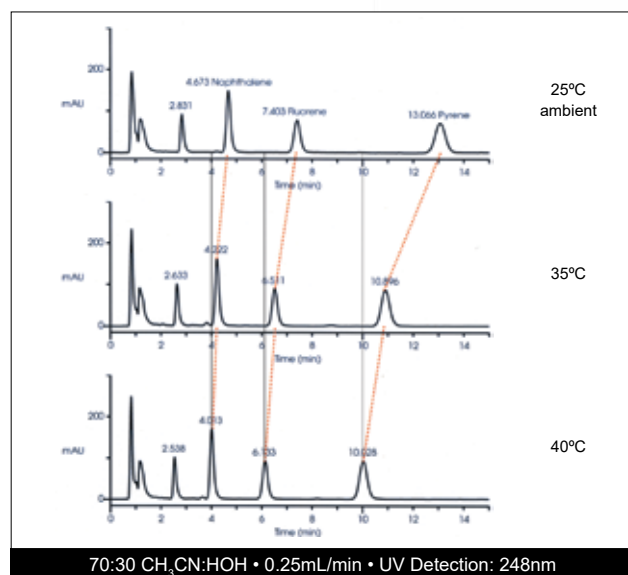


Analytical Size Column Heaters

- Self-calibrating
- Temperature range from 5°C above ambient to 85°C
- Accommodates HPLC columns up to 30cm in length
- Available in 5/10/15/25/30cm lengths, as well as Prep & Semi-Prep sizes
- Tube style design: Unsnap for easy column insertion & removal

The new **HotSleeve Plus** is a self-calibrating “smart” heater that utilizes “Plug & Play” technology. This technology eliminates error generated when switching heaters from one system to another. It incorporates a unique “Tube Style” design which encapsulates a single HPLC column up to 30cm in length.

The **HotSleeve Plus** replaces the original Hot Sleeve column heater. Use with either the **MultiSLEEVE™** controller or the **MonoSLEEVE™** controller only, sold separately.



A temperature fluctuation as little as 2°C in either direction is enough to adversely effect the performance of even the most tried and true methods.

Cat. No.	Description	Qty
HSI-5L	HotSleeve Plus Heater for 5cm Columns	Each
HSI-10L	HotSleeve Plus Heater for 10cm Columns	Each
HSI-15L	HotSleeve Plus Heater for 15cm Columns	Each
HSI-25L	HotSleeve Plus Heater for 25cm Columns	Each
HSI-30L	HotSleeve Plus Heater for 30cm Columns	Each

Call to inquire about Prep, Semi-prep and Super size Hot Sleeve Plus



All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

AgileSleeve™+

Flexible Capillary Heater

- Self-calibrating
- Accurate from 5°C above ambient to 100°C
- Heat lines up to 30cm long, with ODs of 1/32” or 1/16”
- Great for small diameter analytical columns, nanospray, injector or pre-column mobile phase lines

AgileSleeve™ Plus slips over a small diameter capillary column, nanospray line, injector line, or pre-column line before the end fittings are attached. It is available in a variety of lengths up to 30cm, with IDs of 1/32” or 1/16”. Each is color-coded for quick diameter identification.

AgileSleeve Plus replaces the original AgileSleeve heater and uses new “smart” Plug & Play technology. Use with either the MultiSLEEVE™ controller or the new MonoSLEEVE™ controller only, sold separately.



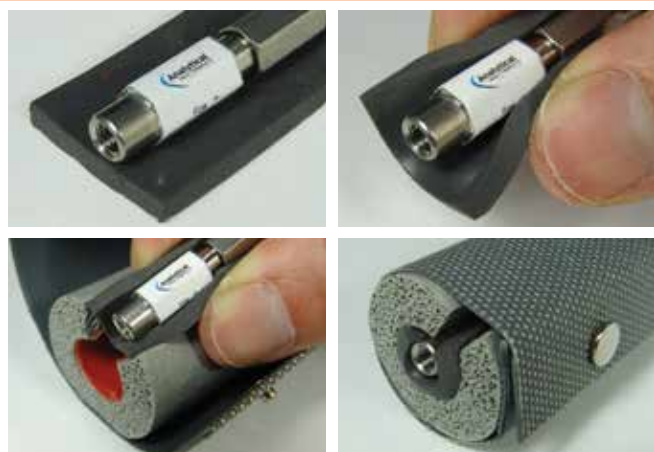
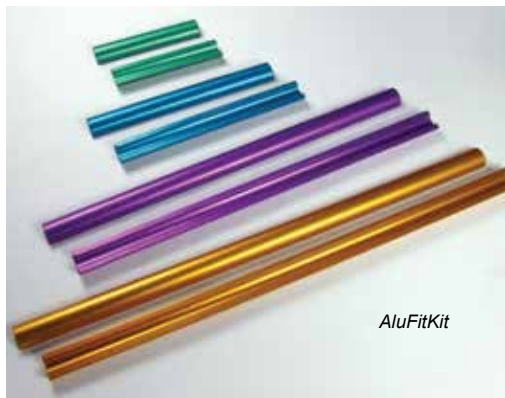
Cat. No.	Description	Qty
ASI1032H	AgileSleeve Plus, 10cm x 1/32” ID Self-calibrating Heater	Each
ASI1016H	AgileSleeve Plus, 10cm x 1/16” ID Self-calibrating Heater	Each
ASI1532H	AgileSleeve Plus, 15cm x 1/32” ID Self-calibrating Heater	Each
ASI1516H	AgileSleeve Plus, 15cm x 1/16” ID Self-calibrating Heater	Each
ASI2532H	AgileSleeve Plus, 25cm x 1/32” ID Self-calibrating Heater	Each
ASI2516H	AgileSleeve Plus, 25cm x 1/16” ID Self-calibrating Heater	Each
ASI3032H	AgileSleeve Plus, 30cm x 1/32” ID Self-calibrating Heater	Each
ASI3016H	AgileSleeve Plus, 30cm x 1/16” ID Self-calibrating Heater	Each

AgileSleeve Plus is also available in longer lengths - call for details

AluFit™ Heat Transfer Collars

- Use for proper heat transfer to analytical size columns when using Hot Sleeve Plus™
- Provides reduced initial equilibration time

Cat. No.	Description	Qty
AluFit10	Heat Transfer Collar for 10cm Columns	Each
AluFit15	Heat Transfer Collar for 15cm Columns	Each
AluFit25	Heat Transfer Collar for 25cm Columns	Each
AluFit30	Heat Transfer Collar for 30cm Columns	Each
AluFitKit	Heat Transfer Collar Kit. Includes: 1 Each of Collars for 10cm, 15cm, 25cm and 30cm Columns	Each



Column CapWrap™

Use for proper heat transfer of smaller OD or capillary columns when using Hot Sleeve™

Cat. No.	Description	Qty
CapWrap5	2.5cm x 5cm Capillary Column Wrap	Each
CapWrap10	2.5cm x 10cm Capillary Column Wrap	Each
CapWrap15	2.5cm x 15cm Capillary Column Wrap	Each
CapWrap25	2.5cm x 25cm Capillary Column Wrap	Each
CapWrap30	2.5cm x 30cm Capillary Column Wrap	Each



Mobile Phase Pre-Heater

Cat. No.	Description	Qty
ADV9000	15 µL Mobile Phase Pre-Heater, 0.01" ID	Each
ADV9005	Semi-Prep Mobile Phase Pre-Heater	Each
ADV9038	3.8 µL Mobile Phase Pre-Heater, 0.005" ID	Each
ADV65107	Mobile Phase Pre-Heater Assembly with Double UHPLC Fittings, 50cm x 0.01" ID	Each
ADV66107	Mobile Phase Pre-Heater Assembly with Double UHPLC Fittings, 60cm x 0.01" ID	Each

Mobile Phase Pre-Heater with UHPLC Fitting

Cat. No.	Description	Qty
ADV9000UHP	15 µL Mobile Phase Pre-Heater, 0.010" ID	Each
ADV9500UHP	3.8 µL* Mobile Phase Pre-Heater, 0.005" ID	Each

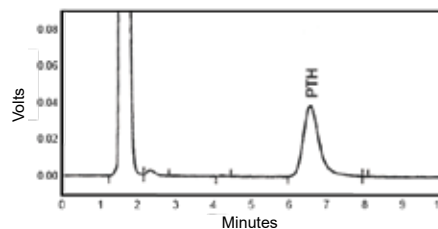
* Super low volume - provides superior performance for short, 3.5 micron and smaller particle diameter HPLC columns.

Mobile Phase Pre-Heater Assembly for Waters® Acquity UPLC System

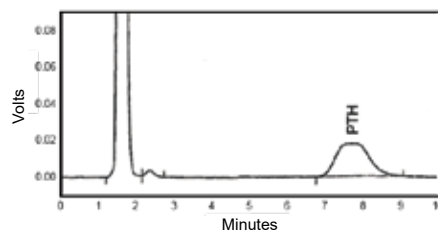
Cat. No.	Description	Qty
ADV6050	Mobile Phase Pre-Heater Assembly for Waters® Acquity UPLC System, 0.005" ID	Each

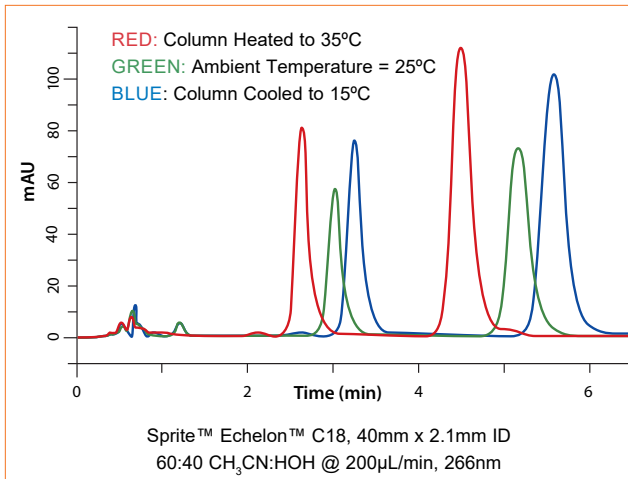
These chromatograms illustrate the difference made with the use of a mobile phase pre-heater set at 30°C.

With Mobile Phase Pre-Heater



Without Mobile Phase Pre-Heater





Cold Sleeve™
 Column Cooler/Heater

Cold Sleeve™ is a Peltier driven cooler/heater designed to hold a single column up to 30cm long and up to 7.8mm in diameter. The temperature range is 5° to 55°C with 0.2°C accuracy. A double insulated cover maintains temperature stability within the chamber ± 0.2°C. The high performance control unit incorporates state-of-the-art electronics with dual remote preset temperatures for advanced methods development work. RS232 control is standard.

CE All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

Cat. No.	Description	Qty
Cold Sleeve-30	Column Cooler/Heater, Includes Cool/Heat Module, PTC-050CS 24V Control Unit, Cables and Manual	Each

PowerSELECTOR™
 Temperature Controlled Column Selector

The PowerSELECTOR™ ELITE allows accurate cooling and heating of liquid chromatography columns and has been specifically designed to accommodate automated methods development and provide column stability for enhanced resolution.

The PowerSELECTOR™ ELITE is a six position, automated system which incorporates state-of-the-art selector valves and a Peltier bidirectional heat pump to accurately switch columns while cooling or heating the compartment. External contact automatically ramps the temperature of the system down to protect the columns after method development is complete.

- Fast response controller
- Temperature range of 10°C below ambient to 45°C
- Repeatability precision of ±0.5°C
- Accuracy of ±1°C
- High flow capability
- Remote control of valve position
- 6,000 psi Max



Cat. No.	Description	Qty
PowerSelector6P	6 Column PEEK™ Selector w/ Heating and Cooling	Each
PowerSelector6S	6 Column Stainless Steel Selector w/ Heating and Cooling	Each

CE All Analytical Sales & Services heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

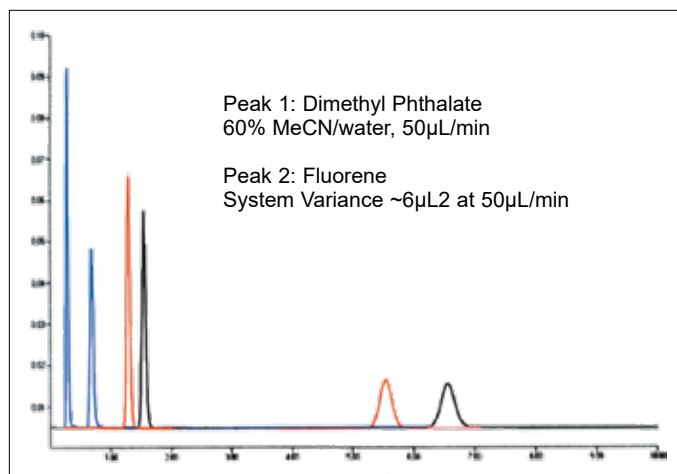
Applications

- LC-MS
- Microbore guard
- Ballistic gradients
- Desalting
- Trap column
- Trace enrichment
- High performance
- PEEK™ and titanium fittings
- Tested and supplied with C of A
- 6-32 threads for capillary fittings
- Tubing ID < 0.005", 1/32"OD



The Fleet™ family of microbore HPLC columns from Analytical Sales and Services is a unique high performance product for LC-MS and other high-speed, small volume applications. These efficient columns are the only products of their type that are individually tested. A Certificate of Analysis accompanies each column.

In addition to analytical micro-bore applications Fleet™ columns are ideal guards for protecting longer microbore HPLC columns. Fleet™ column void volumes range from approximately 5µL to 300nL, making them perfect for a wide variety of trapping, desalting and trace enrichment applications. These small columns can be conveniently used with micro injection and switching valves.



Blue Trace:
10x1.0mm ARMOR™ C18 5µm Fleet™ Guard Column Alone

Red Trace:
50x1.0mm ARMOR™ C18 5µm Analytical Column

Black Trace:
10x1.0mm Guard Coupled with a 50x1.0mm Analytical Column

Fleet™ Armor™ C18

Monofunctional with unique polar & bulky end-capping

Cat. No.	Description	Qty
AT1811	5µm, 10.0mm x 1.0mm ID	Each
AT1851	5µm, 5.0mm x 1.0mm ID	Each
AT1825	5µm, 2.5.0mm X 0.5mm ID	Each

Fleet™ Lancer™ C18

Extremely well end-capped monofunctional phase

Cat. No.	Description	Qty
LT1811	5µm, 10.0mm x 1.0mm ID	Each
LT1851	5µm, 5.0mm x 1.0mm ID	Each
LT1825	5µm, 2.5mm X 0.5mm ID	Each

Fleet™ Highload™ C18

For applications requiring maximum loading & selectivity

Cat. No.	Description	Qty
HT1811	5µm, 10.0mm x 1.0mm ID	Each
HT1851	5µm, 5.0mm x 1.0mm ID	Each
HT1825	5µm, 2.5mm X 0.5mm ID	Each

Fleet™ Echelon™ C18

Designed for high resolution & selectivity

Cat. No.	Description	Qty
AE1811	5µm, 10.0mm X 1.0mm ID	Each
AE1851	5µm, 5.0mm x 1.0mm ID	Each
AE1825	5µm, 2.5mm x 0.5mm ID	Each



Micro Column Connection Kit

Kit includes:

- PEEK™ one-piece fittings
- Tubing sleeves
- Fused silica capillary tubing, 360µm OD

Cat. No.	Description	Qty
ADV-MFKIT	Micro Column Connection Kit	Each

- Structurally sound to 3500psi (245 bar)
- Fingertight, leak free connection
- Ideal for LC-MS, ballistic gradients high throughput screening
- QA/QC fully tested and certified
- Combine with ZDV union for use in heaters or other applications



Sprite™ Armor™ C18

- Monofunctional with unique polar and bulky end-capping

Cat. No.	Description	Qty
Sprite AC1842	5µm, 40mm x 2.1mm ID	Each
Sprite AC1822	5µm, 20mm X 2.1mm ID	Each
Sprite AC1832	5µm, 10mm x 2.1mm ID	Each
Sprite A10-1842	10µm, 40mm x 2.1mm ID	Each
Sprite A10-1822	10µm, 20mm x 2.1mm ID	Each
Sprite A10-1832	10µm, 10mm X 2.1mm ID	Each

Sprite™ Highload™ C18

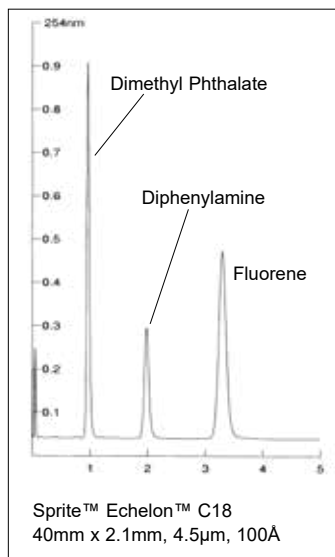
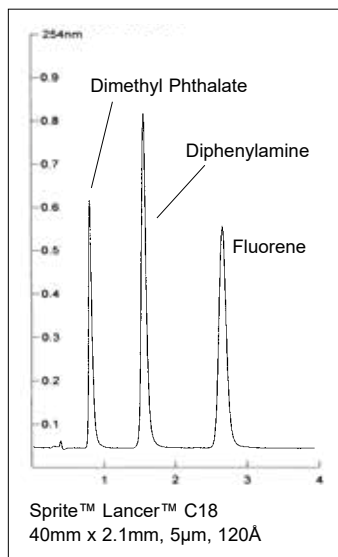
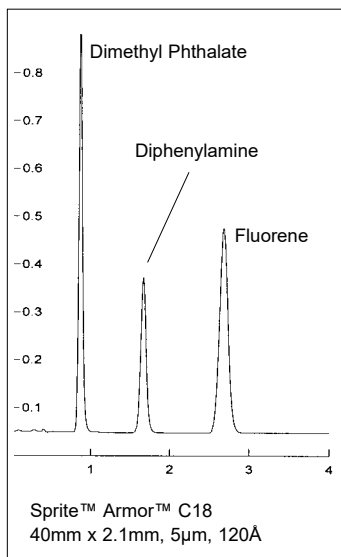
- For applications requiring maximum loading and selectivity

Cat. No.	Description	Qty
Sprite HL1842	5µm, 40mm x 2.1mm ID	Each
Sprite HL1822	5µm, 20mm x 2.1mm ID	Each
Sprite HL1832	5µm, 10mm X 2.1mm ID	Each

Method Development Kit

Cat. No.	Description	Qty
Sprite MD1842	Package of 40mm x 2.1mm columns, Includes Armor™ C18, Echelon™ C18, Lancer™ C18 & Lancer™ Phenyl	Each

Sprite™ Columns Comparison



Sprite™ Lancer™ C18

- Extremely well end-capped monofunctional phase

Cat. No.	Description	Qty
Sprite LC1842	5µm, 40mm x 2.1mm ID	Each
Sprite LC1822	5µm, 20mm X 2.1mm ID	Each
Sprite LC1832	5µm, 10mm x 2.1mm ID	Each
Sprite L10-1842	10µm, 40mm x 2.1mm ID	Each
Sprite L10-1822	10µm, 20mm x 2.1mm ID	Each
Sprite L10-1832	10µm, 10mm X 2.1mm ID	Each

Sprite™ Phenyl™ C18

Cat. No.	Description	Qty
Sprite AL1842	4µm, 40mm x 2.1mm ID	Each

Sprite™ Echelon™ C18

- For applications requiring high resolution and selectivity

Cat. No.	Description	Qty
Sprite AE1842	4µm, 40mm x 2.1mm ID	Each
Sprite AE1822	4µm, 20mm x 2.1mm ID	Each
Sprite AE1832	4µm, 10mm X 2.1mm ID	Each

Sprite 300+ C4 & C8

- For applications requiring high resolution and high selectivity
- Fast HPLC analysis
- LC-MS applications
- PEEK™ / titanium design

C4

Cat. No.	Description	Qty
Sprite 94102	5µm, 10mm x 2.1mm ID	Each
Sprite 94202	5µm, 20mm x 2.1mm ID	Each
Sprite 94402	5µm, 40mm x 2.1mm ID	Each

C8

Cat. No.	Description	Qty
Sprite 98102	5µm, 10mm x 2.1mm ID	Each
Sprite 98202	5µm, 20mm x 2.1mm ID	Each
Sprite 98402	5µm, 40mm x 2.1mm ID	Each

Armor™ C8 and C18 Columns

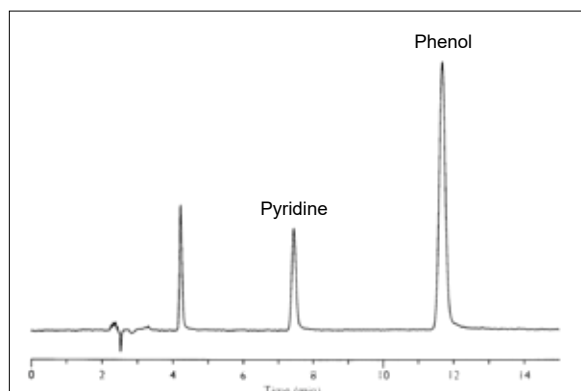
The Armor™ family of columns utilize a remarkable base deactivated material as tough as Armor. An added post-bonding process ensures the protection of the silica's silanol surface against the effects of solute-silanol interactions.

Since column stability and efficiency are primary issues for scientists developing fast HPLC methods with low detection limits, Armor™ columns are ideal for applications requiring an absence of secondary solute-silanol interaction.

Basic and acidic drugs and peptides can be chromatographed efficiently with little or no buffer, where acetic acid or formic acid can be substituted for TFA resulting in significant signal increase.

Advantage™ Armor™ columns exhibit extremely fast equilibration kinetics from high to low organic phase compositions. They also work well in 100% aqueous conditions for hydrophilic applications.

- Ideal for LC-MS: 3 to 5 fold sensitivity increase
- No tailing of basic and acidic analytes
- Batch to batch reproducibility
- Long column life
- Offered in a wide range of formats



This unbuffered Pyridine and Phenol chromatogram illustrates the absence of any undesirable solute/silanol interaction on an ARMOR™ C18 HPLC Column.

Advantage Armor™ Specifications

Phase: C8 and C18
Particle Size: 1.9µm, 3µm, 5µm and 10µm
Pore Size: 120Å
Pore Volume: 0.8mL/gm
Surface Area: 330m²/gm
% Carbon: C8=8%, C18=16%
Phase Type: Monofunctional with a unique polar and bulky end-capping.
Silica Class: Type B
Hardware: PEEK™ & Stainless Steel Columns and Cartridges

Armor™ Analytical Columns

C18 120Å, 1.9µm

Cat. No.	Description	Qty
ADV7108	5.0cm x 2.1mm ID	Each
ADV7102	15cm x 4.6mm ID	Each

C18 120Å, 3µm

Cat. No.	Description	Qty
ADV7329	3.0cm x 4.6mm ID	Each
ADV7300	5.0cm x 4.6mm ID	Each
ADV7301	10.0cm x 4.6mm ID	Each
ADV7302	15.0cm x 4.6mm ID	Each
ADV7303	25.0cm x 4.6mm ID	Each
ADV7330	3.0cm x 3.0mm ID	Each
ADV7304	5.0cm x 3.0mm ID	Each
ADV7305	10.0cm x 3.0mm ID	Each
ADV7306	15.0cm x 3.0mm ID	Each
ADV7307	25.0cm x 3.0mm ID	Each
ADV7321	3.0cm x 2.1mm ID	Each
ADV7308	5.0cm x 2.1mm ID	Each
ADV7309	10.0cm x 2.1mm ID	Each
ADV7310	15.0cm x 2.1mm ID	Each
ADV7311	25.0cm x 2.1mm ID	Each



C18 120Å, 5µm

Cat. No.	Description	Qty
ADV7029	3.0cm x 4.6mm ID	Each
ADV7000	5.0cm x 4.6mm ID	Each
ADV7001	10.0cm x 4.6mm ID	Each
ADV7002	15.0cm x 4.6mm ID	Each
ADV7003	25.0cm x 4.6mm ID	Each
ADV7030	3.0cm x 3.0mm ID	Each
ADV7004	5.0cm x 3.0mm ID	Each
ADV7005	10.0cm x 3.0mm ID	Each
ADV7006	15.0cm x 3.0mm ID	Each
ADV7007	25.0cm x 3.0mm ID	Each
ADV7021	3.0cm x 2.1mm ID	Each
ADV7008	5.0cm x 2.1mm ID	Each
ADV7009	10.0cm x 2.1mm ID	Each
ADV7010	15.0cm x 2.1mm ID	Each
ADV7011	25.0cm x 2.1mm ID	Each

C8 120Å, 5µm

Cat. No.	Description	Qty
ADV5214	3.0cm x 4.6mm ID	Each
ADV5215	5.0cm x 4.6mm ID	Each
ADV5216	10.0cm x 4.6mm ID	Each
ADV5217	15.0cm x 4.6mm ID	Each
ADV5218	25.0cm x 4.6mm ID	Each
ADV5260	3.0cm x 3.0mm ID	Each
ADV5261	5.0cm x 3.0mm ID	Each
ADV5262	10.0cm x 3.0mm ID	Each
ADV5263	15.0cm x 3.0mm ID	Each
ADV5264	25.0cm x 3.0mm ID	Each
ADV5280	3.0cm x 2.1mm ID	Each
ADV5281	5.0cm x 2.1mm ID	Each
ADV5282	10.0cm x 2.1mm ID	Each
ADV5283	15.0cm x 2.1mm ID	Each
ADV5284	25.0cm x 2.1mm ID	Each

Armor™ Guard Cartridges & Holders

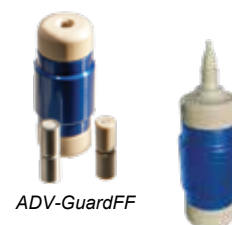
C8 & C18 Guard Cartridges: 5µm, 5/Pkg

Cat. No.	Description	Qty
ADV-A108	C8 Stainless Steel Guard Cartridge, 20mm x 3.2mm ID	Each
ADV-A118	C18 Stainless Steel Guard Cartridge, 20mm x 3.2mm ID	Each
ADV-A185	C18 PEEK™ Guard Cartridge, 20mm x 2.1mm ID	Each



Fingertight Guard Holders for 20mm Columns

Cat. No.	Description	Qty
ADV-GuardFM	PEEK™ Guard Holder	Each
ADV-GuardFF	Double Female Holder	Each



ADV-GuardFF

ADV-GuardFM

Sprite™ Armor™ Direct Connect C18 HPLC Columns

Monofunctional with unique polar and bulky end-capping

- Fast HPLC analysis
- LC-MS applications
- PEEK™ / Titanium design



Cat. No.	Description	Qty
Sprite AC1842	5µm, 40mm x 2.1mm ID	Each
Sprite AC1822	5µm, 20mm X 2.1mm ID	Each
Sprite AC1832	5µm, 10mm x 2.1mm ID	Each
Sprite A10-1842	10µm, 40mm x 2.1mm ID	Each
Sprite A10-1822	10µm, 20mm x 2.1mm ID	Each
Sprite A10-1832	10µm, 10mm X 2.1mm ID	Each

Armor™ Microbore Columns

C18 120Å, 3µm

Cat. No.	Description	Qty
ADV03M1A203	3.0cm x 1.0mm ID	Each
ADV05M1A203	5.0cm x 1.0mm ID	Each
ADV10M1A203	10.0cm x 1.0mm ID	Each
ADV15M1A203	15.0cm x 1.0mm ID	Each
ADV25M1A203	25.0cm x 1.0mm ID	Each
ADV03M5A203	3.0cm x 0.5mm ID	Each
ADV05M5A203	5.0cm x 0.5mm ID	Each
ADV10M5A203	10.0cm x 0.5mm ID	Each
ADV15M5A203	15.0cm x 0.5mm ID	Each
ADV03M3A203	3.0cm x 0.3mm ID	Each
ADV05M3A203	5.0cm x 0.3mm ID	Each
ADV10M3A203	10.0cm x 0.3mm ID	Each

C18 120Å 5µm

Cat. No.	Description	Qty
ADV03M1A205	3.0cm x 1.0mm ID	Each
ADV05M1A205	5.0cm x 1.0mm ID	Each
ADV10M1A205	10.0cm x 1.0mm ID	Each
ADV15M1A205	15.0cm x 1.0mm ID	Each
ADV25M1A205	25.0cm x 1.0mm ID	Each
ADV03M5A205	3cm x 0.5mm ID	Each
ADV05M5A205	5cm x 0.5mm ID	Each
ADV10M5A205	10cm x 0.5mm ID	Each
ADV15M5A205	15cm x 0.5mm ID	Each
ADV03M3A205	3cm x 0.3mm ID	Each
ADV05M3A205	5cm x 0.3mm ID	Each
ADV10M3A205	10cm x 0.3mm ID	Each

C8 120Å 5µm

Cat. No.	Description	Qty
ADV03M1B205	3cm x 1.0mm ID	Each
ADV05M1B205	5cm x 1.0mm ID	Each
ADV10M1B205	10cm x 1.0mm ID	Each
ADV15M1B205	15cm x 1.0mm ID	Each
ADV25M1B205	25cm x 1.0mm ID	Each
ADV03M5B205	3.0cm x 0.5mm ID	Each
ADV05M5B205	5.0cm x 0.5mm ID	Each
ADV10M5B205	10.0cm x 0.5mm ID	Each
ADV15M5B205	15.0cm x 0.5mm ID	Each
ADV03M3B205	3.0cm x 0.3mm ID	Each
ADV05M3B205	5.0cm x 0.3mm ID	Each
ADV10M3B205	10.0cm x 0.3mm ID	Each

Armor™ Semi-Prep & Prep Columns

C18 120Å, 5µm

Cat. No.	Description	Qty
ADV721010	10.0cm x 10mm ID	Each
ADV721510	15.0cm x 10mm ID	Each
ADV722510	25.0cm x 10mm ID	Each
ADV721020	10.0cm x 20mm ID	Each
ADV721520	15.0cm x 20mm ID	Each
ADV722520	25.0cm x 20mm ID	Each

C18 120Å, 10µm

Cat. No.	Description	Qty
ADV711010	10.0cm x 10mm ID	Each
ADV711510	15.0cm x 10mm ID	Each
ADV712510	25.0cm x 10mm ID	Each
ADV711020	10.0cm x 20mm ID	Each
ADV711520	15.0cm x 20mm ID	Each
ADV712520	25.0cm x 20mm ID	Each

C8 120Å, 5µm

Cat. No.	Description	Qty
ADV731010	10.0cm x 10mm ID	Each
ADV731510	15.0cm x 10mm ID	Each
ADV732510	25.0cm x 10mm ID	Each
ADV731020	10.0cm x 20mm ID	Each
ADV731520	15.0cm x 20mm ID	Each
ADV732520	25.0cm x 20mm ID	Each



ADV20-HOLD25

Armor™ Prep & Semi-Prep Guard Cartridges & Holders

C18 Cartridges

Cat. No.	Description	Qty
ADV0310-171	C18, 10µm, 30mm x 10mm ID, 2/Pkg	Each
ADV0220-171	C18, 10µm, 25mm x 20mm ID, 2/Pkg	Each

Holders

Cat. No.	Description	Qty
ADV10-HOLD30	Semi-Prep Guard Cartridge Holder, 10mm ID	Each
ADV20-HOLD25	Prep Guard Cartridge Holder, 20mm ID	Each



Echelon™ C18 Columns

- Wide pH range stability, pH 2-11
- Ideal for basic and acidic analytes
- No secondary Si-OH interaction
- High capacity: smaller particles = higher efficiency

Why is Echelon so good?

Echelon material has been designed from start to finish to optimize analysis of the most challenging basic and acidic compounds.

Pure silica means symmetric peaks.

Echelon silica is manufactured using the purest reagents available, in a process that excludes contaminants from the silica bead structure as it forms. Conventional silicas contain large amounts of metal ion (Fe, Al, Mg, Mn, Cr, Ti, and Ni) and sulfate contaminants, which reduce silica performance. Metal ions increase the acidity of surrounding silanols, promoting increased interaction with polar contaminants, like bases. With Echelon, metals are nonexistent, particularly at the silica surface where their effects are most deleterious. This resulting silica is extremely pure.

Sprite™ Echelon™ Direct Connect C18 HPLC Columns

- 10 to 40 x 2.1mm I.D. sizes
- Fast HPLC analysis
- LC-MS applications
- PEEK™ / titanium design
- Individually tested and certified



Cat. No.	Description	Qty
Sprite AE1842	4.0cm x 2.1mm ID	Each
Sprite AE1822	2.0cm x 2.1mm ID	Each
Sprite AE1832	1.0cm x 2.1mm ID	Each

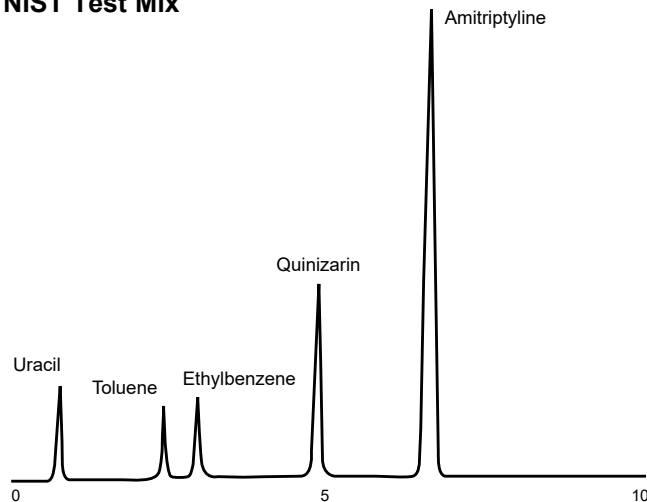
TECH NOTE:

Echelon has been the choice of high throughput screening labs for its impressive durability and wide range of polarities retained.

Advantage™ Echelon™ Specifications

Phase: C18
 Particle Size: 1.7µm, 3µm, 4µm and 5µm
 Pore Size: 100Å
 Pore Volume: 1.0mL/gm
 Surface Area: 430 m²/gm
 % Carbon: C18=18%
 End-Capping: Proprietary and extremely exhaustive
 Silica Class: Ultrapure Type B
 Hardware: PEEK™ & Stainless Steel Columns & Cartridges

NIST Test Mix



Catalog No.: ADV8002
 Column: Echelon C18 150 x 4.6mm
 Eluent: 80% MeOH/buffer
 Flow: 1mL/min.

Quinizarin, a strong metal chelator, and amitriptyline, a very sensitive solute for residual silanols, both elute with good recovery and symmetrical peaks on Echelon.

<2µm Columns C18 100Å 1.7µm

Cat. No.	Description	Qty
ADV8106	Echelon C18, 100Å, 1.7µm, 2cm x 2.1mm	Each
ADV8107	Echelon C18, 100Å, 1.7µm, 3cm x 2.1mm	Each
ADV8108	Echelon C18, 100Å, 1.7µm, 5cm x 2.1mm	Each
ADV8117	Echelon C18, 100Å, 1.7µm, 10cm x 2.1mm	Each

3µm Columns C18 100Å 3µm

Cat. No.	Description	Qty
ADV8302	Echelon C18, 100Å, 3µm, 2cm x 2.1mm	Each
ADV8303	Echelon C18, 100Å, 3µm, 3cm x 2.1mm	Each
ADV8304	Echelon C18, 100Å, 3µm, 5cm x 2.1mm	Each
NEW! ADV02M5	Echelon C18, 100Å, 3µm, 2cm x 0.5mm	Each

Echelon™ Citus™

4µm, 6-32 Threads for Capillary Tubing

Cat. No.	Description	Qty
ET1637	3.0cm x 75µm ID	Each
ET1657	5.0cm x 75µm ID	Each
ET1617	10.0cm x 75µm ID	Each
ET1675	15.0cm x 75µm ID	Each
ET1627	25.0cm x 75µm ID	Each
ET1631	3.0cm x 150µm ID	Each
ET1651	5.0cm x 150µm ID	Each
ET1611	10.0cm x 150µm ID	Each
ET1615	15.0cm x 150µm ID	Each
ET1625	25.0cm x 150µm ID	Each

Echelon™ Microbore Columns

C18 4µm

Cat. No.	Description	Qty
ADV0303185	3.0cm x 0.3mm ID	Each
ADV0503185	5.0cm x 0.3mm ID	Each
ADV1003185	10.0cm x 0.3mm ID	Each
ADV1503185	15.0cm x 0.3mm ID	Each
ADV2503185	25.0cm x 0.3mm ID	Each
ADV0305185	3.0cm x 0.5mm ID	Each
ADV0505185	5.0cm x 0.5mm ID	Each
ADV1005185	10.0cm x 0.5mm ID	Each
ADV1505185	15.0cm x 0.5mm ID	Each
ADV2505185	25.0cm x 0.5mm ID	Each
ADV0310185	3.0cm x 1.0mm ID	Each
ADV0510185	5.0cm x 1.0mm ID	Each
ADV1010185	10.0cm x 1.0mm ID	Each
ADV1510185	15.0cm x 1.0mm ID	Each
ADV2510185	25.0cm x 1.0mm ID	Each

Echelon™ Analytical Columns

C18 4µm

Cat. No.	Description	Qty
ADV8021	3.0cm x 2.1mm ID	Each
ADV8008	5.0cm x 2.1mm ID	Each
ADV8009	10.0cm x 2.1mm ID	Each
ADV8010	15.0cm x 2.1mm ID	Each
ADV8011	25.0cm x 2.1mm ID	Each
ADV8030	3.0cm x 3.0mm ID	Each
ADV8004	5.0cm x 3.0mm ID	Each
ADV8005	10.0cm x 3.0mm ID	Each
ADV8006	15.0cm x 3.0mm ID	Each
ADV8007	25.0cm x 3.0mm ID	Each
ADV8029	3.0cm x 4.6mm ID	Each
ADV8000	5.0cm x 4.6mm ID	Each
ADV8001	10.0cm x 4.6mm ID	Each
ADV8002	15.0cm x 4.6mm ID	Each
ADV8003	25.0cm x 4.6mm ID	Each

Echelon™ Semi-Prep & Prep Columns

C18 5µm

Cat. No.	Description	Qty
ADV820510	5.0cm x 10mm ID	Each
ADV821010	10.0cm x 10mm ID	Each
ADV821510	15.0cm x 10mm ID	Each
ADV822510	25.0cm x 10mm ID	Each
ADV820520	5.0cm x 20mm ID	Each
ADV821020	10.0cm x 20mm ID	Each
ADV821520	15.0cm x 20mm ID	Each
ADV822520	25.0cm x 20mm ID	Each

Echelon™ Guard Cartridges & Holders

C8 & C18 Guard Cartridges: 4µm, 5/Pkg

Cat. No.	Description	Qty
ADV-E118	C18 Stainless Steel Guard, 20mm x 3.2mm ID	Each
ADV-E185	C18 PEEK™ Guard Cartridge, 2cm x 2.1mm	Each



Fingertight Guard Holders for 20mm Columns

Cat. No.	Description	Qty
ADV-GuardFM	PEEK™ Guard Holder	Each
ADV-GuardFF	Double Female Holder	Each



ADV-GuardFM

ADV10-HOLD30

Echelon™ Prep & Semi-Prep Guard Cartridges & Holders

ADV20-HOLD25

Cartridges

Cat. No.	Description	Qty
ADV0220-73	C18, 10µm, 25mm x 20mm ID, 2/Pkg	Each
ADV20-HOLD25	Prep Guard Cartridge Holder, 20mm	Each

Holders

Cat. No.	Description	Qty
ADV0310-73	C18, 10µm, 30mm x 10mm ID, 2/Pkg	Each
ADV10-HOLD30	Semi-Prep Guard Cartridge Holder, 10mm	Each



Direct Connect SS Inline Filter

- 5µl Dead Volume
- 0.5µm SS Frit
- Rated to 15,000 PSI

Cat. No.	Description	Qty
48815	SS Direct Inline Filter Assemblies, 0.5µm Frit	Each
48001	Replacement SS 0.5µm Frit	5

Lancer™ Columns

- High efficiency
- C8, C18, Cyano & Phenyl Phases
- Lot-to-lot reproducibility
- Monofunctional: polar and bulky end-capping
- Highly retentive
- Ideal for non-polar to medium polarity compounds using organic/aqueous mobile phases

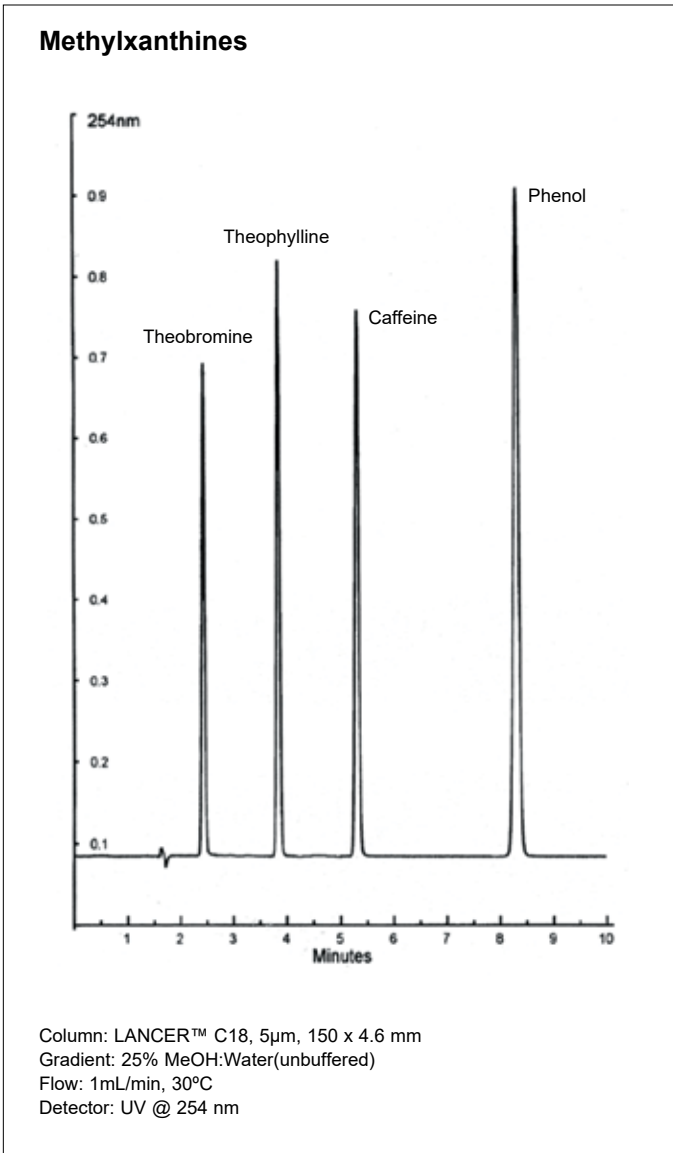
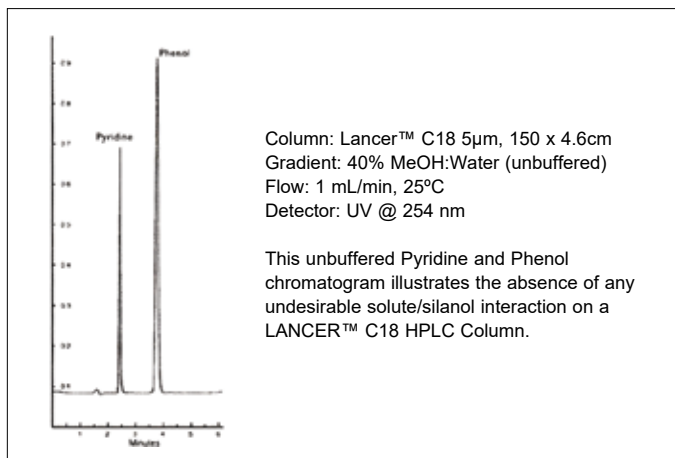
Lancer™ columns are based on the same ultra-pure Type B silica gel used in our Armor™ products, and thoroughly endcapped bonded phases ensure that Lancer™ columns and cartridges will perform well in demanding situations, where many other column brands fail.

The bulky size and secondary chemical functionality of the end-capping moiety on Lancer™ columns and cartridges make them popular choices for researchers developing powerful LC-MS techniques or chromatographers doing routine analysis of difficult polar compounds. Lancer™ is an attractive alternative to traditional reverse phase methods and is an excellent replacement for Hypersil® packed columns.



Advantage Lancer™ Specifications

Phase: C8, C18, Cyano and Phenyl
 % Carbon: C18=18% (w/w)
 Particle Size: 5µm
 Phase Type: Extremely well end-capped monofunctional phases
 Pore Size: 120Å
 Silica Class: Type B
 Pore Volume: 0.8 mL/gm
 Hardware: Stainless Steel and PEEK™ Columns and Cartridges
 Surface Area: 330 m²/gm



Sprite™ Lancer™ Direct Connect C18

For applications requiring high resolution and high selectivity

- 10 to 40 x 2.1mm I.D. sizes
- Fast HPLC analysis
- LC-MS applications
- PEEK™ / Titanium design
- Individually tested and certified

Cat. No.	Description	Qty
Sprite LC1842	5µm, 40mm x 2.1mm ID	Each
Sprite LC1822	5µm, 20mm X 2.1mm ID	Each
Sprite LC1832	5µm, 10mm x 2.1mm ID	Each
Sprite L10-1842	10µm, 40mm x 2.1mm ID	Each
Sprite L10-1822	10µm, 20mm x 2.1mm ID	Each
Sprite L10-1832	10µm, 10mm X 2.1mm ID	Each

Lancer™ Analytical Columns

C18 120Å, 5µm

Cat. No.	Description	Qty
ADV5009	3.0cm x 4.6mm ID	Each
ADV5010	5.0cm x 4.6mm ID	Each
ADV5011	10.0cm x 4.6mm ID	Each
ADV5012	15.0cm x 4.6mm ID	Each
ADV5013	25.0cm x 4.6mm ID	Each
ADV5055	3.0cm x 3.0mm ID	Each
ADV5056	5.0cm x 3.0mm ID	Each
ADV5057	10.0cm x 3.0mm ID	Each
ADV5058	15.0cm x 3.0mm ID	Each
ADV5059	25.0cm x 3.0mm ID	Each
<i>Use with pre-column filter 1605 or 1620</i>		
ADV5075	3.0cm x 2.1mm ID	Each
ADV5076	5.0cm x 2.1mm ID	Each
ADV5077	10.0cm x 2.1mm ID	Each
ADV5078	15.0cm x 2.1mm ID	Each
ADV5079	25.0cm x 2.1mm ID	Each

C8 120Å, 5µm

Cat. No.	Description	Qty
ADV5209	3.0cm x 4.6mm ID	Each
ADV5210	5.0cm x 4.6mm ID	Each
ADV5211	10.0cm x 4.6mm ID	Each
ADV5212	15.0cm x 4.6mm ID	Each
ADV5213	25.0cm x 4.6mm ID	Each
ADV5255	3.0cm x 3.0mm ID	Each
ADV5256	5.0cm x 3.0mm ID	Each
ADV5257	10.0cm x 3.0mm ID	Each
ADV5258	15.0cm x 3.0mm ID	Each
ADV5259	25.0cm x 3.0mm ID	Each
<i>Use with pre-column filter 1605 or 1620</i>		
ADV5275	3.0cm x 2.1mm ID	Each
ADV5276	5.0cm x 2.1mm ID	Each
ADV5277	10.0cm x 2.1mm ID	Each
ADV5278	15.0cm x 2.1mm ID	Each
ADV5279	25.0cm x 2.1mm ID	Each

Phenyl 120Å, 5µm

Cat. No.	Description	Qty
ADV5904	3.0cm x 4.6mm ID	Each
ADV5909	5.0cm x 4.6mm ID	Each
ADV5906	10.0cm x 4.6mm ID	Each
ADV5912	15.0cm x 4.6mm ID	Each
ADV5913	25.0cm x 4.6mm ID	Each
ADV5905	3.0cm x 3.0mm ID	Each
ADV5910	5.0cm x 3.0mm ID	Each
ADV5911	10.0cm x 3.0mm ID	Each
ADV5907	15.0cm x 3.0mm ID	Each
ADV5908	25.0cm x 3.0mm ID	Each
<i>Use with pre-column filter 1605 or 1620</i>		
ADV5975	3.0cm x 2.1mm ID	Each
ADV5976	5.0cm x 2.1mm ID	Each
ADV5977	10.0cm x 2.1mm ID	Each
ADV5978	15.0cm x 2.1mm ID	Each
ADV5979	25.0cm x 2.1mm ID	Each

Lancer™ Guard Cartridges & Holders



Guard Cartridges: 5µm, 5/Pkg

Cat. No.	Description	Qty
ADV-H8185	C8 PEEK™ Guard Cartridge, 20mm x 2.1mm	Each
ADV-H185	C18 PEEK™ Guard Cartridge, 20mm x 2.1mm	Each
ADV-CNP5	Cyano PEEK™ Guard Cartridge, 20mm x 2.1mm	Each
ADV-PHN5	Phenyl PEEK™ Guard Cartridge, 20mm x 2.1mm	Each
ADV-H208	C8 SS Guard Cartridge, 20mm x 3.2mm	Each
ADV-H218	C18 SS Guard Cartridge, 20mm x 3.2mm	Each
ADV-HCN	Cyano SS Guard Cartridge, 20mm x 3.2mm	Each
ADV-H1PH	Phenyl SS Guard Cartridge, 20mm x 3.2mm	Each



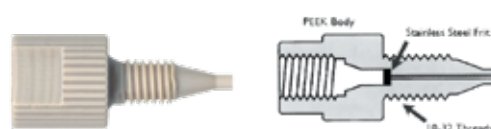
ADV-GuardFM



ADV-GuardFF

Fingertight Guard Holders for 20mm Columns

Cat. No.	Description	Qty
ADV-GuardFM	PEEK™ Guard Holder for 20mm Columns	Each
ADV-GuardFF	Double Female Holder for 20mm Columns	Each
ADV-HBGC	Brownlee NewGuard™ Holder	Each



Direct Connect One Piece PEEK™ HPLC Pre-Column Inline Filter Guard™

The Advantage™ Direct Connect Inline Filter Guards offer an easy and inexpensive way of protecting your column from grease and dirt.

- 5,000 psi
- Connects with 1/16" tubing and 10-32 threading
- Changes in seconds! No tools necessary!

Cat. No.	Description	Qty
1605	Advantage™ 0.5µm Direct Connect Inline Filter Guard	Each
1620	Advantage™ 2.0µm Direct Connect Inline Filter Guard	Each

Lancer™ Microbore Columns

C18 120Å 5µm

Cat. No.	Description	Qty
ADV03L1L205	3.0cm x 1.0mm ID	Each
ADV05L1L205	5.0cm x 1.0mm ID	Each
ADV10L1L205	10.0cm x 1.0mm ID	Each
ADV15L1L205	15.0cm x 1.0mm ID	Each
ADV25L1L205	25.0cm x 1.0mm ID	Each
ADV03L5L205	3.0cm x 0.5mm ID	Each
ADV05L5L205	5.0cm x 0.5mm ID	Each
ADV10L5L205	10.0cm x 0.5mm ID	Each
ADV15L5L205	15.0cm x 0.5mm ID	Each
ADV03L3L205	3.0cm x 0.3mm ID	Each
ADV05L3L205	5.0cm x 0.3mm ID	Each
ADV10L3L205	10.0cm x 0.3mm ID	Each

C8 120Å, 5µm

Cat. No.	Description	Qty
ADV03L1L000	3.0cm x 1.0mm ID	Each
ADV05L1L000	5.0cm x 1.0mm ID	Each
ADV10L1L000	10.0cm x 1.0mm ID	Each
ADV15L1L000	15.0cm x 1.0mm ID	Each
ADV25L1L000	25.0cm x 1.0mm ID	Each
ADV03L5L000	3.0cm x 0.5mm ID	Each
ADV05L5L000	5.0cm x 0.5mm ID	Each
ADV10L5L000	10.0cm x 0.5mm ID	Each
ADV15L5L000	15.0cm x 0.5mm ID	Each
ADV03L3L000	3.0cm x 0.3mm ID	Each
ADV05L3L000	5.0cm x 0.3mm ID	Each
ADV10L3L000	10.0cm x 0.3mm ID	Each

Cyano 120Å, 5µm

Cat. No.	Description	Qty
ADV03C1C000	3.0cm x 1.0mm ID	Each
ADV05C1C000	5.0cm x 1.0mm ID	Each
ADV10C1C000	10.0cm x 1.0mm ID	Each
ADV15C1C000	15.0cm x 1.0mm ID	Each
ADV25C1C000	25.0cm x 1.0mm ID	Each
ADV03C5C000	3.0cm x 0.5mm ID	Each
ADV05C5C000	5.0cm x 0.5mm ID	Each
ADV10C5C000	10.0cm x 0.5mm ID	Each
ADV15C5C000	15.0cm x 0.5mm ID	Each
ADV03C3C000	3.0cm x 0.3mm ID	Each
ADV05C3C000	5.0cm x 0.3mm ID	Each
ADV10C3C000	10.0cm x 0.3mm ID	Each

Phenyl 120Å, 5µm

Cat. No.	Description	Qty
ADV03P1P000	3.0cm x 1.0mm ID	Each
ADV05P1P000	5.0cm x 1.0mm ID	Each
ADV10P1P000	10.0cm x 1.0mm ID	Each
ADV15P1P000	15.0cm x 1.0mm ID	Each
ADV25P1P000	25.0cm x 1.0mm ID	Each
ADV03P5P000	3.0cm x 0.5mm ID	Each
ADV05P5P000	5.0cm x 0.5mm ID	Each
ADV10P5P000	10.0cm x 0.5mm ID	Each
ADV15P5P000	15.0cm x 0.5mm ID	Each
ADV03P3P000	3.0cm x 0.3mm ID	Each
ADV05P3P000	5.0cm x 0.3mm ID	Each
ADV10P3P000	10.0cm x 0.3mm ID	Each

Lancer™ Semi-Prep & Prep Columns

C8 120Å, 5µm

Cat. No.	Description	Qty
ADV621010	10.0cm x 10mm ID	Each
ADV621510	15.0cm x 10mm ID	Each
ADV622510	25.0cm x 10mm ID	Each
ADV621020	10.0cm x 20mm ID	Each
ADV621520	15.0cm x 20mm ID	Each
ADV622520	25.0cm x 20mm ID	Each

C18 120Å, 5µm

Cat. No.	Description	Qty
ADV531010	10.0cm x 10mm ID	Each
ADV531510	15.0cm x 10mm ID	Each
ADV532510	25.0cm x 10mm ID	Each
ADV531020	10.0cm x 20mm ID	Each
ADV531520	15.0cm x 20mm ID	Each
ADV532520	25.0cm x 20mm ID	Each

C18 120Å, 10µm

Cat. No.	Description	Qty
ADV601010	10.0cm x 10mm ID	Each
ADV601510	15.0cm x 10mm ID	Each
ADV602510	25.0cm x 10mm ID	Each
ADV601020	10.0cm x 20mm ID	Each
ADV601520	15.0cm x 20mm ID	Each
ADV602520	25.0cm x 20mm ID	Each



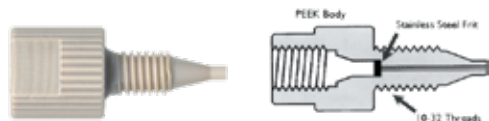
Lancer™ Prep & Semi-Prep Guard Cartridges & Holders

Cartridges

Cat. No.	Description	Qty
ADV0220-181	C18 Prep Guard Cartridges, 10µm, 25mm x 20mm	2
ADV0310-181	C18 Prep Guard Cartridges, 10µm, 30mm x 10mm ID	2

Holders

Cat. No.	Description	Qty
ADV10-HOLD30	Semi-Prep Guard Cartridge Holder, 10mm ID	Each
ADV20-HOLD25	Prep Guard Cartridge Holder, 20mm ID	Each



Direct Connect One Piece PEEK™ HPLC Pre-Column Inline Filter Guard

Advantage™ Direct Connect Inline Filter Guards offer an easy and inexpensive way of protecting your column from grease and dirt.

- Connects with 1/16" tubing and 10-32 threading
- Changes in seconds! No tools necessary!
- **Rated to 5,000psi**

Cat. No.	Description	Qty
1605	Advantage™ 0.5µm Direct Connect Inline Filter Guard	Each
1620	Advantage™ 2.0µm Direct Connect Inline Filter Guard	Each

Direct Connect Stainless Steel UHPLC Pre-Column Inline Filters

- **Rated to 15,000psi**
- 0.5µm titanium frit
- 1µl dead volume



Cat. No.	Description	Qty
49005	Direct Connect UHPLC Pre-Column Filter	10

Direct Connect SS UHPLC Pre-Column Inline Filters

- **Rated to 15,000psi**
- 0.5µm Stainless Steel frit
- 5µl dead volume



Cat. No.	Description	Qty
48815	SS Direct Inline Filter Assembly with 0.5µm Frit	Each
48001	Replacement SS 0.5µm Frit	5
48814	SS Direct Connect Inline Filter Assembly, 0.5µm Titanium Frit	Ea
48804	Replacement 0.5µm Titanium Frit	5
48812	SS Direct Connect Inline Filter Assembly, 2.0µm SS Frit	Each
48802	Replacement SS 2.0µm Frit	5

UHPLC Stainless Steel Inline Filter (1/16" OD tubing)

- **Rated to 15,000psi**
- Low dead volume
- 0.5µm frits



Cat. No.	Description	Qty
48555	Low Dead Volume UHPLC SS Inline Filter Holder with 0.5µm x 0.062" SS Frit	Each
48513	Replacement SS 0.5µm x 0.062" Frit, 2µL	5
48222	UHPLC SS Inline Holder w/ 0.5µm x 0.25" SS Frit	Each
48313	Replacement SS 0.5µm x 0.25" Frit	5

High Pressure Semi-Prep Inline Filters



1/16" OD tubing

Cat. No.	Description	Qty
49330	Semi-Prep Filter with 49331 Frit, 10-32 Coned	Each
49332X	Replacement 2µm SS Frit, .75" x .062" x .87"	10
49331X	Replacement 10µm SS Frit, .75" x .062" x .87"	10



1/8" OD tubing

Cat. No.	Description	Qty
49360	Semi-Prep Filter w/ 10µm Frit with 5/16-24 Flat Bottom Port	Each
97131	Super Flangeless Fitting w/ Locking Ring for 5/16-24 Flat Bottom Ports	Each

Prep Inline Filter

- Replace o-ring periodically
- Use supplied fittings to make proper connections

Cat. No.	Description	Qty
49230	Prep Inline Filter Assembly w/ 2µm Frit	Each
49230DR	Prep Inline Filter Assembly w/ 2µm Frit, Larger Flow Ports (0.04" ID)	Each
49231X	Replacement Inline Prep Filter, 2µm	10
49233	Replacement O-Ring for Prep Inline Filter System	Each
49501	SS Frit, 0.839" x 0.125" , 10µm	20



Advantage™ 100 Columns

Advantage™ 100 are general purpose columns which are well suited for small molecules and peptide applications. The Advantage™ 100 series has been proven to be one of the most efficient and economical columns on the market today and is available in formats ranging from 0.17 to 20mm ID and from 10 to 250mm in length.

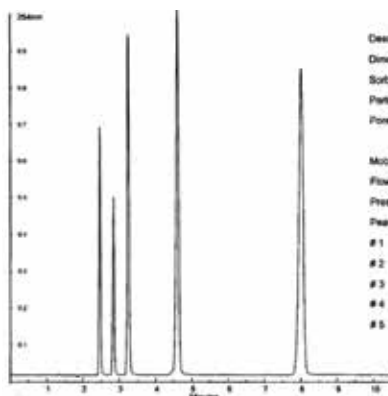
The 100Å pore size, monometric bonded phase and very high performance make the Advantage™ 100 ideal for separations ranging from small molecules such as carbamate pesticides and pharmaceutical drugs to synthetic oligonucleotides and small peptides. High efficiency, symmetrical peaks and long column life is characteristic not only of the C8 and C18 reverse phase columns, but the normal phase silica columns as well.

- High efficiency
- Long column life
- Symmetrical peaks
- Tested and supplied with C of A



Advantage™ 100 Specifications

Phase: Silica, C8 and C18
Particle Size: 3µm and 5µm
Pore Size: 100Å
Pore Volume: 0.5mL/gm
Surface Area: 190m²/gm
% Carbon: C8=7%(w/w), C18=12%(w/w)
Phase Type: Monofunctional and fully end-capped
Silica Class: Type A
Hardware: Stainless Steel & PEEK™ Columns and Cartridges



Advantage 100 C18 3micron
 Dimensions 150x3.0mm

This test chromatogram on the Certificate of Analysis illustrates that the Advantage™ 100 C18 3µm columns have the same near theoretical reduced plate height and perfect symmetry that is characteristic of their 5µm counterparts.

Advantage™ 100, C18 Microbore Columns

C18: 100Å, 5µm

Cat. No.	Description	Qty
ADV03M1C205	3.0cm x 1.0mm ID	Each
ADV05M1C205	5.0cm x 1.0mm ID	Each
ADV10M1C205	10.0cm x 1.0mm ID	Each
ADV15M1C205	15.0cm x 1.0mm ID	Each
ADV03M5C205	3.0cm x 0.5mm ID	Each
ADV05M5C205	5.0cm x 0.5mm ID	Each
ADV10M5C205	10.0cm x 0.5mm ID	Each
ADV15M5C205	15.0cm x 0.5mm ID	Each
ADV03M3C205	3.0cm x 0.3mm ID	Each
ADV05M3C205	5.0cm x 0.3mm ID	Each
ADV10M3C205	10.0cm x 0.3mm ID	Each

Advantage™ 100 Silica Analytical Columns

100Å, 5µm

Cat. No.	Description	Qty
ADV5402	3.0cm x 4.6mm ID	Each
ADV5405	5.0cm x 4.6mm ID	Each
ADV5406	10.0cm x 4.6mm ID	Each
ADV5407	15.0cm x 4.6mm ID	Each
ADV5408	25.0cm x 4.6mm ID	Each
ADV5450	3.0cm x 3.0mm ID	Each
ADV5451	5.0cm x 3.0mm ID	Each
ADV5452	10.0cm x 3.0mm ID	Each
ADV5455	15.0cm x 3.0mm ID	Each
ADV5456	25.0cm x 3.0mm ID	Each
ADV5476	3.0cm x 2.1mm ID	Each
ADV5475	5.0cm x 2.1mm ID	Each
ADV5470	10.0cm x 2.1mm ID	Each
ADV5471	15.0cm x 2.1mm ID	Each
ADV5472	25.0cm x 2.1mm ID	Each

Advantage™ 100 C8 Analytical Columns

C8 100Å, 5µm

Cat. No.	Description	Qty
ADV5204	3.0cm x 4.6mm ID	Each
ADV5205	5.0cm x 4.6mm ID	Each
ADV5206	10.0cm x 4.6mm ID	Each
ADV5207	15.0cm x 4.6mm ID	Each
ADV5208	25.0cm x 4.6mm ID	Each
ADV5250	3.0cm x 3.0mm ID	Each
ADV5251	5.0cm x 3.0mm ID	Each
ADV5252	10.0cm x 3.0mm ID	Each
ADV5253	15.0cm x 3.0mm ID	Each
ADV5254	25.0cm x 3.0mm ID	Each
ADV5270	3.0cm x 2.1mm ID	Each
ADV5271	5.0cm x 2.1mm ID	Each
ADV5272	10.0cm x 2.1mm ID	Each
ADV5273	15.0cm x 2.1mm ID	Each
ADV5274	25.0cm x 2.1mm ID	Each

Advantage™ 100 C18 Analytical Columns

C18 100Å, 5µm

Cat. No.	Description	Qty
ADV5004	3.0cm x 4.6mm ID	Each
ADV5005	5.0cm x 4.6mm ID	Each
ADV5006	10.0cm x 4.6mm ID	Each
ADV5007	15.0cm x 4.6mm ID	Each
ADV5008	25.0cm x 4.6mm ID	Each
ADV5050	3.0cm x 3.0mm ID	Each
ADV5051	5.0cm x 3.0mm ID	Each
ADV5052	10.0cm x 3.0mm ID	Each
ADV5053	15.0cm x 3.0mm ID	Each
ADV5054	25.0cm x 3.0mm ID	Each
ADV5070	3.0cm x 2.1mm ID	Each
ADV5071	5.0cm x 2.1mm ID	Each
ADV5072	10.0cm x 2.1mm ID	Each
ADV5073	15.0cm x 2.1mm ID	Each
ADV5074	25.0cm x 2.1mm ID	Each

C18 100Å, 3µm

Cat. No.	Description	Qty
ADV5304	3.0cm x 4.6mm ID	Each
ADV5305	5.0cm x 4.6mm ID	Each
ADV5306	10.0cm x 4.6mm ID	Each
ADV5307	15.0cm x 4.6mm ID	Each
ADV5308	25.0cm x 4.6mm ID	Each
ADV5350	3.0cm x 3.0mm ID	Each
ADV5351	5.0cm x 3.0mm ID	Each
ADV5352	10.0cm x 3.0mm ID	Each
ADV5353	15.0cm x 3.0mm ID	Each
ADV5354	25.0cm x 3.0mm ID	Each
ADV5374	3.0cm x 2.1mm ID	Each
ADV5376	5.0cm x 2.1mm ID	Each
ADV5375	10.0cm x 2.1mm ID	Each
ADV5377	15.0cm x 2.1mm ID	Each
ADV8011	25.0cm x 2.1mm ID	Each

Advantage™ 100 Guard Cartridges & Holders

Guard Cartridges 5µm

Cat. No.	Description	Qty
ADV-H118	C18 SS Guard Cartridge, 20mm x 3.2mm	5
ADV-H108	C8 SS Guard Cartridge, 20mm x 3.2mm	5
ADV-HLSi	Silica SS Guard Cartridge, 20mm x 3.2mm	5
ADV-M185	C18 PEEK™ Guard Cartridge, 20mm x 2.1mm	5
ADV-C8185	C8 PEEK™ Guard Cartridge, 20mm x 2.1mm	5
ADV-SIL5	Silica PEEK™ Guard Cartridge, 20mm x 2.1mm	5

Fingertight Guard Holders

Cat. No.	Description	Qty
ADV-GuardFM	PEEK™ Guard Holder, 20mm	Each
ADV-GuardWK	Waters Compatible Guard Holder, 20mm	Each
ADV-GuardFF	Double Female Holder, 20mm	Each



Advantage™ 100 Semi-Prep & Prep Columns

C18 100Å, 5µm

Cat. No.	Description	Qty
ADV430510	5.0cm x 10mm ID	Each
ADV431010	10.0cm x 10mm ID	Each
ADV431510	15.0cm x 10mm ID	Each
ADV432510	25.0cm x 10mm ID	Each
ADV430520	5.0cm x 20mm ID	Each
ADV431020	10.0cm x 20mm ID	Each
ADV431520	15.0cm x 20mm ID	Each
ADV432520	25.0cm x 20mm ID	Each

C8 100Å, 5µm

Cat. No.	Description	Qty
ADV420510	5.0cm x 10mm ID	Each
ADV421010	10.0cm x 10mm ID	Each
ADV421510	15.0cm x 10mm ID	Each
ADV422510	25.0cm x 10mm ID	Each
ADV420520	5.0cm x 20mm ID	Each
ADV421020	10.0cm x 20mm ID	Each
ADV421520	15.0cm x 20mm ID	Each
ADV422520	25.0cm x 20mm ID	Each

Silica 100Å 5µm

Cat. No.	Description	Qty
ADV510510	5.0cm x 10mm ID	Each
ADV511010	10.0cm x 10mm ID	Each
ADV511510	15.0cm x 10mm ID	Each
ADV512510	25.0cm x 10mm ID	Each
ADV510520	5.0cm x 20mm ID	Each
ADV511020	10.0cm x 20mm ID	Each
ADV511520	15.0cm x 20mm ID	Each

Advantage™ 100 Semi-Prep & Prep Guard Cartridges & Holders

Cartridges

Cat. No.	Description	Qty
ADV0220-50	C18 10µm Guard Cartridge, 25mm x 20mm	2
ADV0220-54	Silica 10µm Guard Cartridge, 25mm x 20mm	2
ADV0310-50	Silica 10µm Guard Cartridge, 30mm x 10mm	2

Holders

Cat. No.	Description	Qty
ADV10-HOLD30	Semi-Prep 10mm ID Guard Cartridge Holder	Each
ADV20-HOLD25	Prep 20mm ID Guard Cartridge Holder	Each



Canary Safe™

Mobile Phase Safety Caps, Waste Caps, Air Filters & Accessories



Mobile Phase Bottle Safety Caps – GL45



Cat No.	Qty
CC1001	Each
Canary-Safe™ Cap 1, GL45, 1 Standard Port for 1/8" OD Tubing	



Cat No.	Qty
CC1002	Each
Canary-Safe™ Cap 2, GL45, 2 Standard Ports for 1/8" OD Tubing	



Cat No.	Qty
CC1003	Each
Canary-Safe™ Cap 3, GL45, 3 Standard Ports for 1/8" OD Tubing	



Cat No.	Qty
CC1004	Each
Canary-Safe™ Cap 4, GL45, 4 Standard Ports for 1/8" OD Tubing	

Mobile Phase Bottle Safety Caps – GL45, with Shut-off Valves



Cat No.	Qty
CC1011	Each
Canary-Safe™ Cap 1 with Shut-Off Valve (GL45), 1 Standard 1/8" OD Tubing Port	



Cat No.	Qty
CC1012	Each
Canary-Safe™ Cap 1 with Shut-Off Valves (GL45), 2 Standard 1/8" OD Tubing Ports	



Cat No.	Qty
CC1013	Each
Canary-Safe™ Cap 3 with Shut-Off Valves (GL45), 3 Standard 1/8" OD Tubing Ports	



Replacement Filter Check Valve

- Fits Canary-Safe™ mobile phase safety caps
- Replace every six months for optimum protection

Cat No.	Qty
CX0001	Each
Replacement Filter Check Valve for Mobile Phase Safety Caps	



Thread Adapters

• Fit GL45 thread Safety Caps to various bottles of different thread sizes

Cat. No.	Description	Qty
CA4501	PTFE, GL45 Cap - GL40 Bottle, for Canary-Safe™ Caps	Each
CA4502	PP, GL45 Cap - GL40 Bottle, for Canary-Safe™ Caps	Each
CA4503	PTFE, GL45 Cap - GL32 Bottle, for Canary-Safe™ Caps	Each
CA4504	PP, GL45 Cap - GL32 Bottle, for Canary-Safe™ Caps	Each
CA4505	PTFE, GL45 Cap - GL38 Bottle, for Canary-Safe™ Caps <i>(fits most common 4L solvent bottles)</i>	Each
CA4506	PP, GL45 Cap to GL38 Bottle, for Canary-Safe™ Caps <i>(fits most common 4L solvent bottles)</i>	Each
CA4507	PP, S55 Bottle - GL45 Cap, for Canary-Safe™ Caps	Each
CA4508	PP, S60 Bottle - GL45 Cap, for Canary-Safe™ Caps	Each
CA2932	PTFE, GL45 Cap - 29/32 Ground Neck, for Canary-Safe™ Caps	Each
CA4567	PP, GL45 Cap - US67 Bottle, for Canary-Safe Caps	Each
CA4599	PTFE, GL45 Cap to Nalgene Single Thread Bottle	Each
CA4521	Male/Male, for Barrel Thread 2" (BCS70X6) to GL45 Cap	Each

GL45 Adapter

Converts Two GL45 Ports into one GL45 Port

Cat. No.	Description	Qty
CA4522	GL45 2-to-1 Adapter <i>(caps not included)</i>	Each



Canary-Safe Starter Kit

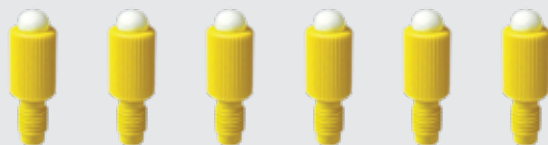
Kit Includes:

- (6) 2-Port GL45 Caps
- (4) PP Adapters for GL38 Bottles
- (6) Replacement Air Check Valves
- (1) Pack of Standard Port Plugs (10/Pk)

Cat. No.	Description	Qty
CCSKIT	Canary-Safe Starter Kit	Each

Replacement Filter Check Valves

Replace every six months for optimum protection (part no. CX0001)



Plugs for 1/8" or 1/16" Ports, White PFA, 10/Pk (part no. CF5007)

Canary-Safe™ Caps

GL45 Threads, 2 Standard Ports for 1/8" OD Tubing (part no. CC1002)



Thread Adapters, Polypropylene, GL45 Cap to GL38 Bottle, fits most common 4L solvent bottles (part no. CA4506)

Safety Waste Caps (exhaust filters sold separately)



Canary-Safe waste caps use an **exhaust filter** which contains an activated carbon material that absorbs 99% of all vapor and particulate materials evaporating from your solvents. See page 104 for filter options and details.

GL45



Cat No.	Thread	Qty
CW45018	GL45	Each
Canary-Safe Waste Cap, GL45, 1 Standard Tubing Port		



Cat No.	Thread	Qty
CW45118	GL45	Each
Waste Cap, GL45, 1 Standard 1/8" OD Tubing Port, 1 Port for Barbed Connector (for larger tubing sizes)		

GL45



Cat No.	Thread	Qty
CW45218	GL45	Each
Waste Cap GL45, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)		



Cat No.	Thread	Qty
CW45313	GL45	Each
Canary-Safe Waste Cap, GL45, 3 Standard Tubing Ports ONLY (no port for exhaust filter)		

GL45



Cat No.	Thread	Qty
CW45319	GL45	Each
Waste Cap GL45, 3 Standard 1/8" OD Tubing Ports		



Cat No.	Thread	Qty
CW45418	GL45	Each
Waste Cap GL45, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)		



Cat No.	Thread	Qty
CW45002	GL45	Each
Canary-Safe Waste Cap, GL45, 2 Ports for Barbed Adapter (for larger tubing sizes)		

S55



Cat No.	Thread	Qty
CW55218	S55	Each
Waste Cap, S55, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)		

B53



Cat No.	Thread	Qty
CW53219	B53	Each

Waste Cap B53, 2 Standard 1/8" OD Tubing Ports



Cat No.	Thread	Qty
CW53218	B53	Each

Waste Cap B53, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)



Cat No.	Thread	Qty
CW53418	B53	Each

Waste Cap B53, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)

S90



Cat No.	Thread	Qty
CW90418	S90	Each

Waste Cap, S90, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)

S60



Cat No.	Thread	Qty
CW60001	S60	Each

Canary-Safe Waste Cap, S60, with 1 Port for Barbed Connector (for larger tubing sizes)



Cat No.	Thread	Qty
CW60218	S60	Each

Waste Cap, S60, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (for larger tubing sizes)



Cat No.	Thread	Qty
CW60302	S60	Each

Waste Cap, S60, 3 Standard 1/8" OD Tubing Ports, 2 Ports for Barbed Connectors (for larger tubing sizes)



Cat No.	Thread	Qty
CW60319	S60	Each

Waste Cap, S60, 3 Standard 1/8" OD Tubing Ports

B83



Cat No.	Thread	Qty
CW83418	B83	Each

Waste Cap B83 for Nalgene Bottles, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector



Cat No.	Thread	Qty
CW83419	B83	Each

Waste Cap B83 for Nalgene Bottles, 4 Standard 1/8" OD Tubing Ports



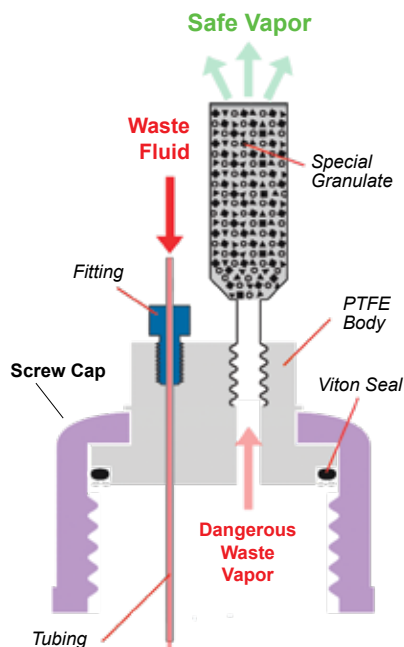
Cat No.	Thread	Qty
CW83001	B83	Each

Waste Cap B83 for Nalgene Bottles, 1 Port for Barbed Connector (for larger tubing sizes)



Cat No.	Thread	Qty
CW83004	B83	Each

Waste Cap B83 for Nalgene Bottles, 4 Ports for Barbed Connectors (for larger tubing sizes)



Timer/ Change Indicator



Push button to activate



Replace when service life expires



Exhaust Filters with Timer/Change Indicator

Canary-Safe exhaust filters contain an activated carbon, multi-component granulate material which absorbs 99% of all vapor and particulate materials evaporating from your solvents.

Filters come with a **Timer/Change Indicator** at no additional cost.

Canary-Safe™ Vapor Exhaust Filters for Safety Waste Caps

Cat. No.	Size	Description	Replacement	Qty
CX3000	S	Exhaust Filter, for containers < 5L	Every 3 Months	Each
CX6000	M	Exhaust Filter, for containers < 20L	Every 6 Months	Each
CX12000	L	Exhaust Filter, for containers > 20L	Every 12 Months	Each
CX6010	M	Exhaust Filter with H ₂ SO ₄ (sulfuric acid) for Volatile Bases	Every 6 Months	Each
CX6020	M	Exhaust Filter with KOH (potassium hydroxide) for Volatile Acids	Every 6 Months	Each



Exhaust Filter Adapters for JustRite® Waste Containers

Cat. No.	Description	Qty
CJX01	Exhaust Filter Fitting/ Long Adapter for SS Port on JustRite Waste Container	Each
CJX02	Exhaust Filter Fitting/ Short Adapter for Gray PEEK Port on JustRite Waste Container	Each



PTFE Adapters for JustRite® Waste Containers

Keep your lab safe and protect your health with our PTFE Adapter. It easily pops into the port located on top of the waste can.

The Adapter accepts up to four waste lines. Y's and T's are available if you need to add additional waste lines.

Cat No.	Description	Qty
CJR01	PTFE Adapter for Gray PEEK Ports on JustRite Waste Cans, 3 Standard ports for 1/8" OD Tubing, 1 Port for Barbed Connector	Each
CJR02	Long Adapter for Stainless Steel Port on JustRite Waste Can, 3 Standard Ports for 1/8" OD Tubing, 1 Port for Barbed Connector	Each
CJR03	PTFE Adapter for Gray PEEK Ports on JustRite Waste Cans, 3 Ports for 3/16" Tubing, 1 Port for Barbed Connector	Each
CJR04	Long Adapter for Stainless Steel Port on JustRite Waste Can, 3 Ports for 3/16" Tubing, 1 Port for Barbed Connector	Each



Adapters can be used with double or triple collectors for added flexibility



Double & Triple Collectors

Cat. No.	Description	Qty
CF5025	Canary-Safe Double Collector, 2 ports for Barbed Connectors	Each
CF5022	Canary-Safe Triple Collector, 3 ports for Barbed Connectors	Each



TECH NOTE:

Flow rates for specific outer diameter tubing when using our PTFE Adapters for the JustRite Waste Cans:

1/16" OD tubing - up to 10 mL / minute

1/8" OD tubing - up to 40 mL / minute.

3/16" OD tubing - up to 100 mL / minute.



Lab Glass Bottles

Cat. No.	Description	Qty
805365	Duran 250mL GL45 Lab Glass Bottle, Plastic Coated , w/ Stock Screw Cap & Pour Ring	Each
805545	Duran 1 Liter GL45 Lab Glass Bottle, Plastic Coated , w/ Stock Screw Cap & Pour Ring	Each
805635	Duran 2 Liter GL45 Lab Glass Bottle, Plastic Coated , w/ Stock Screw Cap & Pour Ring	Each
806543	Duran AMBER 1000mL (1L) GL45 Lab Glass Bottle, Plastic Coated , NO CAP	Each

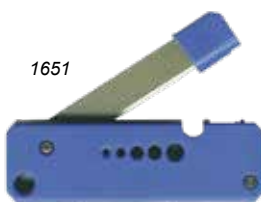


Pour Rings for Lab Glass Bottles

Cat. No.	Description	Qty
294228	Blue PP Pour Rings for GL45 Bottles	10

Accessories

Cat. No.	Description	Qty
1651	Advantage™ Polymer Tubing Cutter w/ 5 Port Sizes	Each
49310	10µm Inlet Filter with stem for 1/8" ID Tubing (for Waters Analytical HPLC Systems)	Each
49426	Biocompatible 10µm Inlet Filter for 1/8" OD Tubing	Each
49550	Replaceable Stainless Steel 10µm Bottom-of-the-Bottle Solvent Filter for 1/8" Tubing	Each



JustRite® Waste Containers

Ideal for HPLC waste applications:

- Vapor and fire protection
- Safeguard against accidental spills
- Maximize safety and convenience

Hands-free solvent collection: Solvent flows freely from your process into the container through tubing making it suitable for either pump-fed or gravity-flow HPLC waste methods. Two disconnect fittings, one intake and one vent, eliminate back pressure in liquid flow disposal line and provide controlled handling of vapor.

Cat No.	Description	Qty
CLPP12752	JustRite® Disposal Safety Can with PP Fittings for 3/8" Tubing, 2 gallon	Each
CLTF12752	JustRite® Disposal Safety Can with SS Fittings for 3/8" Tubing, 2 gallon	Each
CLPP12755	JustRite® Disposal Safety Can with PP Fittings for 3/8" Tubing, 5 gallon	Each
CLTF12755	JustRite® Disposal Safety Can with SS Fittings for 3/8" Tubing, 5 gallon	Each
CL12160	JustRite® Disposal Safety Can with PP Fittings for 3/8" Tubing, 1 gallon	Each

Standard Waste Containers



Cat. No.	Description	Qty
CL45002	Canary-Safe™ GL45 Can, 2 Liter, PE-HD	Each
CL60030	Canary-Safe™ S60 Can, 30 Liter, PE-HD	Each
CL53005	Canary-Safe™ 5L Waste Container for B-53 and S-55 Waste Caps, PE-HD, 142 x 187 x 250 (mm)	Each
CL53010	Canary-Safe™ 10L Waste Container for B-53 and S-55 Waste Caps, PE-HD, 190 x 215 x 320 (mm)	Each
CL53020	Canary-Safe™ 20L Waste Container for B53 and S55 Waste Caps, Translucent PE-HD, 290 x 235 x 370 (mm)	Each
CL60020	Canary-Safe™ S60 Waster Container, 20 Liter, Translucent PE-HD	Each

One-Piece Fingertight Flangeless Fittings



Cat. No.	Description	Qty
59249	PEEK™ One Piece Fitting (1/4-28) for 1/16" Tubing	Each
59349	PEEK™ One Piece Fitting (1/4-28) for 1/8" Tubing	Each



Joint Adapters for Exhaust Filters

Not enough space under your bench? Use these joint adapters to move your exhaust filters to any position.

Cat. No.	Description	Qty
CF5002	Angled Adapter for Canary-Safe™ Charcoal Exhaust Filter	Each
CF5003	Lateral Off-Set Adapter for Canary-Safe™ Charcoal Exhaust Filter (Fixed)	Each
CF5001	Extension for Canary-Safe™ Charcoal Exhaust Filter	Each



Plugs

Cat. No.	Description	Qty
CF5009	Plugs for 6.4mm ID Barbed Connector Port, PP	5
CF5008	Plug for Charcoal Filter Port, Black PP	Each
CF5007	Plugs For 1/8" or 1/16" Ports, White PFA	10
59556	Plug or 3/16" OD Tubing; 5/16-24 Flat Bottom, PEEK	Each



Conical Connectors

Cat. No.	Description	Qty
CF5010	Connector, Conical, 4.2-8mm / 4.2-8mm	Each
CF5011	Connector, Conical, 6.5mm / 6.5mm	Each
CF5012	Connector, Conical, 10.5-16mm / 6.5-12mm	Each
CF5013	Connector, Conical, 10.5-16mm / 3-7.5mm	Each
CF5014	Connector, Conical, 7-11mm / 7-12mm	Each
CF5015	Connector, Conical, 11-15mm / 7-12mm	Each



Y-Connectors

Cat. No.	Description	Qty
CY0003	Y-Connector for 3mm ID Tubing	Each
CY0005	Y-Connector for 5mm ID Tubing	Each
CY0007	Y-Connector for 7mm ID Tubing	Each
CY0009	Y-Connector for 9mm ID Tubing	Each
CY0011	Y-Connector for 11mm ID Tubing	Each



Straight and Angled Barbed Connectors

Cat. No.	Description	Qty
CF5016	Straight Barbed Connector for 3-4mm ID Tubing	Each
CF5017	Straight Barbed Connector for 5-6mm ID Tubing	Each
CF5018	Straight Barbed Connector for 6-9mm ID Tubing	Each
CF5019	Straight Barbed Connector for 9-11mm ID Tubing	Each
CF5020	Angled Barbed Connector for 6-9mm ID Tubing	Each
CF5021	Angled Barbed Connector for 9-11mm ID Tubing	Each

Canary Safe™
SENTINEL
 Level Indicator

NEW!

* Waste container with safety cap not included

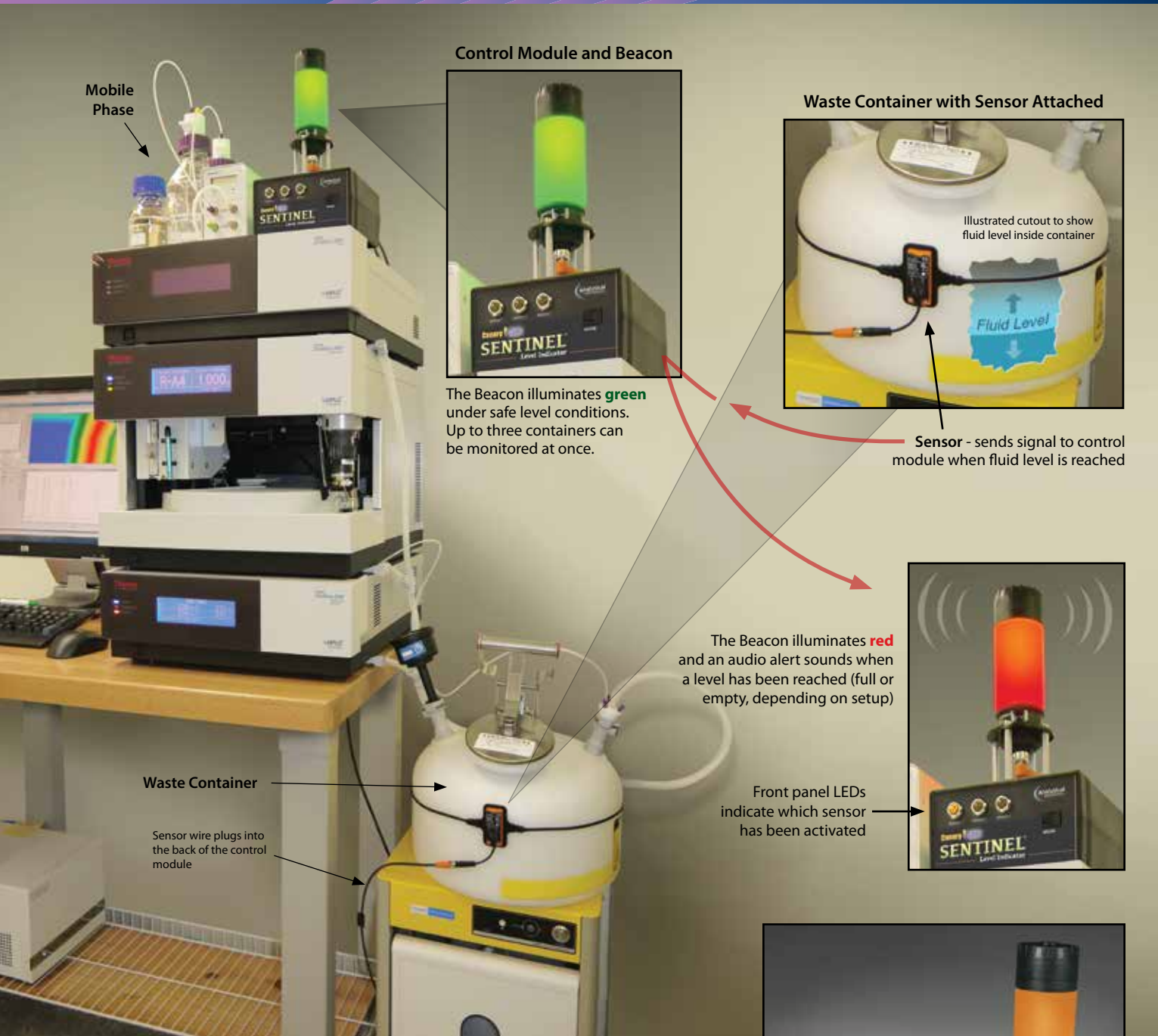


For Safe Fluid Level Monitoring

- Monitor up to 3 bottles (waste or mobile phase) at the same time
- Front panel LEDs indicate which sensor has been activated
- Beacon light illuminates to signify fluid level status (green, red, orange)
- Beacon light can be ceiling-mounted
- Audio alert adjustable to 92dB



Cat. No.	Description	Qty
Sentinel	Level Indicator, includes 3 sensors	Each

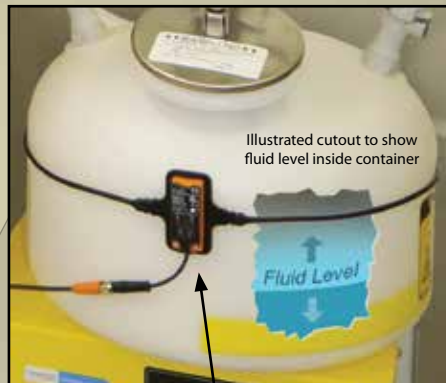


Control Module and Beacon



The Beacon illuminates **green** under safe level conditions. Up to three containers can be monitored at once.

Waste Container with Sensor Attached



Illustrated cutout to show fluid level inside container

Sensor - sends signal to control module when fluid level is reached

The Beacon illuminates **red** and an audio alert sounds when a level has been reached (full or empty, depending on setup)



Front panel LEDs indicate which sensor has been activated

Waste Container

Sensor wire plugs into the back of the control module



The **Pause** button feature suspends audio and visual (red alert) while the Beacon remains illuminated **orange**, reminding the user that attention is needed.



◀ The Sentinel beacon can also be hung from the ceiling using the ceiling-mount fixture (included).



PEEK™ Tubing

1/16" OD x 10' Tubing

Cat. No.	Capacity	Color	PSI Rating	Qty
69-1201	65µm (.0025") ID	Natural	7,000psi (483 bar)	Each
69-1202	100µm (.004") ID	Black	7,000psi (483 bar)	Each
69-1203	125µm (.005") ID	Red	7,000psi (483 bar)	Each
69-1204	150µm (.006") ID	Purple	7,000psi (483 bar)	Each
69-1205	175µm (.007") ID	Yellow	7,000psi (483 bar)	Each
69-1206	.25mm (.010") ID	Natural	7,000psi (483 bar)	Each
69-1207	.25mm (.010") ID	Blue	7,000psi (483 bar)	Each
69-1209	0.02" ID	Orange	7,000psi (483 bar)	Each
69-1210	0.03" ID	Green	7,000psi (483 bar)	Each
69-1211	0.04" ID	Natural	5,000psi (345 bar)	Each
69-1212	0.055" ID	Natural	500psi (345 bar)	Each

1/16" OD x 50' Tubing

Cat. No.	Capacity	Color	PSI Rating	Qty
41535-L4	0.005" ID	Red	7,000psi (483 bar)	Each
41536-L4	0.007" ID	Yellow	7,000psi (483 bar)	Each
41531L4	0.010" ID	Natural	7,000psi (483 bar)	Each
41532-L4	0.020" ID	Orange	7,000psi (483 bar)	Each
41533-L4	0.030" ID	Green	7,000psi (483 bar)	Each
41538-L4	0.040" ID	Natural	5,000psi (345 bar)	Each
41537-L4	0.055" ID	Natural	500psi (34 bar)	Each
41560-L4	0.0025" ID	Natural	7,000psi (483 bar)	Each
41561-L4	0.004" ID	Black	7,000psi (483 bar)	Each
41531B-L4	0.010" ID	Blue	7,000psi (483 bar)	Each

1/16" OD x 100' Tubing

Cat. No.	Capacity	Color	PSI Rating	Qty
41535X-L4	0.005" ID	Red	7,000psi (483 bar)	Each
41536X-L4	0.007" ID	Yellow	7,000psi (483 bar)	Each
41531XL4	0.010" ID	Natural	7,000psi (483 bar)	Each
41532XL4	0.020" ID	Orange	7,000psi (483 bar)	Each
41533XL4	0.030" ID	Green	7,000psi (483 bar)	Each
41538X-L4	0.040" ID	Natural	5,000psi (345 bar)	Each
41537X-L4	0.055" ID	Natural	500psi (34 bar)	Each
41560X-L4	0.0025" ID	Natural	7,000psi (483 bar)	Each
41561X-L4	0.004" ID	Black	7,000psi (483 bar)	Each
41531BXL4	0.010" ID	Blue	7,000psi (483 bar)	Each

1/8" OD x 5' Tubing

Cat. No.	Capacity	Color	PSI Rating	Qty
4154-44	0.08" ID	Natural	3,000 (207 bar)	Each

Capillary PEEK™ Tubing

1/32" OD x 5' Tubing

Cat. No.	Capacity	Color	PSI Rating	Qty
1056-5	125µm (0.005") ID	Red	5,000psi (345 bar)	Each
1057-5	175µm (0.007") ID	Yellow	5,000psi (345 bar)	Each
1058-5	.25mm (0.010") ID	Blue	5,000psi (345 bar)	Each

360µm (0.0145") OD x 5' Tubing

Cat. No.	Capacity	Color	PSI Rating	Qty
1050	50µm (0.002") ID	Natural	2,000psi (138 bar)	Each
1070	100µm (0.004") ID	Red	2,000psi (138 bar)	Each
1080	150µm (0.006") ID	Yellow	2,000psi (138 bar)	Each

Micro Tubing Sleeves

- For connecting capillary tubing
- Tubing sleeves, silica seal

FEP tubing sleeves 1/16" OD

Cat. No.	Capacity	Color	Qty
36395	395µm (0.015") ID, for 340-380µm OD Tubing	Green	10
55247	840 µm (0.033") ID, for 785-825 µm OD Tubing	Green	Each

PEEK™ Tubing Sleeves, 0.025" OD

Cat. No.	Capacity	Color	Qty
55182X	230µm (0.009") ID, for 175-215µm OD Tubing	Natural	10
55185	395µm (0.0155") ID, for 340-380µm OD Tubing	Green	Each

Also available for 1/32" OD tubing - call for parts

PEEK™ is a trademark of Victrex, Plc.; Kel-F® is a registered trademark of 3M Company; Delrin®, Teflon® & Tefzel® are registered trademarks of E.I. du Pont de Nemours and Co. Shortix™ is a trademark of SGT Corporation.



Pre-Cut Stainless Steel Tubing (1/16" OD)

0.005" ID (Red)

Cat. No.	Length	Qty
64152	5cm	Each
64153	10cm	Each
64154	20cm	Each
64155	30cm	Each
64156	0.5M	Each
64604	75cm	Each
64157	1M	Each
64158	5'	Each
64160	25'	Each

0.007" ID (Black)

Cat. No.	Length	Qty
64126	5cm	Each
64127	10cm	Each
64128	20cm	Each
64129	30cm	Each
64130	0.5M	Each
64819	70cm	Each
64131	1M	Each
64108	5'	Each
64161	25'	Each

0.01" ID (Blue)

Cat. No.	Length	Qty
64111	5cm	Each
64112	10cm	Each
64113	20cm	Each
64114	30cm	Each
64132	0.5M	Each
64133	1M	Each
64106	5'	Each
64162	25'	Each

0.02" ID (Yellow)

Cat. No.	Length	Qty
64101	5cm	Each
64102	10cm	Each
64103	20cm	Each
64104	30cm	Each
64134	0.5M	Each
64135	1M	Each
64105	5'	Each
64163	25'	Each

0.03" ID (White)

Cat. No.	Length	Qty
64115	5cm	Each
64116	10cm	Each
64117	20cm	Each
64118	30cm	Each
64136	0.5M	Each
64137	1M	Each
64107	5'	Each
64164	25'	Each

0.04" ID

Cat. No.	Length	Qty
64138	5cm	Each
64139	10cm	Each
64140	20cm	Each
64141	30cm	Each
64142	0.5M	Each
64143	1M	Each
64144	5'	Each
64165	25'	Each



4132-04

Pre-Cut Stainless Steel Tubing Kits

These tubing kits contain 20 pieces of 1/16" OD tubing (10 pieces 5cm long and 10 pieces 10cm long)

Cat. No.	Description	Qty
4132-14	Tubing Kit 0.01" ID	Each
4132-44	Tubing Kit 0.02" ID	Each
4132-04	Tubing Kit 0.01" ID & 0.02" ID @ Various Lengths	Each

Stainless Steel Prep. Tubing, 0.08" ID x 1/8" OD

Cat. No.	Description	Length	Qty
64825	Stainless Steel Prep Tubing	25cm	Each
64800	Stainless Steel Prep Tubing	1M	Each
64803	Stainless Steel Prep Tubing	3M	Each



Teflon® Tubing

Teflon® Tubing, 1/16" OD x 20'

Cat. No.	Description	Max. Press.	Color	Qty
4152-74	0.01" ID	1000psi	Natural	Each
4154-84	0.02" ID	1000psi	Natural	Each
4152-04	0.03" ID	1000psi	Natural	Each

Teflon® Tubing, 1/8" OD x 1/16" ID

Cat. No.	Description	Max. Press.	Color	Qty
4153-04	5 ft.	500psi	Natural	Each
4152-34	10 ft.	500psi	Natural	Each
415993	50 ft.	500psi	Natural	Each

Teflon® Tubing, 3/16" OD x 0.125" ID (Waters® Pumps)

Cat. No.	Description	Max. Press.	Color	Qty
41524-L4	50 ft.	500psi	Natural	Each
41524-XL4	100 ft.	500psi	Natural	Each

Tygon Tubing

For Waste Lines

Cat. No.	Description	Qty
570031	1/4" ID x 3/8" OD x 25'	Each

FlexChrom™

Assemblies

UHPLC, Pre-Finished, One-Piece Flexible Stainless Steel Tubing with Finger Tight Stainless Steel Fittings

Rated to 27,000 psi



HAND TIGHTEN ONLY!



Two-part Finger Tight Stainless Steel Fitting - "locks in" ferrule and tubing

New! Stopper O-ring
Prevents backward travel of Locking Cap when connecting or disconnecting fitting, position can be adjusted along tubing

• 1/16" O.D.

• One-piece Stainless Steel – no brazed-on sleeves

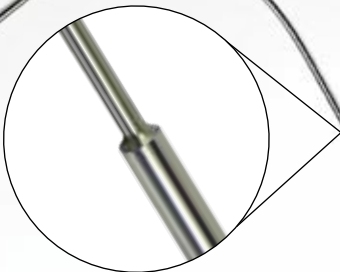
• True ZDV

• Greater flexibility

• Pressure tested to 27,000 psi

• Thin, Durable Tubing Will Not Crack or Snap

One-Piece Stainless Steel



1/16" O.D.

Flexible 1/16" Stainless Steel Tubing - bends easily to fit into tight or hard to reach spaces

1/16" Flexible SS Tubing with SS Fingertight Fittings

Stainless Steel Tubing with No End Fittings

Cat. No.	Dimensions	Qty
NEW! 990041-Flex	10cm x 0.004"ID	Each
990011-Flex	10cm x 0.005"ID	Each
930011-Flex	10cm x 0.007"ID	Each
970011-Flex	10cm x 0.010"ID	Each
NEW! 990042-Flex	20cm x 0.004"ID	Each
990015-Flex	20cm x 0.005"ID	Each
930015-Flex	20cm x 0.007"ID	Each
970015-Flex	20cm x 0.010"ID	Each
NEW! 990043-Flex	30cm x 0.004"ID	Each
990028-Flex	30cm x 0.005"ID	Each
930028-Flex	30cm x 0.007"ID	Each
970028-Flex	30cm x 0.010"ID	Each

Single UHPLC Assembly

Cat. No.	Dimensions	Qty
NEW! 990141-Flex	10cm x 0.004"ID	Each
990111-Flex	10cm x 0.005"ID	Each
930111-Flex	10cm x 0.007"ID	Each
970111-Flex	10cm x 0.010"ID	Each
NEW! 990142-Flex	20cm x 0.004"ID	Each
990115-Flex	20cm x 0.005"ID	Each
930115-Flex	20cm x 0.007"ID	Each
970115-Flex	20cm x 0.010"ID	Each
NEW! 990143-Flex	30cm x 0.004"ID	Each
990128-Flex	30cm x 0.005"ID	Each
930128-Flex	30cm x 0.007"ID	Each
970128-Flex	30cm x 0.010"ID	Each

Double UHPLC Assembly

Cat. No.	Dimensions	Qty
NEW! 990241-Flex	10cm x 0.004"ID	Each
990211-Flex	10cm x 0.005"ID	Each
930211-Flex	10cm x 0.007"ID	Each
970211-Flex	10cm x 0.010"ID	Each
NEW! 990242-Flex	20cm x 0.004"ID	Each
990215-Flex	20cm x 0.005"ID	Each
930215-Flex	20cm x 0.007"ID	Each
970215-Flex	20cm x 0.010"ID	Each
NEW! 990243-Flex	30cm x 0.004"ID	Each
990228-Flex	30cm x 0.005"ID	Each
930228-Flex	30cm x 0.007"ID	Each
970228-Flex	30cm x 0.010"ID	Each



Replacement Graphite Ferrules

Cat. No.	Dimensions	Qty
68566-1	One-Piece Ferrule System	5



Finger Tight Stainless Steel Fittings on 1/16" OD Stainless Steel Tubing



Ultra High Pressure Finger Tight UHPLC Assemblies

- Zero Dead Volume Connection
 - Pressure Tested to 27,000 psi
 - Two-part Finger Tightening System "Locks In" Ferrule and Tubing
- See instruction video: www.analytical-sales.com/UHPLC-Fittings.html#video



Single UHPLC Assembly Stainless Steel Tubing with One Fitting

Cat. No.	Dimensions	Qty
61510	10cm x 0.005" ID	Each
61710	10cm x 0.007" ID	Each
61610	10cm x 0.010" ID	Each
61210	10cm x 0.020" ID	Each
61715	15cm x 0.007" ID	Each
61520	20cm x 0.005" ID	Each
61720	20cm x 0.007" ID	Each
61620	20cm x 0.010" ID	Each
61220	20cm x 0.020" ID	Each
61525	25cm x 0.005" ID	Each
61530	30cm x 0.005" ID	Each
61730	30cm x 0.007" ID	Each
61630	30cm x 0.010" ID	Each
61230	30cm x 0.020" ID	Each
61540	40cm x 0.005" ID	Each
61740	40cm x 0.007" ID	Each
61640	40cm x 0.010" ID	Each
61240	40cm x 0.020" ID	Each
61550	50cm x 0.005" ID	Each
61750	50cm x 0.007" ID	Each
61650	50cm x 0.010" ID	Each
61250	50cm x 0.020" ID	Each
61560	60cm x 0.005" ID	Each



Double UHPLC Assembly Stainless Steel Tubing with Two Fittings

Cat. No.	Dimensions	Qty
62510	10cm x 0.005" ID	Each
62710	10cm x 0.007" ID	Each
62610	10cm x 0.010" ID	Each
62210	10cm x 0.020" ID	Each
62715	15cm x 0.007" ID	Each
62520	20cm x 0.005" ID	Each
62720	20cm x 0.007" ID	Each
62620	20cm x 0.010" ID	Each
62220	20cm x 0.020" ID	Each
62530	30cm x 0.005" ID	Each
62730	30cm x 0.007" ID	Each
62630	30cm x 0.010" ID	Each
62230	30cm x 0.020" ID	Each
62540	40cm x 0.005" ID	Each
62740	40cm x 0.007" ID	Each
62640	40cm x 0.010" ID	Each
62240	40cm x 0.020" ID	Each
62550	50cm x 0.005" ID	Each
62750	50cm x 0.007" ID	Each
62650	50cm x 0.010" ID	Each
62250	50cm x 0.020" ID	Each
62560	60cm x 0.005" ID	Each
62760	60cm x 0.007" ID	Each
62501	100cm x 0.005" ID	Each



Replacement Graphite Ferrules


Cat. No.	Dimensions	Qty
68566-1	One-Piece Ferrule System	5





0.004" id as well as longer tubing lengths are also available - call for details


10-32 One Piece Fingertight Fittings - for 1/16" OD Tubing


• Rated to **6,000 psi**


Cat No. Qty
1654 Each
PEEK™ Fat Head Fitting


Cat No. Qty
1655 Each
PEEK™ X-Long Fat Head Fitting


Cat No. Qty
1676 10
DISCONTINUED



Cat No. Qty
66514-1 5
PEEK™ Fitting


Cat No. Qty
66517-1 5
PEEK™ Long Fitting

HPLC Plugs


Cat No. Qty
66313-3 5
1/16" OD Black Delrin®, 10-32 Threads, Coned Port


Cat No. Qty
66312-5 5
1/16" OD Red Delrin®, 10-32 Threads, Coned Port


Cat No. Qty
1608 Each
1/16" OD Stainless Steel, 10-32 Threads, Coned Port


Cat No. Qty
1610 Each
1/8" OD Stainless Steel, 5/16" Coned Port


Cat No. Qty
59557 Each
White Delrin Plug for 3/16" OD, 5/16-24 Flat Bottom Port


Cat No. Qty
66008 Each
Delrin Column Plug, M8 x 1.25mm for 50mm ID SFC columns

Ultra High Pressure One Piece Stainless Steel Fittings - for 1/16" OD SS Tubing

• Rated to **20,000 psi**


Cat No. Qty
847514 10
1-Piece Reusable SS Fitting for 1/16" SS Tubing


Cat No. Qty
847325X 10
Long 1-Piece Reusable SS Fitting for 1/16" SS Tubing

RheFlex® One Piece Fitting - for 1/16" OD Tubing

• Rated to **5,000 psi** • 10-32 Threads
• ChromTRAC™ Fittings for Easy Identification

	Cat. No.	Color	Qty
	46000-2824	Black	10
	46000-2824BL	Blue	10
	46000-2824GN	Green	10
	46000-2824GY	Grey	10
	46000-2824RD	Red	10
	46000-2824YL	Yellow	10



ChromTRAC™ Multicolor Fitting Knobs Kit

for RheFlex One-Piece Fittings

Cat. No.	Qty
46000-2834	20


Two Piece Fingertight Fittings - for 1/16" OD Tubing

• Rated to **6,000 psi**



Cat No. Qty
66518-1 5
Red Delrin® Fitting w/ 55142 Ferrules, 10-32 Threads


Cat No. Qty
66519-1 5
PEEK™ Fitting with 55142 Ferrules, 10-32 Threads



Cat No. Qty
55330X 10
Long PEEK™ Fitting w/ 55142 Ferrules, 10-32


Cat No. Qty
55142X 10
Replacement PEEK Ferrules for 10-32 Fingertight Fittings


For 1/8" OD Tubing


Cat No. Qty
55301X 10
PEEK™ Fitting with 55162 Ferrules, 1/4-28 Threads, for 1/8" OD Tubing

Stainless Steel Two Piece Fittings

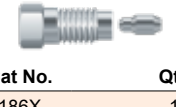

Cat No. Qty
1330X 10
Stainless Steel Nut for 1/32" OD Tubing



Cat No. Qty
1333X 10
Stainless Steel Long Nut for 1/32" OD Tubing

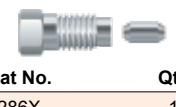

Cat No. Qty
1320X 10
Stainless Steel Ferrule for 1/32" OD Tubing

Ultra High Pressure SS Two Piece Fittings

• Rated to **28,800 psi**








Cat No. Qty
1186X 10
SS Nut w/ 1183X Ferrule for 1/32" OD Tubing


Cat No. Qty
1183X 10
SS Ferrule for 1/32" OD Tubing


Cat No. Qty
1286X 10
SS Nut with 1283X Ferrule for 1/16" OD Tubing





Rheodyne® RheFlex® Stainless Steel Two Piece Fittings

for Cone-Bottom Ports

					
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
46000-1094 5	46000-1114 5	46000-1624 5	46000-1104 5	46000-0824 Each	46000-0834 5
10-32, 1/16" OD SS Fittings Set	10-32, 1/16" OD SS Long Fittings Set	10-32, 1/16" OD SS X-Long Fittings Set	Replacement SS Ferrules for 10-32, 1/16" OD SS Fittings	5/16-24", SS Fittings Set for 1/8" OD Tubing	Replacement SS Ferrules for 5/16-24", 1/8" OD SS Fittings

Rheodyne® RheFlex® PEEK™ Two Piece Fittings

for Cone-Bottom Ports

			
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
46000-0544 5	46000-0554 5	46000-0514 5	46000-0904 5
10-32, 1/16" OD PEEK Fittings Set	10-32, 1/16" OD PEEK Short Fittings Set	10-32, 1/16" OD PEEK Replacement Ferrules	10-32, 1/16" OD PEEK Plug

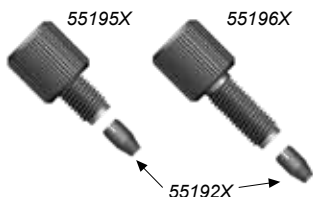
		
Cat No. Qty	Cat No. Qty	Cat No. Qty
46000-0784 Each	46000-2824 10	46000-3604 10
5/16-24, 1/8" OD PEEK™ Fittings Set	10-32, 1/16" OD One Piece, with Black Knob	M4, for 1/32" OD Tubing

PEEK™ Ultra High Pressure Fingertight Fittings

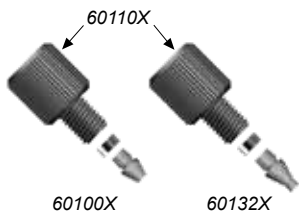
One-Piece Fittings



Two-Piece Fittings



Three-Piece Fittings



Cat. No.	Description	Pressure	Qty
66518-3	One-Piece 10-32 Fitting for 1/16" OD Tubing	12,000 psi	10
84904	One-Piece M4 1/32" Fitting, for Rheodyne® MX Valves	15,000 psi	Each
60126X	One-Piece 6-32 Fitting for 1/32" OD Tubing	15,000 psi	10
55195X	10-32 Short Nut, w/ Ferrule for 1/16" OD Tubing	9,000 psi	10
55196X	10-32 Long Nut, w/ Ferrule for 1/16" OD Tubing	9,000 psi	10
55192X	Ferrule for 1/16" OD Tubing	9,000 psi	10
60110X	10-32 Nut for 1/16" OD Tubing	16,500 psi	10
60100X	PEEK Ferrule for 1/16" OD Tubing w/ SS Rlng	16,500 psi	10
60132X	PEEK Ferrule for 1/32" OD Tubing w/ SS Rlng	16,500 psi	10

Double Ferrule Fingertight SS Fitting

- Rated to **13,500 psi**
- Unique Double Ferrule, Fingertight, ZDV
- The Grooved SS Collet Reinforces the Polymer Ferrule



Cat. No.	Description	Qty
SDY-201	SS Nut w/ Polymer Ferrule and SS Collet	2
SDY-102	Replacement Polymer Ferrules	5
SDY-103	Replacement Stainless Steel Collets	2

Lite-Touch™

- Rated to **5,000 psi**

For 1/16" OD Tubing

Cat. No.	Description	Qty
68561-1	PEEK™ Ferrule, SS Ring	5
68562-1	PEEK™ Nut, 10-32	5

For 1/8" OD Tubing

Cat. No.	Description	Qty
68563-1	PEEK™ Ferrule, SS Ring	5
68564-1	PEEK™ Nut, 1/4-28	5

One Piece Ferrule System

- Optional replacement for Lite-Touch PEEK ferrules
- Rated to **15,000 psi** when used with Lite-Touch

Cat. No.	Description	Qty
68566-1	One Piece Ferrule System	5



Removal Tool

Cat. No.	Description	Qty
68565-1	Removal Tool for Lite-Touch Ferrules	Each



Lite Touch PEEK™ Fittings Kit For 1/16" OD Tubing

Cat. No.	Description	Qty
4158-66	Advantage™ Custom Lite Touch PEEK™ Fittings Kit. Includes: One Package Each of Nuts and Ferrules, w/ Removal Tool. Holds up to 5,000 psi.	Each



Professional Fittings Kit For use with 1/16" OD Tubing

Cat. No.	Description	Qty
4140-22	Advantage™ Custom PEEK™ HPLC Fittings Kit. Includes: Both Regular and Long One Piece Fittings, Two Piece Fittings, Unions and Tees.	Each



High Pressure PEEK™ Fittings Kits For 1/16" OD Tubing

Cat. No.	Description	Qty
4156-63	Advantage™ Custom High Pressure PEEK™ Fittings Kit. Includes: Five Each of Nuts and One Piece Ferrule, System. Hold up to 15,000 psi.	Each



PEEK™ Fittings Kit - for 1/16" OD Tubing

Cat. No.	Description	Qty
4142-00	Advantage™ Custom PEEK™ HPLC Fittings Kit. Includes: 2 PEEK™ ZDV Unions, 2 PEEK™ ZDV Tees, and 2 Pkgs Fingertight Fittings.	Each



Universal Fittings Kit - for 1/16" OD Tubing

Cat. No.	Description	Qty
4140-00	Advantage™ Custom Universal PEEK™ Fittings Kit. Includes: Both Regular and Long Fittings, Unions, Tees and Both 0.005" and 0.01" ID Tubing	Each



Stainless Steel HPLC Fittings Kit For 1/16" OD Tubing

Cat. No.	Description	Qty
4143-15	Advantage™ Custom Stainless Steel HPLC Fittings Kit. Includes: 4 Stainless Steel ZDV Unions, 2 Pkgs Each Stainless Steel Nuts and Ferrules	Each

Stainless Steel Tubing & Fittings Kit - for 1/16" OD Tubing

• For use with Waters® HPLC Systems

Cat. No.	Description	Qty
4140-11	Custom Stainless Steel Fittings Kit for Waters® HPLC Systems. Includes: Nuts, Ferrules, Unions, Rheodyne® Fittings and Both 0.01" and 0.02" ID Pre-cut Tubing.	Each



10-32 Female to Female Adapters - for 1/16" OD Tubing

10-32 ————— M6

Cat No.	Qty
59626	Each
PEEK™ Adapter, 0.020"ID, 10-32 to M6	

10-32 ————— 1/4-28

Cat No.	Qty
415874	Each
Stainless Steel Adapter, 0.040" ID, 10-32 to M6	

10-32 ————— 1/4-28

Cat No.	Qty
59627	Each
PEEK™ Adapter, 0.020"ID, 10-32 to 1/4-28	

10-32 ————— 1/4-28

Cat No.	Qty
415834	Each
Stainless Steel Adapter, 0.040" ID, 10-32 to 1/4-28	

1/4-28 Female to Male Adapters - for 1/16" OD Tubing

10-32 ————— 1/4-28

Cat No.	Qty
59652	Each
PEEK™ Long Adapter, 0.030"ID, 1/4-28 Female to 10-32 Coned Male	

10-32 ————— 1/4-28

Cat No.	Qty
59654	Each
PEEK Extra-Long Adapter 0.030"ID, 1/4-28 Female to 10-32 Coned Male	

1/4-28 ————— 1/4-28

Cat No.	Qty
59671	Each
Teflon® Adapter, 0.040"ID, 1/4-28 Female to 1/4-28 Flat Male	

10-32 ————— 1/4-28

Cat No.	Qty
59672	Each
PEEK™ Adapter, 0.050"ID, 1/4-28 Female to 10-32 Flat Male	

1/4-28 Male to Female Adapters - for 1/16" OD Tubing

1/4-28 ————— 10-32

Cat No.	Qty
59640	Each
Kel-F® (PTFE) Adapter, 0.040" ID, 10-32 Female to 1/4-28 Flat Male	

1/4-28 ————— 5/16-24

Cat No.	Qty
59681	Each
Kel-F® (PTFE) Adapter, 5/16-24 Flat Female to 1/4-28 Flat Male	

10-32 Fm to 1/4-28 Male

10-32 ————— 1/4-28

Cat No.	Qty
415914	Each
Stainless Steel Adapter, 0.040" ID, 10-32 Female to 1/4-28 Male	

Advantage™ Universal Column Couplers - for 1/16" OD Tubing

Cat No.	Qty
64287	Each
PEEK™ Column Coupler. Includes: Two Pair of 2 Piece Fingertight Fittings and One Length of PEEK™ 0.01" ID Tubing	

Cat No.	Qty
64284	Each
Advantage™ PEEK™ Column Coupler. Includes Two Pair of 2 Piece Fingertight Fittings and One Length of PEEK™ 0.007" ID Tubing	

Cat No.	Qty
ADV-CC	Each
Advantage™ Kel-F® Column Coupler, 0.01" ID	

Cat No.	Qty
ADV-PCC	Each
Advantage™ PEEK™ One Piece Column Coupler, 0.01" ID	

Stainless Steel ZDV Unions - for 1/16" OD Tubing, Low Dead Volume




Cat No.	Qty
64402	Each
Stainless Steel ZDV Union, 0.020" ID	



Cat No.	Qty
66213-4	Each
Stainless Steel ZDV Union, 0.010" ID	



Cat No.	Qty
64438	Each
Stainless Steel ZDV Union, 0.062" ID	



Cat No.	Qty
1615	Each
Valco SS Union 21.6mm x 0.25mm (0.009" ID	




Cat No.	Qty
66212-4	Each
Waters® Compatible SS ZDV Union, 0.02" ID	


PEEK™ ZDV Unions - for 1/16" OD Tubing




Cat No.	Qty
59704	Each
PEEK™ 10-32 ZDV Union 0.020" ID w/ End Fittings	



Cat No.	Qty
66414-2	Each
PEEK™ 10-32 ZDV Union 0.010" ID	



Cat No.	Qty
59742-01	Each
PEEK™ 10-32 ZDV Union 0.010" ID without Fittings	




Cat No.	Qty
59615	Each
Semi-prep ZDV Union, 0.05" ID for 1/8" Tubing	


Large Bore Stainless Steel Unions & Fittings - for 1/8" OD Tubing




Cat No.	Qty
415924	Each
SS Adapter, 0.04", 1/16" Female to 1/8" Female	



Cat No.	Qty
4159-34	Each
Stainless Steel Union, 0.05" ID, 1/4-28 Female Threads. Includes Two 1/8" Nuts (52235) & 1/8" Ferrules (52236),	



Cat No.	Qty
52235	Each
Stainless Steel Male Nut 1/4-28 Coned, for 1/8" OD	




Cat No.	Qty
52236	Each
Replacement SS Ferrule for 1/8" OD Tubing	


PEEK™ and Stainless Steel Tees & Crosses - for 1/16" OD Tubing



Cat No.	Qty
66415-2	Each
PEEK™ Tee, 0.020" ID	



Cat No.	Qty
66413-2	Each
PEEK™ Tee 0.020" ID, Body Only	




Cat No.	Qty
59728	Each
PEEK™ Tee, 0.05" ID	



Cat No.	Qty
64428	Each
Stainless Steel Tee, 0.020" ID	



Cat No.	Qty
64429	Each
Stainless Steel Tee, 0.040" ID	




Cat No.	Qty
1602	Each
Stainless Steel Tee, 0.25mm ID	



Cat No.	Qty
1603	Each
Stainless Steel Cross 0.25mm ID	



Cat No.	Qty
1625	Each
Advantage™ PEEK™ Tee, 0.01" ID	



Cat No.	Qty
1626	Each
Advantage™ PEEK™ Cross, 0.01" ID	

Stainless Steel & PEEK™ Manifolds

For 1/16" OD Tubing



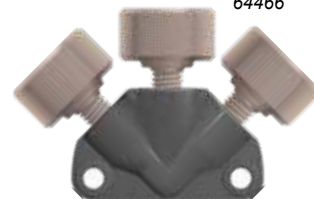
Cat. No.	Description	Qty
2575	4 Inlet SS Manifold	Each
2576	6 Inlet SS Manifold	Each
2577	8 Inlet SS Manifold	Each
2578	10 Inlet PEEK™ Manifold	Each
2588	10 Inlet SS Manifold	Each

for 1/8" OD Tubing

8576	6 Inlet SS Manifold, 0.08" ID	Ea.
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PEEK™ Static Mixing Tee

For 1/16" OD Tubing



- Peek™ body with two-piece fingertight fittings
- Low swept volume

Cat. No.	Description	Qty
64466	High Pressure Mixer w/ 10µm UHMWPE Frit	Each
64466S	High Pressure Mixer w/ 10µm Stainless Steel Frit	Each

Valco Fittings

Cat No.	Qty
64322	Each

ZDV Union .02", .103µL Swept Volume, for 1/16" OD Tubing

Cat No.	Qty
1615	Each

Valco SS Union 21.6mm x 0.25mm (0.009") ID, , for 1/16" OD Tubing

Cat No.	Qty
1602	Each

SS Tee, 0.25mm (0.009") ID, for 1/16" OD Tubing

Cat No.	Qty
1603	Each

SS Cross, 0.25mm (0.009") ID, for 1/16" OD Tubing

Cat No.	Qty
ADV-VN5	Each

Valco Nuts, for 1/16" OD Tubing

Cat No.	Qty
ADV-VF5	Each

Valco Ferrule, for 1/16" OD Tubing

Cat No.	Qty
1608	Each

SS Column Plugs for 1/16" OD Tubing, 5/16"-24 ports

Cat No.	Qty
1610	Each

SS Column Plug for 1/8" OD Tubing, 5/16"-24 ports

Standard Fittings

Cat No.	Qty
66212-4	Each

ZDV Union, .02" ID, 0.10µL Swept Volume, for 1/16" OD Tubing

Cat No.	Qty
52235X	Each

Male Nut for 1/8" OD Tubing, 1/4-28 port

Cat No.	Qty
52236X	10

Ferrule for 1/8" OD Tubing, 1/4-28 Port

Cat No.	Qty
64450X	10

Male Nut for 1/16" OD Tubing, M6 Coned Port

Cat No.	Qty
64410X	10

Male Nut for 1/16" OD Tubing, Waters Compatible, 1/16" Port

Cat No.	Qty
64401X	10

Ferrule for 1/16" OD port, 10-32 or M6 coned port

Cat No.	Qty
85001	Each

Long Fill Port for 22g Needles, Use with 1/16" OD Fittings

Cat No.	Qty
86001	Each

Short Fill Port for 22g Needles, Use w/ 1/16" OD Fittings

Rheodyne® Stainless Steel Fittings

For Cone-Bottom Ports

Cat No.	Qty
46000-1094	5

10-32, 1/16" OD Stainless Steel Fitting Set

Cat No.	Qty
46000-1114	5

10-32, 1/16" OD Stainless Steel Long Fitting Set

Cat No.	Qty
46000-1624	5

10-32, 1/16" OD Stainless Steel Extra-Long Fitting Set

Cat No.	Qty
46000-1104	5

SS Replacement Ferrules

SSI Compatible Fittings

Cat No.	Qty
64352	Each

ZDV Union, with .020" Thru-Hole for 1/16" OD Tubing

Ultra High Pressure Stainless Steel Connectors


• Rated to 20,000 psi



Cat No.	Qty
84161	Each
SS UHP ZDV Union, 0.010" ID, for 1/16" OD Tubing	



Cat No.	Qty
84163	Each
SS UHP Tee, 0.020" ID, for 1/16" OD Tubing	



Cat No.	Qty
84174	Each
SS UHP Cross, 0.020" ID, for 1/16" OD Tubing	




Cat No.	Qty
84175	Each
SS UHP Adapter for 1/16" to 1/32" OD Tubing	

Ultra High Pressure Unions for Capillary Tubing

• Rated to 15,000 psi at room temperature

- Stainless Steel bodies w/ PEEK end fittings
- Direct Connect both 1/32" OD tubing & 360µm OD tubing



Cat No.	Qty
83132	Each
Ultra High Pressure PEEK/SS Union for 1/32" OD Tubing Includes Nuts & Ferrules, 0.006" ID, 5nL Dead Volume	



Cat No.	Qty
83360	Each
Ultra High Pressure PEEK/SS Union for 360 µm OD Tubing Includes Nuts & Ferrules, 0.006" ID, 5nL Dead Volume	



Cat No.	Qty
83133	Each
Ultra High Pressure True ZDV PEEK/SS Union for 1/32" OD Tubing. Includes Fittings & Gauge Plug	

Ultra High Pressure Adapter ZDV Union for Capillary Tubing

• Rated to 12,000 psi

- Direct Connect to 1/32" OD tubing
- True ZDV



Cat No.	Qty
83630	Each
SS Adapter for 1/16" to 1/32" OD Tubing, 10-32 Coned to 6-32 Coned Threads, Comes with Fittings	

Ultra High Pressure Tees & Crosses

• Rated to 28,800psi



Cat No.	Qty
82132	Each
PEEK™/SS Micro Tee for 1/32" OD Tubing	



Cat No.	Qty
82432	Each
PEEK™/SS Micro Cross for 1/32" OD Tubing	



Cat No.	Qty
82360	Each
PEEK™/SS Micro Tee for 360µm OD Tubing	




Cat No.	Qty
82460	Each
PEEK™/SS Micro Cross for 360µm OD Tubing	


Pre-Column MicroFilter Assemblies

- Available for 1/16" OD tubing or 70-520µm OD capillary tubing
- Directly connects to HPLC column
- Pressure rated to 4,000psi (276 bar)
- Total void volume as low as 0.5µL
- Choose from 0.5µm stainless steel or PEEK™ frits





For Use with Tubing Sleeves for Capillary Tubing

	Cat No. 57500	Qty Each
0.5µm Assembly, SS Frit for Capillary Tubing, Includes: (5) 0.5µm 52425 Frits, (1) 55172 and (1) 59416 Fittings		


	Cat No. 57510	Qty Each
0.5µm Assembly, PEEK™ Frit for Capillary Tubing, Includes: (5) 0.5µm 49735 Frits, (1) 55172 and (1) 59416 Fittings		


For use with 1/16" OD Tubing


	Cat No. 57550	Qty Each
0.5µm Assembly, SS Frit for 1/16" OD Tubing, Includes: (5) 0.5µm 52425 Frits, (1) 55132 and (1) 59416 Fittings		

	Cat No. 57560	Qty Each
0.5µm Assembly, PEEK™ Frit for 1/16" OD Tubing, Includes: (5) 0.5µm 49735 Frits, (1) 55132 and (1) 59416 Fittings		

Pre-Column MicroFilter Replacement Parts

	Cat No. 52420X	Qty 10
SS Frits 2.0µm 0.038" x 0.028" x 0.192"		

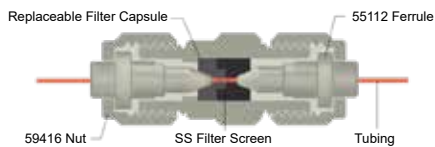
	Cat No. 52425X	Qty 10
SS Frits 0.5µm 0.038" x 0.028" x 0.192"		

	Cat No. 55172	Qty Each
Black PEEK™ MicroFerrule for 0.025" OD Tubing		

	Cat No. 59416	Qty Each
PEEK™ Female Nut, 5/16-24 Internal Threads		

Mini MicroFilter Assemblies

- Total volume as low as 10nL
- Filter at nanoliter flow rates using 1 and 2µm porosity filter capsules
- Direct connect microfilters: Pressure rated to 5,000psi
- Micro filters using tubing sleeves: Pressure rated to 4,000psi



For Direct Connect use of 1/32" OD Tubing


	Cat No. 13-1122	Qty Each
2µm Assembly, SST Screen, Void Volume 97nL, Includes: (5) 2µm 57132 Filter Capsules, (2) 55112, (2) 59416 Fittings		


	Cat No. 13-1123	Qty Each
1µm Assembly, SST Screen, Void Volume 97nL, Includes: (5) 1µm 57131 Filter Capsules, (2) 55112, (2) 59416 Fittings		


	Cat No. 13-1127	Qty Each
1µm Assembly, SST Screen, Void Volume 22nL, Includes: (5) 1µm 57133 Nano Filter Capsules, (2) 55112, and (2) 59416 Fittings		

	Cat No. 13-1128	Qty Each
1µm Assembly, Titanium Frit, Void Volume 22nL, Includes: (5) 1µm 57134 Nano Filter Capsules, (2) 55112, (2) 59416 Fittings		


Mini MicroFilter Replacement Parts


	Cat No. 57121	Qty 2
1µm, PEEK™ Capsule w/ Stainless Steel Filter Screen for 13-1120		


	Cat No. 57126	Qty 2
1µm, PEEK™ Capsule w/ Titanium Frit for 57537 & 13-1138		

	Cat No. 57131	Qty Each
1µm Mini Microfilter Capsule, PEEK with SS Filter Screen for use with 13-1123		

	Cat No. 57133	Qty Each
1µm Mini Microfilter Capsule, PEEK with SS Frit, for use with 13-1127 & 13-1128		

	Cat No. 57134	Qty Each
1µm Mini Microfilter Capsule, PEEK with Titanium Frit, for use with 13-1127 & 13-1128		


	Cat No. 55112	Qty Each
PEEK™ MicroFerrule for 1/32" OD Tubing		

	Cat No. 55172	Qty Each
Black PEEK™ MicroFerrule for 0.025" OD Tubing		

	Cat No. 59416	Qty Each
PEEK™ Female Nut, 5/16-24 Internal Threads		

Inline MicroFilter Assemblies

For use with Tubing Sleeves for Capillary Tubing



- Protects HPLC columns
- Void volume as low as 109nL
- Available in 1.0µm SS or 0.5µm PEEK™

Cat No.	Qty
57520	Each

0.5µm Assembly, PEEK™ Frit, Includes (5) 0.5µm 57120 End Fittings, (2) 55125 Fittings

Replacement Inline End Fittings



Cat No.	Qty
57120X	10

Replacement Inline MicroFilter End-Fittings, with 0.5µm PEEK™ Frit, for MicroTight Tubing Sleeves



Cat No.	Qty
55125X	10

One-Piece PEEK™ Std. Head Nut 6-32, Coned for MicroTight Tubing Sleeves



Cat No.	Qty
57540	Each

For 1/16" OD Tubing .010" (0.25mm), 0.95µL ID Void Volume, Includes (3) 55132 MicroFerrules & (3) 59416 Fittings

Cat No.	Qty
57540A	Each

57540 without Frit, 9.5µL Void Volume

Micro Static Mixing Tee

Designed for flow rates of 20-250µL/minute and has a low swept volume of only .95µL (frit volume).

- Pressure rated to 5,000psi (345 bar)
- 0.5µm PEEK™ frit assists mixing
- PEEK™ and Kel-F® (PTFE) construction chemically resistant & biocompatible
- Connect capillary tubing using our sleeves (sleeves are NOT required for 1/16" OD tubing)



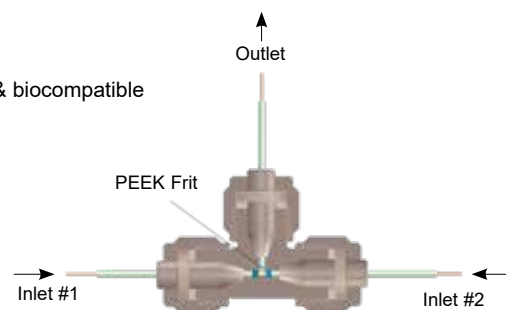
Cat No.	Qty
59416	Each

PEEK™ Female Nut, 5/16-24 Internal Threads



Cat No.	Qty
55132	Each

PEEK™ Female Nut, 5/16-24 Internal Threads



Micro Static Mixing Tee, .010" ID with fittings included (tubing sleeves not included).

5/16-24 PEEK™ MicroTees and MicroCrosses



Cat No.	Qty
59775	Each

MicroTee for 0.025" OD Tubing (sleeves), 0.006" (150µm) ID, Void Volume 29nL, Includes (3) 55172 and (3) 59416 F Nuts



Cat No.	Qty
59875	Each

MicroTee with Mounting Hole for 0.025" OD Tubing (sleeves), 0.006" ID, Void Volume 29nL, Includes (3) 55172 and (3) 59416 F Nuts



Cat No.	Qty
59777	Each

MicroCross for 0.025" OD Tubing (sleeves), 0.006" (150µm) ID, Void Volume 29nL, Includes (3) 55172 and (3) 59416 F Nuts



Cat No.	Qty
59885	Each

MicroTee for 1/32" OD Tubing, 0.006" (150µm) ID, Void Volume 29nL, Includes (3) 55112 and (3) 59416 Female Nuts



Cat No.	Qty
59887	Each

MicroCross for 1/32" OD Tubing, 0.006" (150µm) ID, Void Volume 38nL, Includes (4) 55112 and (4) 59416 Female Nuts



Cat No.	Qty
59888	Each

MicroTee for 360µm OD Tubing, 0.006" (150µm) ID, Void Volume 29nL, Includes (3) 55152 and (3) 59416BLK Female Nuts



Cat No.	Qty
59889	Each

MicroCross for 360µm OD Tubing, 0.006" (150µm) ID, Void Volume 38nL, Includes (4) 55152 and (4) 59416BLK Female Nuts



Cat No.	Qty
59890	Each

MicroTee for 1/16" OD Tubing, 0.006" (0.150µm) ID, Void Volume 58nL, Includes (3) 55132 Micro Ferrules, (3) 59416 Female Nuts



Cat No.	Qty
59416	Each

PEEK™ Female Nut, 5/16-24 Internal Threads




Cat No.	Qty
55152	Each

PEEK™ MicroFerrule for 360µm OD Tubing



Cat No.	Qty
55112	Each

PEEK™ MicroFerrule for 1/32" OD Tubing



Cat No.	Qty
55172	Each

Black PEEK™ MicroFerrule for 0.025" OD Tubing


Micro Fittings

- Works with our micro unions, adapters and inline microfilters
- Comes with ID specifically for 360µm and 1/32"OD tubing and our .025" OD tubing sleeves
- Make superior fingertight connections with your capillary tubing


	Cat No.	Qty
55124X		10
PEEK™ Standard Head Fitting for 360µm OD Tubing		


	Cat No.	Qty
55125X		10
PEEK™ Standard Head Fitting, 6-32, for use with Micro Sleeves		


	Cat No.	Qty
55200		Each
10-32 Red Delrin® Winged Nut with PEEK Ferrule		


	Cat No.	Qty
55148		Each
Kel-F® Ferrule for 190µm OD Tubing (no sleeves required)		


	Cat No.	Qty
55126SX		10
Red PEEK™ Standard Head Fitting, 6-32 for 1/32" OD Tubing (no sleeves required)		

	Cat No.	Qty
55142		Each
PEEK™ Ferrule for 1/16" OD Tubing (no sleeves required)		

	Cat No.	Qty
55142NX		10
PEEK™ Tefzel® Ferrule for 1/16" OD Tubing		


	Cat No.	Qty
55151		Each
Kel-F® Ferrule for 360µm OD Tubing (no sleeves required)		

	Cat No.	Qty
57215		Each
Conductive Perfluoro-elastomer Ferrule for 360µm Tubing (no sleeves required)		

	Cat No.	Qty
55113X		10
PEEK™ Ferrule for 1/32" OD Tubing		

	Cat No.	Qty
55132		Each
PEEK™ MicroFerrule for 1/16" OD Tubing		

	Cat No.	Qty
55152		Each
PEEK™ MicroFerrule for 360µm OD Tubing		


	Cat No.	Qty
55172		Each
Black PEEK™ MicroFerrule for .025" OD Tubing		


	Cat No.	Qty
55112		Each
PEEK™ MicroFerrule for 1/32" OD Tubing		


	Cat No.	Qty
57645X		10
PEEK™ Fitting, 6-40 Coned for 1/32" OD Tubing		


Unions, True Zero Dead Volume (and Replacement Components)


- Tubing connections can be made with or without tubing sleeves
- Direct connection of 1/32" OD tubing and 360µm OD capillary/fused silica tubing

	Cat No.	Qty
59720		Each
PEEK™ Union 6-32 to 6-32, for use w/ Microtight Sleeves, Includes: (2) 55125 Fittings and (1) 59553 Gauge Plug		

	Cat No.	Qty
59771		Each
PEEK™ Union 6-32 to 6-32, Includes: (2) 55126S Fittings and (1) 59553 Gauge Plug (no sleeves required for the connections)		

	Cat No.	Qty
59772		Each
PEEK™ Union 360µm OD to 360µm OD, Includes: (2) 55152 Micro Ferrules and (2) 59416 Female Nuts (no sleeves required)		

	Cat No.	Qty
59553		Each
Delrin® Gauge Plug, 6-32		

	Cat No.	Qty
59554		Each
Delrin® Gauge Plug, 10-32		

	Cat No.	Qty
66514-1		5
Natural PEEK™ 10-32 One Piece Fitting		


	Cat No.	Qty
55125		Each
PEEK™ Standard Head Fitting, 6-32, for use with Micro Sleeves		


	Cat No.	Qty
55126SX		10
PEEK™ Std Head Fitting, 6-32 for 1/32" OD Tubing, Red		


	Cat No.	Qty
59416		Each
PEEK™ Female Nut, 5/16-24 Internal Threads		

	Cat No.	Qty
55152		Each
PEEK™ MicroFerrule for 360µm OD Tubing		

Microtight Adapters

	Cat No.	Qty
59770		Each
PEEK™ Adapter 10-32 to 6-32. Includes: (1) 66514-1, (1) 55125 Fitting and (1) 59554 Gauge Plug		

	Cat No.	Qty
59881		Each
PEEK™ Adapter 10-32 to 6-32. Includes: (1) 55120R, (1) 55126S Fitting and (1) 59554 Gauge Plug		

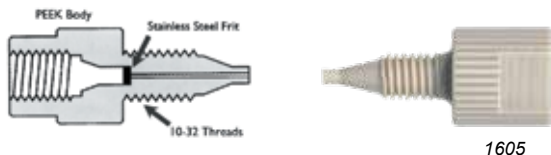
	Cat No.	Qty
59882		Each
PEEK™ Adapter 10-32 to 6-32. Includes: (1) 55120B, (1) 55124 Fitting and (1) 59554 Gauge Plug		

Direct Connect Fingertight Pre-Column Filter

For 1/16" OD Tubing

The Advantage™ Direct Connect Inline Filter Guards offer an easy and inexpensive way of protecting your column from grease and dirt.

- Connects directly to your HPLC column, 10-32
- Changes in seconds, no tools necessary!



Cat. No.	Qty
1605	Each

Advantage™ 0.5µm Direct Connect Fingertight Pre-Column Filter

Cat. No.	Qty
1620	Each

BEST SELLER

Advantage™ 2.0µm Direct Connect Fingertight Pre-Column Filter

Ultra High Pressure Direct Connect Stainless Steel UHPLC Pre-Column Filter

For 1/16" OD Tubing

- Rated to 15,000psi
- 0.5µm titanium frit
- 1µl dead volume



Cat No.	Qty
49005	10

Direct Connect UHPLC Pre-Column Filter

Direct Connect Stainless Steel Pre-Column Filter

For 1/16" OD Tubing

- 5µl dead volume
- 0.5µm SS frit
- Rated to 15,000 ps



Cat. No.	Qty
48815	Each

SS Direct Inline Pre-Column Assembly w/ 0.5µm Frit

Cat. No.	Qty
48001	5

Replacement SS 0.5µm Frit

High Pressure Inline Filters

- One PEEK™ end fitting with built in frit
- To replace filter, unscrew filter end fitting & replace

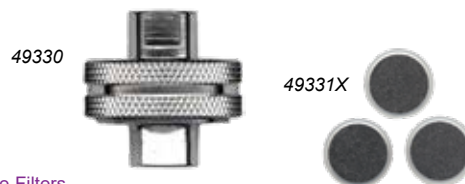


Biocompatible Inline Filters for Analytical HPLC Systems

Cat. No.	Description	Qty
49430	2.0µm Filter Assembly with 49429 Frit	Each
49431	0.5µm Filter with 49428 Frit	Each
49428X	0.5µm Filter End Fitting	10
49429X	2.0µm Filter End Fitting	10

Biocompatible Inline Filters for Semi-Prep HPLC Systems

Cat. No.	Description	Qty
49410	2.0µm Filter Assembly with 58802 Frit	Each
49411	10µm Filter Assembly with 58803 Frit	Each
58802	Replacement 2µm PEEK™ Frit	Each
58803	Replacement 10µm PEEK™ Frit	Each



High Pressure Semi-Prep Inline Filters

Cat. No.	Description	Qty
49330	Semi-Prep Filter with 49331 Frit	Each
49332X	Replacement 2µm SS Frit, .75" x .062" x .87"	10
49331X	Replacement 10µm SS Frit, .75" x .062" x .87"	10







Prep Inline Filter





Cat. No.	Description	Qty
49230	Prep In-line Filter Assembly w/ 2µm Frit	Each
49230DR	Prep In-line Filter Assembly w/ 2µm Frit, Larger Flow Ports (0.04" ID)	Each
49231X	Replacement In-line Prep Filter, 2µm	10
49233	Replacement O-Ring for Prep In-line Filter System	Each
49501	SS Frit, 0.839" x 0.125", 10µm	20
49502	SS Frit, 0.5µm	10

Ultra High Pressure Stainless Steel Inline Filter - for 1/16" OD Tubing

- Rated to 15,000psi
- Low dead volume
- 0.5µm frits

			
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
48555 Each	48513 5	48222 Each	48313 5
Low Dead Volume UHPLC SS Inline Filter Holder with 0.5µm x 0.062" SS Frit	Replacement SS 0.5µm x 0.062" Frit, 2µL	UHPLC SS Inline Holder w/ 0.5µm x 0.250" SS Frit	Replacement SS 0.5µm x 0.250" Frit

Inline Filter (Between pump & injector)



			
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
49314 Each	49100X 10	48135 Each	48155 10
SS Pre-Column Filter w/ 2µm Frit, No. 49100X	2µm SS Replacement Frit, 0.094" x 0.062" x 0.250"	Low Volume, Inline Filter w/ 2µm Frit, No. 48155	2µm, SS Replacement Frit, 0.25" dia. x 0.062"

Pre-Column Filters

				
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
49315 Each	49316 Each	49101X 10	49103X 10	52401X 10
SS Pre-Column Filter w/ 2µm, 49101X Frit	SS Pre-Column Filter w/ 0.5µm, 49102X Frit	2µm SS Replacement Frit, .062" x .062" x 0.250"	0.5µm SS Replacement Frit, .094" x .062" x 0.250"	2µm SS Replacement Frit, .125" x .062" x 0.250"
				
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
49356 Each	49355 Each	49700X 10	49701X 10	52402X 10
PEEK™ Pre-Column Filter w/ .5µm 49701 Frit	PEEK™ Pre-Column Filter w/ 2µm 49700 Frit	2µm PEEK™ Replacement Frit, .062" x .062" x 0.250"	0.5µm PEEK™ Replacement Frit, .062" x .062" x 0.250"	2µm SS Frit, .188" x 0.062" x 0.250"


Ultra Low Dead Volume Pre-Column Filter

- 0.007" ID
- Removable stainless steel ring holds frit
- Use for maximum resolution or microbore work

	
Cat No. Qty	Cat No. Qty
49318 Each	49102X 10
SS Pre-Column Inline Filter w/ 0.5µm Frit (49102)	Replacement 0.5µm SS Frit, .062" x .062" x 0.250"

Stainless Steel Inline Check Valves,

- 15,000 psi Maximum Operating Pressure


Cat No. Qty
452800 Each
Check Valve with 1/8" Ball Cartridge
452818 Each
Replacement 1/8" Ball Cartridge

Flangeless Nuts & Ferrules

For 1/16" OD Tubing, 1/4-28 Flat-Bottom Ports

• Rated to 2000psi on PEEK™ Tubing

				
Cat No. Qty 59200X 10 Blue ETFE Ferrules	Cat No. Qty 59200NX 10 Natural ETFE Ferrules	Cat No. Qty 59200R Each Red ETFE Ferrule	Cat No. Qty 59221 Each Polypropylene Ferrule	Cat No. Qty 59240X 10 ETFE Small Valve Ferrule w/ Sealing Ring, Rated to 2600 psi on ETFE Tubing. <i>Can also be used in 10-32 Flat-Bottom Ports</i>
				
Cat No. Qty 59201X 10 Black Delrin® Nuts	Cat No. Qty 59202X 10 Red Delrin® Nuts	Cat No. Qty 59204 Each Cream Delrin® Nuts	Cat No. Qty 59205X 10 Green Delrin® Nuts	Cat No. Qty 59210X 10 Blue Extra-Long Tefzel® Nut for Dionex Systems
				
Cat No. Qty 59230 Each PEEK™ Nuts	Cat No. Qty 59235X 10 DISCONTINUED	Cat No. Qty 59286 Each Natural PPS Headless Nut	Cat No. Qty 59207X 10 M6 Black 1/16" Flangeless Nut	

Flangeless Nuts & Ferrules

For 1/8" OD Tubing, 1/4-28 Flat-Bottom Ports


• Rated to 500 psi


				
Cat No. Qty 59300X 10 Yellow Tefzel® Ferrule, for 1/4-28 & M6 Flat-Bottom Ports	Cat No. Qty 59300NX 10 Natural Tefzel® Ferrule	Cat No. Qty 59340X 10 Natural Tefzel® Small Valve Ferrule w/ Sealing Ring, up to 3000 psi on ETFE Tubing	Cat No. Qty 59301X 10 Black Delrin® Nuts	Cat No. Qty 59302 Each Red Delrin® Nuts
				
Cat No. Qty 59303 Each White Delrin® Nuts	Cat No. Qty 59305X 10 Green Delrin® Nuts	Cat No. Qty 59306X 10 Blue Delrin® Nuts	Cat No. Qty 59308X 10 Black Delrin® Short Nuts	Cat No. Qty 59315 Each Tefzel® Nuts
				
Cat No. Qty 59320X 10 Polypropylene Nuts	Cat No. Qty 59330X 10 PEEK™ Nuts	Cat No. Qty 59335X 10 PEEK™ Short Nuts	Cat No. Qty 59345X 10 Tefzel® Short Nuts	Cat No. Qty 59307X 10 Black Delrin M6 Nut for 1.8, 2.0, 3.0mm & 1/8" OD Tubing

Flangeless Nuts & Ferrules


For 1/16" OD Tubing, 10-32 Flat-Bottom Ports

	Cat No.	Qty
	95811X	10
Flangeless Nut for 1/16"OD Tubing, 10-32 Flat-bottom, PEEK/Tefzel		

	Cat No.	Qty
	56111X	10
Flangeless Nut for 1/16" OD Tubing, <i>can only be used with 59240X Ferrule</i>		

	Cat No.	Qty
	59240X	10
Tefzel Small Valve Flangeless Ferrule for 1/16" OD Tubing, Natural		

for 3/16" OD Tubing, 5/16 Flat-Bottom Ports

	Cat No.	Qty
	59133	Each
Tefzel Blue Ferrule for 3/16" OD Tubing		

	Cat No.	Qty
	97132X	10
Flangeless Fitting for 3/16" or 4.0mm OD Tubing, PEEK Nut, Blue ETFE ferrule		

One-Piece Fingertight Flangeless Fitting

	Cat No.	Qty
	59249	Each
PEEK™ One Piece Fitting (1/4-28) for 1/16" Tubing		


	Cat No.	Qty
	59349	Each
PEEK™ One Piece Fitting (1/4-28) for 1/8" Tubing		


Super Flangeless Nuts and Ferrules

For 1/16" OD Tubing, 1/4-28 Flat-Bottom Ports

• Rated to 5,000 - 10,000psi on PEEK™ tubing

	Cat No.	Qty
	59255X	10
PEEK™ Nuts, 1/4-28 Port		

	Cat No.	Qty
	59250X	10
PEEK Ferrule w/ Stainless Steel Locking Ring, 1/4-28 or M6 Flat-Bottom Port		

	Cat No.	Qty
	59252X	10
Delrin® Nuts, 1/4-28 Port		


	Cat No.	Qty
	59259X	10
Yellow ETFE Ferrule w/ Stainless Steel Locking Ring, 1/4-28 Flat-Bottom Port		

For 1/16" OD Tubing, 10-32 Flat-Bottom Ports

• Rated to 5,000psi

	Cat No.	Qty
	57652	Each
Super Flangeless Short Hex PEEK Nut, rated to 5000 psi 10-32 Flat bottom port		

	Cat No.	Qty
	57655	Each
Long Super Flangeless Hex PEEK Nut, rated to 5000 psi 10-32 Flat bottom port		

	Cat No.	Qty
	57653	Each
Super Flangeless Short Knurl, PEEK Nut, rated to 5000 psi 10-32 Flat bottom port		

	Cat No.	Qty
	57250X	10
Super Flangeless Ferrule w/ SS Locking ring, rated to 5k psi, 10-32 Flat bottom port		

Super Flangeless Fittings

For 1/8" OD Tubing, 1/4-28 Flat-Bottom Ports

	Cat No.	Qty
	59331	10
Super Flangeless PEEK™ Nut, 1/4-28 Flat-Bottom port		

	Cat No.	Qty
	59350X	10
PEEK Ferrule w/ SS Locking Ring, Rated to 2,500 psi		


	Cat No.	Qty
	59360X	10
PEEK One-Piece Ferrule, Rated to 1,500 psi		

	Cat No.	Qty
	59359X	10
ETFE Ferrule w/ SS Locking Ring, Yellow, Rated to 1,000 psi		

For 1/8" OD Tubing, 1/4-28 Coned Ports

• Rated to 4500psi

	Cat No.	Qty
	68564-1	Each
PEEK Double Winged Nuts for 1/8" OD Tubing, 1/4-28 Coned Port		

	Cat No.	Qty
	68563-1	Each
PEEK Ferrule for 1/8" OD tubing with SS Ring, 1/4-28 Coned Port		

Large Bore Flangeless Fittings & Ferrules

for 1/16" OD Tubing, 5/16 Flat-Bottom

	Cat No.	Qty
	59136	Each
Natural PEEK Flangeless Nut, 5/16-24 Flat-Bottom		


	Cat No.	Qty
	59200	Each
Blue Tefzel™ Flangeless Ferrule (ETFE), 1/4-28 Flat-Bottom		


3/16" OD Tubing Fitting = 5/16-24 Threads
 1/4" OD Tubing Fitting = 1/2-20 Threads

for 1/8" OD Tubing, 5/16 Flat-Bottom

	Cat No.	Qty
	97130	Each
Flangeless Fitting for 1/8" OD Tubing, 5/16-24 Flat-bottom, PEEK/Tefzel		

	Cat No.	Qty
	59300X	10
Flangeless Ferrule, Tefzel for 1/8" OD Tubing		

	Cat No.	Qty
	59130	Each
PEEK Nut for 1/8" OD Tubing, 5/16-24 Flat-Bottom Port		


	Cat No.	Qty
	59134	Each
PEEK™ ZVD Union, 5/16-24 Female Both Ends		

for 1/4" OD Tubing, 1/2-20 Flat-Bottom Ports

	Cat No.	Qty
	65655	10
PEEK Flangeless Nut & Ferrule for 1/4" Tubing, 1/2-20, Black		


for 3/16" OD Tubing, 5/16 Flat-Bottom Ports


	Cat No.	Qty
	97132	Each
Flangeless Fitting for 3/16" OD Tubing, 5/16-24 Flat-bottom port, 500 psi, PEEK/Tefzel		

	Cat No.	Qty
	59132	Each
PEEK Nut for 3/16" OD Tubing, 5/16-24 Flat-Bottom Port		

	Cat No.	Qty
	59133	Each
Blue Tefzel Flangeless Ferrule, Rated to 500 psi, 5/16 Bottom Port		

for 5/16" OD Tubing, 1/2-20 Flat-Bottom Ports

	Cat No.	Qty
	89662	Each
Flangeless Fitting for 5/16" OD Tubing, 1/2-20 Flat-Bottom Port Rated up to 250psi, PEEK/Tefzel		

	Cat No.	Qty
	89660	Each
Flangeless ETFE Ferrule for 5/16" OD Tubing 1/2-20 Flat-Bottom port		

Large Bore Super Flangeless Fittings & Ferrules

for 1/16" OD tubing, 5/16 Flat-Bottom Ports

	Cat No.	Qty
	97141	Each
Super Flangeless Fitting for 1/16" OD tubing, 5/16-24 Flat-bottom, PEEK/Tefzel		

	Cat No.	Qty
	59259X	10
Yellow Super Flangeless Ferrule for 1/16" OD tubing, with SS Lock Ring Tefzel		

for 1/8" OD tubing, 5/16 Flat-Bottom Ports

	Cat No.	Qty
	97131X	Each
Super Flangeless Fitting for 1/8" OD tubing, 5/16-24 Flat-bottom, PEEK/Tefzel		

	Cat No.	Qty
	59359	10
Super Flangeless Ferrule for 1/8" OD Tubing, with SS Locking Ring, Tefzel		

Large Bore Super Flangeless Fittings & Ferrules with Locking Rings

for 3/16" OD tubing, 5/16 Flat-Bottom Ports

	Cat No.	Qty
	97137X	Each
Super Flangeless fitting for 3/16 OD tubing, 5/16-24 Flat Bottom port, 500 psi Black PEEK/Green ETFE/SST		


	Cat No.	Qty
	59140X	10
Green ETFE PEEK Ferrule w/ SS Locking ring, rated to 500 psi, 5/16 - Bottom port		

Unions


PEEK™ Webbed Unions, 1/4-28


Cat No. Qty
59702 Each
0.02" ID for 1/16" OD Tubing
59703 Each
0.05" ID for 1/8" OD Tubing


Tefzel® ZDV Unions, 1/4-28


Cat No. Qty
59630 Each
0.02" ID for 1/16" OD Tubing
59631 Each
0.05" ID for 1/8" OD Tubing

Standard Unions, 1/4-28


Cat No. Qty
59603 Each
Natural Delrin® Union
59620 Each
Natural Polypropylene Union
59623 Each
Natural Tefzel® Union

PEEK™ Y-Connectors

	Cat No. Qty
	59512 Each
	0.02" ID for 1/16" OD Tubing
	59513 Each
	0.04" ID for 1/8" OD Tubing
	59514 Each
	0.06" ID for 1/8" OD Tubing
	59515 Each
	0.125" ID for 3/16" OD Tubing

PEEK™ Tees


Cat No. Qty
59712 Each
0.02" ID for 1/16" OD Tubing
59713 Each
0.05" ID for 1/8" OD Tubing


Tefzel® Tees


Cat No. Qty
59632 Each
0.02" ID for 1/16" OD Tubing
59633 Each
0.05" ID for 1/8" OD Tubing

PEEK™ Crosses



Cat No. Qty
59722 Each
0.02" ID for 1/16" OD Tubing
59723 Each
0.05" ID for 1/8" OD Tubing

Tefzel® Crosses



Cat No. Qty
59634 Each
0.02" ID for 1/16" OD Tubing
59635 Each
0.05" ID for 1/8" OD Tubing

Luer Adapters - for 1/16" OD Tubing


Male to Male Adapters



Cat No. Qty
59605 Each
Delrin® M Luer to 1/4-28 M
59625 Each
Tefzel® M Luer to 1/4-28 M
59619 Each
PP M Luer to 1/4-28 M

Female to Female Adapters


Cat No. Qty
59628 Each
Tefzel® Female Luer to 1/4-28 Female

Female to Male Adapters


Cat No. Qty
59604 Each
Delrin® F Luer to 1/4-28 M
59618 Each
PP F Luer to 1/4-28 M
59624 Each
Tefzel® F Luer to 1/4-28 M


Cat No. Qty
59642 Each
Tefzel® Female Luer to 10-32 Male

Quick Connect Luer Adapters

PEEK


Cat No. Qty
59656 Each
Natural Male Luer to 10-32 F


Cat No. Qty
59659 Each
Natural F Luer to 10-32 F


Cat No. Qty
59655 Each
Red Male Luer to 1/4-28 F


Cat No. Qty
59675 Each
Red Male Luer to 1/4-28 F



Cat No. Qty
59678 Each
Red Female Luer to 1/4-28 F


Cat No. Qty
59658 Each
Red Female Luer to 1/4-28 F


Cat No. Qty
59660 Each
Black Female Luer To M6 F


Cat No. Qty
59657 Each
Black Male Luer To M6 F


Cat No. Qty
59676 Each
Natural F Luer to 10-32 M


Cat No. Qty
59679 Each
Natural F Luer to 10-32 F

Inline Cartridge Check Valves

- Limit Flow in one direction
- Low Cracking Pressure
- <150µL Internal Volume

	
Cat No. Qty	Cat No. Qty
910-3000 Each	910-3001 Each
Complete Inline Check Valve Assembly	Replacement Inline Check Valve Cartridge


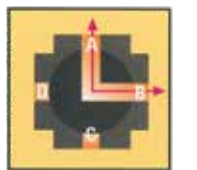
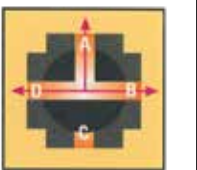
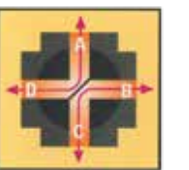
Quick-Stop Luer Check Valves

- Prevents potentially hazardous spills
- Place between solvent reservoir and pump
- No pump re-priming with unique luer lock design


		
Cat No. Qty	Cat No. Qty	Cat No. Qty
59655 Each	59696 Each	59697 Each
Quick Connect Male Luer to 1/4-28 Female, Red Luer Adapter	Quick-Stop Luer Check Valve Assembly, Includes: Valve, Luer Adapter & Nut/Washer Set	Quick-Stop Luer Check Valve


Low Pressure Switching Valves

- For use with 1/16" OD tubing
- For use with 1/8" OD tubing, replace fittings with 59301X & 59300NX

			
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
65100L Each	65100T Each	65100D Each	
Switching Valve	Right Angle Flow Switching Valve, 4 Ports	3-Way Flow Switching Valve, 4 Ports	4-Way Diagonal Flow Switching Valve, 4 Ports




Back Pressure Regulators for 1/16" Tubing


Replaceable Color Cartridges
Cat. No. Description Qty
59761 40 psi Cartridge, Blue Each
59762 75 psi Cartridge, Yellow Each
59763 100 psi Cartridge, Red Each
59764 250 psi Cartridge, White Each
59765 500 psi Cartridge, Green Each
59795 750 psi Cartridge, Black/Blue Each



BPR Assembly w/ SS Holder & Fittings
Cat. No. Description Qty
64608 250 psi Cartridge & Fittings Each
64609 500 psi Cartridge & Fittings Each

PEEK™ Shut Off Valves

- Place between solvent reservoir and pump and quickly and safely change solvent with a turn of the switch

		
Cat No. Qty	Cat No. Qty	Cat No. Qty
59732 Each	59733 Each	59311 Each
.02" ID for 1/16" OD Tubing	.04" ID for 1/8" OD Tubing	Tefzel® Plug for 1/4-28 Flat Bottom Ports






BPR Assembly with PEEK™ Holder & Fittings
Cat. No. Description Qty
59790 5 psi Cartridge, Holder & Fittings Each
59791 20 psi Cartridge, Holder & Fittings Each
59788 250 psi Cartridge, Holder & Fittings Each
59789 500 psi Cartridge, Holder & Fittings Each


High Pressure BPR Holder & Fittings
Cat. No. Description Qty
64469 Stainless Steel BPR Holder Each



Inline Check Valves

- 2,000psi

Standard

			
Cat No. Qty	Cat No. Qty	Cat No. Qty	Cat No. Qty
910-3301 Each	910-3302 Each	910-3315 Each	910-3316 Each
Inlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: 15 psi	Outlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: 15 psi	Inlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: 3 psi	Outlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: 3 psi



Nonmetallic



	
Cat No. Qty	Cat No. Qty
910-3320 Each	910-3340 Each
Inlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: 1 psi	Inlet/Outlet Check Valve, 10-32 F to 10-32 F, Cracking Pressure: 1 psi



M4 Fittings for 1/32" OD Tubing


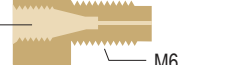
	
Cat No.	Qty
46000-3604	10
Natural PEEK™ RheFlex Fitting, M4	


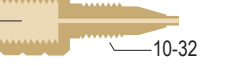
Metric Adapters



	
	
Cat No.	Qty
59621	Each
Tefzel Metric Adapter, 1/4-28 Female to M6 Female	

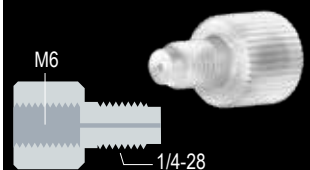
	
	
Cat No.	Qty
59626	Each
PEEK™ Adapter, 0.020" ID, 10-32 Female to M6 Female	

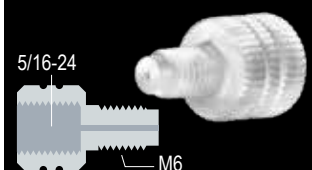
	
	
Cat No.	Qty
415874	Each
Stainless Steel Adapter, 0.040" ID, 10-32 Female to M6 Female	

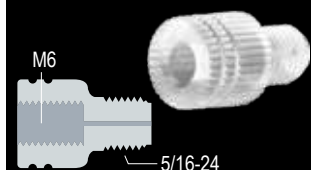
	
	
Cat No.	Qty
65011	Each
PEEK™ Adapter, 10-32 Female to M6 Male	

	
	
Cat No.	Qty
59650	Each
PEEK™ Adapter, M6 Female to 10-32 Male	



	
	
Cat No.	Qty
59653	Each
Extra Long PEEK™ Adapter, M6 Female to 10-32 Male	



	
Cat No.	Qty
59670	Each
Kel-F® Adapter, M6 Female to 1/4-28 Male	

	
Cat No.	Qty
59673	Each
Kel-F® Adapter, 5/16-24 Female to M6 Male	

	
Cat No.	Qty
59724	Each
Kel-F® Adapter, M6 Female to 5/16-24 Male	

Low Pressure Unions

	
	
Cat No.	Qty
59602	Each
Black Delrin® Metric Webbed Union, 0.020 ID	


	
	
Cat No.	Qty
59622	Each
Blue ETFE Metric Webbed Union, 0.020 ID	

Solvent Filters


General Use Inlet Solvent Filters, 40mL/min



Cat No.	Qty
49302A	Each
10µm SS Filter, w/Flangeless Fitting for 1/8"OD Tubing	



Cat No.	Qty
49302	Each
10µm SS Filter, for 1/16" ID Tubing	



Cat No.	Qty
49220	Each
10µm SS Filter, for 1/8" OD Tubing, Nut Not Included	




Cat No.	Qty
49242	Each
2µm SS Filter, for 1/8" OD Tubing, Nut Not Included	

For Waters® Analytical HPLC Systems, 40mL/min



Cat No.	Qty
49310	Each
10µm SS Filter w/Stem for 1/8" ID x 3/16" OD Tubing	

For Preparative HPLC Systems, 100mL/min



Cat No.	Qty
49225	Each
20µm SS Inlet Filter w/Stem for 1/16" ID Tubing	



Cat No.	Qty
49225A	Each
20µm SS Inlet Filter w/Flangeless Fittings for 1/8" OD Tubing	



Cat No.	Qty
49226A	Each
10µm SS Inlet Filter for 5/16" OD Tubing	



Cat No.	Qty
49227A	Each
10µm SS Inlet Filter for 1/4" OD Tubing	



Cat No.	Qty
49230A	Each
20µm SS Inlet Filter for 1/4" OD Tubing	



Cat No.	Qty
49311	Each
10µm SS Inlet Filter w/ Stem for 1/16" ID Tubing	



Cat No.	Qty
49311A	Each
10µm SS Inlet Filter w/ Flangeless Fittings for 1/8" OD Tubing	

SS Bottom-of-the-Bottle™ Solvent Filter Assemblies

• 40mL/min



Draws from the Bottom



Cat No.	Qty
49551	Each
Replaceable 2µm Filter Assembly for 1/8" OD Tubing	



Cat No.	Qty
49550	Each
Replaceable 10µm Filter Assembly for 1/8" OD Tubing	




Cat No.	Qty
49522X	10
2µm Stainless Steel Filter Cups	



Cat No.	Qty
49520X	10
10µm Stainless Steel Filter Cups	

Biocompatible Solvent Filters

• 40mL/min



Cat No.	Qty
49426	Each
10µm UHMWPE Filter, for 1/8" OD Tubing, Complete Unit	



Cat No.	Qty
49427	5
10µm UHMWPE Filter Cups Unit	


Specialty Tools


Cat No. Qty
61629 Each
Ferrule Remover Tool


Cat No. Qty
66788 Each
Stainless Steel Combo Tool



Cat No. Qty
1506 Each
Mini Flashlight


Cat No. Qty
59298 Each
Extender Tightening Tool for Standard Head Fittings



Cat No. Qty
59299 Each
Aluminum Flangeless Nut Extender Tool for Standard Head Fittings



Cat No. Qty
68290 Each
Extender Tool


Cat No. Qty
ADV9851 Each
Stainless Steel Tubing Straightener


Cat No. Qty
FS-101 Each
Ferrule Saver


Cutters


Cat No. Qty
1651 Each
Advantage™ Polymer Tubing Cutter with 5 port sizes
1652 Each
Replacement Blade for PN 1651


Cat No. Qty
49327 Each
PEEK™ Tubing Cutter for 1/16" - 1/8" OD Tubing
49329 Each
PEEK™ Tubing Cutter for 3/16" - 5/16" OD Tubing
49328 5
Repl. Blades for 49327 & 49329



Cat No. Qty
1650 Each
Advantage™ Pliers 1/16" OD SS Tubing Cutter


Cat No. Qty
1551 Each
Advantage™ 1/16" OD and 1/8" OD Stainless Steel Tubing Cutter


Cat No. Qty
TT1001 Each
Rotary Stainless Steel Tubing Cutter for 1/16" OD Tubing
TT1002 Each
Rotary Stainless Steel Tubing Cutter for 1/8" OD Tubing

Wrenches



Cat No. Qty
1653 Each
Valco Double End Wrench
49304 Each
1/4" x 5/16" Open End Wrench
49320 Each
3/8" x 7/16" Open End Wrench
49305 Each
1/2" x 9/16" Open End Wrench


Cat No. Qty
Wrench-6 Each
6" Adjustable Wrench
Wrench-8 Each
8" Adjustable Wrench
Wrench-10 Each
10" Adjustable Wrench
Wrench-12 Each
12" Adjustable Wrench


Tool Kit



Cat No. Qty
ADV9850 Each
Advantage™ Chromatography Tool Kit Includes: Pliers, Hex Wrenches, Fittings Wrench, Column Wrenches, Assorted Screwdrivers and Storage Box

Tubing Clips


Cat No. Qty
1600 Each
Tubing Clip, Holes for 1/16" and 1/8" OD Polymer Tubing. SS Spring Clip Fits Glassware up to 4mm Thick

Fittings Storage Cabinets


Cat No. Qty
ADVKIT-18 Each
18 Drawer Storage Cabinet


Cat No. Qty
ADVKIT-39 Each
39 Drawer Storage Cabinet

Let Analytical Sales design a customized storage system for your HPLC fittings!
A FREE SERVICE FOR OUR CUSTOMERS!
 Call today for details!

Tuning Tee Kit



Includes:
• Tubing
• Fittings
• Tee

(syringe not included)

Tuning Tee Kit

Cat. No.	Description	Qty
66126	Tuning Tee Kit	Each

*Choose a cemented needle from right.

Syringes with Cemented Needles

Point Style No. 3



Cat. No.	Description	Qty
4811754	Model 1725, 250µL, 22s Gauge	Each
4612184	Model 1750, 500µL, 22 Gauge	Each
4613184	Model 1001, 1mL, 22 Gauge	Each

700 Series Microliter™ Syringes with Cemented Needles

Point Style No. 2



Cat. No.	Description	Qty
4803004	Model 701, 10µL, 26s Gauge	Each
4804004	Model 702, 25µL, 22s Gauge	Each
4805004	Model 705, 50µL, 22s Gauge	Each
4806004	Model 710, 100µL, 22s Gauge	Each
4807004	Model 725, 250µL, 22s Gauge	Each
4808004	Model 750, 500µL, 22s Gauge	Each

Teflon® Tubing Sleeve for needle insertion is also included

Infusion Kits

Each Kit contains one syringe, adapter, fittings, tubing, PEEK™ tee connection, and one standard replacement needle.

Cat. No.	Description	Volume	Qty
44405	Infusion Kit	50µL	Each
44401	Infusion Kit	100µL	Each
44425	Infusion Kit	250µL	Each
44450	Infusion Kit	500µL	Each
44410	Infusion Kit	1.0mL	Each
44420	Infusion Kit	2.5mL	Each
55510	Infusion Kit	10mL	Each
55525	Infusion Kit	25mL	Each



Gastight® Syringes for LC-MS Infusion

Luer Lock Gastight® Removable Needle Syringes with Teflon® Tips



Cat. No.	Description	Qty
4021184	Model 1725, 250µL, 22s Gauge, Needle not Included	Each
4022184	Model 1750, 500µL, 22 Gauge, Needle not Included	Each
4023184	Model 1001, 1mL, 22 Gauge, Needle not Included	Each
4814204	Model 1002, 2.5mL, 22 Gauge Needle not included	Each
8431098	Kel-F® Hub SS Replacement Needles, 22g, No. 3 Point Style	6
4491094	Kel-F® Hub PEEK™ Replacement Needles, 16 Gauge, No. 3 Point Style	Each

Syringes w/ Removable SS & PEEK™ Needles No. 3 Point Style



Cat. No.	Description	Qty
4560184	Model 1710, 100µL, 22s Gauge	Each
4464084	Replacement Needles for 2.5-100µL Syringe, 22s Gauge	6
4561184	Model 1725, 250µL, 22s Gauge	Each
4562184	Model 1750, 500µL, 22s Gauge	Each
4563184	Model 1001, 1mL, 22 Gauge	Each
4367084	Replacement Needles for 250µL-10mL Syringe, 22 Gauge	6
48650014	PEEK™ Replacement Needles, for 250µL-10mL, 16 Gauge	6

1700 Series Small Volume Syringes

Gastight Removable Needle (RN) Point Style No. 2



Cat. No.	Description	Qty
4802304	Model 1702, 25µL, 22s Gauge	Each
4809304	Model 1705, 50µL, 22s Gauge	Each
4810304	Model 1710, 100µL, 22s Gauge	Each
4804284	Replacement Needles for 2.5µL-100µL Syringes, 22s Gauge	6
4811304	Model 1725, 250µL, 22s Gauge	Each
4807284	Replacement Needles for 250µL-10mL Syringes, 22s Gauge	6
4812304	Model 1750, 500µL, 22 Gauge	Each
4807254	Replacement Needles for 250µL-10mL Syringes, 22 Gauge	6

8V2672



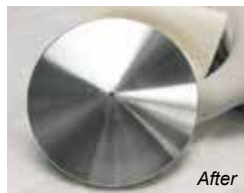
Ultra High Pressure Valco Valves for Thermo & CTC Autosamplers

- Rated to 15,000psi
- Stainless steel

Cat. No.	Description	Qty
8V2672	C72 Vertical 6 Port Injector	Each
8V2172	C72 Vertical 10 Port Injector	Each

Rated to 20,000psi:

8V0620	C72 Vertical 6 Port Injector	Each
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Mass Spec Polishing Kit

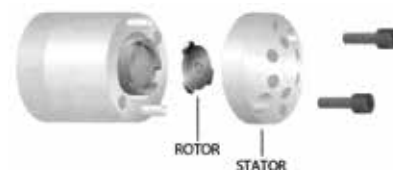
Clean the curtain plate and orifice of your Mass Spec source.

Kit Contains:

3 cleaning sheets, 3 cleaning pads, 1 Flannel Polishing Cloth

Cat. No.	Description	Qty
67001	Mass Spec Polishing Kit	Each

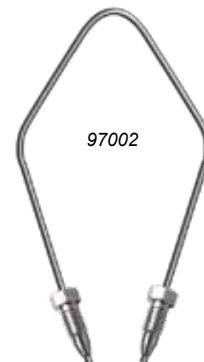
Replacement Parts for 6 Port Injector



Cat. No.	Description	Qty
97561	Rotor Seal for C72 (C72 - 16R6)	Each
97565	Stator for C72	Each

Replacement High Pressure Stainless Steel Sample Loops

Cat. No.	Description	Qty
97002	2µL SS Sample Loop	Each
97005	5µL SS Sample Loop	Each
97010	10µL SS Sample Loop	Each
97020	20µL SS Sample Loop	Each
97022	Custom 20µL SS Sample Loop, 0.01" ID, for Leap Autosampler	Each
97025	25µL SS Sample Loop	Each
97030	30µL SS Sample Loop	Each
97050	50µL SS Sample Loop	Each
97100	100µL SS Sample Loop	Each
97250	250µL SS Sample Loop	Each
97500	500µL SS Sample Loop	Each



UHPLC Fingertight Sample Loops

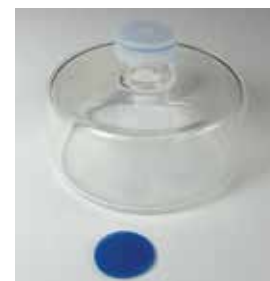
Perfect fit for Vici/Valco Ultra High Pressure C72 Valves



Cat. No.	Description	Qty
9997010	UHPLC Fingertight Valco 10µL SS Sample Loop	Each
9997250	UHPLC Fingertight Valco 250µL SS Sample Loop	Each
9997500	UHPLC Fingertight Valco 500µL SS Sample Loop	Each
9997011	UHPLC Fingertight Valco 1mL SS Sample Loop	Each
9997014	UHPLC Fingertight Valco 2mL SS Sample Loop	Each
9997015	UHPLC Fingertight Valco 5mL SS Sample Loop	Each
9997012	UHPLC Fingertight Valco 10mL SS Sample Loop	Each

Ink Well Septa

Cat. No.	Description	Qty
20944	Ink Well Septa	100



ADVDC6WK



VALCO Valves & Accessories for CTC LC PAL Autosamplers

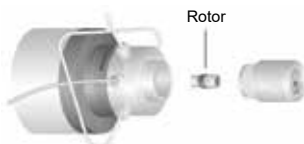
Models C6W & C10W HPLC Valves

Cat. No.	Description	Qty
ADVDC6WK	DC6WK 6 Port Replacement Valve	Each
ADVC6W	C6W 6 Port Manual Injector Valve	Each
ADVEPC6W	EPC6W 6 Port Injector w/ Microelectric Actuator	Each
ADVEPC10W	EPC10W 10 Port Injector w/ Microelectric Actuator	Each
ADVDC10W	10 Port Replacement Valve	Each
ADVDC10WK-1	"Keyed" 10 Port Replacement 10-Port Valve	Each
ADVEPCA-CE	Model EPCA-CE Actuator Control	Each

VALCO Replacement Parts

Cat. No.	Description	Qty
21006	Replacement Rotor Seal for C2-1006D, Valcon H	Each
21007	Replacement Rotor Seal for C2-1006D, Valcon E	Each
87561	Replacement Rotor Seal for C6W	Each
87562	Replacement Rotor Seal for C10W	Each
87550	Special Rotor Seal for C6W, Low Carryover	Each
87440	Special Rotor Seal for C10W, Low Carryover	Each
87220	Replacement Rotor Seal for C2V- 2006D Valves	Each

Valco Replacement Rotor Seals



Cat. No.	Description	Qty
87561	Replacement Rotor Seal for C6W	Each
87562	Replacement Rotor Seal for C10W	Each
87550	Special Rotor Seal for C6W, Low Carryover	Each
87440	Special Rotor Seal for C10W, Low Carryover	Each
87220	Rotor Seal for C2V-2006D Valves	Each

Replacement Parts for CTC LC PAL Autosamplers

	Cat No.	Qty
	86001	Each
Short Fill Port for 22g Needles, Use w/ 1/16" Fittings		

	Cat No.	Qty
	85001	Each
Long Fill Port for 22g Needles, Use w/ 1/16" Fittings		

	Cat No.	Qty
	85656	Each
Replacement Polymer Ferrules		

	Cat No.	Qty
	86002	5
CTC PAL Needle Guide, Plastic Sleeve, for Valco		
Easy Fit - Feels Like Butter		
	86002RE	5
CTC PAL Needle Guide, Tight Fit		

Assembled in-house

	Cat No.	Qty
	86661	Each
Replacement Liner for Short Port		

	Cat No.	Qty
	85551	Each
Replacement Liner for Long Port		

	Cat No.	Qty
	86007	Each
Short Wide Port for Valco		



CTC LC PAL Autosampler Syringes

Syringes fit the following HPLC autosampler models:

LC PAL, HTC PAL, HTS PAL, HTX PAL, HTC-xt, HTS-xt, HTX-xt

Cat. No.	Description	Qty
42031944	Hamilton 10µL Gastight Syringe, Fixed Needle	Each
42032744	Hamilton Slimline 25µL Gastight Syringe, Fixed Needle	Each
4203077-014	Hamilton Slimline 100µL Gastight Syringe, Fixed Needle	Each
42030794	Hamilton 250µL Gastight Syringe, Fixed Needle	Each
42032464	Replacement Plunger Assembly - DISCONTINUED	10

Modified Syringe for Basic Compounds

- Less carryover
- Longer lifetime

Cat. No.	Description	Qty
4203077-014S	Fixed Needle 100µL Low Carry Syringe	Each

X-Type Syringes for CTC PAL® LC Autosamplers

- **Deactivated Needle and Barrel**
 - Eliminates contact between samples and metal components
 - Prevents sample adsorption on inner surface of the barrel
 - Extremely smooth surface for low friction and increased plunger lifetime
- **Inert PTFE-Polymer Plunger Tip**
 - High mechanical stability for increased syringe lifetime
 - Highly inert plunger tip material compatible with organics and high and low pH solutions



Fixed Needle (FN) Syringe (point style 3)

Cat. No.	Volume	Model	Gauge	CTC Part No.	Qty
42044754	25 µL	1702	22s	SYRX G25-22S-3	Each
42044004	100 µL	1710	22	SYRX G100-22-3	Each
42044524	100 µL	1710	22s	SYRX G100-22S-3	Each

Best for reduced carryover



99SL10CW



99SL20CW

Fingertight Sample Loops

- Fingertight, no tools needed
- Rated to 20,000 psi
- Stainless Steel
- Easy to install



Perfect fit for all W-Type Valco Valves

Cat. No.	Description	Qty
99SL10CW	Fingertight Valco 10µL SS Sample Loop	Each
99SL15CW	Fingertight Valco 15µL SS Sample Loop	Each
99SL20CW	Fingertight Valco 20µL SS Sample Loop	Each
99SL25CW	Fingertight Valco 25µL SS Sample Loop	Each
99SL50CW	Fingertight Valco 50µL SS Sample Loop	Each
99SL100CW	Fingertight Valco 100µL SS Sample Loop	Each
99SL200CW	Fingertight Valco 200µL SS Sample Loop	Each
99SL250CW	Fingertight Valco 250µL SS Sample Loop	Each
99SL500CW	Fingertight Valco 500µL SS Sample Loop	Each
99SL1KCW	Fingertight Valco 1mL SS Sample Loop	Each

Replacement Graphite Ferrules



Cat. No.	Description	Qty
68566-1	One-Piece Ferrule System	Each

Valco SS Sample Loops

with End Fittings for W-Type Valves

SL5CW



SL50CWPK



Cat. No.	Description	Qty
SL5CW	5µL Sample Loop	Each
SL10CW	10µL Sample Loop	Each
SL15CW	15µL Sample Loop	Each
SL20CW	20µL Sample Loop	Each
SL25CW	25µL Sample Loop	Each
SL50CW	50µL Sample Loop	Each
SL100CW	100µL Sample Loop	Each
SL200CW	200µL Sample Loop	Each
SL250CW	250µL Sample Loop	Each
SL500CW	500µL Sample Loop	Each
SL1KCW	1mL Sample Loop	Each
SL2KCW	2mL Sample Loop	Each
SL5KCW	5mL Sample Loop	Each
SL10KCW	10mL Sample Loop	Each

Valco PEEK™ Sample Loops

with End Fittings for W-Type Valves

Cat. No.	Description	Qty
SL2CWPK	2µL Sample Loop	Each
SL5CWPK	5µL Sample Loop	Each
SL10CWPK	10µL Sample Loop	Each
SL20CWPK	20µL Sample Loop	Each
SL50CWPK	50µL Sample Loop	Each
SL100CWPK	100 µL Sample Loop	Each
SL500CWPK	500 µL Sample Loop	Each
SL1KCWPK	1mL Sample Loop	Each



VXL Low Pressure
Up to 125 psi/9 bar

VXV Analytical Pressure
Up to 6000 psi/400 bar

VXH UHPLC Ultra High Pressure
Up to 15000 psi/1000 bar

Automated fluidic valves provide productivity enhancing solutions for today's demanding analytical methods. Combine VX Series modular valves with your current instrument to support complex fluid switching and sample injection needs.



Flexible Automation

Remote communication made incredibly simple with USB and RS-232 inputs standard!

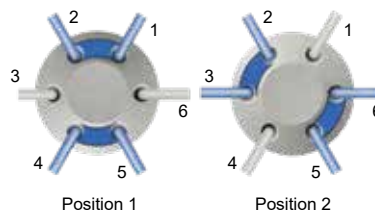


Reduce Downtime

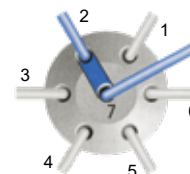
Featuring the Rapid Replacement Pod™ design for easy maintenance. The Rapid Replacement Pod™ is a complete, factory assembled and tested liquid-end, providing virtually zero downtime maintenance. Traditional RheBuild® Kits are also available.

The Low Pressure VX modular valves make changing fluidic connections quick and easy with a patented fitting free tubing connection system. These long life polymer valves meet the reliability needs of demanding applications.

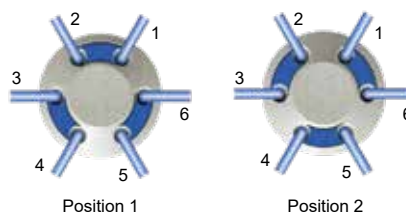
VX Series Module Specifications:	
Maximum Pressure	VXH: 15,000 psi (1,034 bar) VXV: 6,000 psi (414 bar) VXL: 125 psi (9 bar)
Flow Passages	Nano: 0.10 mm (0.004") diameter Analytical: 0.25 mm (0.010") diameter Preparative: 1.5 mm (0.060") diameter
Power Requirements	100-120 VAC, 50-60 Hz
Regulatory Compliance	CE Mark
Remote Control	USB, PC, BCD, Level Logic
Operating Temperature	0° – 40°C, non-condensing
Storage Temperature	0° – 75°C
Dimensions	117 mm x 76 mm x 128 mm (4.6" x 3.0" x 5.0")



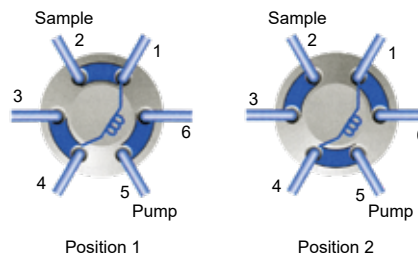
Flow path of VX Series Double Three-way Switching Valve



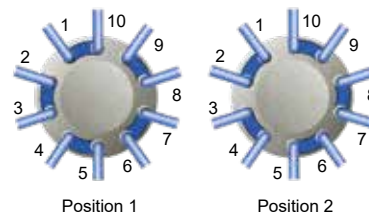
Flow path of VX Series Double Three-way Switching Valve



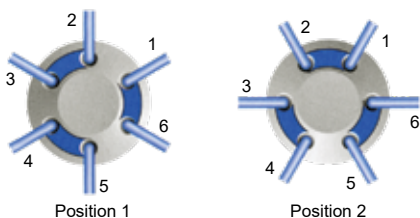
Flow path of VXH Two-Position, Six-Port Switching Valve



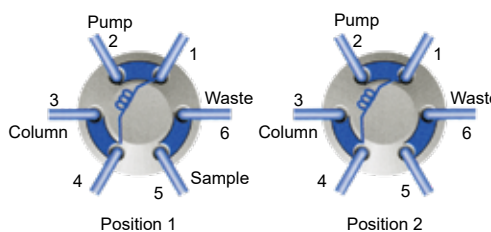
Flow path of VXH Two-Position, Six-Port as an Injection Valve



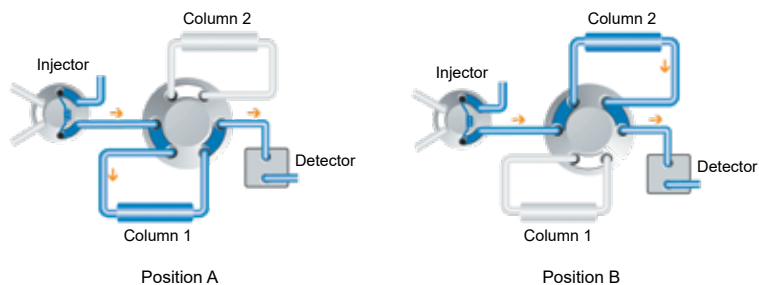
Flow path of VX Series Two-Position, Ten-Port Switching Valve



Flow path of VXV and VXL Two-Position, Six-Port Switching Valve



Flow path of VXV and VXL Two-Position, Six-Port as an Injection Valve



- **Two column selection**
- **Rated to 15,000psi**
- **Rapid Replacement Pods**

Valves for Fast Chromatography

Catalog No.	Description	Qty
VXH593-888	SS 2 Position, 6 Port Switching Valve	Each
VXH593-983	SS 6 Position, 7 Port Selector	Each

Replacement Pods



Catalog No.	Description	Qty
PD8888	Replacement Pod for VXH593-888	Each
PD5939	Replacement Pod for VXH593-983	Each

RheBuild® Kits

Includes 2 Rotor Seals, 2 Wrenches and Instructions



Catalog No.	Description	Qty
3888	RheBuild™ Kit for VXH593-888	Each
3983	RheBuild™ Kit for VXH593-983	Each

Stainless Steel Stators



Catalog No.	Description	Qty
775938	SS Replacement Stator for VXH593-888	Each
775939	SS Replacement Stator for VXH593-888	Each

Stainless Steel Sample Loops



Catalog No.	Description	Qty
894005	5µL Stainless Steel Sample Loop	Each
894010	10µL Stainless Steel Sample Loop	Each
894020	20µL Stainless Steel Sample Loop	Each
894050	50µL Stainless Steel Sample Loop	Each
894100	100µL Stainless Steel Sample Loop	Each

Replacement Stainless Steel Fittings

Catalog No.	Description	Qty
1286X	SS Nuts & Ferrules	10

- **Online sample prep**
- **Column backflushing**
- **Two column selection**
- **Rated to 6,000psi**

High Pressure Valves

Catalog No.	Description	Qty
VXV5788-000	SS 2 Position, 6 Port Switching Valve	Each
VXV5738-000	SS 2 Position, 10 Port Switching Valve	Each
VXV5758-000	SS 6 Position, 7 Port Switching Valve	Each
VXV5768-000	SS 2 Position, 6 Port Nano Switching Valve	Each
VXV5764-000	SS 2 Position, 10 Port Nano Switching Valve	Each
VXV7788-000	PEEK™ 2 Position, 6 Port Switching Valve	Each
VXV7738-000	PEEK™ 2 Position, 10 Port Switching Valve	Each



Replacement Pods

Catalog No.	Description	Qty
PD5788	Replacement Pod for VXV5788-000	Each
PD5738	Replacement Pod for VXV5738-000	Each
PD5758	Replacement Pod for VXV5758-000	Each
PD5768	Replacement Pod for VXV5768-000	Each
PD5764	Replacement Pod for VXV5764-000	Each
PD7788	Replacement Pod for VXV7788-000	Each
PD7738	Replacement Pod for VXV7738-000	Each

Stainless Steel Stators

Catalog No.	Description	Qty
75788	Stator for VXV5788-000	Each
75738	Stator for VXV5738-000	Each
75758	Stator for VXV5758-000	Each
75768	Stator for VXV5768-000	Each
75764	Stator for VXV5764-000	Each
77788	Stator for VXV7788-000	Each
77738	Stator for VXV7738-000	Each

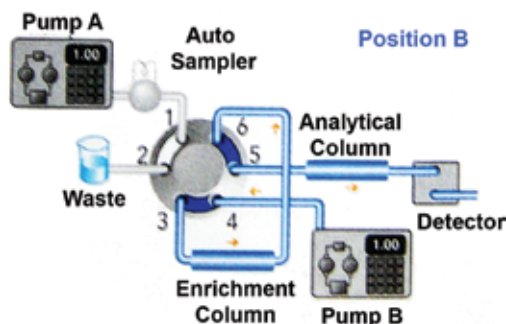
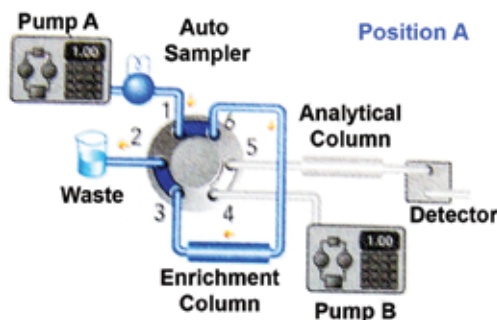
Replacement Fittings

Catalog No.	Description	Qty
46000-2094	SS Nut & Ferrule for 1/16" OD Tubing	10
46000-2824	Black PEEK™ One Piece Fingertight Fitting for 1/16" OD Tubing	10
46000-3604	One Piece PEEK™ Fitting, M4	10

RheBuild® Kits

Includes Rotor Seal, Stator Face Assembly, Wrench and Instructions

Cat No.	Description	Qty
5788	RheBuild® Kit for VXV5788-000, Includes Vespel Rotor Seal	Each
5738	RheBuild® Kit for VXV5738-000, Vespel Rotor Seal	Each
5758	RheBuild® Kit for VXV5758-000, Vespel Rotor Seal	Each
5768	RheBuild® Kit for VXV5768-000, Vespel Rotor Seal for Nano Valve	Each
5764	RheBuild® Kit for VXV5764-000, Vespel Rotor Seal	Each
7788	RheBuild® Kit for VXV7788-000, PEEK Rotor Seal	Each
7738	RheBuild® Kit for VXV7738-000, PEEK Rotor Seal	Each



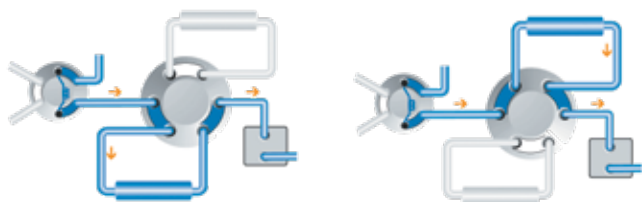


- **Rated to 125psi**
- **Pre-pump solvent selection**
- **Post column fraction collection**
- **Fittingless tubing connection**
- **Requires only special ferrules to attach tubing connections**

Low Pressure Valves

Catalog No.	Description	Qty
VXL554-260	2 Position, 6 Port Switching Valve	Each
VXL554-223	2 Position, Double 3 Way Valve	Each
VXL554-670	6 Position, 7 Port Selection Valve	Each
VXL555-494	6 Position, 7 Port Large Bore Selection Valve	Each
VXL554-269	2 Position, 6 Port Large Bore Valve	Each
VXL556-483	10 Position, 11 Port Selection Valve	Each

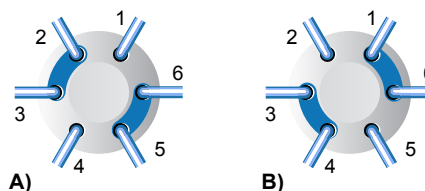
VXL554-260 2 Position, 6 Port Switching Valve



VXL554-223 2 Position, Double 3 Way Valve

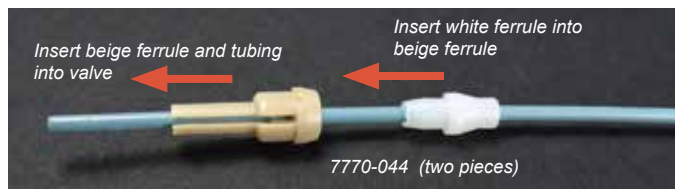
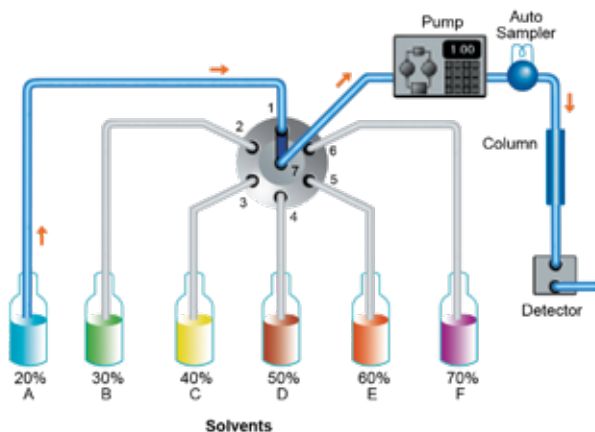
- Low Pressure Solvent Lines labels:**
- 3 = Draw to Pump A
 - 6 = Draw to Pump B
 - 2 = Feed from Mobile Phase A1
 - 4 = Feed from Mobile Phase A2
 - 5 = Feed from Mobile Phase B1
 - 1 = Feed from Mobile Phase B2

Switch Positions



Position A uses Mobile Phase bottles A1 & B1
Position B uses Mobile Phase bottles A2 & B2

VXL554-670 6 Position, 7 Port Selection Valve VXL555-494 6 Position, 7 Port Large Bore Selection Valve



Special Replacement Ferrules

Catalog No.	Description	Qty
77825	Ferrules for 1/8" OD Tubing	25
77850	Ferrules for 1/8" OD Tubing	50
7770-044	Ferrules for 1/16" OD Tubing	25

Advantage™ Column Selectors

- Method development
- Validation studies
- Column selectivity
- Chiral recognition
- 2-D chromatography
- Multiuser labs



PowerSELECTOR™

Temperature Controlled Column Selector

- Fast response controller
- Temperature range of 10°C below ambient to 45°C – RS 232 control
- Repeatability precision of ±0.5°C
- Accuracy of ±1°C
- High flow capability
- Remote control of valve position
- Valve control by contact closure

Catalog No.	Description	Qty
PowerSelector-6S	6 Column SS Selector w/ Heating & Cooling	Each
PowerSelector-6P	6 Column PEEK™ Selector w/ Heating & Cooling	Each



Low Profile

- Valve control by contact closure

Catalog No.	Description	Qty
44554-1044	Advantage™ PF PEEK™ 6 Column Selector	Each
44501-1004	Advantage™ PF Stainless Steel 3 Column Selector	Each



RheBuild® Kits

Includes Stator Face Seal, Rotor Seal, 9/64 Hex Wrench and Instructions

Catalog No.	Description	Qty
45104-9994	6 Column Selector RheBuild® Kit	Each
45110-9994	3 Column Selector RheBuild® Kit	Each

Column Selector Fluidics Kit

Kit Includes **Two** 5-packs of Lite Touch PEEK™ Fittings with Ferrules and SS Rings 1/16" OD Tubing

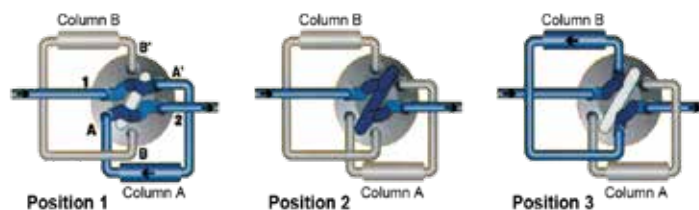


Catalog No.	Description	Qty
ADV-CSKIT	Column Selector Fluidics Kit	Each



Two Channel Selector with Bypass

- *Stainless steel*
- *3 position, 6 port*
- *Rated to 5000psi*
- *Standalone, electronically controlled*
- *Applications include automatic selection between two columns or flow injection to the Mass Spec*

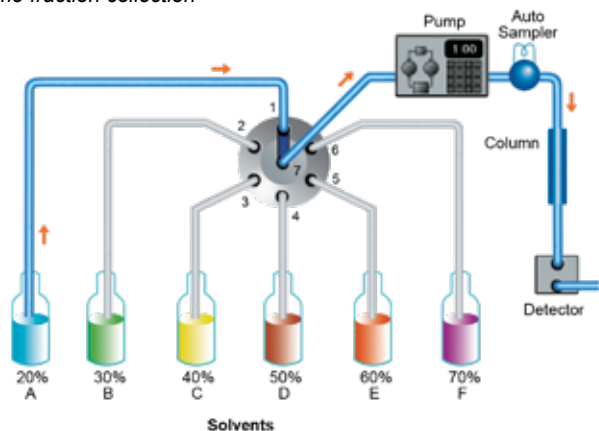


Valves

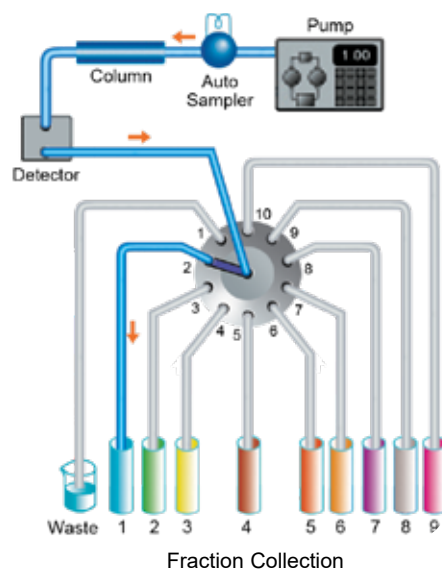
Catalog No.	Description	Qty
44500-1014	Stainless Steel 2 Channel Selector w/ Bypass	Each

Solvent Selector

- *Manual or remote control*
- *6-Position, 7-port*
- *Rated to 300psi*
- *Applications include automatic selection of various mobile phase compositions for methods development, column cleaning or large volume fraction collection*



*Advantage™ PF Solvent Selector adds step-gradient capability to an isocratic pump



Valves

Catalog No.	Description	Qty
VXL555-494	Solvent Selector 1/8"	Each

PRODUCT NOTE:

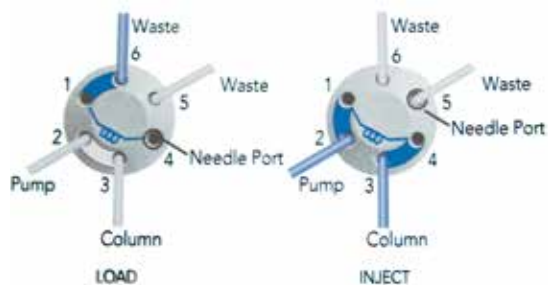
Manual valves, accessories and Rhebuild Kits can be found on our web site: www.analytical-sales.com.



RheBuild® Kits

Includes Stator, Cap Assembly, Rotor Seal, 9/64 Hex Wrench, 3/32 Hex Wrench and Instructions

Catalog No.	Description	Qty
41006-9994	Solvent Selector 1/8" RheBuild® Kit	Each



Models 7725 & 7725i SS Injectors

- Available in stainless steel or PEEK™ models
- Inject from 1µL to 5mL
- Sample loop can be partially or completely filled
- "i" Version has a built-in position sending switch which provides the chromatograph with a reproducible start signal
- Maximum temperature 80°C
- SS injector can be adjusted to 600 bar
- 20µL sample loop is attached

Cat. No.	Description	Qty
477254	Stainless Steel 2 Position, 6 Port Injector	Each
47725i4	Stainless Steel 2 Position, 6 Port Injector with Switch	Each
47725i-1884	Stainless Steel 2 Position, 6 Port Injector with Switch, 600 bar	Each

Stainless Steel Sample Loops

For 7725 and 7725i SS Injectors




Cat. No.	Description	Qty
47755-0154	CER SFA with Internal PEEK 2µL Loop, for 7725 & 7725i (477254 & 47725i4) SS Manual Injectors	Each
47755-0204	5µL Sample Loop	Each
47755-0214	10µL Sample Loop	Each
47755-0224	20µL Sample Loop	Each
47755-0234	50µL Sample Loop	Each
47755-0244	100µL Sample Loop	Each
47755-0254	200µL Sample Loop	Each
47755-0264	500µL Sample Loop	Each
47755-0274	1mL Sample Loop	Each
47755-0284	2mL Sample Loop	Each
47755-0294	5mL Sample Loop	Each


Rheodyne® RheFlex® Stainless Steel Two Piece Fittings

for Cone-Bottom Ports

	Cat No.	Qty
	46000-1094	5
	10-32, 1/16" Stainless Steel Fittings Set	

	Cat No.	Qty
	46000-1114	5
	10-32, 1/16" Stainless Steel Long Fittings Set	

	Cat No.	Qty
	46000-1624	5
	10-32, 1/16" SS X-Long Fittings Set	

	Cat No.	Qty
	46000-1104	5
	10-32, 1/16" SS Replacement Ferrules	

Syringes for Rheodyne® Valves

- Point style No. 3
- 22s gauge
- Removable Needle



Cat. No.	Description	Qty
4879424	2.5µL Syringe	Each
4879434	5µL Syringe	Each
4803654	10µL Syringe	Each
4804654	25µL Syringe	Each
4805654	50µL Syringe	Each
4806654	100µL Syringe	Each
4464084	Replacement Needles for 2.5µL-100µL Syringes	6
4807654	250µL Syringe	Each
4808654	500µL Syringe	Each
4563184	1mL Syringe	Each
4367084	Replacement Needles for 250µL-1mL Syringes	6
47125-0544	Needle Port Cleaner	Each

Advantage Plus™ Degassing Systems

- Max flow 5mL/min
- Internal volume 480µL
- Advanced degassing technology
- Smart sensors detect leaks and communicates with the vacuum pump
- Vacuum pump continuously adjusts speed to maintain optimum degassing levels
- LED indicates degassing status
- One year warranty

Baseline noise and unstable flow rates are typically caused by dissolved air in the mobile phase. Our line of Advantage Plus™ Series Degassers are Teflon® AF degassing membranes, which are fifty times more efficient than our competitors' PTFE membranes. This translates into channel volumes which are ten times smaller and equilibration is four times faster. Our continuous run vacuum pumps consistently deliver steady baselines, unlike other degassers, which have fluctuating baselines due to the on/off cycle of their vacuum pumps.

Degassers

Cat. No.	Description	Qty
480202	Two Channel, Includes 4 Nuts, 4 Ferrules and 10' ETFE Tubing	Each
480203	Three Channel, Includes 6 Nuts, 6 Ferrules and 10' ETFE Tubing	Each
480205	Four Channel, Includes 8 Nuts, 8 Ferrules and 10' ETFE Tubing	Each
480206	Five Channel, Includes 10 Nuts, 10 Ferrules and 10' ETFE Tubing	Each

Accessories

Cat. No.	Description	Qty
41530-L4	Tefzel® Tubing, 0.062 ID x 1/8" OD x 50'	Each
59359X	Super Flangeless Ferrule with Custom SS Locking Ring	10
59387	1/4-28 Brown PPS Headless Nut	Each



Dynamic Mixer

- Chamber volume variable between 260µL and 1700µL
- Volume of lower half, less stirrer, is 260µL
- Volume of dynamic section is 800µL (unfilled)
- Volume of static section is 500µL (filled with glass wool)
- Can be used for micro as well as analytical and semi-preparative

The Dynamic Mixing Chamber is used during gradient elution to homogenize different solvents with extremely small volume. Up to three pumps can be attached using the four-way capillary connector, allowing for the use of high or low-pressure gradients.

The Dynamic Mixing Chamber comprises a dynamic section in which a Teflon®-coated stirrer causes a fast and intensive premixing, and a static section filled with fiberglass which homogenizes the solvent mixture independent of the stirring procedure, thus creating a stable baseline.

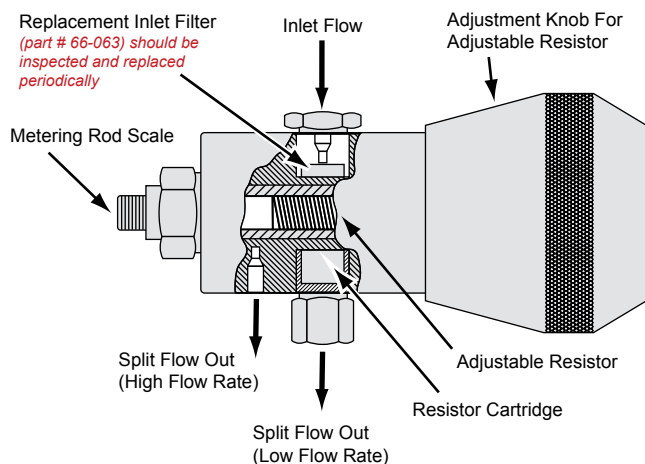
Cat. No.	Description	Qty
ADV-DM	Variable Volume Dynamic Mixing Chamber	Each

Model 62

Adjustable Metering for Direct Control

For Pre and Post Column Applications

- Bracket mounted
- Adjustable metering
- Precise direct control
- Fluid resistor technology
- Split ratios from 1:1 to 20,000:1
- Low dead volume
- Rugged steel design
- 5,000 PSI valve limit



Adjustable Pre-Column Flow Splitters

Analytical Range - 0.1-1mL/min Incoming Flow

These splitters will produce under 3500 PSI back pressure with water at 0.5mL/min

Pre-Column splitting is used for micro, capillary and nano HPLC applications. The split ratio created by the splitter valve will remain constant. However, when an HPLC column is installed, there will be added resistance on the flow rate channel. This added resistance must be considered to ensure the fluid resistor selected for the flow splitter provides the correct split ratio.

Please provide the column flow rate and back pressure specifications. If these specifications are not provided, the pre-column flow splitter will be configured assuming a 0.5mL/min inlet flow rate and a pressure drop across the column of 1500psi.

Adjustable Post-Column Flow Splitters

Analytical Range - 0.1-5mL/min Incoming Flow

Cat. No.	Description	Qty
62-414	Adjustable Splitter, Stainless Steel with -06 Resistor Cartridge, Ratio 1:1-20:1	Each
62-413	Adjustable Splitter, Stainless Steel with -04 Resistor Cartridge, Ratio 5:1-100:1	Each
62-412	Adjustable Splitter, Stainless Steel with -03 Resistor Cartridge, Ratio 15:1-250:1	Each
62-411	Adjustable Splitter, Stainless Steel with -01 Resistor Cartridge Ratio 50:1-1000:1	Each

Replacement Components - Model 61 & 62
Replacement Resistor Cartridges for Adjustable Post-Column Flow Splitter

Cat. No.	Description	Qty
61-115	Replacement Analytical -06 Resistor Cartridge, Ratio 1:1-20:1	Each
61-114	Replacement Analytical -04 Resistor Cartridge, Ratio 4:1-100:1	Each
61-113	Replacement Analytical -03 Resistor Cartridge, Ratio 15:1 - 250:1	Each

Replacement Inlet Filters for Adjustable Post-Column Flow Splitter

Cat. No.	Description	Qty
66-063	Replacement Analytical Inlet Filter, 2µm x 0.063 diameter	5

Cat. No.	Description	Qty
60-104	Adjustable Pre-Column Splitter, Split Ratio Range 5:1-100:1	Each

Adjustable Semi-Prep Flow Splitters

Analytical Range - 5.0 - 40mL/min Incoming Flow

Cat. No.	Description	Qty
62-315	Adjustable Splitter, Stainless Steel, Ratio 1:1-20:1	Each
62-313	Adjustable Splitter, Stainless Steel, Ratio 15:1-300:1	Each
62-312	Adjustable Splitter, Stainless Steel, Ratio 100:1-2000:1	Each
62-311	Adjustable Splitter, Stainless Steel, Ratio 1000:1-2000:1	Each

Adjustable Preparative Flow Splitters

Preparative Adjustable Flow Splitter, Post-Column Flow Range: 75-200mL/min. Ratio = Custom Prep Range 40mL/min - 1000mL/min Input Flow

Cat. No.	Description	Qty
62-316	Adjustable Preparative Splitter, Stainless Steel	Each

Fixed Binary & Multiport Flow Splitters For Post Column Applications

- Fixed metering for precise control
- Fluid resistor technology
- Split ratios from 1:1 to 20,000:1
- Low dead volume
- Rugged stainless steel design



Advantage™ Fixed Flow Splitters are shipped with resistors installed that deliver the nominal stated split ratio. The split ratios have a tolerance range of ±10%. The exact split ratio is measured and is stated on the certificate shipped with the splitter. The input flow rate can be adjusted to compensate for the tolerance in split ratios. For instance, a 10% increase in input flow rate will result in a 10% increase in flow at both the capillary and waste stream channels. Flow rate and viscosity changes will change the back pressure generated by the splitter, but will not affect the actual split ratio.

These Fixed Flow Splitters are ideal for:

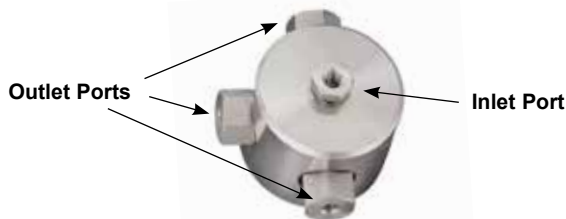
$$\text{Split Ratio} = \frac{\text{Inlet Flow} - \text{Low Flow}}{\text{Low Flow}}$$

- LC/MS
- Flow fractionation
- Column flow splitting
- Capillary chromatography

Model 63 Binary Fixed Splitter, with its interchangeable fluid resistors, eliminates the need to cut capillary tubing to change the split ratio. Split ratios can be changed by replacing the resistor set.



Model 53 Multiport Fixed Splitter is ideal for applications that use multiple detectors and/or a fraction collector.



Model 53 Multiport Fixed Flow Splitter Manifold

- Analytical Range - 0.1-5mL/min Incoming Flow
- Multiport Splitters come mounted on a mounting Bracket

Cat. No.	Description	Qty
53-112	3-Port Splitter Manifold, Custom Ratio	Each
53-114	4-Port Splitter Manifold, Custom Ratio	Each

Model 63 Post-Column Binary Fixed Flow Splitters

Analytical Range - 0.1-5mL/min Incoming Flow

Cat. No.	Description	Qty
63-423	Binary Fixed Splitter, Ratio 1:1	Each
63-422	Binary Fixed Splitter, Ratio 3:1	Each
63-424	Binary Fixed Splitter, Ratio 4:1	Each
63-421	Binary Fixed Splitter, Ratio 5:1	Each
63-420	Binary Fixed Splitter, Ratio 10:1	Each
63-419	Binary Fixed Splitter, Ratio 20:1	Each
63-418	Binary Fixed Splitter, Ratio 50:1	Each
63-417	Binary Fixed Splitter, Ratio 100:1	Each
63-416	Binary Fixed Splitter, Ratio 200:1	Each
63-415	Binary Fixed Splitter, Ratio 500:1	Each
63-414	Binary Fixed Splitter, Ratio 1000:1	Each
63-413	Binary Fixed Splitter, Ratio 2000:1	Each
63-425	Binary Fixed Splitter, Custom Ratio	Each

Accessories

Cat. No.	Description	Qty
63-111	Mounting Bracket for Fixed Splitter	Each

Replacement Inlet Filters

for Binary Fixed Flow Splitter Model 63

Replacing the inlet filter prevents clogging of the splitter

Cat. No.	Description	Qty
77-125	Replacement Binary Analytical Inlet Filter, 2µm x 0.063 Diameter, 5/Pkg	Each

Replacement Resistors for Post Columns

Binary Fixed Splitters, Model 63

Cat. No.	Description	Qty
63-443	Replacement Binary Resistor, Ratio 1:1	Each
63-442	Replacement Binary Resistor, Ratio 3:1	Each
63-441	Replacement Binary Resistor, Ratio 5:1	Each
63-440	Replacement Binary Resistor, Ratio 10:1	Each
63-439	Replacement Binary Resistor, Ratio 20:1	Each
63-438	Replacement Binary Resistor, Ratio 50:1	Each
63-437	Replacement Binary Resistor, Ratio 100:1	Each
63-436	Replacement Binary Resistor, Ratio 200:1	Each

Model 63 SEMI-PREP Binary Fixed Flow Splitters

- Analytical Range - 5.0 - 40mL/min Incoming Flow
- Prep Range - 5.0-40mL/min Incoming Flow

Cat. No.	Description	Qty
63-405	Binary Fixed Splitter, Ratio 500:1	Each
63-410	Binary Fixed Splitter, Ratio 1000:1	Each
63-402	Binary Fixed Splitter, Ratio 2000:1	Each

Replacement Resistors for Semi-Prep Columns

Binary Fixed Splitters, Model 63

Cat. No.	Description	Qty
63-435	Replacement Binary Resistor, Ratio 500:1	Each
63-434	Replacement Binary Resistor, Ratio 1000:1	Each
63-433	Replacement Binary Resistor, Ratio 2000:1	Each

Selecting the Right Size Mixer Cartridge

Analytical Sales offers static mixers with volumes that range from .05µL to 1.5mL. Choosing the right size is a trade off between delay volume, mixing noise, and step gradient definition and repeatability.

- For any given flow rate, the more the mixing volume the better the mixing, and the lower the baseline noise.
- The smaller the mixing volume, the better the definition and sharpness of step gradients.
- Multi-pump gradient systems typically require far less mixing volume than low pressure single pump gradient systems.
- A 150µL inline static mixer can be added after a dynamic mixer to further reduce mixing noise.

Multi-pump High Pressure Gradient

Linear Gradients

Larger mixing volume can be tolerated for a particular flow rate, whereas the larger the volume, the lower the mixing noise. The upper limits to mixing volume will be the maximum delay time that can be tolerated, and possible distortion (tailing) of the gradient at the beginning and end of the gradient. The lower limit will be defined by the amount of mixing noise that can be tolerated. (See chart for specific recommendations)

Binary or Ternary- Steady State Composition

Always select the largest volume that will still provide an acceptable delay volume. In general, the more mixing volume, the better the mixing will be. For most pump systems, a 150µL cartridge will provide adequate mixing.

Examples of this type of pump system include:

- Shimadzu® 10 AD and 10 ADVP
- Beckman System Gold®
- Gilson® Model 305
- Hewlett Packard® Model 1100

Cartridge Selection Guide	
Flow Rate (µL/min)	Mixer Cartridge Volume (µL)
0-5	5
5-10	10
10-20	25
20-150	50
15-500	150
500+	250

Single-pump Low Pressure Mixing Gradient Systems

Linear Gradients

These systems generally require more mixing volume to perform linear gradients than multi-pump high pressure systems. This is because in a low pressure system, the composition can only be changed once every pump stroke. Since the pump stroke volume of most pumps is 100µL, and it takes a mixer volume that is about 3 times the batch volume to provide adequate mixing, we need a minimum of 350µL of mixer volume to do adequate mixing. More insoluble combinations may require even more mixing volume.

In general, choose the largest size mixer cartridge that will still provide an acceptable delay volume. For most applications this will be at least 350µL.

Binary or Ternary - Steady State Composition

Always select the largest volume that will still provide an acceptable delay time. In general, the more mixing volume, the better the mixing will be. For most applications this will be at least 350µL.



Stainless Steel Inline Check Valves, 15,000 psi Maximum Operating Pressure

Cat. No.	Description	Qty
452800	Check Valve with 1/8" Ball Cartridge	Each
452818	Replacement 1/8" Ball Cartridge	Each

Pulse Dampers

Rupture-proof, no diaphragm
Low internal volume



Cat. No.	Description	Qty
73515	Linear Pulse Damper, 1.5" Wide x 3.75" Long	Each

High Capacity Pulse Damper

Features a bimodal damping mechanism
Increased damping efficiency over wider pressure range
Suited for damping at low pressures, < 500psi



Cat. No.	Description	Qty
73421	High Capacity Pulse Damper	Each

Pulse Damper, Minipulse

Cat. No.	Description	Qty
91-4012	Pulse Damper, Minipulse, Stainless Steel (no transducer)	Each

SS Micro Flow Static Mixers



Inline Static Mixers - Complete Assemblies

Cat. No.	Description	Qty
1300200-31	0.5µL Inline Assembly	Each
1300200-41	1µL Inline Assembly	Each
1300200-21	2µL Inline Assembly	Each
1300200-51	5µL Inline Assembly	Each
1300201-01	10µL Inline Assembly	Each
1300202-51	25µL Inline Assembly	Each



Binary Static Mixers - Complete Assemblies

Cat. No.	Description	Qty
1300240-31	0.5µL Binary Tee Assembly	Each
1300240-41	1µL Binary Tee Assembly	Each
1300240-02	2µL Binary Tee Assembly	Each
1300240-05	5µL Binary Tee Assembly	Each
1300240-10	10µL Binary Tee Assembly	Each
1300240-25	25µL Binary Tee Assembly	Each



Ternary Static Mixers - Complete Assemblies

Cat. No.	Description	Qty
1300340-31	0.5µL Ternary Tee Assembly	Each
1300340-41	1µL Ternary Tee Assembly	Each
1300340-02	2µL Ternary Tee Assembly	Each
1300340-05	5µL Ternary Tee Assembly	Each
1300340-10	10µL Ternary Tee Assembly	Each
1300340-25	25µL Ternary Tee Assembly	Each



Cartridges & Housings

Cat. No.	Description	Qty
1300000-31	0.5µL Mixer Cartridge	Each
1300000-41	1µL Mixer Cartridge	Each
1300000-21	2µL Mixer Cartridge	Each
1300000-51	5µL Mixer Cartridge	Each
1300000-01	10µL Mixer Cartridge	Each
1300002-51	25µL Mixer Cartridge	Each
1300200-00	Inline Micro-Mixer Housing	Each
1300240-00	Binary Micro-Mixer Housing	Each
1300340-00	Ternary Micro-Mixer Housing	Each

PRODUCT NOTE:

Use low volume (smaller than 50µL) static bed mixers for all your ballistic gradient applications. Smallest internal volume maintains gradient precision and accuracy.



SS High Flow Static Mixers

Inline Static Mixers - Complete Assemblies

Cat. No.	Description	Qty
1300800-00	800µL SS Inline Assembly	Each
1300111-00	1.0mL SS Inline Assembly	Each
1300150-00	1.5mL SS Inline Assembly	Each

Binary Static Mixers - Complete Assemblies

1320800-00	800µL SS Binary Assembly	Each
1320111-00	1.0mL SS Binary Assembly	Each
1320150-00	1.5mL SS Binary Assembly	Each

Ternary Static Mixers - Complete Assemblies

1330800-00	800µL SS Ternary Assembly	Each
1330111-00	1.0mL SS Ternary Assembly	Each
1330150-00	1.5mL SS Ternary Assembly	Each

Cartridges + Housings

Cat. No.	Description	Qty
1400800-00	800µL SS Mixer Cartridge	Each
1400100-00	1.0mL SS Mixer Cartridge	Each
1400150-00	1.5mL SS Mixer Cartridge	Each
130043-10	Inline High Flow Housing	Each
130043-20	Binary High Flow Housing	Each
130043-30	Ternary High Flow Housing	Each



Biocompatible PEEK™ and UHPLC Static Bed Mixers are also available. Call for details.

SS Analytical Flow Static Mixers

Inline Static Mixers

Cat. No.	Description	Qty
1300350-01	350µL Inline Assembly	Each
1300500-01	500µL Inline Assembly	Each

Binary Static Mixers

Cat. No.	Description	Qty
1300235-01	350µL Binary Tee Assembly	Each
1300150-01	500µL Binary Tee Assembly	Each

Ternary Static Mixers

Cat. No.	Description	Qty
1300435-51	350µL Ternary Tee Assembly	Each
1300450-51	500µL Ternary Tee Assembly	Each

Cartridges / Housings

Cat. No.	Description	Qty
1300035-01	350µL Mixer Cartridge	Each
1300050-01	500µL Mixer Cartridge	Each
1300042-10	Inline Hi-Flow Series Housing	Each
1300042-20	Binary Hi-Flow Series Housing	Each
1300042-30	Ternary Hi-Flow Series Housing	Each



SS Low Volume Static Mixers

Inline Static Mixers

Cat. No.	Description	Qty
1300205-01	50µL Inline Assembly	Each
1300215-01	150µL Inline Assembly	Each
1300225-01	250µL Inline Assembly	Each

Binary Static Mixers

Cat. No.	Description	Qty
1300105-01	50µL Binary Tee Assembly	Each
1300115-01	150µL Binary Tee Assembly	Each
1300125-01	250µL Binary Tee Assembly	Each

Ternary Static Mixers

Cat. No.	Description	Qty
1300305-01	50µL Ternary Tee Assembly	Each
1300315-51	150µL Ternary Tee Assembly	Each
1300325-51	250µL Ternary Tee Assembly	Each

Cartridges & Housings

Cat. No.	Description	Qty
1300005-01	50µL Mixer Cartridge	Each
1300015-01	150µL Mixer Cartridge	Each
1300025-01	250µL Mixer Cartridge	Each
1300000-00	In-Line Low Volume Housing	Each
1300100-00	Binary Low Volume Housing	Each
1300300-00	Ternary Low Volume Housing	Each

For Waters/Berger/Multigram II, III/Varian Prep Systems

																								
<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>9500-23</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	9500-23	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>9250-98</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	9250-98	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>21306</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	21306	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>21336</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	21336	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>375062</td> <td>10</td> </tr> </tbody> </table>	Cat No.	Qty	375062	10
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<p>Hewlett Packard 1090 Self-Priming CO₂ Pump Check Valve. Berger #16000504, Thar #16000166, Waters #700008402. For SD-1, MG 2 & MG 3. Used as upper check valve.</p>	<p>Inlet/Outlet Check Valve for SD-1 Prep Pump, 200 mL/min. Thar #16000630, Waters #700008440</p>	<p>SS Stator for C2 Prep Valve for MGII & MGIII</p>	<p>C2 Injection PEEK Rotor Seal, Large Prep Injector, Berger #16000648</p>	<p>Replacement Inline Sample Filter Frit, Berger #16000654</p>																				
																								
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<p>Knauer Selectable Wavelength Detector (SWD) D2 Lamp in Holder, Berger #16000689</p>	<p>SD-1 Prep CO₂ Pump Seals, UHMW Yellow Wash Seals (Flanged), Waters #700008459</p>	<p>SD-1 UHMW Non-flanged Wash Seals, Waters #700008551</p>	<p>C2 SS Prep Valve, 2 Position 6 Port, with Microelectric Actuator</p>																					

Varian® Prep Replacement Pump Parts

SFC Parts


														
<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>9280-52</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	9280-52	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>9280-57</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	9280-57	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>9250-99</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	9250-99	Each
Cat No.	Qty													
9280-52	Each													
Cat No.	Qty													
9280-57	Each													
Cat No.	Qty													
9250-99	Each													
<p>Inlet Check Valve Assembly, for Varian PrepStar SD-1, 500mL and 800mL/min</p>	<p>Outlet Check Valve Assembly, for Varian PrepStar SD-1, 500mL and 800mL/min</p>	<p>Direct Replacement. Inlet/Outlet Check Valve Cartridge for Prep Star SD-1, 500mL & 800mL/min.</p>												

For Waters® Prep System Inline Check Valve

									
<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>452800</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	452800	Each	<table border="1"> <thead> <tr> <th>Cat No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>452818</td> <td>Each</td> </tr> </tbody> </table>	Cat No.	Qty	452818	Each
Cat No.	Qty								
452800	Each								
Cat No.	Qty								
452818	Each								
<p>Inline Check Valve with 1/8" Ball Cartridge. (Uses Replacement Ball Cartridge Part # 452818)</p>	<p>Replacement 1/8" Ball Cartridge for Waters In-Line Check Valve Only (part# 452800); OEM# 7000 7363</p>								

Mobile Phase Pre-Heater Assembly

for Waters® Acquity UPLC System

				
<table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>ADV6050</td> <td>Each</td> </tr> </tbody> </table>	Cat. No.	Qty	ADV6050	Each
Cat. No.	Qty			
ADV6050	Each			
<p>Mobile Phase Pre-Heater Assembly for Waters® Acquity UPLC System, 0.005" ID</p>				

Agilent, Dionex, Hitachi, Shimadzu and Waters pump parts are available, please see our web site: www.analytical-sales.biz

D2 = Deuterium Lamp Xe = Xenon Lamp Hg = Mercury

Agilent® (HP) Lamps

Cat. No.	Description	Models	Qty
128-10	D2 Lamp in Holder	1040: 1040A, 1040M 1050: 79853A, 79853C, 79854A, G1306A 1090: 79880A, 79881A, Series I, Series II	Each
128-13	D2 Lamp in Holder	1100/1200 Series: G1315A, B, C; G1365A, B, C	Each
128-132	D2 Lamp in Holder (Long life lamp, 2000hrs)	1090: 8453A, 8453E 1100/1200 Series: G1315A, B, C; G1365A, B, C	Each
128-14	D2 Lamp in Holder	1100: G1314A, B, C, HP3D/CE	Each
12-850	Tungsten (W) Lamp	1090: 8453A, E 1100/1200 Series: G1315A, B, C; G1365A, B	Each
128-11	D2 Lamp in Holder	1090: 8451A	Each
128-12	D2 Lamp in Holder	1090: 8452A	Each
128-15	D2 Lamp in Holder	1090: 8453A, E	Each
128-16	D2 Lamp in Holder	1090: 8450A	Each
12-295	D2 Lamp Only	1050: 79853A	Each

Alltech/Grace & BAS Lamps

Cat. No.	Description	Models	Qty
128-40	D2 Lamp in Holder:	200, 201, 205	Each

Applied Biosystems™, Perkin-Elmer™ & Kratos™

Lamps & Holders

Cylindrical cartridge style lamp holders are pre-aligned and pre-focused. Order the appropriate holder. Our holder is positioned by one locator pin and secured by a stainless steel strap (Cat No. 128-1). The ABI holder is positioned by two locator pins (long, short) and secured by a coiled spring clip (Cat. No. 128-4)

Cat. No.	Description	Models	Qty
128-1	D2 Lamp in Holder	FS970, FS980, SF757, F773, SF783, SF783A, SF785A, SF769, SF770	Each
128-4	D2 Lamp in Holder	FS970, FS980, SF757, F773, SF783, SF783A, 785, SF785A, SF759A	Each

Complete Lamp Assemblies

Some older detectors (Schoeffel, Waters® 450, etc) may still use the original one piece lamp assembly. Initially, this lamp assembly requires replacement of both the lamp, holder and mount assembly (1281-x below). Subsequent replacements require only the lamp in holder (No. 128-x as listed above).

Cat. No.	Description	Models	Qty
1281-1	D2 Lamp, Holder and Mount Assembly	SF770, FS970	Each
1281-3	D2 Lamp, Holder and Mount Assembly	SP8480XR	Each

Bausch & Lomb, Milton Roy & Spectronic

Cat. No.	Description	Models	Qty
12-225	D2 Lamp	DE/50, Spectronic 21 DUV, 200, 601, 700, 701, 710, Spectronic 1001, 1201, 2000	Each
128-105	D2 Lamp	Gensys 2, 5	Each

Beckman, Altex

Cat. No.	Description	Models	Qty
12-205	D2 Lamp	163	Each
12-250	D2 Lamp	20, 24, 25, 26, 34, 35, 36 5200, ACTA DU-6, 7, 8, 20, 30, 37, 40, 50	Each
12-860	Tungsten (W) Lamp	20, 24, 25, 26, 34, 35, 36 DB, DBG, DK-2A, DU2	Each
1281-70	D2 Complete Assembly	166	Each
128-70	D2 Lamp in Holder	166	Each
12-865	Tungsten (W) Lamp	5200, ACTA	Each
12-840	Tungsten (W) Lamp	5240, DU-6, 7, 8, 20, 30, 40, 50	Each
12-305	D2 Lamp	DB, DBG, DBGT, DK, DU	Each
12-835	Tungsten (W) Lamp	DU-60,62,63,64, 65, 68, 70, 600, 640, 650, 800, 7000, 7400, 7500	Each
128-71	D2 Lamp in Holder	DU-60, 62, 63, 64, 65, 68	Each
128-110	D2 Lamp in Holder	DU-500, 520, 530	Each
12-730	Tungsten (W) Lamp	DU-500, 520, 530	Each
128-72	D2 Lamp in Holder	DU-600, 640, 650, 800, 7000, 7400, 7500	Each
128-77	D2 Lamp in Holder	P/ACE 2000, 2050, 2100, 2200, 2210	Each
128-76	D2 Lamp in Holder	P/ACE 5000/477170, 5010/477171, 5500/477172, 5510/477173, MDQ, P/ACE 800	Each

Buchi

Cat. No.	Description	Models	Qty
128-22	D2 Lamp	28062, 28063, 28067, 28068	Each

Bio-Rad

Cat. No.	Description	Models	Qty
12-290	D2 Lamp	1305, 1306	Each
12-295	D2 Lamp	1706, 1806A	Each
128-40	D2 Lamp in Holder	1790, 1801 Bio-Dimension	Each
128-41	D2 Lamp in Holder	Bio-Focus, Micro Sampler 100	Each
128-25	D2 Lamp in Holder	750-1300, 760-1300	Each

Camag

Cat. No.	Description	Models	Qty
12-205	D2 Lamp in Holder	TLC II Scanner	Each

Cole-Parmer

Cat. No.	Description	Models	Qty
128-40	D2 Lamp in Holder	01953-00	Each



See photos of Detector Lamps on page 154

Dionex / Gynkotek

Cat. No.	Description	Models	Qty
128-5	Lamp in Holder	AD-20, PDA-20	Each
128-40	D2 Lamp in Holder	DSA-1	Each
128-91	D2 Lamp in Holder	UVD160, 170S, 170U, 320, 340S, 340U	Each

DuPont

Cat. No.	Description	Models	Qty
12-280	D2 Lamp	8800	Each

EM Science: See Hitachi

Fisher

Cat. No.	Description	Models	Qty
128-40	D2 Lamp in Holder	20-0344	Each

Gilford

Cat. No.	Description	Models	Qty
12-205	D2 Lamp	200, 220, 222, 230, 240, 250, 252, 260, 2000, 2400, 2600	Each

Gilson

Cat. No.	Description	Models	Qty
128-150	D2 Lamp in Holder	115, 116, 117	Each

Hitachi

Cat. No.	Description	Models	Qty
12-280	D2 Lamps	100-10, 20, 30, 40, 60, 80	Each
12-430	D2 Lamp	101, 102	Each
12-210	D2 Lamp	124	Each
12-800	Xe Lamp	F-1000, 1050, 1080, 1200, 2000, 2500, 3000, 3010, 4000, 4010, 4500, F7000, L-2480, L-2485, L-7480, 7485, 7490	Each
12-815	Tungsten (W) Lamp	L-4200, L-4250, L-7420 U-1100, U-1900 U-2000, 2001, 2010, 2900, 2910 U-3000, 3010, 3110, 3300, 3310	Each
128-56	D2 Lamp in Holder	GENE SPEC I, III L-2400, 2420, 2450, 2455 L-4000, 4500, 7000, 7400, 7420, 7450A L-7300, 7455, U-0080D, 1900, 2900, 2910, 3500	Each

Isco

Cat. No.	Description	Models	Qty
12-205	D2 Lamp	3850, V4/1840 Combi Flash System SQ16X	Each
128-40	D2 Lamp in Holder	205	Each
128-61	D2 Lamp in Holder	For ISCO Combi Flash Companion, TS 4X, XL	Each

Jasco

Cat. No.	Description	Models	Qty
12-295	D2 Lamp	870, 875, UV-970A, 975A	Each
12-800	Xe Lamp	FP-750, 777, 820, 821, 920, 1520, 1570, 1575, 2020, 3120, 6200, 6300, 6500, 6600	Each

Knauer

Cat. No.	Description	Models	Qty
128-25	D2 Lamp in Holder	2000, 2001, 2500, 2501WC, 2600, 2650, 2700WC, 2500SL, 2600SL	Each
128-20	D2 Lamp in Holder	8700, 9700, D871	Each

Kratos: See ABI/Perkin Elmer/Schoeffel

LDC: See Thermo Separation Products (TSP)

Linear: See Bio-Rad/Cole-Parmer/Dionex/Fisher/Rainin/TSP

LKB/Amersham

Cat. No.	Description	Models	Qty
12-210	D2 Lamp	4050, 4051, 4053, 4054	Each

McPherson

Cat. No.	Description	Models	Qty
128-100	D2 Lamp in Holder	FL-750/A, 750/B	Each
128-101	Xe Lamp in Holder	FL-750/A, 750/B	Each
128-102	Xe-Hg Lamp in Holder	FL-750/A, 750/B	Each

Perkin-Elmer/ABI

HPLC UV Detectors

Cat. No.	Description	Models	Qty
12-210	D2 Lamp	Integral 4000, LC-55, 55B, 65, 75, 85B, 95, 135, 235	Each
128-92	D2 Lamp	LC-480	Each
128-98	D2 Lamp in Holder	LC-2000/UV-VIS/785A	Each

Fluorometers

Cat. No.	Description	Models	Qty
12-800	Xe Lamp	Series 200, 203, 204, 512, 650 Series, MPF-2A, 3, 4, 43, 43A, 44, 44A, 44B	Each

Spectrophotometers

Cat. No.	Description	Models	Qty
128-51	D2 Lamp in Holder	220, 320, 330, 340, 556, 557, EZ150, 201, 210	Each
12-240	D2 Lamp	550, 551, 552, 555	Each
128-92	D2 Lamp in Holder	Lambda 2, 5, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, Lambda 20, 25, 35, 40, 45, 650, 750, 800, 850, 900, 950, 1050, BIO	Each
128-845	Tungsten (W) Lamp	Lambda 1, 2, 3B, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 25, 35, 40, 45, 650, 800, 850, 900, 950, 1050, BIO	Each
12-300	D2 Lamp	Lambda 1, 3, 3B	Each

Atomic Absorption Spectrophotometers

Cat. No.	Description	Models	Qty
12-310	D2 Lamp	272, 280, 360, 370, 372, 373, 380, 460, 560, 2280, 2380, 3030B, 4000, ANALYSIS, 5000, 5100	Each

D2 = Deuterium Lamp Xe = Xenon Lamp Hg = Mercury

PerSeptive Biosystems

Cat. No.	Description	Qty
128-40	D2 Lamp in Holder Biocad 20, 60, 250, 700E, Sprint, Vision, Integral 700E, 250	Each

Rainin / Varian

Cat. No.	Description	Models	Qty
128-20	D2 Lamp in Holder	87/8700, 8700	Each
128-910	Xe Lamp in Holder	9070, 9075, FL-1, 2, PRO STAR 360	Each
128-40	D2 Lamp in Holder	PRO STAR 340, 345, UV-C, DII, M	Each

Schoeffel: Refer to ABI / Perkin-Elmer / Kratos

Scientific Systems Inc.

Cat. No.	Description	Models	Qty
128-40	D2 Lamp in Holder	200, 201, 500, 504, 506, V520, 525	Each

Shimadzu®

HPLC UV Detectors

Cat. No.	Description	Models	Qty
128-84	D2 Lamp in Holder	LC2010AHT, LC2010CHT	Each
12-305	D2 Lamp	SP-4, SPD-2A, 2AV, 6A, 6AV, 7A	Each
128-82	D2 Lamp in Holder	SPD-10A, 10AV, 10AVP, 10AVVP, SPD20A, 20AV	Each
128-88	D2 Lamp in Holder	SPD-M10AVP	Each
12-245	Tungsten (W) Lamp	SPD-M10AV, SPD-M10AVP, SPD-M20AV	Each
128-87	D2 Lamp in Holder	SPD-M20AV	Each

Fluorometers

Cat. No.	Description	Models	Qty
12-800	Xe Lamp	RF-10A, 10AXL, 535, 540, 551, 1501, 5000, 5301	Each

UV Visible Spectrophotometers

Cat. No.	Description	Models	Qty
12-265	D2 Lamp	BIOSPEC 1601, CS-920, 930, Multispec 1501, UV-120, 120-01, 120-02, 140-02, 150, 150-02, 160A, 160U, 163, 240, 250, 260, 265, 1200, 1201, 1201PC, 1203, 1240, 1501, 1600, 1601, 1601PC, 1603, 1650, 1700, 1800, 2100, 2101, 2401PC, 2450, 2501PC, 2550, 3100, 3100PC, 3101PC, 3600, 3700	Each
12-110	Tungsten (W) Lamp	BIOSPEC 1601, UV120, UV160, UV-12055, 65, 75, UV160U, 240, 260, 265, 1501, 1600, 1601, 1601PC, 1603, 1650, 1700, 1800, 2500, 2550, UV-2501PC, 3100, 3100PC, 3101PC, 3600	Each

Atomic Absorption Spectrophotometers

Cat. No.	Description	Models	Qty
12-265	D2 Lamp	AA-625, 630, 640, 660, 670, 680U, AA6200	Each

Thermo Scientific

LDC

Cat. No.	Description	Model	Qty
128-40	D2 Lamp in Holder	SC100-234, UV100-411, UV150-511	Each
128-47	D2 Lamp in Holder	SM5000	Each

Linear

Cat. No.	Description	Model	Qty
128-40	D2 Lamp in Holder	200, 203, 204, 205, 206PHD	Each

Spectra-Physics

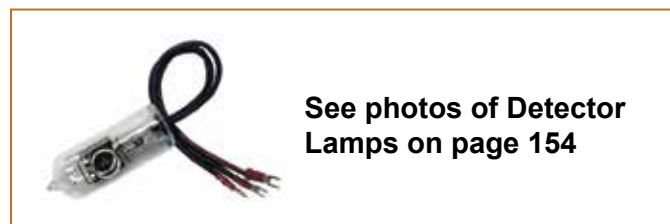
Cat. No.	Description	Model	Qty
128-40	D2 Lamp in Holder	CE500, 1000, 2000, SC100, 200, SF100, 200, UV100, 150, 1000, 2000, 3000, 3000HR	Each
12-215	D2 Lamp	SP8400, 8440, 8440XR, 8450, 8490	Each

Varian / Cary / Rainin

Cat. No.	Description	Model	Qty
12-290	D2 Lamp	2050	Each
12-295	D2 Lamp	2550	Each
12-305	D2 Lamp	LC-5000, 5500, UV50, 100, 200, PRO STAR 310, STAR 9050, VISTA 5500	Each
128-325	D2 Lamp in Holder	ProStar 325,335	Each
12-230	D2 Lamp	1, 3, 5, 14, 15, 16, 17, 100, 210, 219, AA200, 220, 275, 300, 400, 500, 600, 640, AA775, 800, 875, 975, 1275, 1475, 2300, 3000, Spectra A10, 20, 30, 40, A640, A880	Each
128-20	D2 Lamp in Holder	87/8700, 8700	Each
128-40	D2 Lamp in Holder	PRO STAR 340, 345, UV-C, DII, M	Each
128-910	P/Xe Lamp in Holder	9070, 9075, FL-1, PRO STAR 360	Each
12-930	Tungsten (W) Lamp	1, 3, 14, 15, 16, 17, 100, 210, 219, 220, 300, 400, 500	Each

Waters®

Cat. No.	Description	Models	Qty
12-205	D2 Lamp	480, 481	Each
12-820	Hg Lamp	440, 441	Each
12-800	Xe Lamp	470, 474	Each
128-30	D2 Lamp in Holder	484	Each
128-31	D2 Lamp in Holder	486	Each
128-34	D2 Lamp in Holder	990, 991, 994	Each
1281-34	D2 Complete Assembly	990, 991, 994	Each
128-1	D2 Lamp in Holder	450	Each
1281-1	D2 Complete Assembly	450	Each
128-33	D2 Lamp in Holder	996, 2996	Each
128-362	D2 Lamp in Holder	2487, 2488, 2000 Hour Long-Life	Each
128-925	Xe Lamp in Holder	2475 (must return spent lamp)	Each



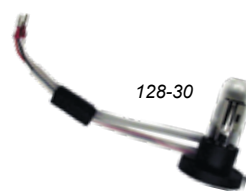
See photos of Detector Lamps on page 154



12-205



12-300



128-30



128-150



12-210



12-310



128-31



128-80



12-225



12-800



128-132



128-92



12-250



12-820



128-33



12-265



12-835



128-34



128-102



12-280



12-865



12-290



128-1



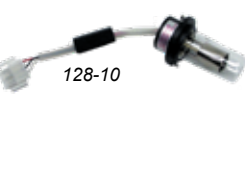
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1281-1 & 1281-3



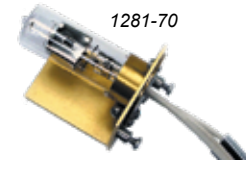
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W

Table listing various electronic components such as ADV8029, ADV8030, and their prices.

Table B listing components like B78-100, B78-200, and their prices.

C

Table C listing components like CA2932, CA4501, and their prices.

Table listing components like CW45218, CW45313, and their prices.

Table D listing components like DSBPVC, DSBWPS, and their prices.

Table E listing components like ESB64, ESBMICRO, and their prices.

Table F listing components like FFB81, FFB81B, and their prices.

Table listing components like FSRPI, FSTRYL, and their prices.

Table H listing components like HSI-10L, HSI-15L, and their prices.

Table L listing components like LABMATP, LABMATY, and their prices.

Table M listing components like MonoSLEEVE, MTB100, and their prices.

Table P listing components like PBWL, PBWM, and their prices.

Table listing components like PowerSelector-6P, PowerSelector-6S, and their prices.

Table S listing components like SD1000, SDY-102, and their prices.

Table listing components like Sprite A10-1822, Sprite A10-1832, and their prices.

Table T listing components like TT1001, TT1002, and their prices.

Table U listing components like UTR12, UVGoggles, and their prices.

Table V listing components like VSCREW24, VSCREW48, and their prices.

Table W listing components like WR1050, WRENCH-10, and their prices.

Appendix

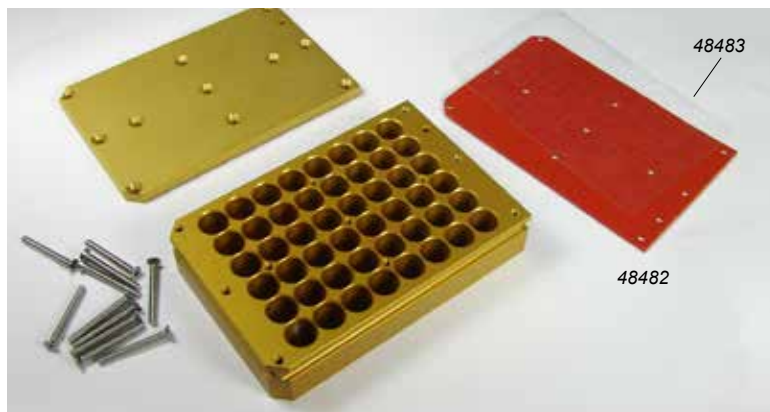
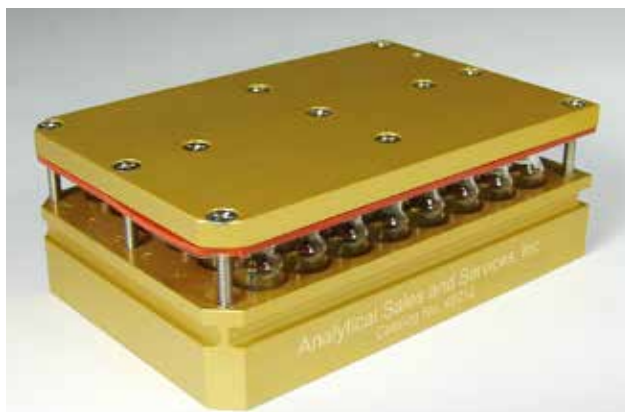
The products listed in this section were developed after the printing of this catalog.

- Aluminum Reaction Blocks (4 new)..... 173-176
- Numbered Vials/Vial Tray 176
- Nano Nest 177
- Lumidox UV 178
- Multi-Inlet Waste Manifold 179
- Teflon Reservoirs..... 180



- Useful for generating compound arrays (medicinal chemistry)
- Useful for conducting screening reaction conditions
- SBS plate format allows for use in multiple automation applications
- Can be used on tumble stirrers / hot plate stirrers / robotic platforms
- Can easily be used in a glovebox
- Sealed with/ PFA Film and Rubber Mats

Parallel Reactor Block (2mL) 48 x 2 mL Aluminum Multi-well Reaction Plate



Use with 12 x 32mm vials, sold separately. See part number 11211-Case.

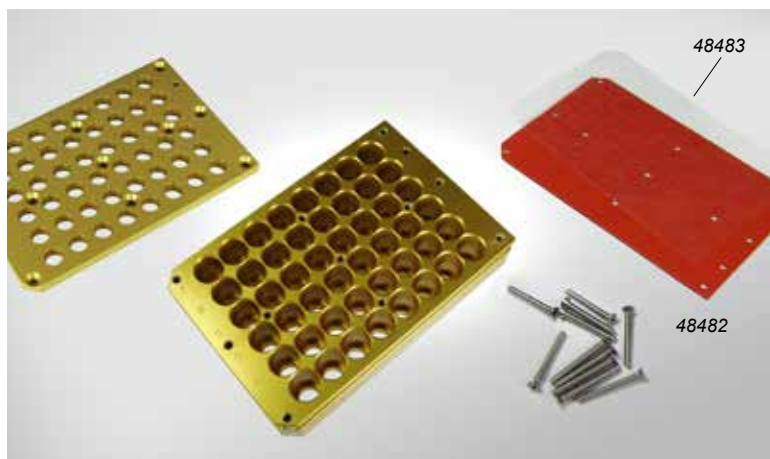
Our quality controlled vials are uniform height to ensure proper sealing

Cat. No.	Description	Qty
48012	48-Well Aluminum Reaction Block for 12mm (2mL) OD Vials. Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each
48482	Rubber Mats for 48 Well (12mm OD) Reaction Blocks	25
48483	PFA films for 48 Well (12mm OD) Reaction Blocks	25
11211-Case	Advantage 11mm, 12 x 32, 2mL Volume, Clear Glass Wide Mouth Crimp/Snap Vials	1000
99948	Clear Silicone/PTFE Cap Mat for HPC Vials in 48 Position Reaction Block	5

Cat. No.	Description	Qty
23048	EquaVAP 48-Well Blowdown Evaporator for 48-Well Reaction Blocks with 2mL vials	Each



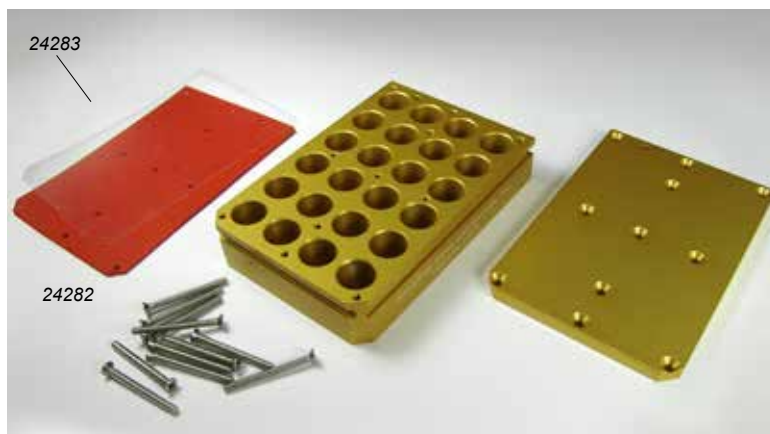
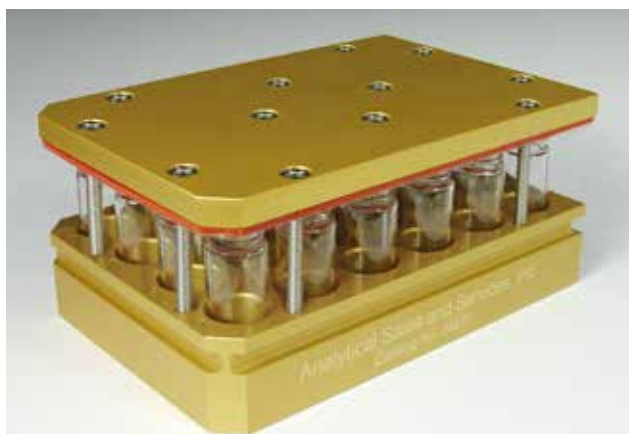
Parallel Reactor Block (2mL) - Open Top/Open Bottom (for Sampling) 48 x 2 mL Aluminum Multi-well Reaction Plate



Clear Cap Mat sold separately. See part number 99948

Cat. No.	Description	Qty
48612	48-Well Open Top/Open Bottom Aluminum Reaction Block for 12mm (2mL) OD Vials. Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each
48482	Rubber Mats for 48 Well (12mm OD) Reaction Blocks	25
48483	PFA films for 48 Well (12mm OD) Reaction Blocks	25
11211-Case	Advantage 11mm, 12 x 32, 2mL Volume, Clear Glass Wide Mouth Crimp/Snap Vials	1000
99948	Clear Silicone/PTFE Cap Mat for HPC Vials in 48 Position Reaction Block	5

Parallel Reactor Block (4mL) for 1 Dram Vials *(fits on Mettlers QX96)* 24 x 4 mL Aluminum Multi-well Reaction Plate



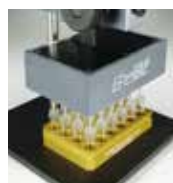
Use with 15 x 45mm vials, sold separately. See part number 31531-Case.



31531

31554

Cat. No.	Description	Qty
24015	24-Well Aluminum Reaction Block for 15mm OD (1 Dram) Vials, Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each
24282	High-Temp Silicone/Rubber Cover for 24-Well Reaction Blocks for Vials	25
24283	PFA Film (0.005" Thick) for 24-Well Reaction Blocks for Vials	25
31531-Case	Advantage 13mm, 15 x 45, 4mL Clear Glass Screw Vials, Case	1000
31554-Case	PTFE Lined Cap	1000



EquaVAP 24-Well Blowdown Evaporator

Cat. No.	Description	Qty
23024-20	EquaVAP 24-Well Blowdown Evaporator for 24-Well Reaction Blocks, 20mm	Each

Parallel Reactor Block (4mL) for 1 Dram Vials - Open Top/Open Bottom (for Sampling) 24 x 4 mL Aluminum Multi-well Reaction Plate



Use with 15 x 45mm vials, sold separately. See part number 31531-Case.

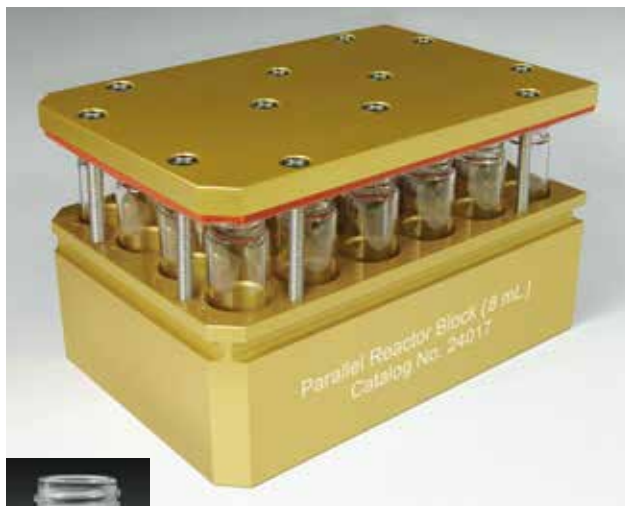


31531

31554

Cat. No.	Description	Qty
24615	24-Well, Open Top/Open Bottom Aluminum Reaction Block for 15mm OD (1 Dram) Vials, Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each
24282	High-Temp Silicone/Rubber Cover for 24-Well Reaction Blocks for Vials	25
24283	PFA Film (0.005" Thick) for 24-Well Reaction Blocks for Vials	25
31531-Case	Advantage 13mm, 15 x 45, 4mL Clear Glass Screw Vials, Case	1000
31554-Case	PTFE Lined Cap	1000

Parallel Reactor Block (8mL) for 2 Dram Vials 24 x 8 mL Aluminum Multi-well Reaction Plate



Use with 17 x 60mm vials, sold separately. See part number 31760-Case.



31542

Cat. No.	Description	Qty
24017	24-Well Aluminum Reaction Block for 17mm OD (2 Dram) Vials, Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each
24282	High-Temp Silicone/Rubber Cover for 24-Well Reaction Blocks for Vials	25
24283	PFA Film (0.005" Thick) for 24-Well Reaction Blocks for Vials	25
31760-CASE	Advantage 17 x 60mm, 8mL Clear Glass Screw Vials, Case	1000
31542-CASE	15mm Solid Black Polypropylene Screw Caps with PTFE/F217 Liners	1000
31543-CASE	Black Open Top PP Cap with PTFE/Silicone (0.065") Setpa, 15-425mm Thread	1000

Parallel Reactor Block (8mL) for 2 Dram Vials - Open Top/Open Bottom (for Sampling) 24 x 8 mL Aluminum Multi-well Reaction Plate



Use with 17 x 60mm vials, sold separately. See part number 31760-Case.



31542

Cat. No.	Description	Qty
24617	24-Well, Open Top/Open Bottom Aluminum Reaction Block for 17mm OD (2 Dram) Vials, Includes: Base Plate, Cover, Screws, PFA Film and 2 Rubber Mats	Each
24282	High-Temp Silicone/Rubber Cover for 24-Well Reaction Blocks for Vials	25
24283	PFA Film (0.005" Thick) for 24-Well Reaction Blocks for Vials	25
31760-CASE	Advantage 17 x 60mm, 8mL Clear Glass Screw Vials, Case	1000
31542-CASE	15mm Solid Black Polypropylene Screw Caps with PTFE/F217 Liners	1000

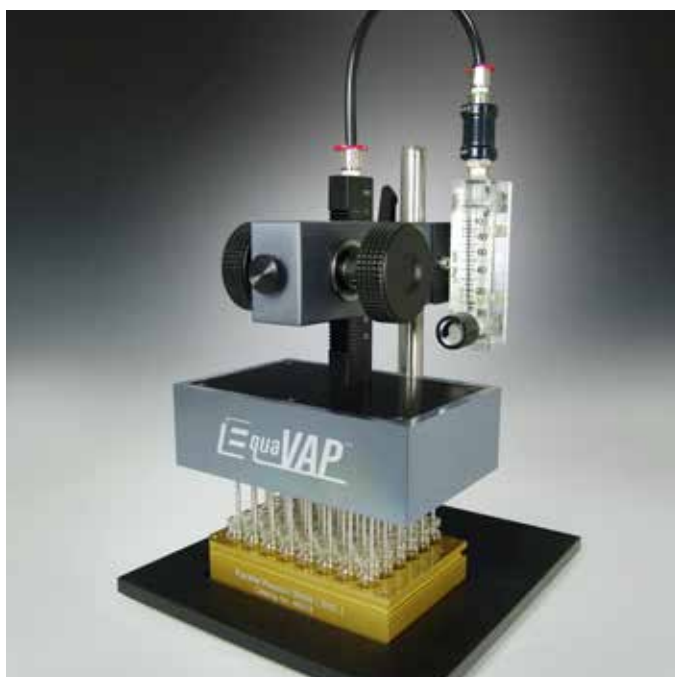


Accessories

Cat. No.	Description	Qty
48221M	Assembled 48-Well Vial Tray with Numbered Vials. Includes: Vials (11221M) Marked 1-48; Stir Bar (13258) in Each Vial; 48-Well Cap Mat (99948); Vial Tray (48501)	Each
VSCREW24	1 3/4" Screws for 24-Well Aluminum Reaction Plate	100
VSCREW48	1 1/4" Screws for 48-Well Aluminum Reaction Plate	100
11211-Case	Advantage 11mm, 12 x 32, 2mL Volume, Clear Glass Wide Mouth Crimp/Snap Vials	1000
31531-Case	Advantage 13mm, 15 x 45, 4mL Clear Glass Screw Vials, Case	1000
31760-Case	Advantage 17mm, 17 x 60mm, 4mL Clear Glass Screw Vials, Case	1000
SD1000	Milwaukee M4 1/4in. Hex Screwdriver Kit, includes 2 Batteries and Charger (<i>Note: not available for international shipping</i>)	Each

EquaVAP™ Blowdown Evaporators

- Rapidly evaporates common organic solvents (0-100LPM)
- **Internal flow equalizers** - distributes equal output across all needle ports to ensure even and symmetrical evaporation.
- **Stainless Steel Needle Tips** - long term robust use, sturdy, wide solvent compatibilities
- **Step-down Height Adjustment** - offers positive repeatable height positions
- **Stand Alone** - simple to operate, connects to Nitrogen supply & standard socket
- **Small Footprint (8" base)** - fits into small glove boxes & standard fume hoods



48-Well EquaVap Evaporator

- Use with 48-well Aluminum Reaction Blocks with 2mL vials

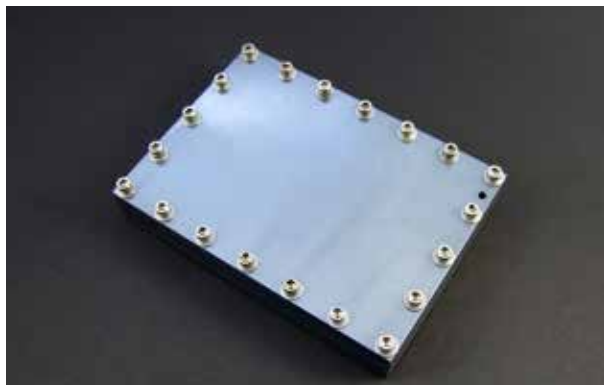
Cat. No.	Description
23048	EquaVAP 48-Well Blowdown Evaporator for 48-Well Reaction Blocks with 2mL vials



24-Well EquaVap Evaporator (20mm)

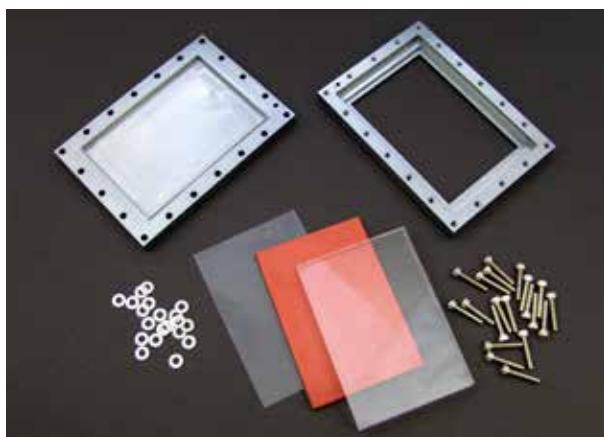
- 20mm center-to-center needle distance
- Use with 24-well Aluminum Reaction Blocks with 1 Dram (4mL) or 2 Dram (8mL) vials

Cat. No.	Description
23024-20	EquaVAP 24-Well Blowdown Evaporator for 24-Well Reaction Blocks, 20mm



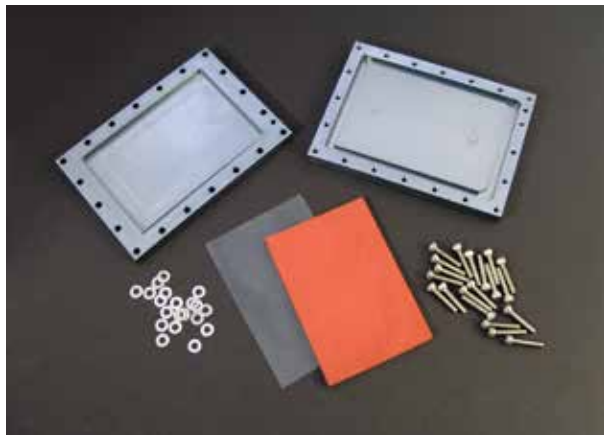
Nano Nest

For Parallel Synthesis or Photoredox Applications Using 384-Well Collection Plates



Photoredox Nano Nest

Cat. No.	Description	Qty
1536050	Photoredox Nano Nest (open block, for LED excitation), includes Titre Cover, LED Nest Base, Clear Acrylic Insert, PFA Film, Rubber Mat, Screws and Washers	Each
1536012	Clear Acrylic Insert for Photoredox Nano Nest (3.125" x 4.55")	Each
1536002	Replacement PFA Film for Nano Nest	Each
1536003	Replacement Silicone Rubber Mat for Nano Nest	Each
118NNSCREW	Replacement 18-8 Stainless Steel Socket Head Screw, 8-32 Thread Size, 1-1/8" Long	100
114NNSCREW	Replacement 18-8 Stainless Steel Socket Head Screw, 8-32 Thread Size, 1-1/4" Long, Fully Threaded	100
1536WASHER	Replacement #8 Washers for Nano Nest Block Assemblies	20

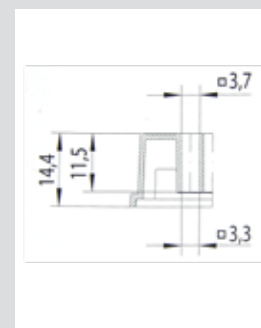
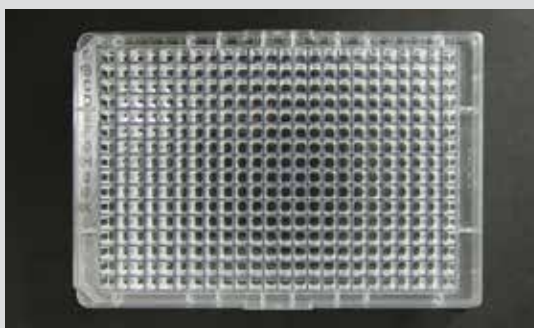


Parallel Synthesis Nano Nest

Cat. No.	Description	Qty
1536100	Parallel Synthesis Nano Nest (closed block), includes Titre Cover, Solid Bottom Nest Base, PFA Film, Rubber Mat, Screws and Washers	Each
1536002	Replacement PFA Film for Nano Nest	Each
1536003	Replacement Silicone Rubber Mat for Nano Nest	Each
118NNSCREW	Replacement 18-8 Stainless Steel Socket Head Screw, 8-32 Thread Size, 1-1/8" Long	100
114NNSCREW	Replacement 18-8 Stainless Steel Socket Head Screw, 8-32 Thread Size, 1-1/4" Long, Fully Threaded	100
1536WASHER	Replacement #8 Washers for Nano Nest Block Assemblies	20

384-Well Collection Plates Square Well

Cat. No.	Description	Qty
384801	384 well Optically clear to 230nm, 131 µL, flat bottom	40





Lumidox UV Controller

LUM96-365
UV LED Array (sold separately)

Lumidox™ UV System

UV LED Photon Generator for Photoredox Applications

Intelligent Autosensing LED controller for 96 well UV LED arrays

- Repeatability of milliamp selection for photon intensity
- Non-magnetic LED base
- Robust Controller Shell
- PTFE coated cabling
- Chemically resistant LED cover
- 20mA LED Maximum Output
- 365nm and 415nm UV LED's
- Includes 1 pair of UV protective goggles
- Use Lumidox UV Controller with UV Arrays Only!



The Lumidox UV System comes with one pair of UV protective goggles. Additional goggles can be purchased.

Catalog No.	Description	Qty
LUMCON-UV	Lumidox UV LED Controller for Ultraviolet 365nm and Violet 415nm Arrays (arrays sold separately)	Each
LUM96-365	LumidoxUV 96-Well, 365nm, Ultraviolet LED Array	Each
LUM96-415	LumidoxUV 96-Well, 415nm, Violet LED Array	Each
UVGoggles	Additional UV Safety Goggles	Each



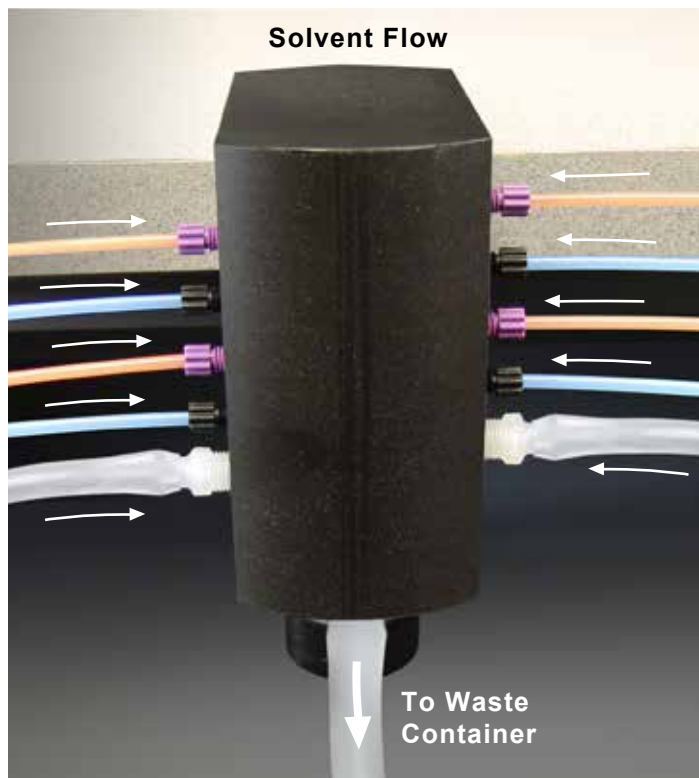
- Includes fittings for 1/8" tubing

MW0802



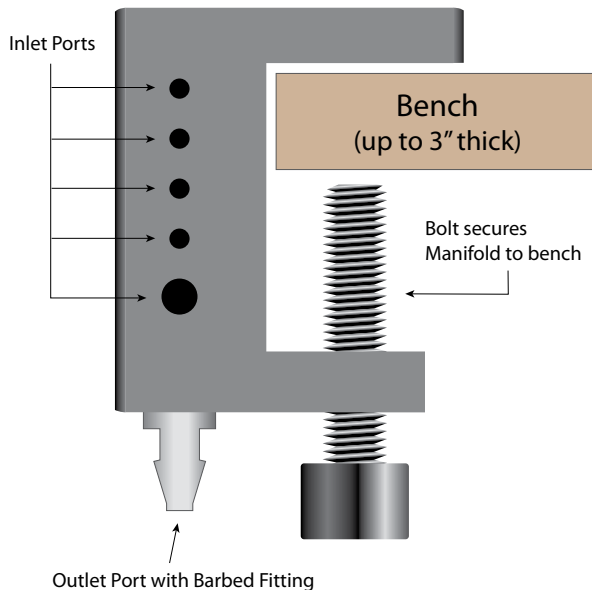
Keep your solvent waste lines neat and organized with our new Multi-Inlet Waste System Manifold!

- Made of durable chemical-resistant polypropylene
- Fits bench up to 3" thick
- Includes fittings and barbed adapters
- Other configurations available - call for details



Multi-Inlet Waste Manifold

Cat. No.	Description
MW0802	Canary-Safe Multi-Inlet Waste Manifold with 8 Standard Ports for 1/16" or 1/8" OD Tubing, 2 Ports for Barbed Adapter , and 1 Large Outlet. Includes 1/8" Fittings and Barbed Adapters.
MW0523	Canary-Safe Multi-Inlet Waste Manifold with 5 Standard Ports for 1/16" or 1/8" OD Tubing, 2 Ports for 3/16" OD Tubing , 3 Ports for Barbed Adapters , and 1 Large Outlet. Includes 1/8" and 3/16" Fittings and Barbed Adapters.
MW1010	Canary-Safe Multi-Inlet Waste Manifold with 10 Ports for Barbed Adapters , and 1 Large Outlet. Includes Barbed Adapters.
MW0406	Canary-Safe Multi-Inlet Waste Manifold with 4 Standard Ports for 1/16" or 1/8" OD Tubing, 6 Ports for Barbed Adapters , and 1 Large Outlet. Includes 1/8" Fittings and Barbed Adapters.
MW0010	Canary-Safe Multi-Inlet Waste Manifold with 10 Standard Tubing Ports for 1/16" or 1/8" OD Tubing, and 1 Large Outlet. Includes 1/8" Fittings.



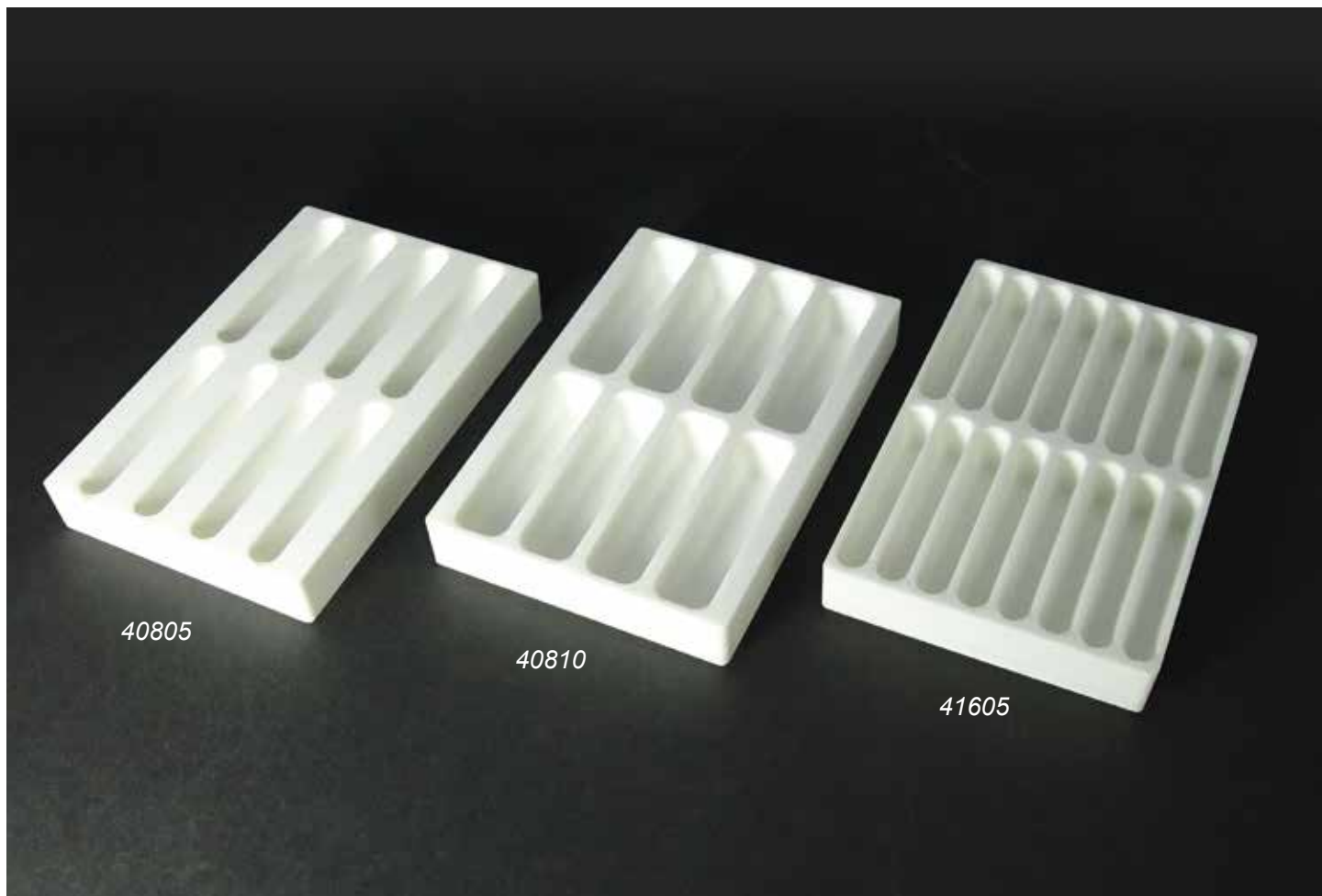
For 1/16" or 2.5mm tubing, use these fittings (sold separately)



Cat. No.	Description	Qty
59249	PEEK™ One Piece Fitting (1/4-28) for 1/16" OD Tubing	Ea
59305X	Green Delrin Flangeless Male Nut, use with Ferrule (59353X)	10
59353X	ETFE Ferrule for 2.5mm OD Tubing	10

Plugs

Cat. No.	Description	Qty
CF5007	Plugs For 1/8" or 1/16" Ports, White PFA	10
CF5009	Plugs for 6.4mm ID Barbed Connector Port, PP	5



NEW! Teflon Reservoirs

- Made from a solid PTFE block
- Precision machined wells, SBS compliant
- Ideal for aggressive organics
- Enables your automation's full pipetting potential/efficiency
- Reusable when used with clean solvents (no analytes, etc)
- Choice of three well configurations (two w/5mL and one w/10mL wells)

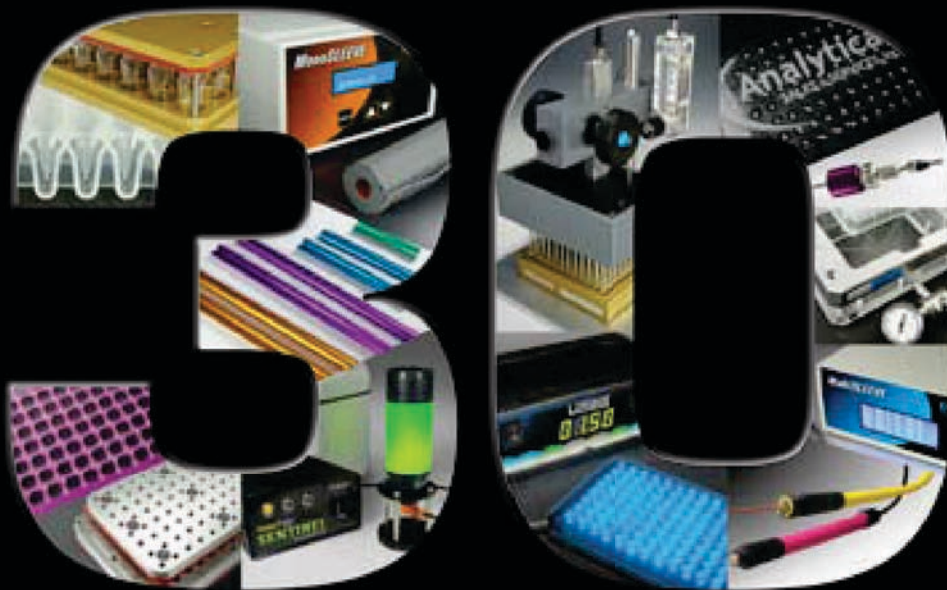
Cat. No.	Description	Qty
40805	PTFE Reservoir with Conical Wells, 4 Rows, 2 Columns, 5 mL / Well	Each
40810	PTFE Reservoir with Conical Wells, 4 Rows, 2 Columns, 10 mL / Well	Each
41605	PTFE Reservoir with Conical Wells, 8 Rows, 2 Columns, 5 mL / Well	Each

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