analytical

Solutions for Science

ISO 9001:2015
Certified

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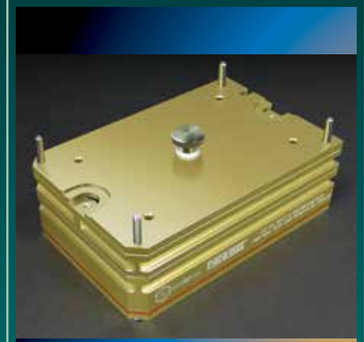
New Products

High Temperature Ceramic Reactor 60

Photoredox Reaction Block for QUARTZ Vials 60



Radiochemistry Reactor 61

Lumidox® II+ 1 Channel Controller 65

Lumidox® II+ 4 Channel Controller 65

Lumidox® II 255nm-UVC Array for Quartz Vials 71

OWiC SPECS Vials for "Light-Powered" Electrochemistry 80

Gen II AgileSleeve+® 83

Analytical is Now ISO 9001:2015 Certified!

We are proud to announce that Analytical Sales and Services, Inc. has officially been certified to the ISO 9001:2015 standard. This is an exciting milestone that demonstrates our continued commitment to providing you with high-quality products and services.

ISO 9001:2015 is an internationally recognized standard for quality management systems (QMS). Our certification is the result of our team's dedication to implementing a robust QMS that ensures consistency and focuses on continuous improvement across all areas of our business.

Markets Served

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

Facilities

Our corporate headquarters is located on 7 acres in Flanders, New Jersey. All operations, including R&D, manufacturing, and applications laboratory for conducting methods development for customers are located here.

Products & Services

Products developed and manufactured by Analytical Sales and Services, Inc.:

- **Temperature Controlled Reactors (TCR)**
- **Flow Electrolysis** Assemblies
- **HTe-Chem** Electrochemical Assemblies
- **Monocon**™ Single Column Heater Controller - **Gen II**
- **Multicon**™ Multiple Column Heater Controller - **Gen II**
- **HotSleeve+**™ Column Heater - **Gen II**
- **Cold Sleeve**™ Column Cooler/Heater
- **AgileSleeve+**® Small Diameter Flexible Column Heater
- **AgileSleeve+**® - **Gen II** ***NEW!***
- **MonoSLEEVE**™ Single Column Heater Controller
- **MultiSLEEVE**™ Multiple Column Heater Controller
- **FlexChrom**® 1/16" Flexible Stainless Steel Tubing
- UHPLC Fingertight Fittings/Assemblies
- **TrueTaper**® 96-well Collection Plates
- Alpha-numeric Templates for 96-Well Collection Plates
- Teflon® and Silicone Adhesive Sealing Films and Cap Mats
- **Canary-Safe**™ Solvent Safety Products
- **SENTINEL**™ Fluid Level Indicator
- **Para-dox**® Photoredox Catalysis & Parallel Synthesis Reaction Blocks - **Gen II**
- **Para-dox**® Photoredox Reaction Block for QUARTZ Vials ***NEW!***
- **Lumidox**® **II** Photon Generation Devices
- **Lumidox**® **II** 255nm-UVC Array for Quartz Vials ***NEW!***
- **Lumidox**® **II+** 1 and 4 Channel Controllers ***NEW!***
- Powder Transfer Plates
- Vacuum Manifold Filtration System
- 96 and 384-well Protein Crash Filter Plates
- **EquaVAP**® Blowdown Evaporators
- **DBS** – Dried Blood Spot Card Punch
- **SiliGuard**™ Low-bind Surface Coating
- Thermal Transfer Plates
- Thermal Transfer Decks
- PTFE Reservoirs
- Multi-Inlet Waste Manifold
- High Temperature Ceramic Reactor ***NEW!***
- Radiochemistry Reactors ***NEW!***

Other chromatography-related products offered:

- Sample and solvent preparation products
- Automated valves for injection, selection and switching
- Fluidic transfer products, tubing and fittings
- 96 and 384-well collection plates, glass inserts, cap mats and films
- Solid-phase extraction products

Analytical also specializes in Custom Product Design, Manufacturing and Development

Table of Contents

New Products 1

Collection Plates 4
96-Well Collection Plates: 6 • 384-Well Collection Plates: 18
PCR: 20 • Reservoirs: 24 • Glass Inserts in 96 Well Format: 26

Collection Plate Accessories 34
EquaVAP®: 34

Blood Collection 40
DBS Card Punch: 40

Sample Filtration 41
Protein Crash Plates: 42
96 & 384-Well Filter Plates: 43 • SPE Plates: 44

Para-dox® Reaction Blocks 48
Aluminum Reaction Blocks: 48 • TCR: 50

Lumidox®II Photon Generation Devices 64

Electrochemistry 76
HTe-Chem: 76 • Flow Electrolysis: 78

Temperature Control 82
Column Heaters: 82 • Thermal Transfer: 87

Fluidic Transfer 88
Tubing: 88 • FlexChrom®: 90 • Solvent Filters: 106

Injection & Switching 108
Infusion Kits & Syringes: 108 • Sample Loops: 109
Automatic Switching Valves: 111

Flow Splitters & Mixers 114

Solvent Safety Products 118
Canary-Safe™ Mobile Phase Bottle Safety Caps: 118
Safety Waste Caps: 120 • Sentinel™ Alarm System: 124

Vials & Vial Storage 126

Index 137

SiliGuard™ SG Low Bind COATING

Don't Get Stuck with Your Guard Down!

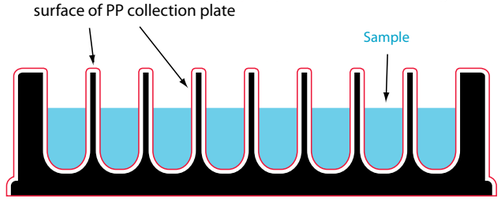
- **Unique SiliGuard™ Treatment**
- **Reduces Non-Specific Binding**
- **Great for Sticky Compounds**
- **Low Protein/Peptide Binding**
- **As a Service, SiliGuard can be Applied to All Polypropylene Products such as Collection Plates, HPLC Vials, Micro-centrifuge Tubes and even Pipette Tips!**

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



Polypropylene Collection Plate with SiliGuard

PRODUCT NOTE:

We also have the capability to Silanize glass products

Pattern Adhesive *Resealable* SILICONE Sealing Film

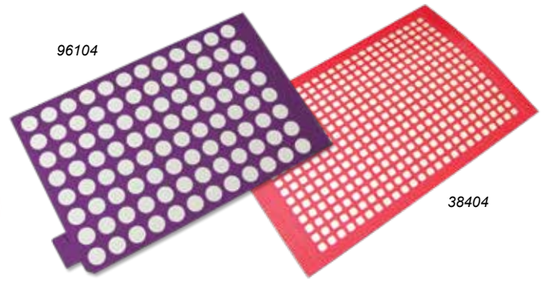
Ideal for: LC/MS, HPLC, qPCR, HTS, Organic Synthesis

- *Pierceable Silicone Film for REDUCED EVAPORATION!*
- *Perfect Thickness of High Grade Silicone for Injections or Storage*
- *Adhesive-free Target Areas*
- *Easier to Use – NO DIMPLES!*

Excellent for Analytical Work flow
- Superior resealability after multiple injections
- No clogging or tearing
- Film seals at -80ºC to +120ºC

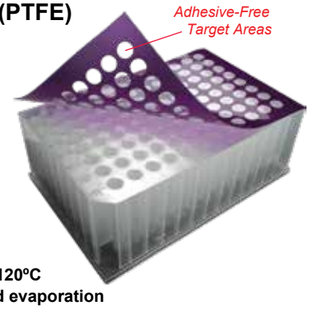
Cell culture gas permeability for Oxygen and CO_2

Excellent for Cell Biology Work flow
- Gas **permeable**, moisture **impermeable** (reduces evaporation)
- Optical transparency for fluorescence detection (qPCR)
- Product can be run on a gel or sequenced
- -80ºC long-term storage



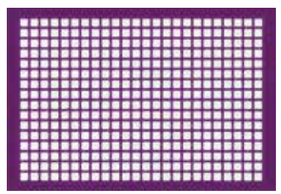
Cat. No.	Description	Well Shape	Qty
96104	96-Well, 10 mil Adhesive Silicone Sealing Film, Purple	○ Round	5
38404	348-Well, 10 mil Adhesive Silicone Sealing Film, Red	□ Square	5

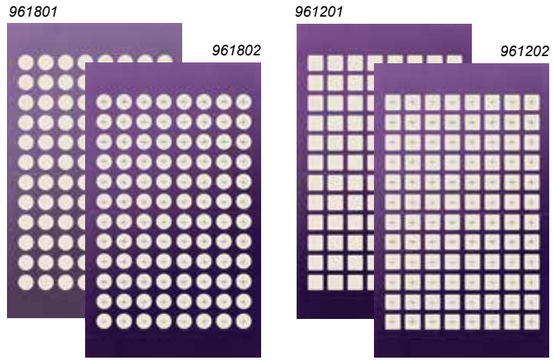
Pattern Adhesive Teflon® (PTFE) Sealing Films



Established & Proven
- **Superior Solvent Compatibility**
- **Higher Chemical Resistance**
- **Greater Tackiness**
- **Compatible with Standard LCMS Solvents**

- **Adhesive-free target areas**
- **Firm seal to microplate -80ºC to +120ºC**
- **Prevents cross-contamination and evaporation**
- **Outstanding performance for PCR applications**
  - *40 cycles, hot lid at 100ºC*
- **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**





96-Well Pattern Teflon (PTFE) Adhesive Sealing Film

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

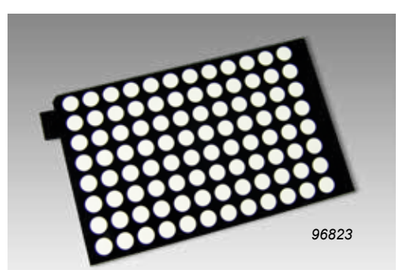
384-Well Pattern Teflon (PTFE) Adhesive Sealing Film

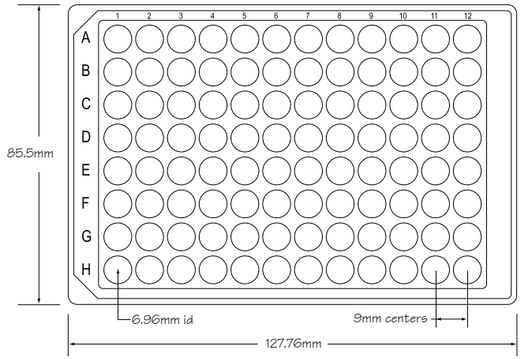
Cat. No.	Description	Well Shape	Qty
38402	Teflon (PTFE) Adhesive Film, **384**-Well Pattern, Ultra-thin, Purple	□ Square	100
38402SL	***Pre-slit*** Teflon Adhesive Film, **384**-Well Pattern, Ultra-thin, Red	⊞ Square	100

Pattern Adhesive PTFE (Teflon®) Sealing Film, Black

Outstanding solvent resistance including DMSO, aqueous mixture of isopropanol, ethanol, methanol and acetonitrile and superior chemical compatibility, with a firm seal at -80ºC to +120ºC. 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 -75ºC to +125ºC.

Cat. No.	Description	Well Shape	Qty
96823	Teflon (PTFE) Adhesive Film, 96-Well Pattern, **Black**	○ Round	100

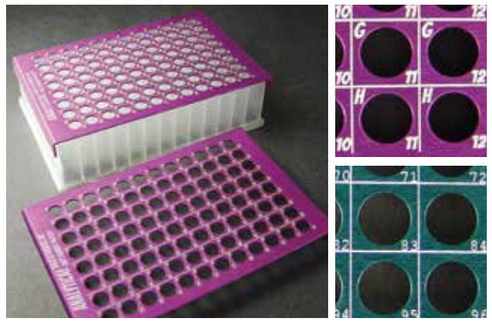




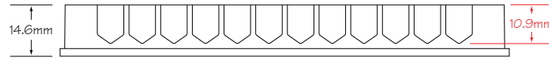
For more specifications on our collection plates, visit our website

Numeric & Alpha-Numeric Templates

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



Cat. No.	Description	Qty
96T001	Alpha-numeric Template for 96-Well Collection Plates	Each
96T002	Numeric Template for 96-Well Collection Plates	Each

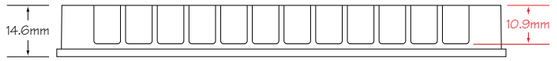


Round Well with V-Shaped Bottoms - 340µL

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

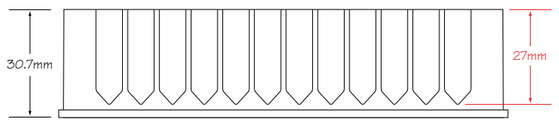
Round Well with U-Shaped Bottoms - 355µL

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 20

Resealable Silicone/PTFE Coated Cap Mats

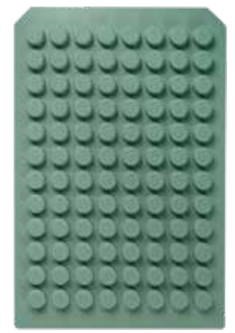
- Compatible with all current autosampler needles
- No coring or cross talk
- Fits all standard 96-position blocks
- Reseals after multiple injections
- Pre-slit or non-pre-slit

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

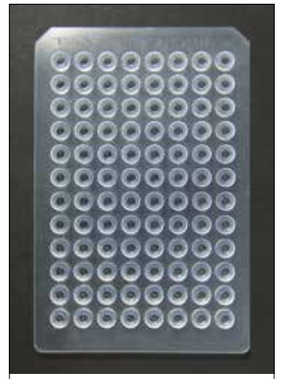


Cat No.	Color	Qty
963675	Green	5

Round Well, Silicone/PTFE ***(good for long-term storage at -80ºC)***

Cat No.	Color	Qty
963670	Green	5

Pre-Slit Round Well, Silicone/PTFE



Cat No.	Color	Qty
964007	CLEAR	5

Ultra Thin Round Well, Soft Silicone/PTFE

Cat No.	Color	Qty
964075	CLEAR	5

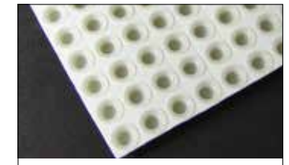
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE

TPE Plugs on 96 Well Spine

For Standard Round Well Collection Plates and 8x30mm Vial Inserts

Cat No.	Color	Qty
96077	Purple	5

Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials

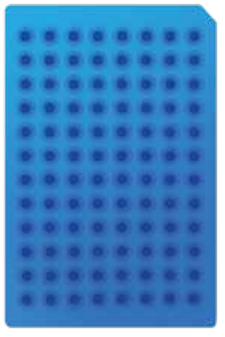


Cat No.	Color	Qty
96089	Natural	5

Pierceable TPE Plugs on 96 Well Spine, Strips of 8, for Tubes/Vials

Thicker Resealable Silicone, PTFE Coated Cap Mats

- Use in Shimadzu autosamplers



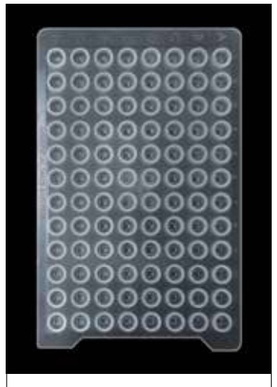
Cat No.	Color	Qty
967702	Blue	5

Round Well, Soft Silicone/PTFE, Better Suited for 2º - 8ºC Autosampler Temperatures

Cat No.	Color	Qty
967701	Blue	5

Pre-Slit Round Well, Soft Silicone/PTFE

Polypropylene Round Well Cap Mats



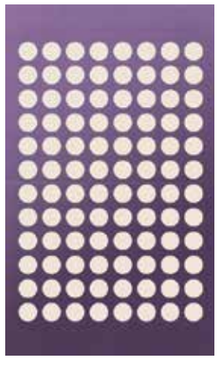
Cat No.	Color	Qty
96057	CLEAR	20

1mL Autosampler Compatible PP Cap Mat, Pierceable X on Surface

Cat No.	Color	Qty
96017	CLEAR	20

1mL PE Cap Mat, for Storage Only - up to 120ºC

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

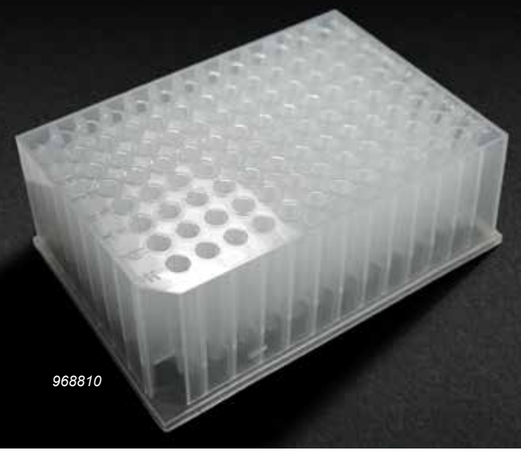
Pre-Slit PTFE Adhesive Film, Round 96-Well, Ultra-thin

Pattern Adhesive *Resealable* Silicone Sealing Film (patented)

Cat No.	Color	Qty
96104	Purple	5

Round 96-Well Adhesive *Resealable* SILICONE Sealing Film

Refer to page **5** for Sealing Film Details

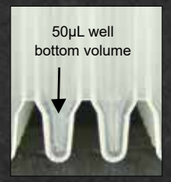


TrueTaper® COLLECTION PLATES

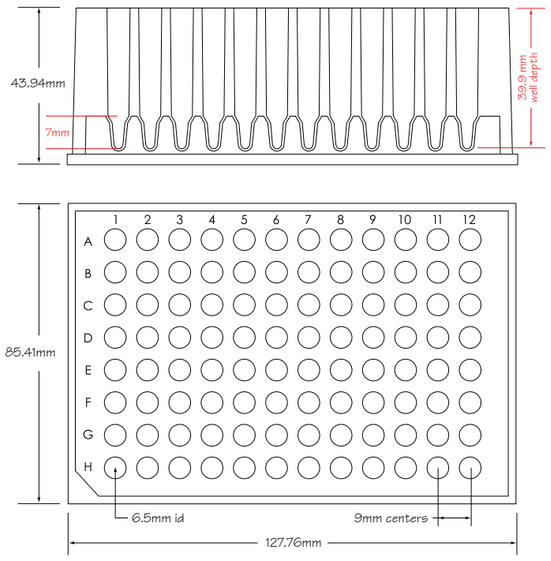
1mL TrueTaper®

Available with SiliGuard™ SG Low Bind COATING

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*



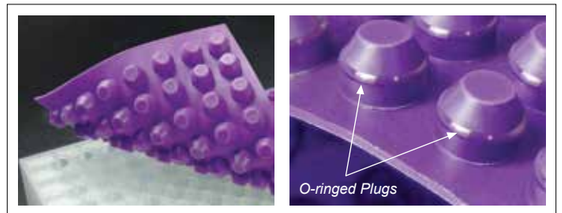
Cat. No.	Description	Volume	Qty
968810	1mL TrueTaper 96-Well Collection Plate	50µL bottom/ 1.0mL total	25
968810GC	1mL TrueTaper 96-Well Collection Plate with **SiliGuard**	50µL bottom/ 1.0mL total	25

TECH NOTE:

TrueTaper® COLLECTION PLATES

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

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

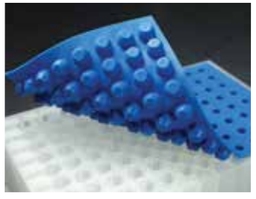


- **Unique O-ringed Plugs**
- Holds Seal with Vigorous Vortexing
- No Crosstalk
- Autosampler Compatible

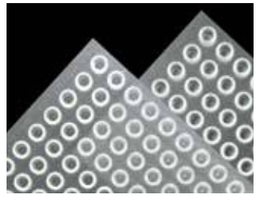
Cat No.	Color	Qty
960181	Purple	5
Silicone/PTFE Cap Mat, Round Well for 1mL TrueTaper Plate		

Cat No.	Color	Qty
960185	Purple	5
Pre-Slit 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
Pre-Slit Opaque Silicone/PTFE Cap Mat, Round Well		



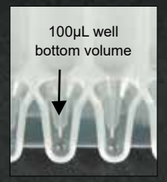
Cat No.	Color	Qty
99685	CLEAR	5
Silicone/PTFE Cap Mat, Round Well		
99690	CLEAR	5
Pre-Slit Silicone/PTFE Cap Mat, Round Well		

TrueTaper® COLLECTION PLATES

2mL TrueTaper®

Available with SiliGuard™ SG Low Bind COATING

96-Well Polypropylene Collection Plate

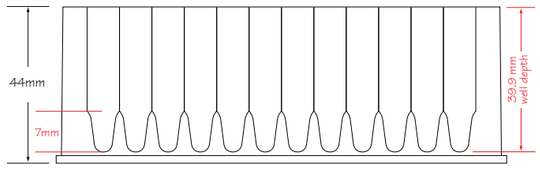


- **100µL** tapered bottom volume
- 2.0mL total volume capacity
- *Square* well with unique tapered bottom for **maximum sample recovery**
- *See Tech Note on Page 8*

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

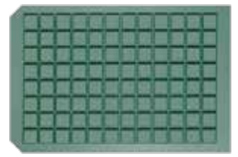
Black TrueTaper - *for Light Sensitive Compounds*

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

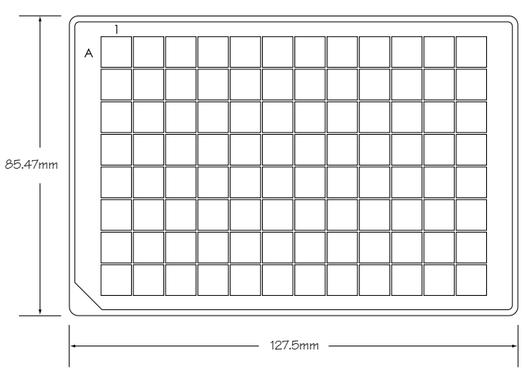


Resealable Silicone/PTFE Coated Cap Mats

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		

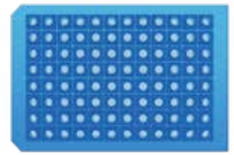


Cat No.	Color	Qty
963725	Green	5
Square Well, Silicone/PTFE ***(good for long-term storage at -80°C)***		
963724	Green	5
Pre-Slit Square Well, Silicone/PTFE		



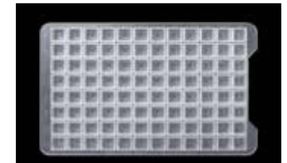
Cat No.	Color	Qty
964008	CLEAR	5
Ultra Thin Square Well, Soft Silicone/ PTFE		
964085	CLEAR	5
Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE		

Thicker Resealable Cap Mats

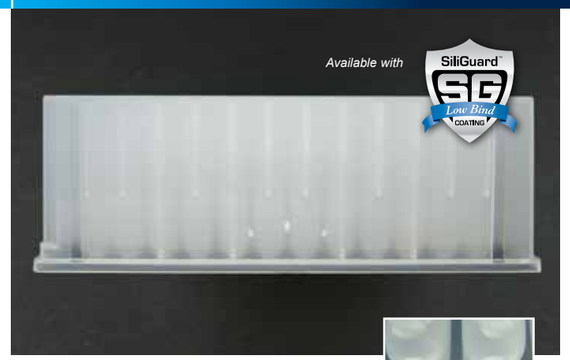


Cat No.	Color	Qty
968802	Blue	5
Square Well, Soft Silicone/PTFE		
968801	Blue	5
Pre-Slit Square, Soft Silicone/PTFE		

Polypropylene Cap Mats



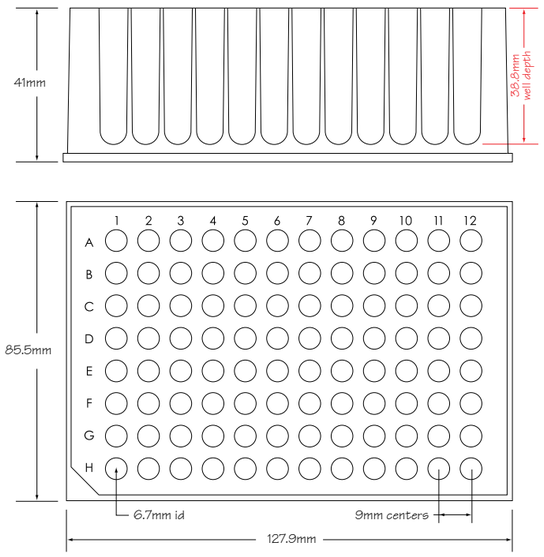
Cat No.	Color	Qty
2726	CLEAR	20
Square, Pierceable 'X' in Each Well, PP		
3726	CLEAR	24
Square, PP, ***Long Term Storage***		



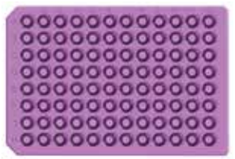
Advantage™ Standard 1mL Collection Plates with Round Wells & Round Bottoms

- 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

Cat No.	Color	Qty
965075	Purple	5

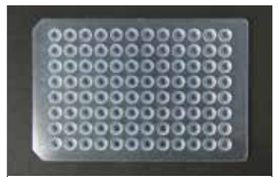
Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE

Cat No.	Color	Qty
963675	Green	5

Round Well, Silicone/PTFE ***(good for long-term storage at -80ºC)***

Cat No.	Color	Qty
963670	Green	5

Pre-Slit Round Well, Silicone/PTFE



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

Plugs for 8x30mm Vials Inserts

Cat No.	Color	Qty
96077	Purple	5

Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials

Cat No.	Color	Qty
96089	Natural	5

Pierceable TPE Plugs on 96 Well Spine, Strips of 8, for Tubes/Vials,

Thicker Resealable Cap Mats

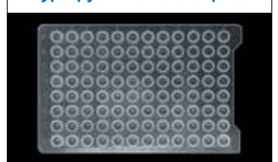
Cat No.	Color	Qty
967702	Blue	5

Soft Silicone/PTFE, Better Suited for 2º - 8ºC Autosampler Temperatures

Cat No.	Color	Qty
967701	Blue	5

Pre-Slit, Round, Soft Silicone/PTFE

Polypropylene Round Cap Mats



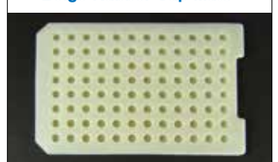
Cat No.	Color	Qty
96057	CLEAR	20

PP, Pierceable 'X' in Each Well

Cat No.	Color	Qty
96017	CLEAR	20

for Storage Only - up to 120ºC

Beige Rubber Cap Mats



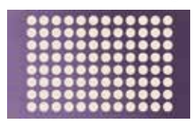
Cat No.	Color	Qty
96230	Beige	5

Beige Rubber Cap Mat, Round Well, ***Reduced Evaporation***

Cat No.	Color	Qty
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

Cat No.	Color	Qty
961802	Purple	100

Pre-Slit PTFE Adh. Film, Round

96104	Purple	5

Round 96-Well Adhesive ***Resealable*** Silicone Sealing Film

See page **5** for Sealing Film Details

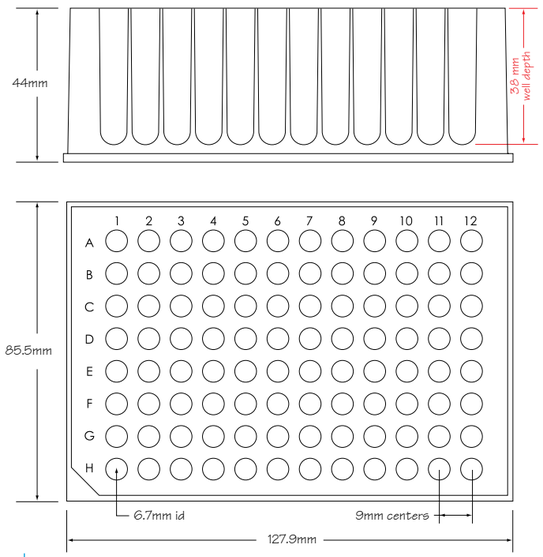
Old Favorite - *New Design!*

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

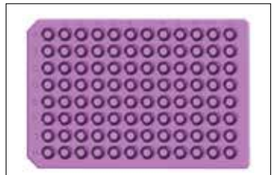
Sterilized plates are available upon request



TECH NOTE:

Configure in Agilent 1100 Autosampler: "96 DeepAgilent 41mm"

Resealable Silicone/PTFE Coated Round Well Cap Mats

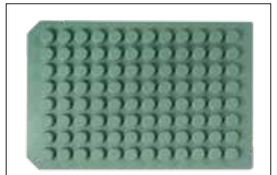


Cat No.	Color	Qty
965007	Purple	5

Ultra Thin Round Well, Soft Silicone/PTFE

Cat No.	Color	Qty
965075	Purple	5

Pre-Slit Ultra Thin Round Well, Soft Silicone/PTFE

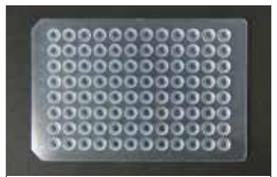


Cat No.	Color	Qty
963675	Green	5

Round Well, Silicone/PTFE ***(good for long-term storage at -80ºC)***

Cat No.	Color	Qty
963670	Green	5

Pre-Slit Round Well, Silicone/PTFE



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

Plugs for 8x30mm Vials Inserts

Cat No.	Color	Qty
96077	Purple	5

Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials

Cat No.	Color	Qty
96089	Natural	5

Pierceable TPE Plugs on 96 Well Spine, Strips of 8, for Tubes/Vials,

Thicker Resealable Cap Mats

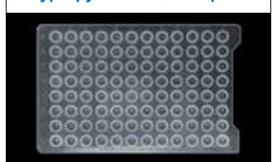
Cat No.	Color	Qty
967702	Blue	5

Soft Silicone/PTFE, Better Suited for 2º - 8ºC Autosampler Temperatures

Cat No.	Color	Qty
967701	Blue	5

Pre-Slit, Round, Soft Silicone/PTFE

Polypropylene Round Cap Mats



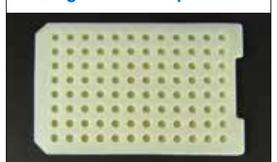
Cat No.	Color	Qty
96057	CLEAR	20

PP, Pierceable 'X' in Each Well

Cat No.	Color	Qty
96017	CLEAR	20

for Storage Only - up to 120ºC

Beige Rubber Cap Mats



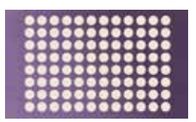
Cat No.	Color	Qty
96230	Beige	5

Beige Rubber Cap Mat, Round Well, ***Reduced Evaporation***

Cat No.	Color	Qty
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

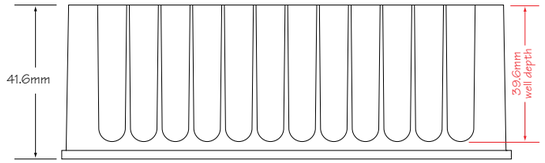
Cat No.	Color	Qty
961802	Purple	100

Pre-Slit PTFE Adh. Film, Round

96104	Purple	5

Round 96-Well Adhesive ***Resealable*** Silicone Sealing Film

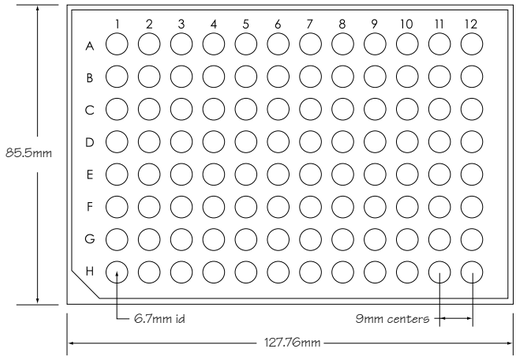
See page **5** for Sealing Film Details



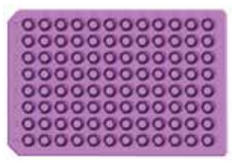
Advantage™ *Clear-Vu*™ 1mL Polypropylene Collection Plates with Round Well & Round Bottom

• See-through polypropylene

Cat. No.	Description	Color	Volume	Qty
17P557	Round Well/Round Bottom	CLEAR	1mL	24
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		

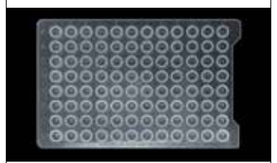
Cat No.	Color	Qty
963675	Green	5
Round Well, Silicone/PTFE ***(good for long-term storage at -80ºC)***		
963670	Green	5
Pre-Slit Round Well, Silicone/PTFE		

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

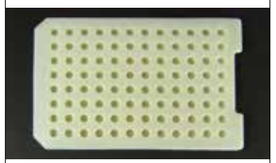
Cat No.	Color	Qty
967702	Blue	5
Soft Silicone/PTFE, Better Suited for 2º - 8ºC Autosampler Temperatures		
967701	Blue	5
Pre-Slit, Round, Soft Silicone/PTFE		

Polypropylene Round Cap Mats



Cat No.	Color	Qty
96057	CLEAR	20
PP, Pierceable 'X' in Each Well		
96017	CLEAR	20
for Storage Only - up to 120ºC		

Beige Rubber Cap Mats

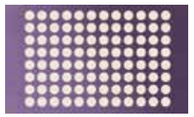


Cat No.	Color	Qty
96230	Beige	5
Beige Rubber Cap Mat, Round Well, ***Reduced Evaporation***		
96235	Beige	5
Pre-Slit Beige Rubber Cap Mat, Round		

Plugs for 8x30mm Vials Inserts

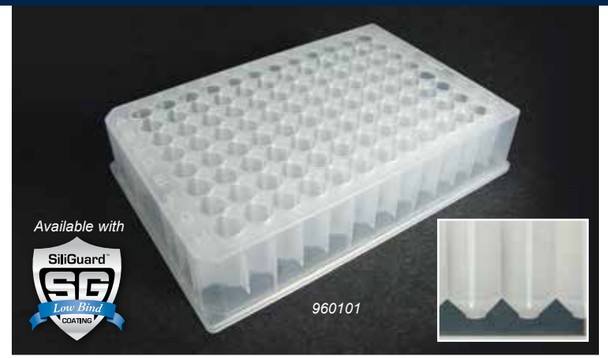
Cat No.	Color	Qty
96077	Purple	5
Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials		
96089	Natural	5
Pierceable TPE Plugs on 96 Well Spine, Strips of 8, for Tubes/Vials		

Pattern Adhesive Sealing Film



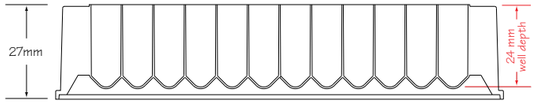
Cat No.	Color	Qty
961801	Purple	100
PTFE Adhesive Film, Ultra-thin, Round		
961802	Purple	100
Pre-Slit PTFE Adh. Film, Round		
96104	Purple	5
Round 96-Well Adhesive ***Resealable*** Silicone Sealing Film		

See page **5** for Sealing Film Details



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

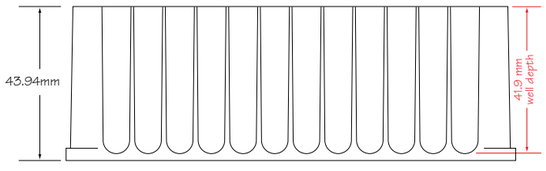
Cat. No.	Description	Volume	Qty
960101	Half-Height, Round Well, Shallow V-Bottom	1mL	32
960101GC	Half-Height, Round Well, Shallow V-Bottom w/ **SiliGuard**	1mL	32

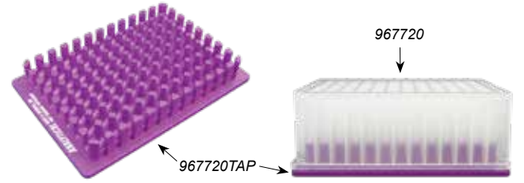


Use with Cap Mats 955011, 955022, 966011 or 966022 *(see below for details)*

2mL Round Well/Round Bottom Collection Plate

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

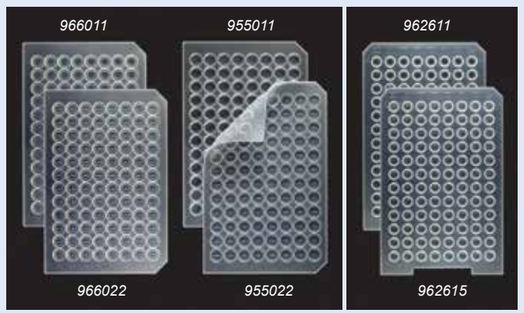




Thermal Adapter Plate

For use with **967720** collection plate. Conforms to the bottom shape of the collection plate wells to ensure uniform thermal transfer for heating and cooling. *See page 39 for more information.*

Cat. No.	Description	Qty
967720TAP	Thermal Adapter Plate for 967720 PP Collection Plate	Each



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® 1mL, 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

- **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*

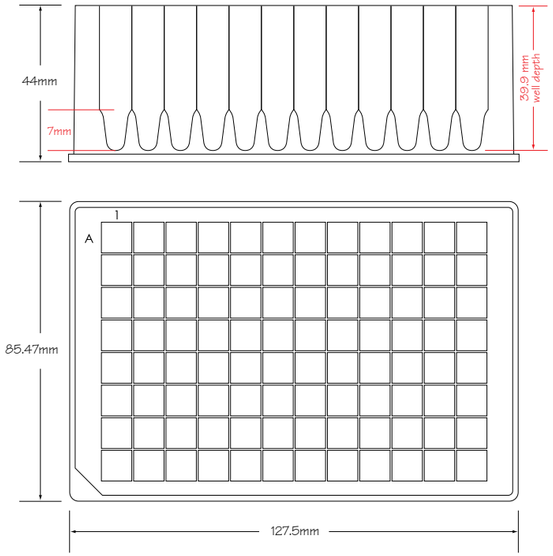
Cat. No.	Description	Volume	Qty
968820BL	2mL TrueTaper, Black	100µL bottom/2.0mL total	25

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

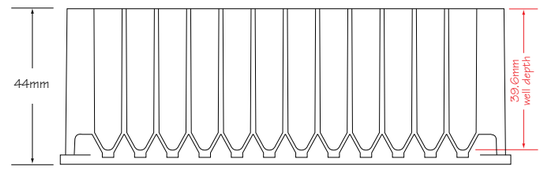
Cat. No.	Description	Material	Volume	Qty
59623-23	Square Top, V-Bottom Collection Plate	PP	2mL	10
59623-23GC	Square Top, V-Bottom w/ **SiliGuard**	PP	2mL	10
59623-23BK	**BLACK** Square Top, V-Bottom	PP	2mL	10

TrueTaper® COLLECTION PLATES

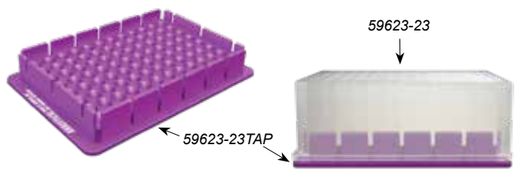
2mL TrueTaper®
96-Well Polypropylene Collection Plate



Use with these Cap Mats →



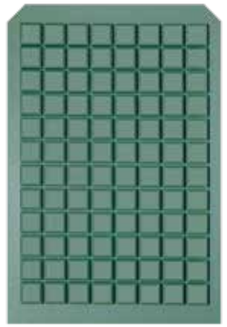
TECH NOTE:
Part no. 59623-23 - Transition from square sides to cone bottom is sloped - NO FLAT LEDGES.



Thermal Adapter Plate
For use with **59623-23** collection plate. Conforms to the bottom shape of the collection plate wells to ensure uniform thermal transfer for heating and cooling. *See page 39 for more information*.

Cat. No.	Description	Qty
59623-23TAP	Thermal Adapter Plate for 59623-23 PP Collection Plate	Each

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

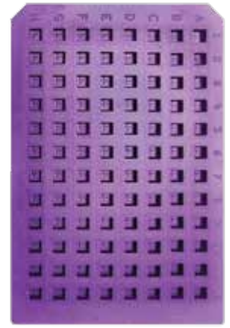


Cat No.	Color	Qty
963725	Green	5

Square Well, Silicone/PTFE ***(good for long-term storage at -80ºC)***

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

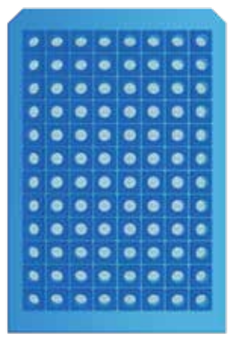
Cat No.	Color	Qty
964085	CLEAR	5

Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE

Rubber Roller
- Secures cap mat to plate

Cat No.	Qty
96400	Each

Thicker Resealable Silicone, PTFE Coated Cap Mats
- Use in Shimadzu autosamplers



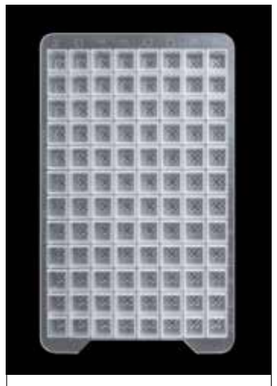
Cat No.	Color	Qty
968802	Blue	5

Square Well, Soft Silicone/PTFE, Better Suited for 2º - 8ºC Autosampler Temperatures

Cat No.	Color	Qty
968801	Blue	5

Pre-Slit Square Well, Soft Silicone/PTFE

Polypropylene Square Well Cap Mats



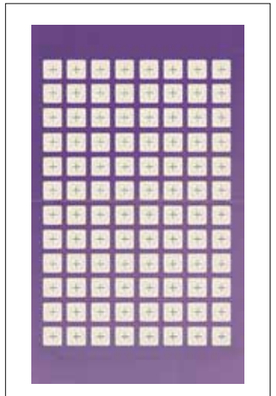
Cat No.	Color	Qty
2726	CLEAR	20

2mL Autosampler Compatible Square Cap Mat, Pierceable 'X' on Surface

Cat No.	Color	Qty
3726	CLEAR	24

2mL Square Cap Mat, Low Temp. (-80º), For Long Term Storage

Pattern Adhesive PTFE Sealing Film (patented)



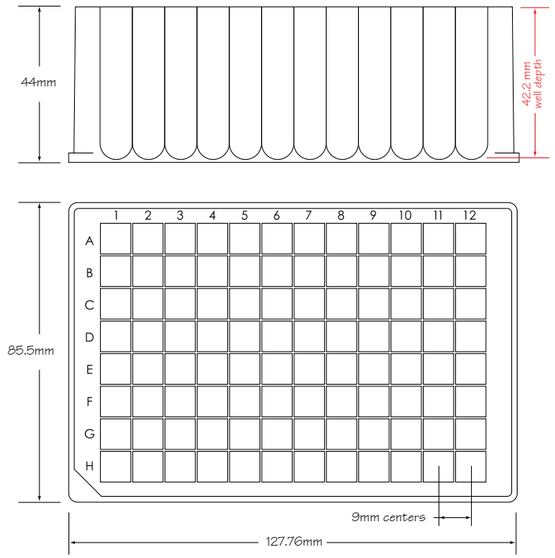
Cat No.	Color	Qty
961201	Purple	100

PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin

Cat No.	Color	Qty
961202	Purple	100

Pre-Slit PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin

See page 5 for Sealing Film Details



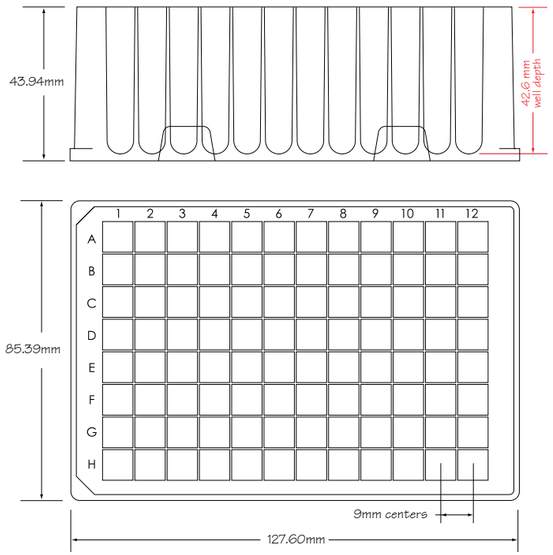
Advantage™ 2mL Polypropylene 96-Well Collection Plates

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

Use with these Cap Mats →



Advantage™ *Clear-Vu*™ 2mL 96-Well Collection Plates

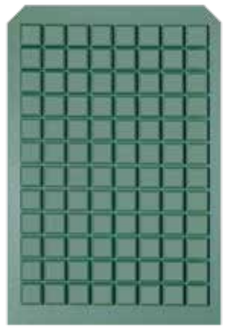
Square Well with Round Bottom

• See-through polypropylene

Cat. No.	Description	Color	Volume	Qty
27P557	Square Well, Round Bottom	CLEAR	2mL	24
27P557GC	Square Well, Round Bottom w/ **SiliGuard**	CLEAR	2mL	24

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

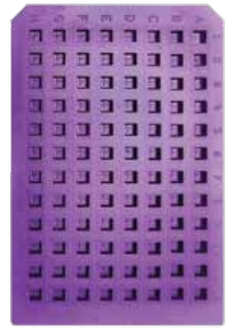


Cat No.	Color	Qty
963725	Green	5

Square Well, Silicone/PTFE ***(good for long-term storage at -80ºC)***

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

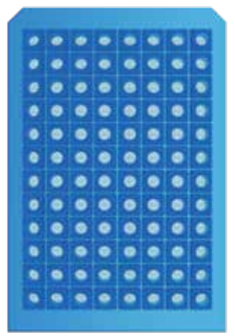
Ultra Thin Square Well, Soft Silicone/PTFE

Cat No.	Color	Qty
964085	CLEAR	5

Pre-Slit Ultra Thin Square Well, Soft Silicone/PTFE

Thicker Resealable Silicone, PTFE Coated Cap Mats

• Use in Shimadzu autosamplers



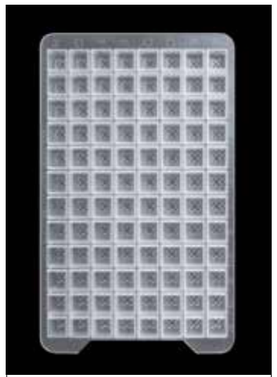
Cat No.	Color	Qty
968802	Blue	5

Square Well, Soft Silicone/PTFE, Better Suited for 2º - 8ºC Autosampler Temperatures

Cat No.	Color	Qty
968801	Blue	5

Pre-Slit Square Well, Soft Silicone/PTFE

Polypropylene Square Well Cap Mats



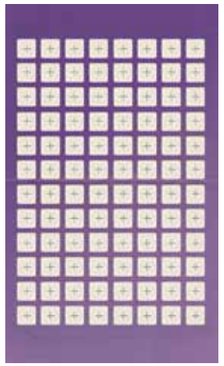
Cat No.	Color	Qty
2726	CLEAR	20

2mL Autosampler Compatible Square Cap Mat, Pierceable 'X' on Surface

Cat No.	Color	Qty
3726	CLEAR	24

2mL Square Cap Mat, Low Temp. (-80º), 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-Slit PTFE Adhesive Film, Square 96-Well Pattern, Ultra-thin

Rubber Roller

• Secures cap mat to plate

Cat No.	Qty
96400	Each

See page 5 for Sealing Film Details

384-Well Collection Plates – Square Well

Cat. No.	Description	Volume	Qty
38435	384-Well Collection Plate, Polypropylene, Clear Spherical Well Bottoms	58µL	60

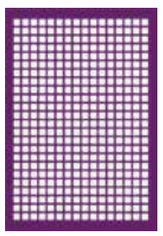
Cat. No.	Description	Volume	Qty
38120	384-Well Collection Plate, PP, Flat Bottom, Clear	120µL	24

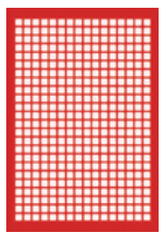
Cat. No.	Description	Volume	Qty
38200	384-Well Collection Plate, PP, Round Bottom, Clear	200µL	24
38200B	384-Well Collection Plate, PP, Round Bottom, Blue	200µL	24
38200G	384-Well Collection Plate, PP, Round Bottom, Green	200µL	24
38200R	384-Well Collection Plate, PP, Round Bottom, Red	200µL	24
38200Y	384-Well Collection Plate, PP, Round Bottom, Yellow	200µL	24

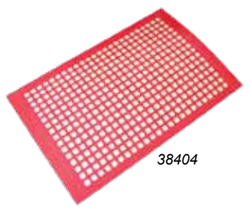
Cat. No.	Description	Volume	Qty
38400	384-Well Collection Plate, PP, Round Bottom, Clear	400µL	24
38400B	384-Well Collection Plate, PP, Round Bottom, Blue	400µL	24
38400G	384-Well Collection Plate, PP, Round Bottom, Green	400µL	24
38400R	384-Well Collection Plate, PP, Round Bottom, Red	400µL	24
38400Y	384-Well Collection Plate, PP, Round Bottom, Yellow	400µL	24

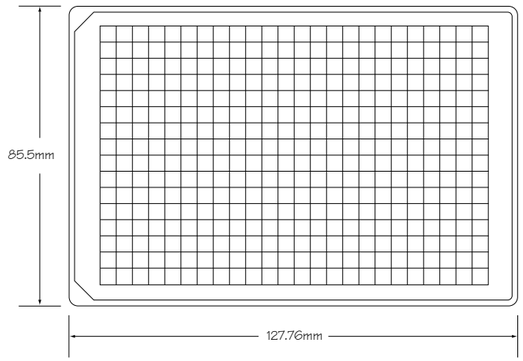
384-Well Pattern Adhesive PTFE (Teflon®) Sealing Film

Cat. No.	Description	Qty
38402	384 Square Well Pattern Adhesive PTFE Sealing Film, Purple	100
38402SL	***Pre-slit*** 384 Square Well Pattern Adhesive PTFE Sealing Film, Red	100
38404	348-Well, 10 mil Adhesive Silicone Sealing Film, Resealable, Red	5

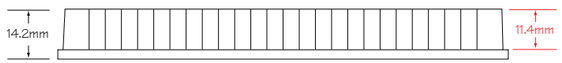

38402


38402SL

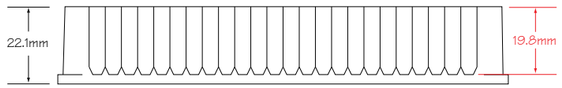

38404



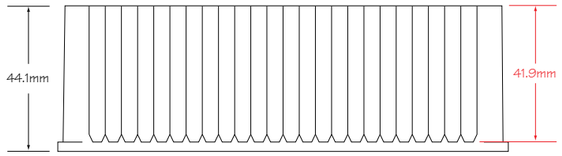
120µL, Flat Bottom

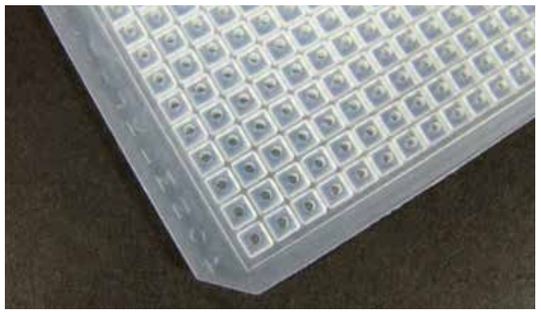


200µL, Round Bottom



400µL, Round Bottom





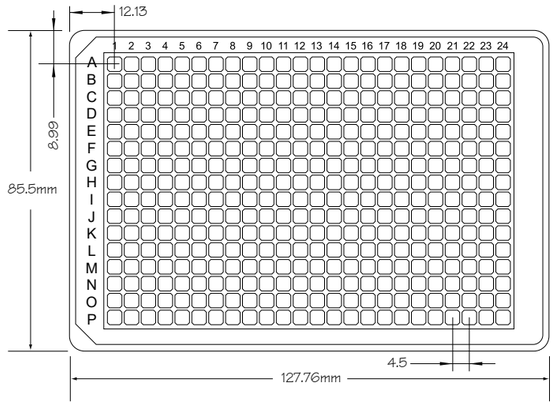
384-Well Soft Silicone Cap Mats & Accessories

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)	Each

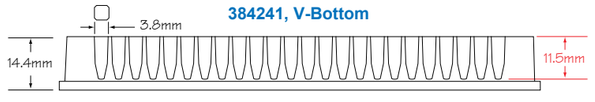
384201

384-Well Collection Plates

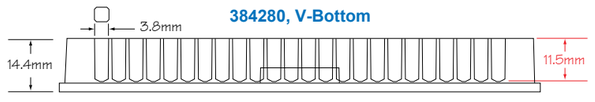
Cat. No.	Description	Volume	Qty
384241	384-Well Collection Plate, **V-Bottom**, Polypropylene	1-90µL	100
384280	384-Well Collection Plate, **V-Bottom**, Polypropylene	13-120µL	100
384201	384-Well Collection Plate, **Flat Bottom**, Polypropylene	15-145µL	100



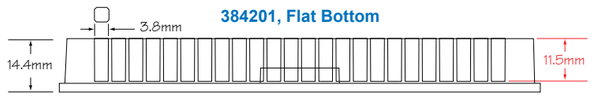
384241, V-Bottom

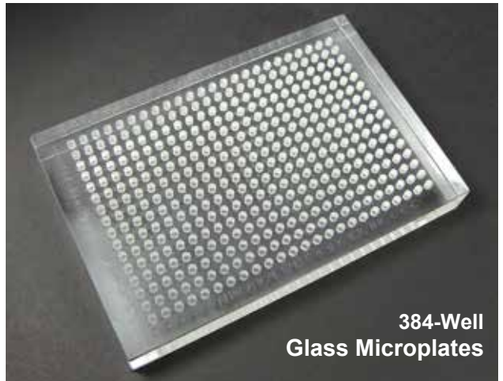


384280, V-Bottom

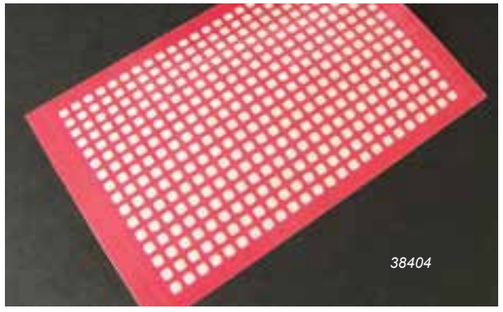


384201, Flat Bottom




384-Well
Glass Microplates

Cat. No.	Description	Volume	Qty
38499	384-Well Glass Microplate	24µL/Well	Each
38498	384-Well Glass Microplate	74µL/Well	Each

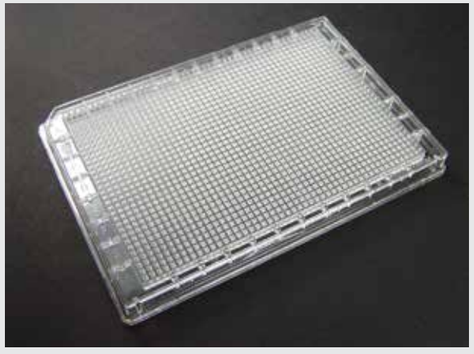

38404

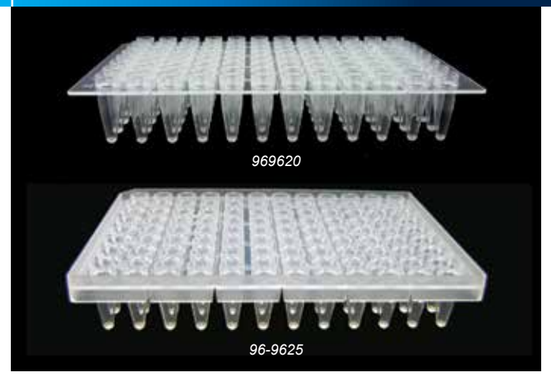
384-Well, 10 mil Adhesive Silicone Sealing Mat
Gas Permeable, Breathable (Ideal for cell growth)

Cat. No.	Description	Qty
38404	384-Well Adhesive Sealing Mat, Silicone, 10 mil Thickness	5

1536-Well Collection Plates – Square Well

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





Raised Rim Thin Wall PCR Plates

Available with SiliGuard™ Low Bind Coating

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

Cat. No.	Description	Qty
969620	Clear 250µL PCR Plate, 3mm Rim Around Each Well, Clear *(Alternative to Robbins Plate)*	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, *(Alternative to Corning® Plate)*	100

Thin Wall PCR Plates

Available with SiliGuard™ Low Bind Coating

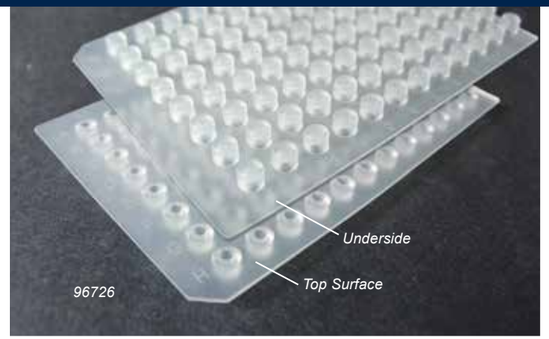
- Each well has 0.2mL capacity
- Can be used with all leading thermal cyclers
- Thin Walled – Can Be Cut Into Sections

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 illuminescent and fluorescent procedures:		
96323	White 100µL Skirted Low Profile PCR Plate	100
96323B	Black 100µL Skirted Low Profile PCR Plate	100

PCR® is a Registered Trademark of Hoffman-LaRoche.



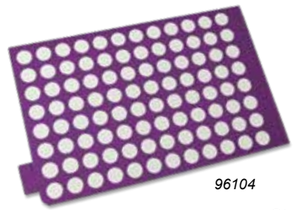
Cap Mats for PCR Plates

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

See page 5 for full details on pattern adhesive film.

Pattern Adhesive *Resealable* Silicone Sealing Film (patented)

Adhesive-free Target Area



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

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

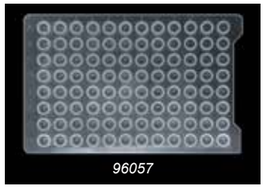
Standard Sealing Films

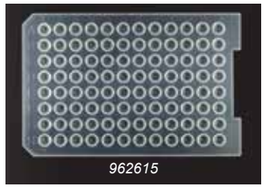
- Temperature range -40ºC to 120ºC
- Sterile films also available - call for pricing

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

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	***Pre-Slit*** 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

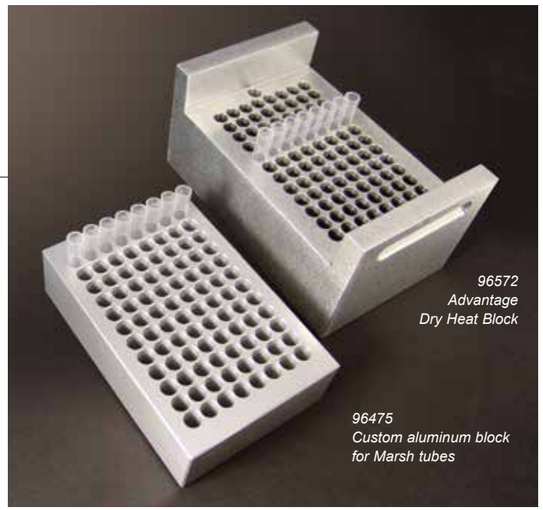
Aluminum Dry Heat Blocks

Cat. No.	Description	Qty
96572	Aluminum Dry Heat Block	Each
96475	Aluminum Dry Heat Block for Marsh Tubes	Each

Custom blocks are available, call for details

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.

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

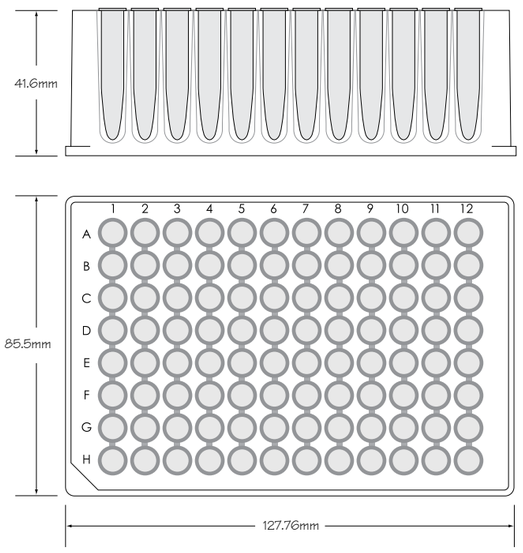
PRODUCT TIP:

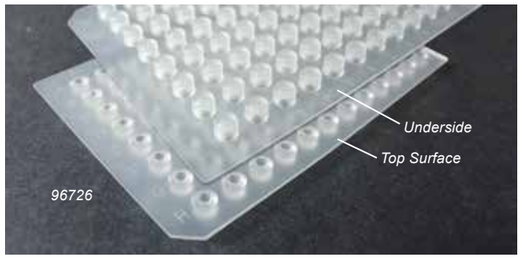
For more options of individual tubes in a 96-well format, look at Flexi-Tier (page 26), Collection Plates w/Inserts (page 30) and Select-A-Vial (page 32).

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





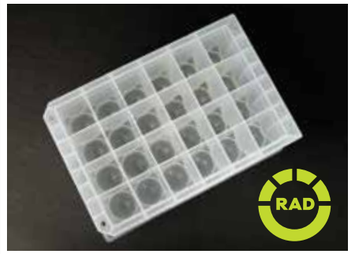
PCR Cap Mats for 600µL Polypropylene Tubes

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

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

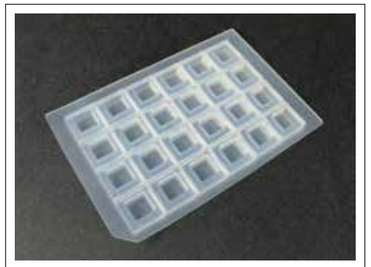
Cat. No.	Format	Partitions	Qty
24727	24-Well	6 Columns, 4 Rows	25

Deep Well PP Square Well Storage/Reaction Microplate, 10mL/well, 240mL max, Height: 44mm, Well Bottom Shape: **Round**



Cat. No.	Format	Partitions	Qty
24728	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,** IRRADIATED



Cat. No.	Format	Qty
24777	24-Well	5

Silicone/PTFE **Cap Mat** for 24-well Collection Plates

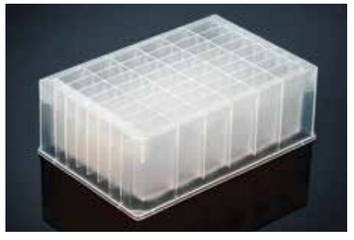
Cat. No.	Format	Partitions	Qty
24108	24-Well	6 Columns, 4 Rows	25

Deep Well PP Square Well Storage/Reaction Microplate, 10mL/well, 240mL max, Height: 44mm, Well Bottom Shape: **Pyramid**

Cat. No.	Format	Partitions	Qty
24109	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,** IRRADIATED

24-Well Filter Plates are also available. See page 43



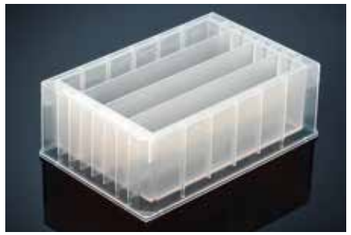
Cat. No.	Format	Partitions	Qty
48685	48-Well	6 Columns, 8 Rows	25

Deep Well PP Rectangle Well Collection Plate, 5mL/well, Height: 44mm, Well Bottom Shape: Pyramid

Cat. No.	Format	Qty
48010CM	48-Well	100

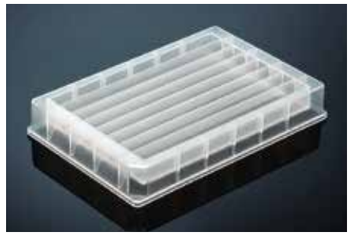
Pierceable Santoprene **Cap Mat** for 48-Well Plates, White

Cat. No.	Description	Qty
96013	12 Column V-Trough, Clear PETG, 3mL/Channel	5



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

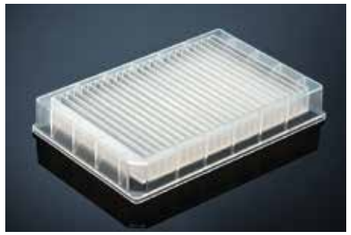
Low Profile PP Reservoir, 7mL/column, 84mL max, Height: 19mm, Well Bottom Shape: Pyramid

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

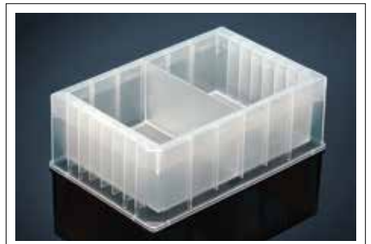
Low Profile PP Reservoir, 3.3mL/column, 78mL max, Height: 19mm, Well Bottom Shape: Pyramid

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



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

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

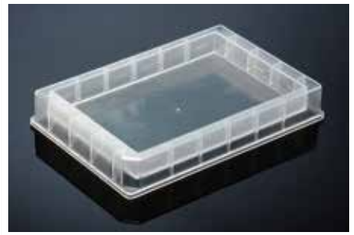
Cat. No.	Format	Partitions	Qty
960395	Columns	3 Columns	25

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

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

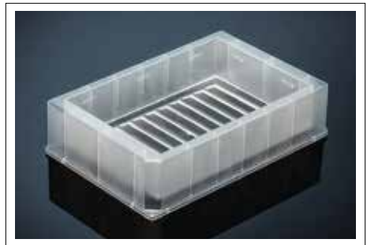
Deep Well PP Reservoir, 73mL/column, 292mL max, Height: 44mm, Well Bottom Shape: Pyramid

PRODUCT TIP: Our polypropylene reservoirs and collection plates can be irradiated and/or SiliGuard™ treated. Call for details.



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

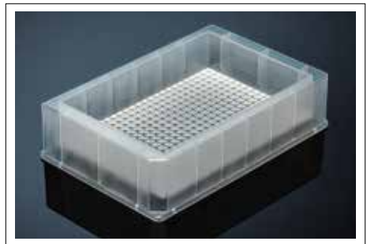
Half Height PP Reservoir, no partitions,170mL max, Height: 30.6mm, Column Shape: Pyramid

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

Reservoir/Collection Plate Lids

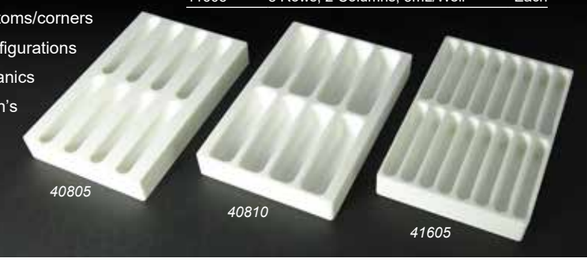
- Universal, 96-Well Robot Compatible

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

PTFE Reservoirs

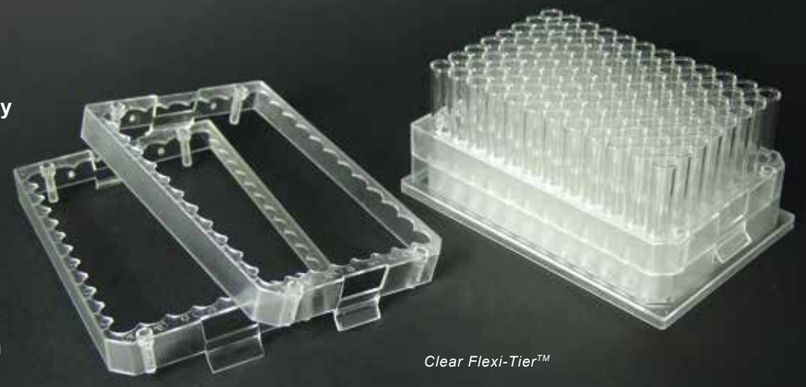
- Made from a solid PTFE block
- Precision machined wells, SBS compliant
- Wells have rounded bottoms/corners
- Choice of three well configurations
- Ideal for aggressive organics
- Enables your automation's full pipetting potential/ efficiency
- Reusable when used with clean solvents (no analytes, etc)

Cat. No.	Description	Qty
40805	4 Rows, 2 Columns, 5mL/Well	Each
40810	4 Rows, 2 Columns, 10mL/Well	Each
41605	8 Rows, 2 Columns, 5mL/Well	Each

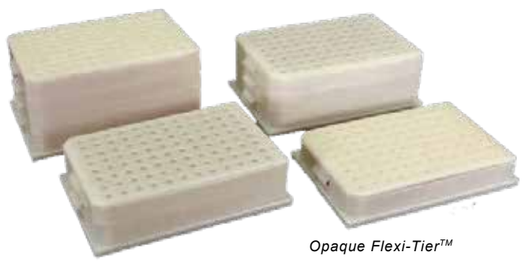


Flexi-Tier™

- 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



Clear Flexi-Tier™



Opaque Flexi-Tier™

Compatible with all autosampler & robotic systems

96-Position Flexi-Tier™ Complete Opaque Systems*

Heat Resistance up to 80ºC

See **Aluminum Bases** for low temperature (-20º to -80ºC) applications

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
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 150ºC

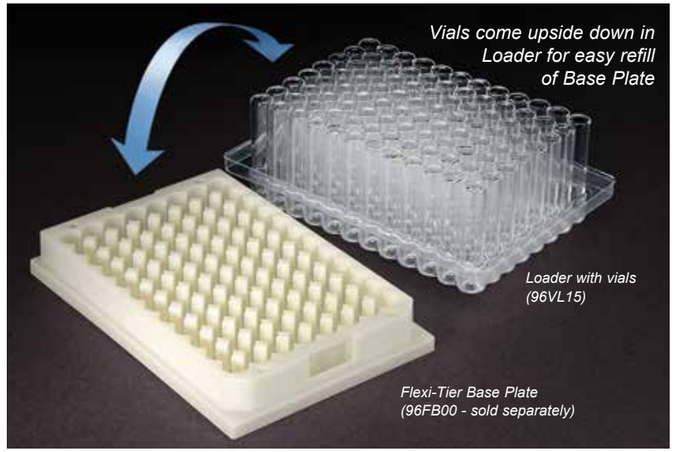
See **Aluminum Bases** for low temperature (-20º to -80ºC) applications

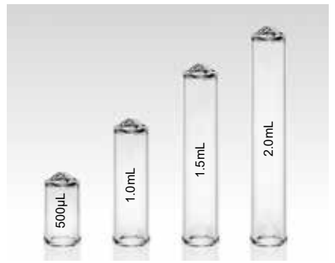
Cat. No.	Size	Material & Style	Base	Qty
96FP05-C	0.5mL	Clear Conical Glass	Clear	Each
96FP10-C	1.0mL	Clear Conical Glass	Clear	Each
96FP15-C	1.5mL	Clear Conical Glass	Clear	Each
96F220-C	2.0mL	Clear Conical Glass	Clear	Each
96F220A-C	2.0mL	Amber Conical Glass	Clear	Each
96BB05-C	0.5mL	Clear Flat Bottom 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-Slit PTFE/Silicone Flat Liner (96FSC1) and Cover.**

PRODUCT NOTE:

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.

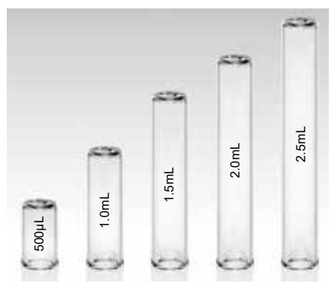




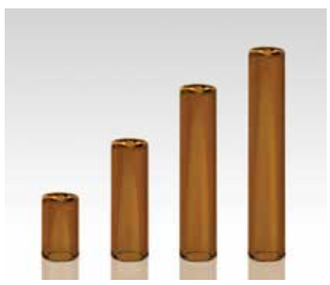
Conical Bottom Clear Glass Vials

Conical Bottom Amber Glass Vials

***Note:** for comparison only - sizes are NOT printed on vials.*



Flat Bottom Clear Glass Vials



Flat Bottom Amber Glass Vials

Glass Inserts in Loader

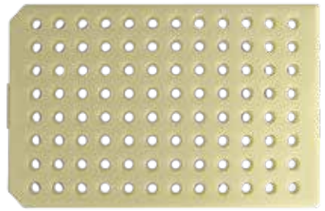
Cat. No.	Type	Style	Volume	Qty
96FV05	Conical	Clear	0.5mL	96
96FV10	Conical	Clear	1.0mL	96
96FV15	Conical	Clear	1.5mL	96
96FV20	Conical	Clear	2.0mL	96
96FV05A	Conical	Amber	0.5mL	96
96FV10A	Conical	Amber	1.0mL	96
96FV15A	Conical	Amber	1.5mL	96
96FV20A	Conical	Amber	2.0mL	96
96VL05	Flat Bottom	Clear	0.5mL	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

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

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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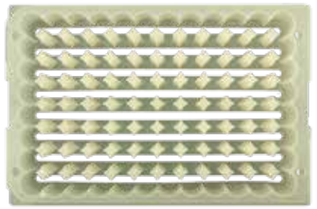
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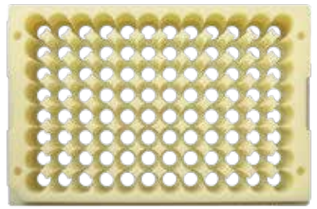
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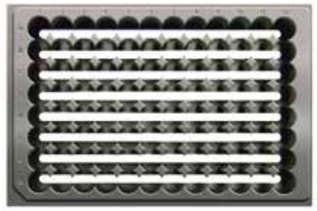

96AB11

96AB74

96AB22

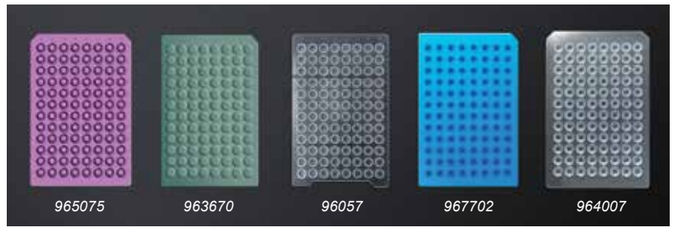
Advantage™ 96-Well Aluminum Base Plates

- 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



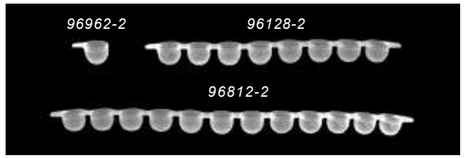
Cap Mats For Flexi-Tier & Aluminum Collection Systems

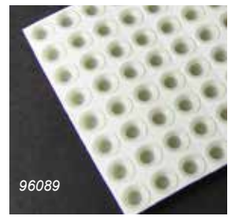
Cat. No.	Description	Qty
965007	Ultra Thin Round Well, Soft Silicone/PTFE, Purple	5
965075	***Pre-Slit*** Ultra Thin Round Well, Soft Silicone/PTFE, Purple	5
963675	Round Well, Silicone/PTFE, Green	5
963670	***Pre-Slit*** Round Well, Silicone/PTFE, Green	5
96057	1mL Autosampler Compatible Round Cap Mat, PP 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-Slit*** Molded PTFE/Silicone Liner, White	5
96FSC3STRIP	***Pre-Slit*** Molded PTFE/Silicone 8 Position Strip Liner	12
96FSC3PLUG	***Pre-Slit*** 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





TPE Plugs on 96 Well Spine

For Standard Round Well Collection Plates and 8x30mm Vial Inserts

Cat. No.	Description	Qty
96077	Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials, Purple	5
96089	Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials, Natural	5

Advantage™ 96-Well Aluminum Collection System for High Throughput

Conforms to SLAS

- **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

Loose & Assembled 0.7mL Tapered/Flat Bottom Inserts

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

96305 *96837*

Loose & Assembled 0.7mL Tapered/Round Bottom Inserts

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

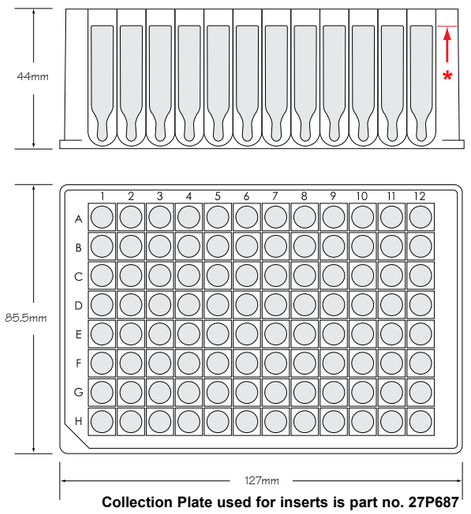
96687

PRODUCT NOTE:

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 Inserts - *Silanized*

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

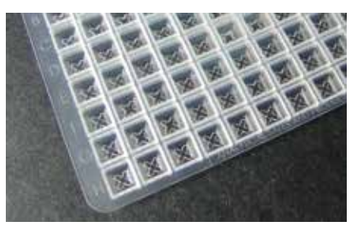


Collection Plate used for inserts is part no. 27P687

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



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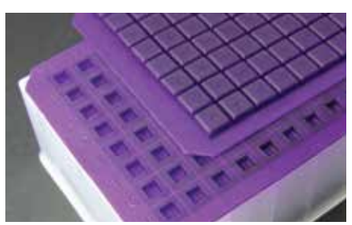
964085



965085

Loose & Assembled 1mL Tapered/Flat Bottom Inserts

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

96405 *96847*

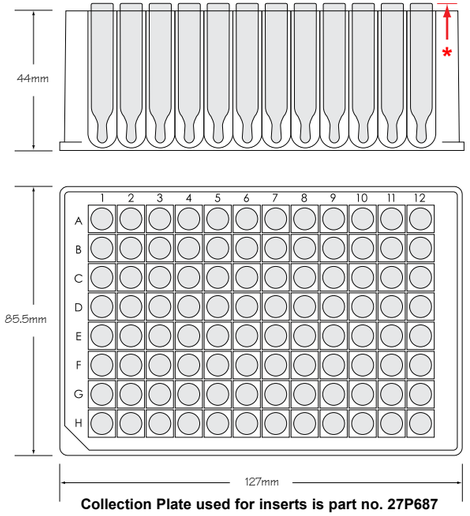
Loose & Assembled 1mL Tapered/Round Bottom Inserts

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

961879

Loose & Assembled 1mL Inserts - *Silanized*

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

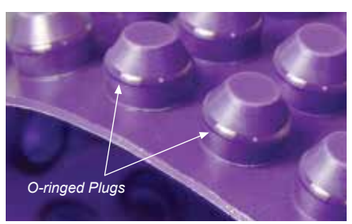


Collection Plate used for inserts is part no. 27P687

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



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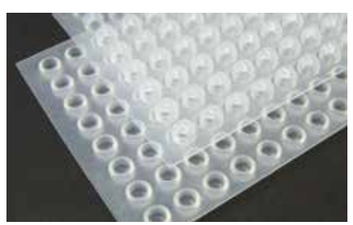

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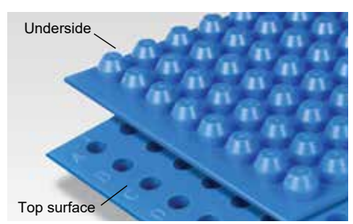
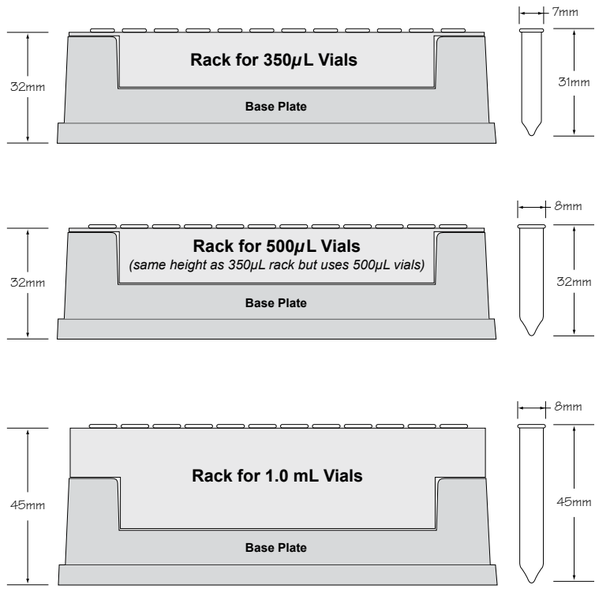


99890

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

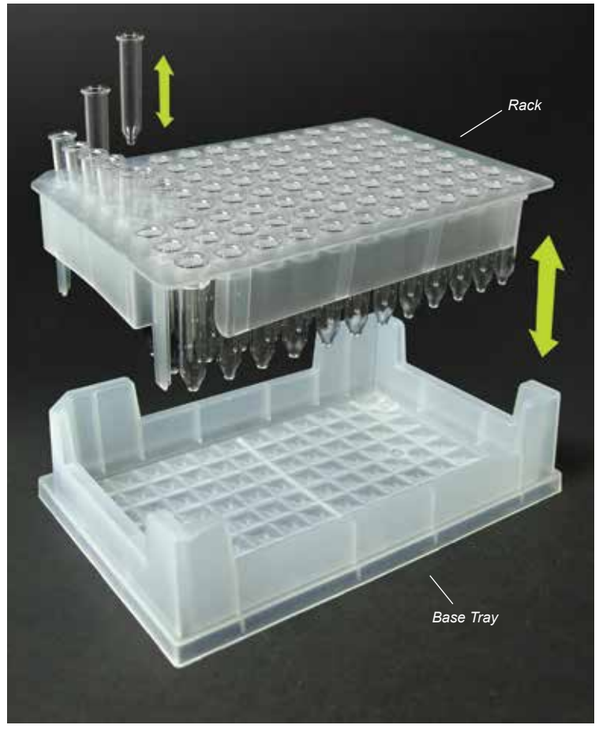
Cat. No.	Description	Qty
27350	350µL Clear Conical Glass Inserts in Rack and Base Tray	Each
27350S	350µL ***Silanized*** Conical Glass Inserts in Rack and Base Tray	Each
27500	500µL Clear Conical Glass Inserts in Rack and Base Tray	Each
27500S	500µL ***Silanized*** Conical Glass Inserts in Rack and Base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

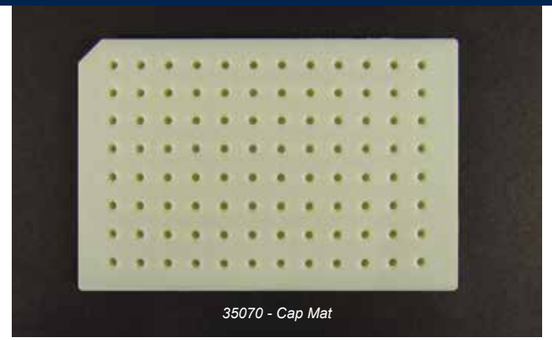
Assembled Glass Inserts in Racks Only

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

PRODUCT NOTE:

We have also have the capability to Silanize all of our glass products

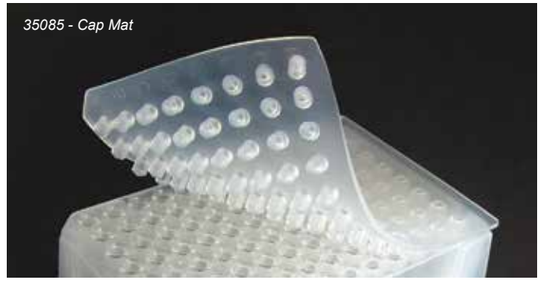




Beige Rubber Cap Mats for Select-A-Vial

For 350µL Vials

Cat. No.	Description	Qty
35070	Rubber Cap Mat for 350µL Conical Inserts	5
35075	***Pre-Slit*** Rubber Cap Mat for 350µL Conical Inserts	5



Pre-slit Silicone/PTFE Cap Mats for Select-A-Vial

For 350µL Vials

Cat. No.	Description	Qty
35080	Silicone/PTFE Cap Mat for 350µL Conical Inserts	5
35085	***Pre-Slit*** Silicone/PTFE Cap Mat for 350µL Conical Inserts	5

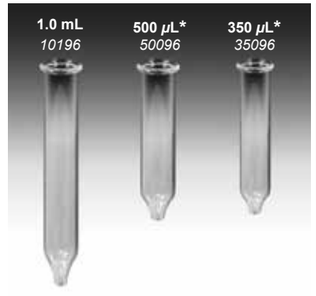
Base Tray

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

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



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

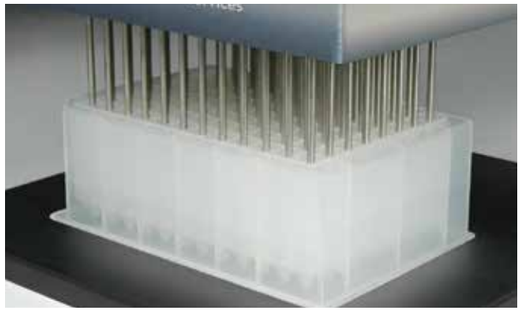
PRODUCT NOTE:

Requires regulated air supply set between 80-110 psi

EquaVAP® 96-Well Blowdown Evaporators - for Collection Plates

Rapidly evaporates common organic solvents

- **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 or air supply with a standard socket
- **Small Footprint (8" base)** -
  Fits into small glove boxes & standard fume hoods



96-Well EquaVAP Evaporator

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

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

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

*Individual results may vary

Collection Plates Accessories
EquaVAP® Blowdown Evaporators

EquaVAP® 24, 54 and 384-Well Blowdown Evaporators - for Collection Plates

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
23024-18	EquaVAP 24-Well Evaporator for Polypropylene Collection Plates, 18mm

384-Well EquaVAP Evaporator

- *Use with 384-well* **polypropylene collection plates**

Cat. No.	Description
23384	EquaVAP 384-Well Evaporator for 384-well Polypropylene Collection Plates

54-Well EquaVAP Evaporator

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

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

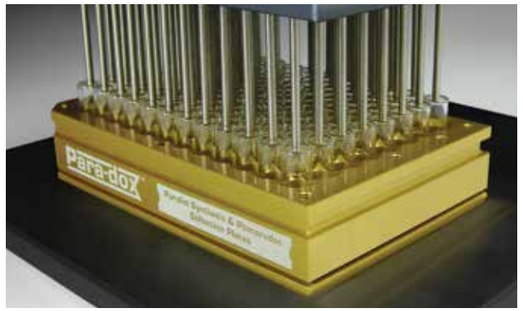
PRODUCT NOTE:

Requires regulated air supply set between 80-110 psi

EquaVAP® 96-Well Blowdown Evaporators - for Reaction Blocks

Rapidly evaporates common organic solvents

- **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 or air supply with a standard socket
- **Small Footprint (8" base)** -
  Fits into small glove boxes & standard fume hoods



96-Well EquaVAP Evaporator

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

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

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

*Individual results may vary

Collection Plates Accessories
EquaVAP® Blowdown Evaporators

EquaVAP® 48 and 24-Well Blowdown Evaporators - for Reaction Blocks

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

A 12-Well EquaVAP is Now Available - Call for Details

24-Well EquaVAP for 9mm Vial Spacing

- *Use with 24-well optimization blocks with 9mm vial spacing*
- *24-well block fits into 96-well footprint with use of rack adapter (24245)*

Cat. No.	Description
23024-09	EquaVAP 24-Well Evaporator for 24-Well Reaction Blocks with 9mm Vial Spacing

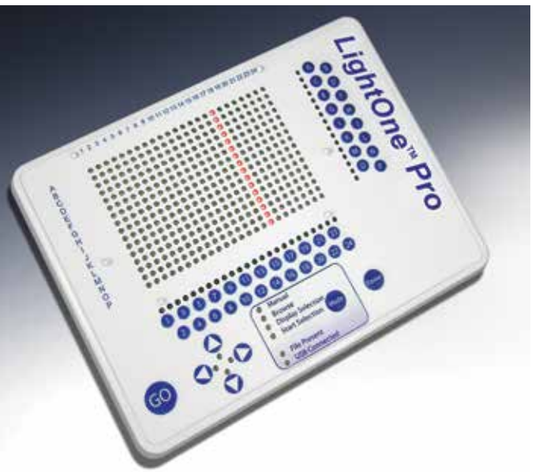
24-Well EquaVAP Evaporator (20mm)

- *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 Evaporator for 24-Well Reaction Blocks with 20mm Spacing

LOR-96FT

LOI-96FT



Light up your 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.

LightOne™ Red

- ***For Real Time PCR***
- ***Selective illumination to accommodate light sensitive reagents***
- ***No bleaching of fluorescent dyes***

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

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

LightOne™ Pro Illuminator

- ***384-Well or 96-Well***
- ***Use USB port for downloading templates and customized files for cherry picking***

The LightOne™ Pro includes:
- LightOne Pro unit
- Foot pedal
- 96-well silicone adapter mat

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

ViewOne™ Lablite

- ***Highlight your collection plate or petri dish samples***
- ***Features three light intensities: Low, Medium and High!***

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

ViewOne Indexer

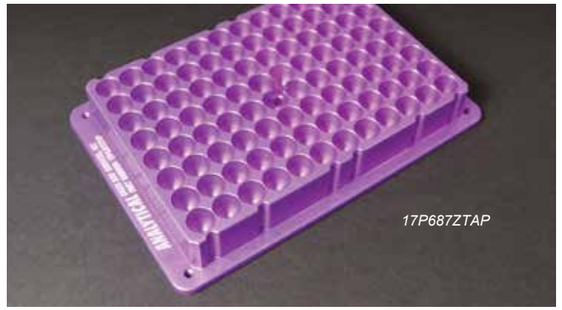
Features three light intensities:

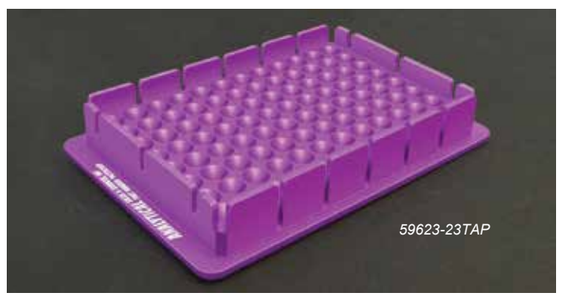
Low, **Medium** & **High**!

Includes:
- **ViewOne Lablite**
- **15º Stand**
- **25º Stand**
- **(2) 96-Well Template Transparencies**

Provides illumination of your 96-well plates. Includes a transparent template to help you keep track of individual samples.

Cat. No.	Description
56411	ViewOne Indexer



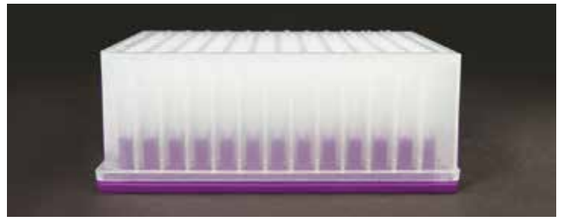


Thermal Adapter Plates

- **For improved temperature transfer to samples**
- **For use with matching polypropylene collection plates**

Our Thermal Adapter Plates conform to the well shape of their complementing polypropylene collection plate. They ensure uniform thermal transfer for heating and cooling when used in conjunction with a heating block or chiller (not included). The plate features a SLAS footprint and easy to identify purple anodized coating.

Analytical can make Thermal Adapter Plates to accommodate any shape and style polypropylene collection plate we offer. Please call 973-616-0700 for more information.



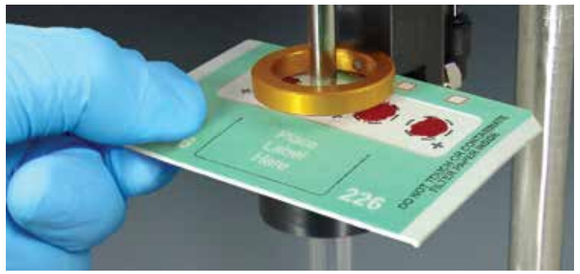
Thermal Adapter Plates

Cat. No.	Description	Qty
967720TAP	Thermal Adapter Plate for 967720 PP Collection Plate	Each
967720	2mL Round Well/Round Bottom 96-Well Collection Plate	25
59623-23TAP	Thermal Adapter Plate for 59623-23 PP Collection Plate	Each
59623-23	2mL Round Well/V-Bottom 96-Well Collection Plate	25
968810TAP	Thermal Adapter Plate for 1mL Truetaper® Collection Plate	Each
968810	1mL TrueTaper® Collection Plate	25
968820TAP	Thermal Adapter Plate for 2mL Truetaper® Collection Plate	Each
968820	2mL TrueTaper® Collection Plate	25
17P687ZTAP	Thermal Adapter Plate for 17P687Z PP Collection Plate	Each
17P687Z	1mL 17P687Z PP Collection Plate	25
38200TAP	Thermal Adapter Plate for 38200 PP Collection Plate	Each
38200	200µL 384-Well PP Collection Plate	24
FLATTAP	Thermal Adapter Plate for Flat-Bottom Collection Plates	Each
TAPSCREW	18-8 SS Hex Drive Screw, Length: 1″, Thread Size: 6-32	100
TAPWASH	Cadmium-Plated Steel Mil. Spec. Washers	200

DBS Dried Blood Spot 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.

- **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**
- **3mm, 4mm, 5mm and 6mm Punch Sizes Available**

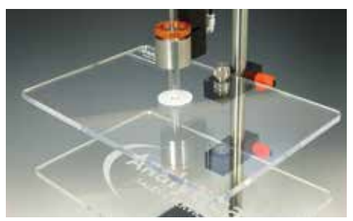


Punch Size	Complete System[1]	Pod Only[2]	Replacement Cutters[3]	Replacement Glass Pipette
3 mm	327300	327301	327903	327888
4 mm	327400	327401	327904	
5 mm	327500	327501	327905	
6 mm	327600	327601	327906	

(1) Includes: Punch Pod Assembly, Base stand with Shelf, Foot Pneumatics and Tubing
(2) Includes: Foot Pneumatics and Tubing
(3) Cannot be interchanged between Punch Pod sizes.

El Baidouri Shield

The El Baidouri Shield is an anti-contamination barrier which can be used when performing highly sensitive work, such as infectious disease research. The shield prevents micro punch-card particles (which may be ejected during operation) from potentially falling into adjacent wells, resulting in undesirable cross-contamination.



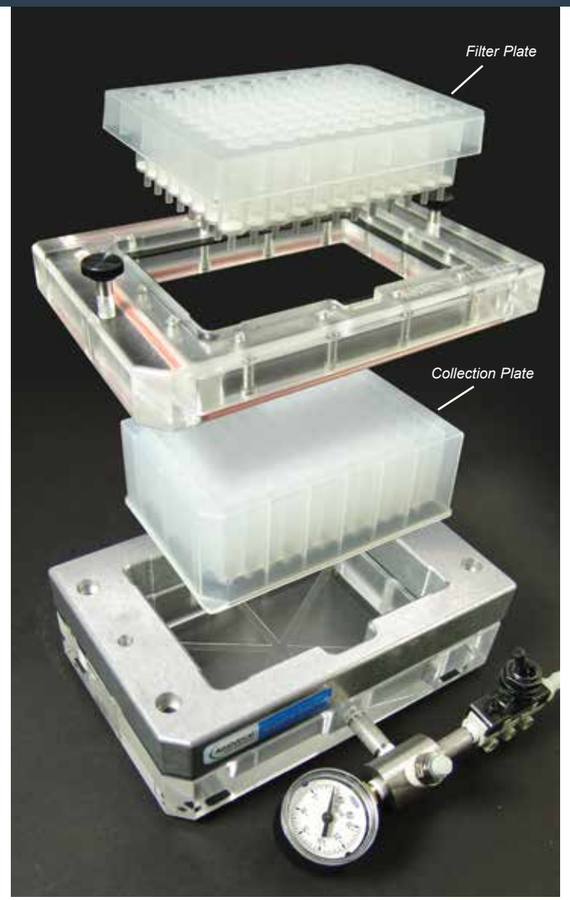
Cat. No.	Description
327970	El Baidouri Shield

Operation requires air supply, set between 90-110 psi.

End to End Micro Pipettes with Anticoagulant

- Micro sampling allows for more time points from animals

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



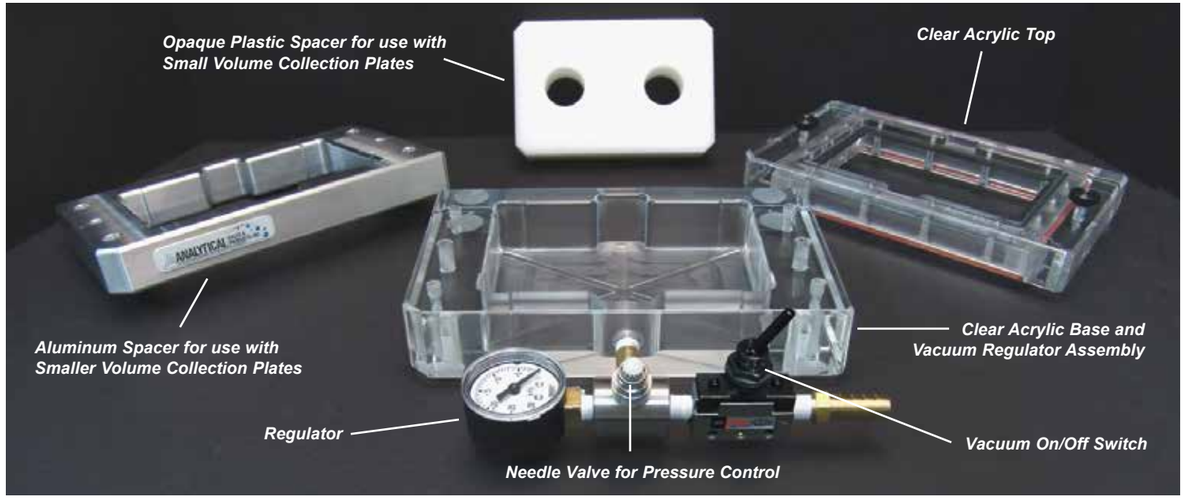
Vacuum Manifold Filtration System

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

The Vacuum Manifold Filtration System allows you to collect into any storage plate (including low volume collection plates). 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
96844	Vacuum Manifold Filtration System for SPE Sample Filtration



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.

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**

Implementation in a new or existing assay couldn't be easier!

Example Protocol for the Advantage™ Protein Precipitation Filter Plates:

Add desired organic solvent (typically 3 x sample volume).

Add sample (unknown, Std, QC, etc).

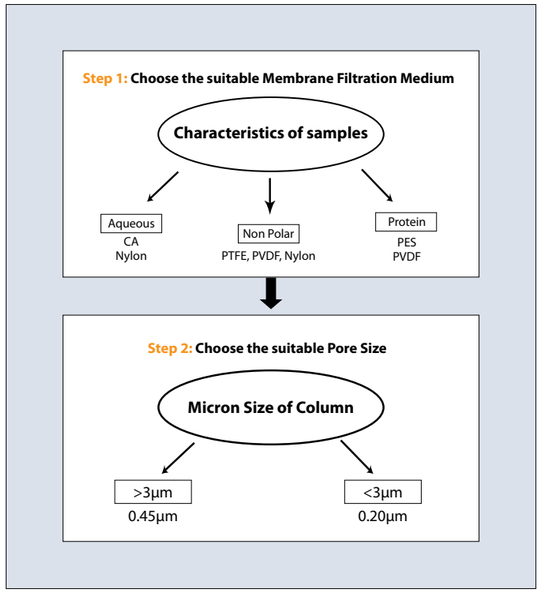
Cover Filter Plate and Vortex.

Draw liquid through filter via Centrifugation. Vortex again for 1 minute.

You can also filter via vacuum. Extract samples with our 96 position Vacuum Manifold.

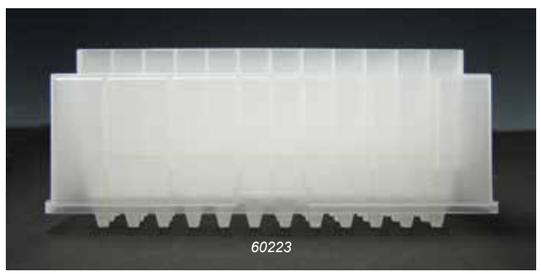
NOTE: Each well can hold up to 1.0 mL of liquid above the filter.
ACN or MeOH will not break through our filter plates for hours.

When covering the filter plate we recommend using our Silicone/PTFE cap mat (#965007) or sealing film (#961801). See pages 5 and 7.



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.

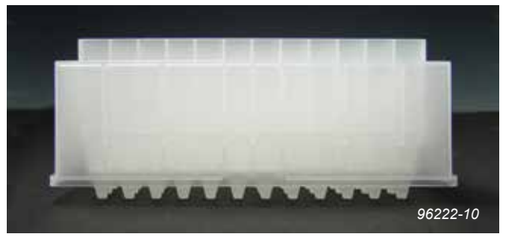


Advantage™ 2mL 96-Well Protein Crash Plates

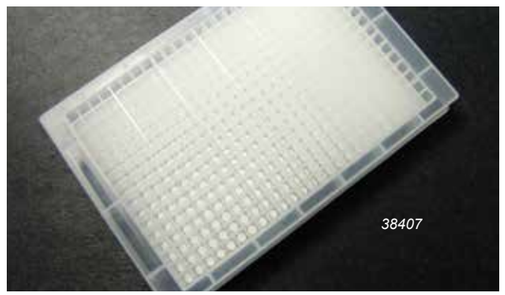
Cat. No.	Description	Qty
60223	2mL, 96-Well Plate w/ Grated Screen	1
60223-5	2mL, 96-Well Plate w/ Grated Screen	5
60223-10	2mL, 96-Well Plate w/ Grated Screen	10
60223-25	2mL, 96-Well Plate w/ Grated Screen	25

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
964PP20	400µL Hydrophobic PP, 0.20µm, Long Drip	25
964PP45	400µL Hydrophobic PP, 0.45µm	25
96045	800µL Hydrophobic PP, 0.45µm, Long Drip	25
968PV20	800µL PVDF, 0.20µm	25
96232-10	2mL Filter Plate, 0.20µm PTFE Membrane	10
960985	300µL 96-Well Glass Membrane Filter Plates, 1.0µm	50
960400	400µL 96-Well Glass Membrane Filter Plates, 1.0µm	25



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
384451	384-Well Filter Plates, 140µL, PVDF, .45µm	10

General Filtration 96-well Filter Plates

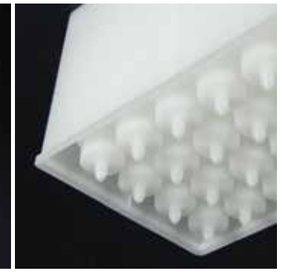
- **After SPE**
- **Dilute and Shoot**
- **Use prior to LCMS and Microarraying**
- **Filtration of Tissue Culture Media, Antibiotics, Alcohols and protein Solutions**

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

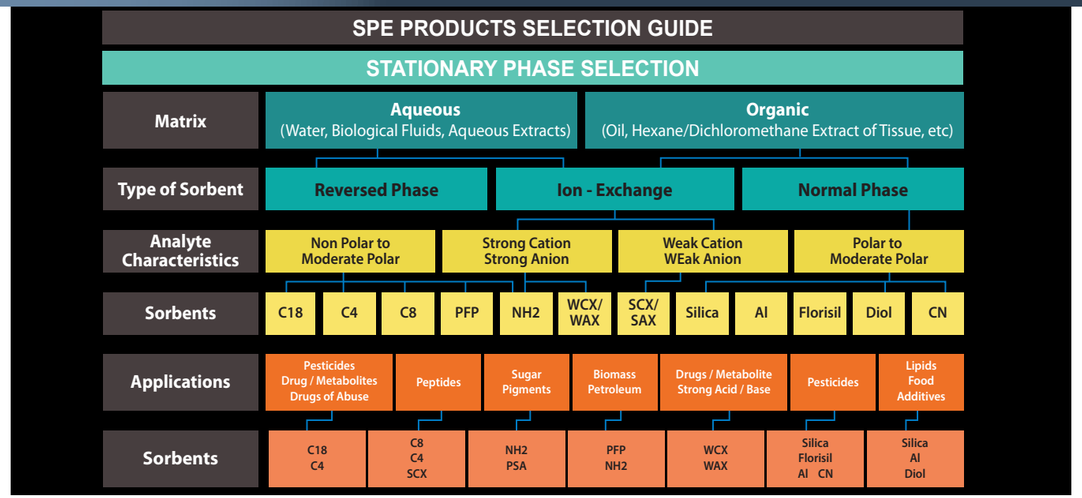


24-well Filter Plates

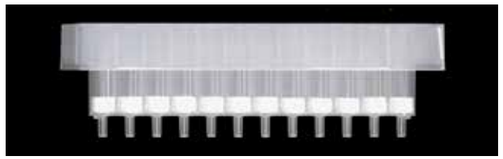
Cat. No.	Description	Qty
24152	24 Well Filter Plate, PE 25µm, 15mL	15
24465	24-Well Filter Plate, 0.2µm PVDF Membrane, 10mL/well, Long Drip	25
24463	24-Well Filter Plate, 0.45µm PVDF Membrane, 10mL/well, Long Drip	25
24469	24-Well Filter Plate, 0.2µm PES Membrane, 10mL/well, Long Drip	25
24467	24-Well Filter Plate, 0.45µm PES Membrane, 10mL/well, Long Drip	25
24171	24-Well Filter Plate, 25µm PE Membrane, 10mL/well, Long Drip	25
241010	24 Well Filter Plate, 10µm Hydrophobic PP, 15mL Volume	25

Molecular Weight Cut-off (MWCO) Filter Plates

Cat. No.	Description	Qty
964014	400µL 96-Well MWCO Filter Plate with 10KDa PES Membrane	25
964016	400µL 96-Well MWCO Filter Plate with 30KDa PES Membrane	25
964097	400µL 96-Well MWCO Filter Plate with 100KDa PES Membrane	25
964099	400µL 96-Well MWCO Filter Plate with 300KDa PES Membrane	25
967101	750µL 96-Well MWCO Filter Plate with 100KDa PES Membrane	Each
967102	750µL 96-Well MWCO Filter Plate with 200KDa PES Membrane	Each
967103	750µL 96-Well MWCO Filter Plate with 300KDa PES Membrane	Each
967201	750µL 96-Well MWCO Filter Plate with 100KDa PVDF Membrane	Each
967202	750µL 96-Well MWCO Filter Plate with 200KDa PVDF Membrane	Each
967225	750µL 96-Well MWCO Filter Plate with 250KDa PVDF Membrane	Each
967205	750µL 96-Well MWCO Filter Plate with 500KDa PVDF Membrane	Each
967208	750µL 96-Well MWCO Filter Plate with 800KDa PVDF Membrane	Each



Advantage™ 96-Well Solid Phase Extraction Plates

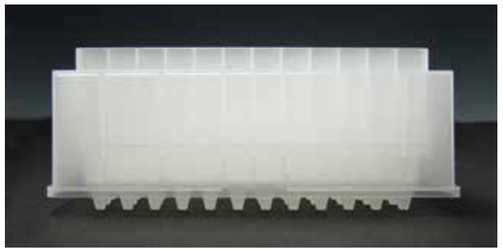


1.0mL 96-Well Extraction Plates

Our silica based sorbents resist occlusion by proteinaceous materials from samples. We combine size exclusion and absorption chromatography for better flow characteristics, enhanced detection and cleaner extracts. Each well is individually fritted.

C8

Cat. No.	Description	Qty
9610C825	C8, 1.0mL/25mg Bed	Each
9610C850	C8, 1.0mL/50mg Bed	Each
9610C8100	C8, 1.0mL/100mg Bed	Each
C18		
9610C1825	C18, 1.0mL/25mg Bed	Each
9610C1850	C18, 1.0mL/50mg Bed	Each
9610C18100	C18, 1.0mL/100mg Bed	Each
Silica		
9610Si25	Silica, 1.0mL/25mg Bed	Each
9610Si50	Silica, 1.0mL/50mg Bed	Each
9610Si100	Silica, 1.0mL/100mg Bed	Each
Amino (NH2)		
9610NH25	Amino, 1.0mL/25mg Bed	Each
9610NH50	Amino, 1.0mL/50mg Bed	Each
9610NH100	Amino, 1.0mL/100mg Bed	Each
Strong Anion Exchanger (SAX)		
9610SAX25	SAX, 1.0mL/25mg Bed	Each
9610SAX50	SAX, 1.0mL/50mg Bed	Each
9610SAX100	SAX, 1.0mL/100mg Bed	Each
Strong Cation Exchanger (SCX)		
9610SCX25	SCX, 1.0mL/25mg Bed	Each
9610SCX50	SCX, 1.0mL/50mg Bed	Each
9610SCX100	SCX, 1.0mL/100mg Bed	Each



2.0mL 96-Well Extraction Plates

Our 2.2mL/well SPE plates are made from medical grade virgin polypropylene and have a standard footprint. Each well is individually fritted and has a larger exit diameter to enable faster flow rate.

Applications: Samples prepared in solid-phase extraction in drug development, drug analysis and pharmacokinetics.

C8

Cat. No.	Description	Qty
9620C850	C8, 2.0mL/50mg Bed	Each
9620C8100	C8, 2.0mL/100mg Bed	Each
C18		
9620C1850	C18, 2.0mL/50mg Bed	Each
9620C18100	C18, 2.0mL/100mg Bed	Each
Silica		
9620Si50	Silica, 2.0mL/50mg Bed	Each
9620Si100	Silica, 2.0mL/100mg Bed	Each
Amino (NH2)		
9620NH50	Amino, 2.0mL/50mg Bed	Each
9620NH100	Amino, 2.0mL/100mg Bed	Each
Strong Anion Exchange (SAX)		
9620SAX50	SAX, 2.0mL/50mg Bed	Each
9620SAX100	SAX, 2.0mL/100mg Bed	Each
Strong Cation Exchange (SCX)		
9620SCX50	SCX, 2.0mL/50mg Bed	Each
9620SCX100	SCX, 2.0mL/100mg Bed	Each

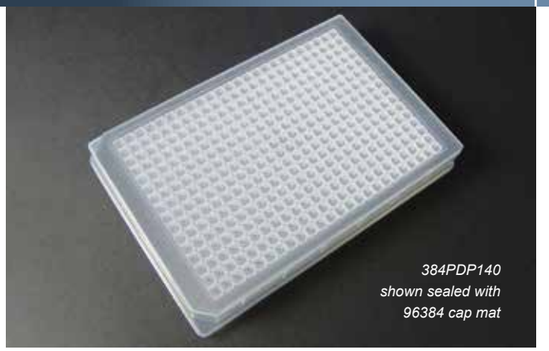
384-Well Protein Desalting Plate

- **Removes salts and buffers for downstream application prior to MS analysis**
- **384-Well plate with size exclusion resin**
- **Removes urea and other salts from protein samples**
- **High-throughput format allows simultaneous handling of 384 samples for desalting proteins by centrifugation**

Experimental Data:

Protein recovery was >85% and desalting efficiency was >99% (5-20 L of 1 mg/ml BSA containing 1M NaCl was loaded). When loading 5L sample, adding 10-15L stacker of buffer/water is required for better protein recovery.

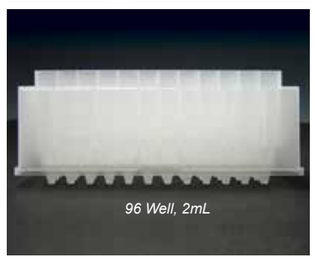
Cat. No.	Description	Qty
384DP140	384-Well Protein Desalting Plate. Comes sealed on top and bottom, includes additional collection plate	Each

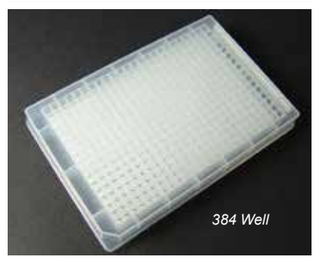


384-Well Peptide Desalting Plate

- **For peptide clean-up, works great for preparing peptide samples for mass spectrometry analysis**
- **384-well plate with proprietary resin**
- **Works for both hydrophilic and hydrophobic peptides**
- **Removes urea and other salts from peptide samples with high recovery**
- **High-throughput format allows simultaneous handling of 384 samples for peptide desalting with the use of centrifugation**

Cat. No.	Description	Qty
384PDP140	384-Well Peptide Desalting Plate. Comes sealed with a 96384 cap mat, receiver plate not included.	Each





POLY DVB SPE Filter Plates

- **Polymeric SPE**
- **pH 1-14**
- **Provides both hydrophobic and hydrophilic retention**
- **High recoveries of small molecules**
- **Equivalent to Oasis HLB products**

Cat. No.	Description	Qty
2410200	Poly DVB SPE, 24 Well 10mL Filter Plate, 200mg/well	Each
2410300	Poly DVB SPE, 24 Well 10mL Filter Plate, 300mg/well	Each
961PD30	Poly DVB SPE, 1mL 96 Well Filter Plate, 30mg	Each
961PD50	Poly DVB SPE, 1mL 96 Well Filter Plate, 50mg	Each
961PD100	Poly DVB SPE, 1mL 96 Well Filter Plate, 100mg	Each
962PD030	Poly DVB SPE, 2mL 96 Well Filter Plate, 30mg	Each
962PD050	Poly DVB SPE, 2mL 96 Well Filter Plate, 50mg	Each
962PD100	Poly DVB SPE, 2mL 96 Well Filter Plate, 100mg	Each
384603	Poly DVB SPE, 384 Well Filter Plate, 3mg/well	Each
384610	Poly DVB SPE, 384 Well Filter Plate, 10mg/well	Each

Molecular Weight Cut-Off Centrifuge Filters

Nucleotide Concentration, 100,000 MWCO
For use in concentration of DNA and RNA with at least 200 base pairs. Retention of polynucleotides on ultra filter membranes is based on the base pair content, not the molecular weight of double or single stranded pieces.

Polymerized Chain Reaction Clean-Up, 30,000 MWCO
Useful for the removal of primers and salts from polymerized chain reaction samples. The DNA is concentrated (retained) on the ultra filter membrane, while salts and primers pass through the membrane.

Protein Removal of Concentration, 5,000 to 300,000 MWCO
Protein can be removed or concentrated by choosing the proper molecular weight cut – off ultra filter membrane. To retain a desired species on the membrane, choose a MWCO that is lower than the molecular weight of the protein of choice.

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	MWCO Micro Spin Filters, PES Membrane, 1K	100
8690-03	MWCO Micro Spin Filters, PES Membrane, 3K	100
8690-05	MWCO Micro Spin Filters, PES Membrane, 5K	100
8690-10	MWCO Micro Spin Filters, PES Membrane, 10K	100
8690-30	MWCO Micro Spin Filters, PES Membrane, 30K	100
8690-50	MWCO Micro Spin Filters, PES Membrane, 50K	100
8690-100	MWCO Micro Spin Filters, PES Membrane, 100K	100
8690-300	MWCO Micro Spin Filters, PES Membrane, 300K	100
7833-30	MWCO Micro Spin Filters, PVDF Membrane, 30K	100
7833-100	MWCO Micro Spin Filters, PVDF Membrane, 100K	100
7833-250	MWCO Micro Spin Filters, PVDF Membrane, 250K	100

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, Hydrophobic	100
8506-00	0.20µm PVDF, Hydrophobic	100
8508-00	0.45µm Polysulfone	100
8509-00	0.20µm Polysulfone	100
8515-00	0.45µm Polypropylene, Hydrophilic	100
8512-00	0.20µm Polypropylene. Hydrophilic	100
8514-00	0.45µm PTFE	100
8513-00	0.20µm PTFE	100

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

Molecular Weight Cut-off (MWCO) filters – No return or refund policy

Due to the nature of this product's usage no returns or refunds can be offered. Samples may be available upon request. If applicable, customers may have to cover international shipping costs.

Analytical Sales and Services, Inc. can only provide assistance in the practical workflow/usage for MWCO products *(see www.analytical-sales.com/manuals/MWCO_Filters_Supplemental_Info_rev1e.pdf)*. No specific application support is available.

12 Position Vacuum Manifold shown here

Complete Systems

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

Vacuum Manifolds for Solid Phase Extraction, Elution & Filtration Columns

The manifold consists of a clear glass chamber and plastic top to which vacuum is applied. The top is fitted with 12, 16, or 24 female luer connectors to accommodate 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.

PRODUCT NOTE:

Vacuum Manifold Systems come with adjustable collection racks to accommodate several different sizes of vials and test tubes. For replacement parts and accessories please visit our website.

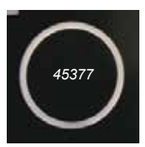
Complete Vacuum Filter Systems
- Comes in 1 liter, 2 liter or inline systems
- Uses O-ring for secure closure
- Easy set up and clean up
- Made of durable polypropylene
- Great for small or large volumes

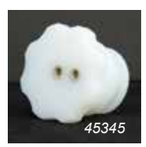
Cat. No.	Description
45531	1L Filter Funnel System - Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, SS Vacuum Port), Filter Retainer Ring, 1L Funnel, SS Filter Support, Adapter Kit
45532	2L Filter Funnel System - Includes: Manifold (w/ O-ring, GL-45 Cap, 53B Cap, SS Vacuum Port), Filter Retainer Ring, 2L Funnel, SS Filter Support, Adapter Kit
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
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
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
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

Replacement Parts & Accessories

Cat. No.	Description	Qty
45377	Filter Retainer Ring	Ea
45311	1 Liter Funnel	Ea
45322	2 Liter Funnel	Ea
45373	SS Filter Support	Ea
45390	PEEK Filter Support	Ea

Cat. No.	Description	Qty
45388	Silicone Rubber O-ring	Ea
45389	Viton® Rubber O-ring	Ea
45325	Adapter Kit	Ea
45345	Inline Filter Adapter Cap with PEEK™ Port	Ea





Para-dox® Aluminum Reaction Blocks

For Photoredox Catalysis and Parallel Synthesis Applications

A successful approach to high-throughput reaction screening requires the best tools available. Our comprehensive line of Photoredox Catalysis and Parallel Synthesis reaction blocks are exactly what you need. Designed specifically for high-throughput screening (HTS) applications, the SBS (SLAS/ANSI) format allows for use in any industry standard automation application.

- **Useful for generating compound arrays (medicinal chemistry)**
- **Useful for conducting screening reaction conditions**
- **Can be used on tumble stirrers / hot plate stirrers / robotic platforms**
- **Can easily be used in a glovebox**
- **Temperature range -78ºC – 150ºC**
- **Validated to have less than 5% solvent loss with prolonged heating above boiling point**
- **Silicone Rubber Mats provide compression sealing**
- **Teflon® PFA Films keep the glass reaction vials from sticking to the silicone rubber mats during heating**

For 16x35mm (4mL) QUARTZ Vials

NEW!

1 Dram 24-Position
For QUARTZ Vials (cell/bio)
(18mm well spacing)

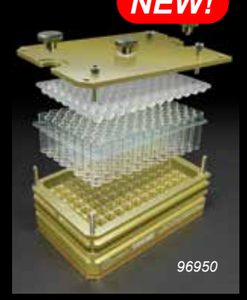
NEW!

1 Dram 24-Position
High Temperature Ceramic, For QUARTZ Vials

Page 60

For 8x30mm (1mL) Shell Vials

NEW!



Standard 96-Position
Radiochemistry
Block Assemblies

Page 61

For 4x21mm (50µL) Flat Bottom Glass Inserts

Page 52

Micro 24-Position
Photoredox Catalysis, Gen II

Micro 96-Position
Photoredox Catalysis, Gen II

** See page 63 for Vial Loader Trays*

For 8x30mm (1mL) Shell or Crimp Top Vials

Pages 53-55

Standard 96-Position
Photoredox Catalysis, Gen II

Standard 96-Position
Parallel Synthesis, Gen II

Standard 96-Position
Photoredox LIGHTWEIGHT

** See page 63 for Vial Loader Trays*

48-Position TCR
(page 50)

For 12x32mm (2mL) Crimp/Snap Vials

Page 56

HPLC 48-Position
Photoredox Catalysis, Gen II

HPLC 48-Position
Parallel Synthesis, Gen II

Standard 24-Position
Photoredox Catalysis, Gen II

Standard 24-Position
Parallel Synthesis, Gen II

For 15x45mm (4mL) Clear Glass Screw Vials

Page 57

1 Dram 24-Position
Photoredox Catalysis, Gen II
(18mm well spacing)

1 Dram 24-Position
Parallel Synthesis, Gen II
(18mm well spacing)

1 Dram 24-Position
Photoredox Catalysis, Gen II
w/ Temperature Transfer Cover

24-Position TCR
(page 51)

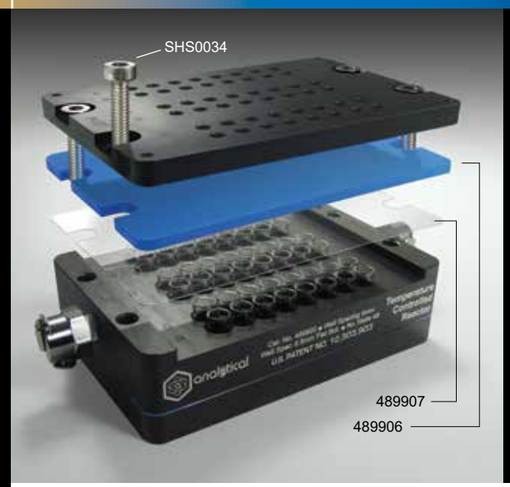
For 17x60mm (8mL) Clear Glass Screw Vials

Page 58

2 Dram 24-Position
Photoredox Catalysis, Gen II
(18mm well spacing)

2 Dram 24-Position
Parallel Synthesis, Gen II
(18mm well spacing)

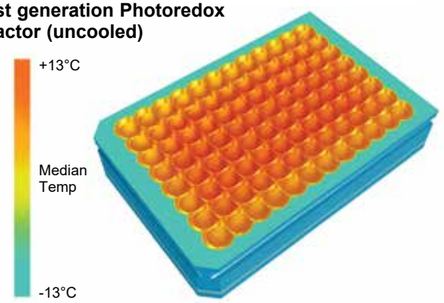
A Para-dox mini catalog is available as a printed hardcopy as well as a downloadable PDF on our website



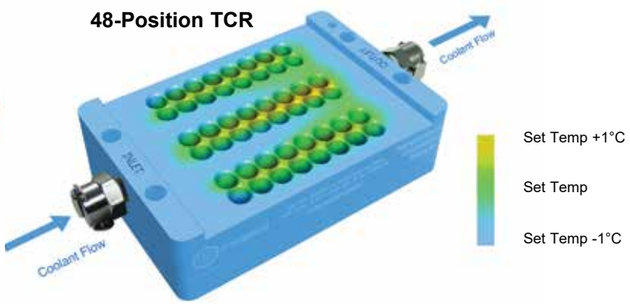
Temperature Controlled Reactors (TCR) for 8x30mm (1mL) and 15x45mm (1 Dram) Vials

- Provides extremely uniform thermal control for high throughput experimentation (HTE) with a temperature difference of +/- 1°C
- Capable of enhanced reproducibility in heating and cooling applications
- High quality leak-proof CPC fittings for quick and easy tubing connection and removal
- Compatible with a wide range of heat transfer fluids such as water (down to 5°C), ethylene glycol, polypropylene glycol and silicone-based fluids (ie SYLTHERM™)
- Designed to standard SLAS dimensions (127.75mm x 85.5mm)
- Compatible with auto-samplers and high throughput chemistry devices
- 4mm holes in lid allow for use with most common autosampler needles
- Threaded holes (6-32) in lid for accessory attachment

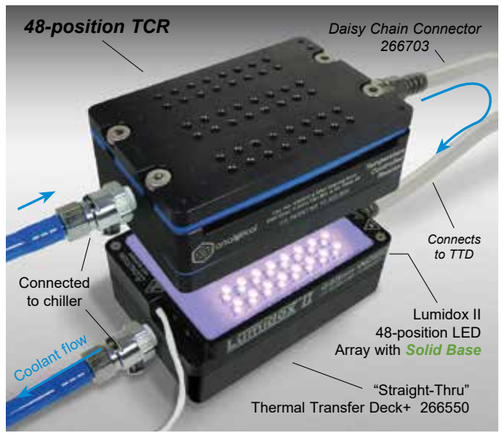
First generation Photoredox Reactor (uncooled)



48-Position TCR



Simulated heat maps of a standard 96-position Photoredox Reactor Block vs. a 48-position Temperature Controlled Reactor (TCR) when used with a Lumidox II 48 Position LED Array at full power (stage 5).



Typical configuration: 48-position TCR used in conjunction with a Lumidox II 48-position Solid Base LED Array, a "Straight-Thru" Thermal Transfer Deck+ (for additional cooling of array) and connected to an external liquid chiller.

48-Position Temperature Controlled Reactor

• For 8x30mm (1mL) Vials • 48 Wells (6 Rows of 8) • 9mm Well Spacing

Cat. No.	Description	Qty
489900	**48-position TCR.** Includes: PFA Film, Blue Fluorosilicone Sealing Mat, Rubber Gasket, Silicone O-Rings, CPC Fittings, PUR Tubing and Screws.	Each
489906	1/8" Thick, Blue Fluorosilicone Rubber Sealing Mats for TCR	5
489907	0.005" Thick PFA Sealing Films for TCR	25
489908	9mm OD, 6mm ID, 1.5mm Wide Silicone O-rings for TCR	50
SHS0034	SS Low-Profile Socket Head Screw w/ Hex Drive, 5/16"-18 Threads, 3/4" Long	5
84001-Case	**1mL** Clear Glass Shell Vials, 8 x 30mm	1000
488401	Vial Tray for TCR, Pre-loaded with 48 8x30 Shell Vials (84001-CASE)	Ea

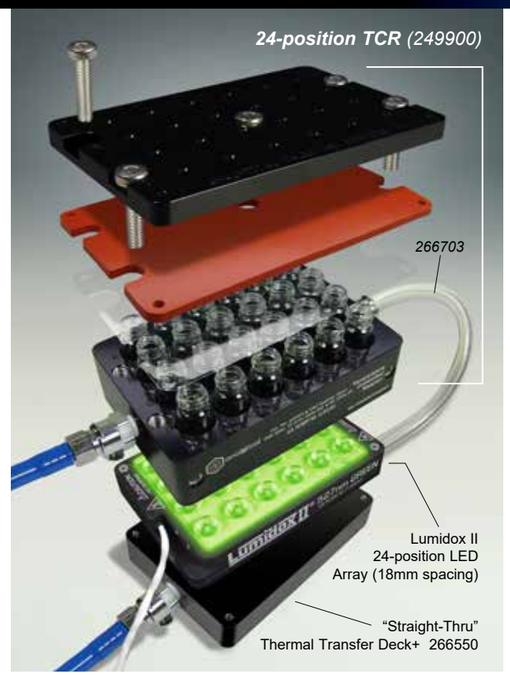
Solid Base Lumidox®II 48-position LED Array for TCR

• Lens Mat surface
• Requires Thermal Transfer Deck (TTD) connected to chiller

Cat. No.	Wavelength
LUM248LS365	UV365
LUM248LS375	UV375
LUM248LS385	UV385
LUM248LS395	UV395
LUM248LS405	UV405

Cat. No.	Wavelength
LUM248LS445	445-INDIGO
LUM248LS470	470-BLUE
LUM248LS505	505-CYAN
LUM248LS527	527-GREEN
LUM248LS590	590-AMBER
LUM248LS527	527-GREEN

Cat. No.	Wavelength
LUM248LS590	590-AMBER
LUM248LS630	630-RED
LUM248LS660	660-DEEP RED
LUM248LS730	730-IR
LUM248LS810	810-IR
LUM248LSWHT	WHITE



Screen & Scale-up with the Same Precision!

24-Position Temperature Controlled Reactor

• For 15x45mm (1 Dram) Vials
• 24 Wells (4 Rows of 6)
• 18mm Well Spacing

Cat. No.	Description	Qty
249900	**24-position TCR.** Includes: PFA Film, Silicone Rubber Sealing Mat, Rubber Gasket, CPC Fittings, PUR Tubing, Screws. *Vials not included.*	Each
101247	Top Rubber Mats for Gen II 24-Position Reactors (with 18mm Spacing)	25
101248	Top PFA Films for Gen II 24-Position Reactors (with 18mm Spacing)	25
SHS0114	Socket Head Screws for Gen II 24-Position Reactors, 5/16"-18 Threads, 1-1/4" Long	5
31531-Case	13mm, 15 x 45mm, 4mL (1 Dram) Clear Glass Screw Vials	1000
31554-Case	13mm Black PP Solid Screw Caps with PTFE/F217 Liners	1000

Lumidox®II 24-position LED Array with 18mm Spacing, Solid Base

• Lens Mat surface
• Requires Thermal Transfer Deck (TTD) connected to chiller

Cat. No.	Wavelength (nm)
LUM22418LS365	UV365
LUM22418LS375	UV375
LUM22418LS385	UV385
LUM22418LS395	UV395
LUM22418LS405	UV405
LUM22418LS420	420-VIOLET
LUM22418LS445	445-INDIGO
LUM22418LS470	470-BLUE

Cat. No.	Wavelength (nm)
LUM22418LS505	505-CYAN
LUM22418LS527	527-GREEN
LUM22418LS590	590-AMBER
LUM22418LS630	630-RED
LUM22418LS660	660-DEEP RED
LUM22418LS730	730-IR
LUM22418LS810	810-IR
LUM22418LSWHT	WHITE

24-Position TCR with Temperature Transfer Cover

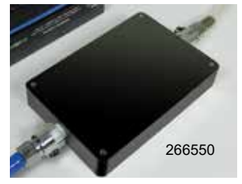
Perfect for those who prefer to cap their vials instead of sealing them with the standard aluminum lid, rubber mat and PFA film that come with the block assembly. When used in conjunction with a Thermal Transfer Deck+ (TTD+) and external liquid chiller, the cover helps control excessive heat generated by a Lumidox II LED array and also greatly reduces light bleed.

The cover is also available separately (249913) and can be used with other Para-dox® Gen II 24-position reactor blocks with18mm spacing.

Cat. No.	Description	Qty
249800	24-Position TCR with Temperature Transfer Cover	Each
249913	Temperature Transfer Cover for Gen II, 24-Position, 18mm Spacing Reactors	Each

Additional Required Parts

Cat. No.	Description	Qty
266550	Para-dox® "Straight-Thru" Thermal Transfer Deck (TTD)	Each
266703	Daisy Chain Connector for TCR and "Straight-Thru" TTD	Each
TCubeEdge	Recirculating Chiller. Operating Range: 0°C - 65°C	Each



Accessories

Cat. No.	Description	Qty
80310	8x3mm PTFE, Magnetic Stir Bar with Pivot Ring	10
803100	8x3mm PTFE, Magnetic Stir Bar with Pivot Ring	100

Tech Tip

- **Temperature Controlled Reactor (TCR)*** - cools vials
- **Thermal Transfer Deck (TTD)*** - cools LED Array (solid base)
- **LED Array with solid base** - needs TTD and chiller for cooling

* Connects to **External Liquid Chiller**, required

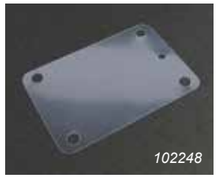
TECH NOTE:
Replace PFA Films with every use for best performance

Recommended for top performance!
Assembled 4x21mm Vials in Stackable Tray
- For easy loading - ***Saves Time!***
- ***Less Evaporation*** compared to loose vials

Cat. No.	Description
96342	Assembled Stackable Tray Loaded with 4x21mm Flat-Bottom Vials (10421-CASE), Includes Tray and Vials

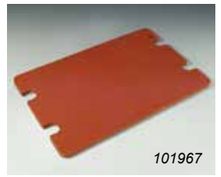
Micro 24-Position Photoredox Catalysis Aluminum Reaction Blocks, Gen II
For 4x21mm, 50µL Glass Inserts

Catalog No.	Description	Qty
107240	Gen II, 24 Position, 4-BOLT, Photoredox Reaction Block for 4x21mm (50µL) Vials, with 9mm Well Spacing	Each
107245	Bottom Rubber Mats for 107240, Gen II 24 Position Reactor (4x21mm vials, 9mm spacing)	25
102247	Top Rubber Mats for Gen II 24 Position Reactor (9mm spacing)	25
102248	Top PFA Films for Gen II 24 Position Reactor (9mm spacing)	25
SHS0058	10-24, 5/8" Long, SS Socket Head Screw	5



Micro 96-Position Photoredox Catalysis Aluminum Reaction Blocks, Gen II
For 4x21mm, 50µL Glass Inserts

Catalog No.	Description	Qty
103960	Gen II, 96 Position, 4-BOLT, Photoredox Reaction Block for 4x21mm (50µL) Vials, with 9mm Well Spacing	Each
103965	Bottom Rubber Mat for 103960, Gen II 96 Position Reactor (4x21mm vials, 9mm spacing)	Each
101967	Top Rubber Mats for Gen II 96-Position and 48-Position Reactors	25
101968	Top PFA Films for Gen II 96-Position and 48-Position Reactors	25
SHS0034	Socket Head Screws for Gen II 96-Position and 48-Position Reactors	5



Accessories

Cat. No.	Description	Qty
10421-Case	Micro Vials - **50µL** Flat Bottom Glass Inserts, 4x21mm	1000
13257	Magnetic Tumble Stir Bars, 1.32mm x 1.57mm (Fleas)	1000
13657	Drop Dispenser for 13257 Stir Bars, 96 Well Format	Each
710001	Adjustable Torque Screwdriver with 1/4" Hex Tip (2.5 to 11.5 in-lb.) *Only for 24 position, 9mm spacing block (#107240)*	Each
711001	Adjustable Torque Screwdriver with 1/4" Hex Tip (11 to 29 in-lb.)	Each

Standard 96-Position Photoredox Catalysis Aluminum Reaction Blocks, Gen II
for 1mL, 8x30mm Glass Inserts

Catalog No.	Description	Qty
101960	Gen II, 96 Position, 4-BOLT, Photoredox Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
101965	Bottom Rubber Mats for Gen II 96-Position Reactor (101960)	25
101964	Bottom PFA Film for Gen II 96-Position Reactor (101960)	Each

Standard 96-Position Parallel Synthesis Aluminum Reaction Blocks, Gen II
for 1mL, 8x30mm Glass Inserts

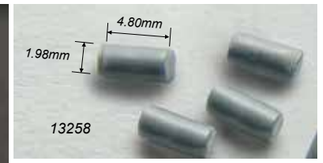
Catalog No.	Description	Qty
104960	Gen II, 96 Position, 4-BOLT, Parallel Synthesis Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
104965	Bottom Rubber Mats for Gen II 96 Position Reactor (104960)	25
104964	Bottom PFA Film for Gen II 96-Position Reactor (104960)	Each

Replacement Parts *(for photoredox AND parallel synthesis Gen II 96-position blocks)*

Catalog No.	Description	Qty
101967	Top Rubber Mats for Gen II 96-Position and 48-Position Reactors	25
101968	Top PFA Films for Gen II 96-Position and 48-Position Reactors	25
SHS0034	Socket Head Screws for Gen II 96-Position and 48-Position Reactors	5

Accessories

Cat. No.	Description	Qty
84001-Case	**1mL** Clear Glass Shell Vials, 8 x 30mm	1000
84008-Case	**800µL**, 8x30mm Crimp Top Vial, Flat Bottom	1000
13258	SS Cylinder Stir Bars, 1.98mm x 4.80mm *(for 8x30mm Vials)*	1000
13352	SS Cylinder Stir Bars, 1.60mm x 4.80mm *(for 8x30mm Vials)*	1000
13652	Drop Dispenser for 13352 Stir Bars, 96 Well Format	Each
711001	Adjustable Torque Screwdriver with 1/4" Hex Tip (11 to 29 in-lb.)	Each

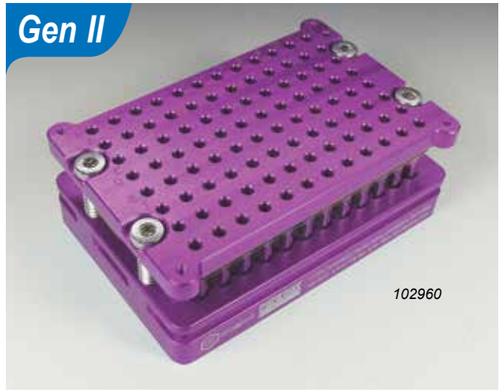


Parallel Synthesis vs. Photoredox Catalysis Reaction Blocks

Reactors for both applications are nearly identical. The difference lies in the base (vial rack) of the block. Reactors for parallel synthesis have wells with closed bottoms, whereas photoredox blocks have wells with open holes in the bottom allowing for light transmission via a **Lumidox®II Array,** as well as to read 2D barcodes.

Parallel Synthesis Block, Gen II

Photoredox Catalysis Block, Gen II



Standard 96-Position Photoredox LIGHTWEIGHT Reaction Block, Gen II for 1mL, 8x30mm Glass Inserts

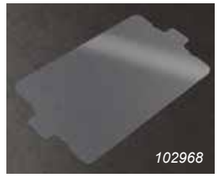
- 37% lighter than Gen II, 96-position standard 4-bolt reactor
- Great for use on a low-capacity balance with a 500g max limit
- Reduced weight allows for better centrifuge performance
- 9mm Well Spacing

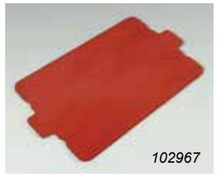
Catalog No.	Description	QTY
102960	Gen II, 4-Bolt, 96-Position LIGHTWEIGHT Photoredox Reaction Block for 1mL, 8x30mm Glass Inserts. Includes Vial Rack, Top Cover, PFA Sheet, Rubber Mats and Screws	Each
102968	Top PFA Films for Gen II LIGHTWEIGHT 96-Position Reactor (102960)	25
102967	Top Rubber Mats for Gen II LIGHTWEIGHT 96-Position Reactor (102960)	25
102965	Bottom Rubber Mat for Gen II LIGHTWEIGHT 96-Position Reactor (102960) - (two required per block)	Each
SHS0114	Socket Head Screws for Gen II 24-Position Reactors and 96-Position Lightweight Reactors	5

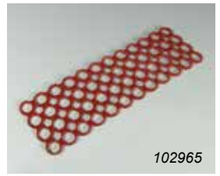
96-Position Reactor Assembly Weight*

Gen II, Lightweight (102960): 477.8g
- Base only, no lid or screws: 267.8g
Gen II, 4-Bolt (101960): 769.0g
Gen I, Original (96973): 536.0g

** Weight without vials. Adding vials will add ~ 131g.*







Accessories for 96 Position Reactors for 8x30mm Vials

8x30mm Vials

Cat. No.	Description	Qty
84001-Case	**1mL** Clear Glass Shell Vials, 8x30mm	1000
84008-Case	**800µL**, Clear Glass Crimp Top Vial, Flat Bottom, 8x30mm	1000

Barcoded 8x30mm Vial Inserts in Tray for 96-Well Blocks

Cat. No.	Description
9984001	Barcoded 8x30mm Vial Inserts in Tray for 96-Well Blocks

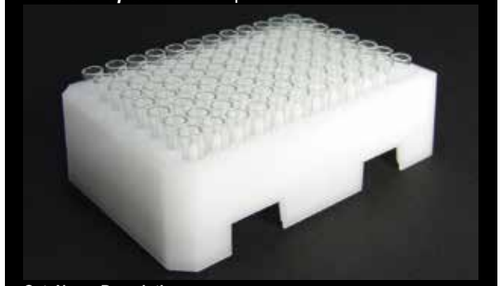
Plugs for 8x30mm Vials Inserts

Cat. No.	Description	Qty
96077	Pierceable TPE Plugs on 96 Well Spine, Individual, for Tubes/Vials, Purple	5
96089	Pierceable TPE Plugs on 96 Well Spine, Strips of 8, for Tubes/Vials, Natural	5

Recommended for top performance!

Assembled 8x30mm Vials in Stackable Tray

- For easy loading - ***Saves Time!***
- ***Less Evaporation*** compared to loose vials



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

Cat. No.	Description	Qty
13258	SS Cylinder Stir Bars, 1.98mm x 4.80mm *(for 8x30mm Vials)*	1000
13352	SS Cylinder Stir Bars, 1.60mm x 4.80mm *(for 8x30mm Vials)*	1000
13652	Drop Dispenser for 13352 Stir Bars, 96 Well Format	Each
711001	Adjustable Torque Screwdriver with 1/4" Hex Tip (11 to 29 in-lb.)	Ea

Standard 24-Position Photoredox Catalysis Aluminum Reaction Blocks, Gen II for 1mL, 8x30mm Glass Inserts

Catalog No.	Description	Qty
102240	Gen II, 24 Position, 4-BOLT, **Photoredox** Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
102245	Bottom Rubber Mats for 102240, Gen II 24 Position Reactor (8x30mm vials, 9mm spacing)	25

Standard 24-Position Parallel Synthesis Aluminum Reaction Blocks, Gen II for 1mL, 8x30mm Glass Inserts

Catalog No.	Description	Qty
105240	Gen II, 24 Position, 4-BOLT, **Parallel Synthesis** Reaction Block for 8x30mm (1mL) Vials, with 9mm Well Spacing	Each
105245	Bottom Rubber Mats for 105240, Gen II 24 Position Reactor (8x30mm vials, 9mm spacing, Closed)	25

Replacement Parts *(for photoredox AND parallel synthesis Gen II 24-position blocks)*

Catalog No.	Description	Qty
102247	Top Rubber Mats for Gen II 24 Position Reactors (with 9mm Spacing)	25
102248	Top PFA Films for Gen II 24 Position Reactors (with 9mm spacing)	25
SHS0058	10-24, 5/8" Long, SS Socket Head Screw	5

Gen II Rack Adapter for 24 Well, 9mm Spacing Gen II Reactors

(for photoredox AND parallel synthesis blocks)

Catalog No.	Description	Qty
102249	Gen II Rack Adapter for 24 Well, 9mm Spacing Gen II Reactors	Each

Accessories

Cat. No.	Description	Qty
84001-Case	**1mL** Clear Glass Shell Vials, 8 x 30mm	1000
84008-Case	**800µL**, 8x30mm Crimp Top Vial, Flat Bottom	1000
13258	SS Cylinder Stir Bars, 1.98mm x 4.80mm *(for 8x30mm Vials)*	1000
13352	SS Cylinder Stir Bars, 1.60mm x 4.80mm *(for 8x30mm Vials)*	1000
13652	Drop Dispenser for 13352 Stir Bars, 96 Well Format	Each
710001	Adjustable Torque Screwdriver with 1/4" Hex Tip (2.5 to 11.5 in-lb.) *Only for 24 position, 9mm spacing block*	Each

HPLC 48-Position Photoredox Catalysis Aluminum Reaction Blocks, Gen II

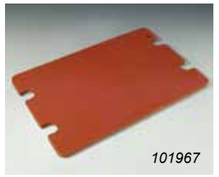
for 2mL, 12x32mm Vials

Catalog No.	Description	Qty
101480	Gen II, 48 Position, 4-BOLT, Photoredox Reaction Block for 12mm OD (2mL) Vials, with 13mm Well Spacing	Each

HPLC 48-Position Parallel Synthesis Aluminum Reaction Blocks, Gen II

for 2mL, 12x32mm Vials

Catalog No.	Description	Qty
104480	Gen II, 48 Position, 4-BOLT, Parallel Synthesis Reaction Block for 12mm OD (2mL) Vials, with 13mm Well Spacing	Each



Replacement Parts *(for photoredox AND parallel synthesis Gen II 48-position blocks)*

Catalog No.	Description	Qty
101968	Top PFA Films for Gen II 96-Position and 48-Position Reactors	25
101967	Top Rubber Mats for Gen II 96-Position and 48-Position Reactors	25
SHS0034	Socket Head Screws for Gen II 96-Position and 48-Position Reactors	5

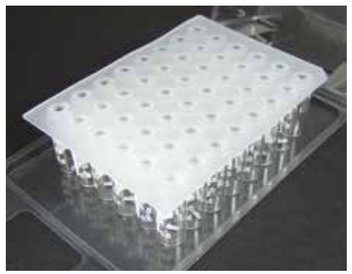
Accessories

Adjustable Torque Screwdriver

Cat. No.	Description
711001	Adj. Torque Screwdriver w/ 1/4″ Hex Tip (11 to 29 in-lb.)

12 x 32mm vials (sold separately)

Cat. No.	Description	Qty
11211-Case	11mm, 12 x 32, 2mL Wide Mouth Glass **Crimp/Snap** Vials	1000
11221-Case	11mm, 12 x 32, 2mL Wide Mouth Glass **Crimp** Vials	1000
11221M-Case	11mm, 12 x 32, 2mL Wide Mouth Glass **Crimp** Vials with Marking Spot	1000

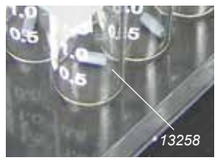


48-Position Numbered Crimp Vial Assembly for Reaction Blocks

Cat. No.	Description	Qty
48221M	48-Position **Numbered** Crimp Vial Assembly. Includes: Vials (11221M) Marked 1-48; Stir Bar (13258) in Each Vial; 48-Position Cap Mat (99948)	Each

Cap Mat for HPLC (2mL) Vials in 48-Position Block

Cat. No.	Description	Qty
99948	Clear Silicone/PTFE Cap Mat for HPC Vials in 48-Position Reaction Block	5



SS Cylinder Stir Bars for 2mL HPLC Vials

- Parylene Encapsulated
- For Photoredox and Parallel Synthesis Reaction Block Systems

Cat. No.	Description	Qty
13258	Stainless Steel Cylinder Stir Bars, 1.98mm x 4.80mm, for 2mL HPLC Vials	1000

Magnetic Stir Bars

Cat. No.	Description	Qty
50225	Magnetic Stir Bars, 5mm x 2mm, PTFE Coated	25
502100	Magnetic Stir Bars, 5mm x 2mm, PTFE Coated	100

1 Dram, 24-Position Photoredox Catalysis Aluminum Reaction Blocks with 18mm Spacing, Gen II

for 4mL (1 Dram), 15x45mm Vials

Catalog No.	Description	Qty
101240	Gen II, 24 Position, 5-BOLT, Photoredox Reaction Block for 15mm OD (1 Dram) Vials, with 18mm Well Spacing	Each

1 Dram, 24-Position Parallel Synthesis Aluminum Reaction Blocks with 18mm Spacing, Gen II

for 4mL (1 Dram), 15x45mm Vials

Catalog No.	Description	Qty
104240	Gen II, 24 Position, 5-BOLT, Parallel Synthesis Reaction Block for 15mm OD (1 Dram) Vials, with 18mm Well Spacing	Each

Replacement Parts *(for photoredox AND parallel synthesis Gen II 24-position blocks)*

Catalog No.	Description	Qty
101247	Top Rubber Mats for Gen II 24-Position Reactors (with 18mm Spacing)	25
101248	Top PFA Films for Gen II 24-Position Reactors (with 18mm Spacing)	25
SHS0114	Socket Head Screws for Gen II 24-Position Reactors and 96-Position Lightweight Reactors	5

Temperature Transfer Cover

for 24-Position, 18mm Spacing Reactors for 15mm OD Vials

Perfect for those who prefer to cap their vials instead of sealing them with the standard aluminum lid, rubber mat and PFA film that come with the block assembly. When using the block assembly in conjunction with a Thermal Transfer Deck+ (TTD+) and external liquid chiller, the cover helps control excessive heat generated by a Lumidox®II LED array and also greatly reduces light bleed.

The vials in the reactor block provide the alignment for the cover, but for extra stability users can secure the cover with four (4) bolts. The cover can also be flipped over and used as a reactor in itself or vial tray.

The Temperature Transfer Cover is available in a complete block assembly (101250) or as a separate part (249913).

Cat. No.	Description	Qty
101250	Gen II, 24-Position Photoredox Reaction Block (18mm Well Spacing) for 15x45mm (1 Dram) Vials, **with Temperature Transfer Cover**. *Does NOT include rubber mat, PFA film and standard lid.*	Each
249913	Temperature Transfer Cover **ONLY** - for **Gen II** 24-Position Reactors with 18mm Well Spacing	Each

Our 24-position Photoredox Catalysis Reactors with 18mm spacing are built specifically for use with our **Lumidox II 24-position, 18mm spaced Lens Mat Arrays**

See page 70 for more information

Use with 15 x 45mm vials, sold separately. See part number 31531-Case.

Accessories

Cat. No.	Description	Qty
31531-Case	13mm, 15 x 45, 4mL Clear Glass Screw Vials, Case	1000
31554-Case	PTFE Lined Cap	1000
80310	8x3mm PTFE, Magnetic Stir Bar with Pivot Ring	10
803100	8x3mm PTFE, Magnetic Stir Bar with Pivot Ring	100
711001	Adj. Torque Screwdriver w/ 1/4″ Hex Tip (11 to 29 in-lb.)	Ea

103240

2 Dram, 24-Position Photoredox Catalysis Aluminum Reaction Blocks with 18mm Spacing, Gen II

For 17x60mm, 8mL (2 Dram) Glass Vials

Catalog No.	Description	Qty
103240	Gen II, 24 Position, 5-BOLT, Photoredox Reaction Block for 17mm OD (2 Dram) Vials, with 18mm Well Spacing	Each

106240

2 Dram, 24-Position Parallel Synthesis Aluminum Reaction Blocks with 18mm Spacing, Gen II

For 17x60mm, 8mL (2 Dram) Glass Vials

Catalog No.	Description	Qty
106240	Gen II, 24 Position, 5-BOLT, Parallel Synthesis Reaction Block for 17mm OD (2 Dram) Vials, with 18mm Well Spacing	Each

101248

101247

SHS6140

Replacement Parts *(for photoredox AND parallel synthesis Gen II 24-position blocks)*

Catalog No.	Description	Qty
101247	Top Rubber Mats for Gen II 24-Position Reactors (with 18mm Spacing)	25
101248	Top PFA Films for Gen II 24-Position Reactors (with 18mm Spacing)	25
SHS6140	M6x1, 40mm Long, Low-Profile Socket Head Screw	5

TECH NOTE:
Replace PFA Films with every use for best performance

Use with 17 x 60mm vials, sold separately.
See part number 31760-Case.

31542

31760

Vials and Caps

Cat. No.	Description	Qty
31760-Case	17 x 60mm, 8mL Clear Glass Screw Vials, Case	1000
31542-Case	15mm Solid Black PP Screw Caps with PTFE/F217 Liners	1000
31543-Case	Black Open Top PP Cap with PTFE/Silicone (0.065") Setpa, 15-425mm Thread	1000

13258

711001

Accessories

Cat. No.	Description	Qty
84001-Case	**1mL** Clear Glass Shell Vials, 8 x 30mm	1000
13258	Stainless Steel Cylinder Stir Bars, 1.98mm x 4.80mm *(for 8x30mm Vials)*	1000
711001	Adjustable Torque Screwdriver with 1/4" Hex Tip (11 to 29 in-lb.)	Each

Para-dox® Gen II - Our Latest and Most Advanced Line of Reaction Blocks

Gen II Gen II

Para-dox® Gen II Aluminum Reaction Blocks

For Photoredox Catalysis and Parallel Synthesis

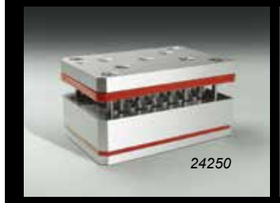
Benefits of the Gen II line include:

- Less bolts = less time to assemble
- Less light bleed when used with Lumidox®II LED arrays (48 and 96 position blocks)
- Less Maintenance
- Vials fit tighter (less shifting)
- Longer lasting screws (larger diameter, larger threads)

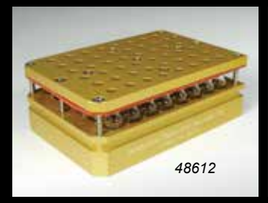
Additional features:

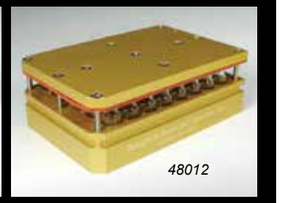
- Port for thermocouple, sensors, etc.
- Corner holes on both the lid and the bottom for accessory attachment
- Larger holes in lid to accommodate a variety of needle sizes
- Uses only one 1/8" rubber mat compared to two 1/16" mats on previous versions (makes for easier assembly)

Gen I Reaction Blocks are still available - please see our website


24250
Micro 24-Position
Photoredox Catalysis

96970
Micro 96-Position
Photoredox Catalysis


48612
HPLC 48-Position
Photoredox Catalysis


48012
HPLC 48-Position
Parallel Synthesis

96973/
96960
Standard 96-Position
Photoredox/Parallel Synthesis

24615
1 Dram 24-Position
Photoredox Catalysis
(20mm well spacing)

24015
1 Dram 24-Position
Parallel Synthesis
(20mm well spacing)

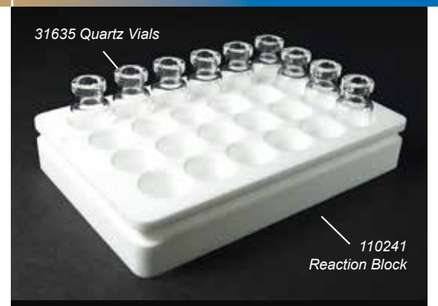
24626
1 Dram 24-Position
Photoredox Catalysis
(18mm well spacing)

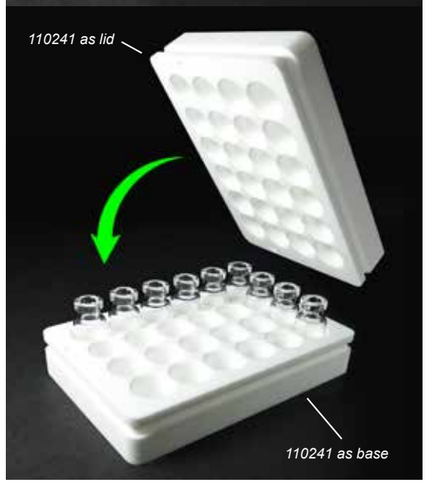
24253

24249
Standard 24-Position
Photoredox Catalysis/Parallel Synthesis

24617
2 Dram 24-Position
Photoredox Catalysis

24017
2 Dram 24-Position
Parallel Synthesis





1 Dram, 24-Position High Temperature Ceramic Reaction Block

- **For 16x35mm, 4mL (1 Dram) QUARTZ Vials**
- **18mm Spacing**

31635
Quartz Vial

Workflows/Usage

- Designed for high-temperature applications
- Enables batch pyrolysis & calcination workflows
- For use with crucible ovens / furnaces
  - Rated to a maximum of 700°C (1292°F) for 2.5 hours
  - Resistant to thermal shock during heating ramp rates (from room temp to 700°C) of between 1-10°C/min
  - Able to cool down naturally in a closed furnace (no quenching) from 700°C to room temp without cracking due to thermal shock.

Features

- Made from thermally conductive ceramic
- Automation compatible: groove for gripper around entire perimeter
- Thermocouple hole for temperature sensing
- A1 engraving (on top and bottom) for orientation
- When used as an assembly, quartz vials (sold separately) provide alignment between base and lid, eliminating the need for costly threads, screws, alignment pins, etc.

Blocks are sold individually. Use two blocks for a full assembly. The block is interchangeable and can be used as either a base or a lid. The full assembly keeps vials free from debris and can help with thermal conformity. The quartz vials provide alignment between the base and the lid so no additional hardware is required.

High Temperature Ceramic Reaction Block

Cat. No.	Description	Qty
110241	1 Dram, 24-Position High Temperature Ceramic Reaction Block, for Quartz Vials	Each

24-Well Photoredox Reaction Block for QUARTZ Vials

- For 4mL (1 Dram), 16x35mm Quartz Vials
- 18mm Well Spacing
- Use with Lumidox II 255nm-UVC Arrays

Cat. No.	Description	Qty
108240	Includes Vial Rack, Top Cover, PFA Film, Rubber Mat and Screws *(vials not included)*	Each

Lumidox®II 24 Position, 255nm-UVC LED Arrays for Quartz Vials

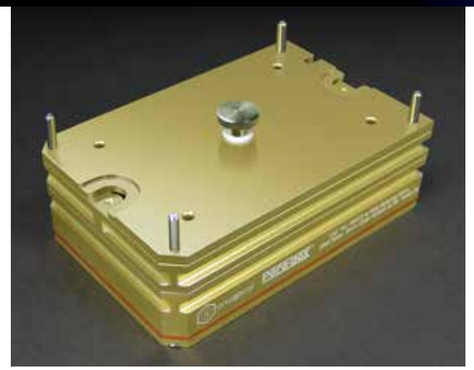
- Wavelength: 255nm UVC
- For use with quartz vials only (part #31635)
- Use with Para-dox Reaction Block #108240 (specifically fits quartz vials)
- Lens Mat surface with 18mm spacing between LED position centers

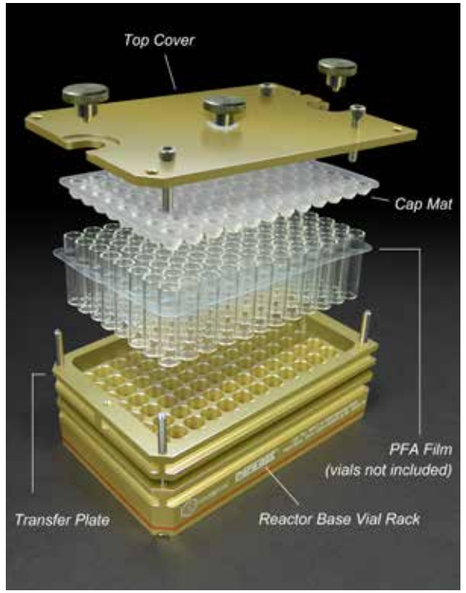
Cat. No.	Description
LUM22418LA255	Lumidox II 24-Position, 255nm-UVC LED Array with Active Cooling Base, for Quartz Vials
LUM22418LS255	Lumidox II 24-Position, 255nm-UVC LED Array with Solid Base, for Quartz Vials

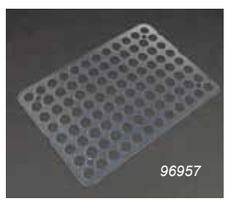
16x35mm, 4mL (1 dram) Quartz Vials

Cat. No.	Description	Qty
31635	16x35mm, 4mL (1 dram) Quartz Vials	Each

31635
Quartz Vial







NEW! Radiochemistry Reactors

Analytical's New Reactor for Radiochemistry represents a major advancement in providing an apparatus to unlock the potential of High-Throughput Experimentation (HTE) for Radiochemistry applications. Traditionally limited by one-reaction-at-a-time workflows, radiochemical optimization can now benefit from parallel processing—up to 96 reactions simultaneously. Designed to address the time-sensitive nature of radioisotopes, this system supports faster reaction setup, improved workflow, and streamlined analysis – transforming how radiochemistry is performed in industrial and academic R&D settings. Built around industry-standard SLAS formats, making use of Analytical's existing photoredox reactors (for potential photoradiochemistry applications), and compatible with existing automation infrastructure, the Reactor for Radiochemistry opens the door to more efficient discovery, optimization, and scalability in radiochemical synthesis.

- **HTE Radiochemistry: 96 reactions**
- **Addresses time sensitivity of radioactive work**
- **SLAS footprint**
- **New Transfer Plate (with novel PFA "webbing" solution) for easy vial transfer**
- **Full assembly and Conversion Kit available**
- **Integrates with our Lumidox®II photoredox system**

Can be used with:

- Tumble stirrers / hot plates
- Compatible with robotic platforms, has side grooves and standard hex-drive hardware
- Glovebox

96-Position Radiochemistry Block Assembly

for 1mL, 8x30mm Glass Inserts

Catalog No.	Description	Qty
96950	Standard 96-Position Radiochemistry Reaction Block Assembly. Includes: Base Vial Rack, Transfer Plate, Top Cover, PFA film, Cap Mat and Hardware	Each

96-Position Radiochemistry Conversion Kit

For users with existing 96973 or 96960 reactor hardware

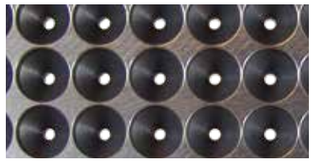
Catalog No.	Description	Qty
96940	Standard 96-Position Radiochemistry Conversion Kit. Includes: Transfer Plate, Top Cover, PFA film, Cap Mat and Hardware	Each

Radiochemistry Reactor Accessories

Catalog No.	Description	Qty
96957	Top PFA Sheet for 96 Position Radiochemistry Reactor	10
96958	Silicone Cap Mat for 96 Position Radiochemistry Reactor	5
TS146	Threaded Guide Studs for 96 Position Radiochemistry Reactor	4
WASH553	PTFE Washer for M4 Thumb Screw	25
TS350	Replacements Thumb Screws for 96 Position Radiochemistry Reactor	Each
SHS152	Replacement Socket Head Screws for 96 Position Radiochemistry Reactor	100
HB764	7/64" Hex Bit for Power Tools	Each

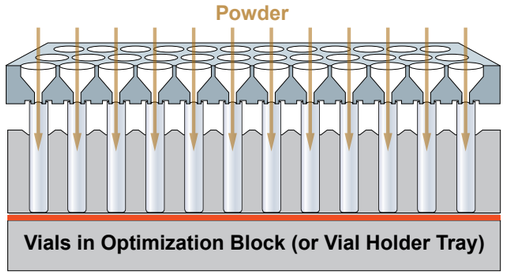
Powder Funnel Plates

- **Wide funneled holes guide powder into vials**
- **Grooves on bottom surface "lock" vials into position to avoid spillage**

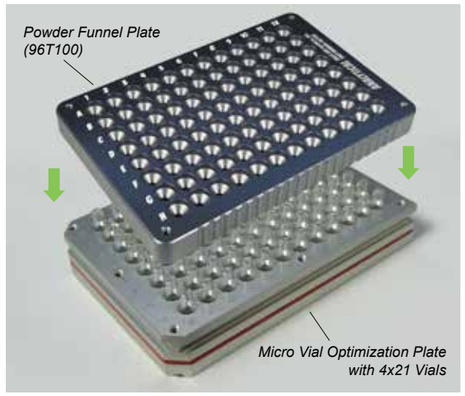


Top Surface

Bottom Surface



1. *Lower plate onto vials and let the vials "settle" into the grooves on the bottom surface of transfer plate*
2. *Powder can now be easily dispensed into each vial*



Powder Funnel Plate for 4x21mm Vials

Easily dispense powder into 4x21mm (50µL) Micro Vials

Use with:

• 96-Position Polypropylene Tray with 4x21mm Vials (96342)

Cat. No.	Description	Qty
96T100	Powder Funnel Plate for 4x21mm Vials	Each
96T200	Gen II Powder Funnel Plate for 4x21mm Vials	Each

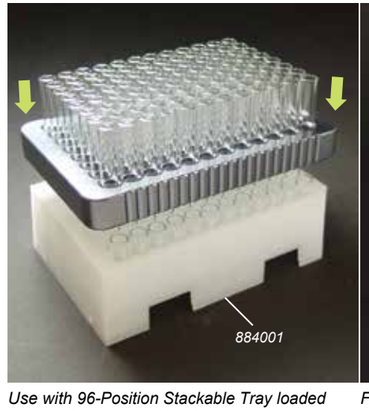
Powder Funnel Plates for 15mm x 45mm, 4mL Vials

Cat. No.	Description	Qty
24T101	Powder Funnel Plate, 24-Well (with 20mm Spacing) for 15 x 45mm, 4mL Vials	Each
24T100	Powder Funnel Plate, 24-Well (with 18mm Spacing) for 15 x 45mm, 4mL Vials	Each

Powder Transfer Plate for 8x30mm, 1mL Vials

Easily transfer powder from vial to vial or to mix powders between vials

Cat. No.	Description	Qty
96T105	Powder Transfer Plate for 8x30mm, 1mL Vials	Ea
884001	96-Position Stackable Tray with 8x30mm Shell Vials	Ea



Use with 96-Position Stackable Tray loaded with 8x30mm Vials (884001)

Flip repeatedly to mix powders between vials

Assembled Vials in Stackable Trays

Recommended for top performance!

• For easy loading - ***Saves Time!***

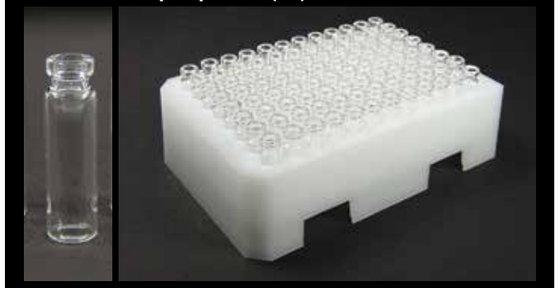
• Our thorough QC process ensures ***Less Evaporation*** compared to loose vials

8x30mm Crimp Top Vials in Loaders

8x30mm Crimp Top Vials for TCR (48)

Cat. No.	Description	Qty
488408	Assembled Stackable Tray Loaded with 48 8x30mm Crimp Top Vials (84008-CASE) for TCR, Includes Tray and Vials	Each

8x30mm Crimp Top Vials (96)



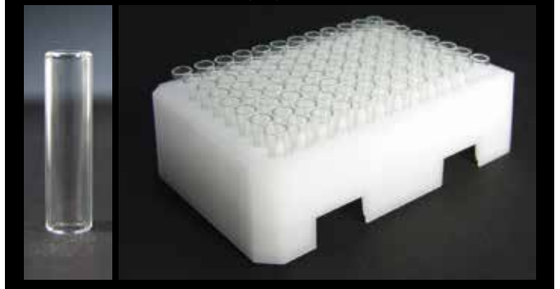
Cat. No.	Description	Qty
884008	Assembled Stackable Tray Loaded with 96 **8x30**mm Crimp Top Vials (84008-CASE), Includes Tray and Vials	Each

Shell Vials in Loaders

8x30mm Glass Inserts for TCR (48)

Cat. No.	Description	Qty
488401	Assembled Stackable Tray Loaded with 48 8x30mm Flat-Bottom Vials (84001-CASE) for TCR, Includes Tray and Vials	Each

8x30mm Glass Inserts (96)



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

4x21mm Vials (96)

Cat. No.	Description	Qty
96342	Assembled Stackable Tray Loaded with 4x21mm Flat-Bottom Vials (10421-CASE), Includes Tray and Vials	Each

5x31mm Vials (96)

Cat. No.	Description	Qty
96242	Assembled Stackable Tray Loaded with **5x31**mm Flat-Bottom Vials (20303-CASE), Includes Tray and Vials	Each

Lumidox® II

Photon Generation Devices

For Photoredox Catalysis Applications

Analytical's Lumidox®II devices provide wavelength and power specific illumination to samples for photoredox catalysis applications.

Key Features:

- Reduces photochemical reaction time
- Up to 5 selectable output STAGES
- Up to 17 wavelengths available
- Patented LED array design

Available in up to 17 wavelengths:

255-UVC *	405 (UV405)	505 (Cyan)	660 (Deep Red)
365 (UV365)	420 (Violet)	527 (Green)	730-IR (Infrared)
375 (UV375)	445 (Indigo)	590 (Amber)	810-IR (Infrared)
385 (UV385)	470 (Blue)	630 (Red)	White
395 (UV395)			

** 24-position only. Must be used with Quartz vials (see page 60)*

LED Output STAGES

By default, all Lumidox II devices are factory calibrated with 5 discrete linearly stepped output STAGES. STAGE 1 output is the least radiometric power while STAGE 5 output is the most. STAGES are calibrated to the nearest whole number of radiant flux, and displayed in milliwatts (mW).

Linear Step (default)

- STAGE 1 - 50mW
- STAGE 2 - 100mW
- STAGE 3 - 150mW
- STAGE 4 - 200mW
- STAGE 5 - 250mW

Custom LED Tuned STAGES

Analytical offers custom tuned stages to meet specific and unique requirements. These can range from maximum light output to low output to tight resolution.

NOTE: STAGE settings are stored on each individual Lumidox II **peripheral** device (LED Array or LumLamp), and are ***not tunable via the controller***. Custom STAGE settings can only be calibrated by Analytical Sales and Services Inc. prior to shipment. Please contact Analytical before ordering.

High Output (for more aggressive reactions)	**High Resolution** (for greater precision)	**Low Output** (for cell/bio work)*
STAGE 1 - 100mW	STAGE 1 - 100mW	STAGE 1 - 10mW
STAGE 2 - 200mW	STAGE 2 - 110mW	STAGE 2 - 15mW
STAGE 3 - 400mW	STAGE 3 - 115mW	STAGE 3 - 20mW
STAGE 4 - 600mW	STAGE 4 - 120mW	STAGE 4 - 30mW
STAGE 5 - 800mW	STAGE 5 - 125mW	STAGE 5 - 40mW

* Available now on website

Lum2con

LUM2CONP1

LUM2CONP4

Lumidox®II Controller

- Onboard illumination elapsed timer
- Automatic countdown shut-off timer
- Optional PC control (via USB cable) enables remote controls via python scripting. Example pulsing script available.

Cat. No.	Description
LUM2CON	Lumidox II Controller. Includes: Controller, Power Supply, Power Cable, Manual

NEW! Lumidox®II +

1-Channel and 4-Channel Controllers

New Output Options

- Select from traditional "fixed waveform" (constant) or "modular waveform" irradiation.
  - Features of "Modular waveform"
    - Types of waveform
      - Square wave: on/off cycles (Pulsed light)
      - Sine wave: cyclically brightens and dims ("fading" light)
    - Adjustable: frequency and duration (number of cycles)

Practical Benefits

- Compatible with Lumidox II LED arrays
- Larger color display (new GUI)
  - Visual indication of LED array's wavelength (displayed on border of the channel)
- Front panel connection for LED array (easier to reach)
- LED arrays are now "hot-swappable" / plug-n-play
- Set desired light "dose" in Joules
  - Duration automatically set based on the selected Stage output (mW)
- Simplified API/SDK (serial commands)

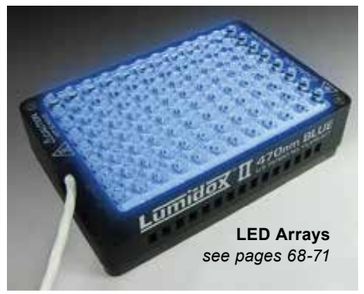
Additional Benefits of the *4-Channel* Controller

- Conserves bench space: Functionality of 4 controllers in 1
  - No restriction to LED arrays capabilities (max output/duration on all channels)

Lumidox II+ Controllers

Cat No.	Description
LUM2CONP1	Lumidox II+ 1-Cannel Controller. Includes: Controller, Power Supply, Power Cable, Manual
LUM2CONP4	Lumidox II+ 4-Channel Controller. Includes: Controller, Power Supply, Power Cable, Manual

LumLamp
see page 75



LED Arrays
see pages 68-71

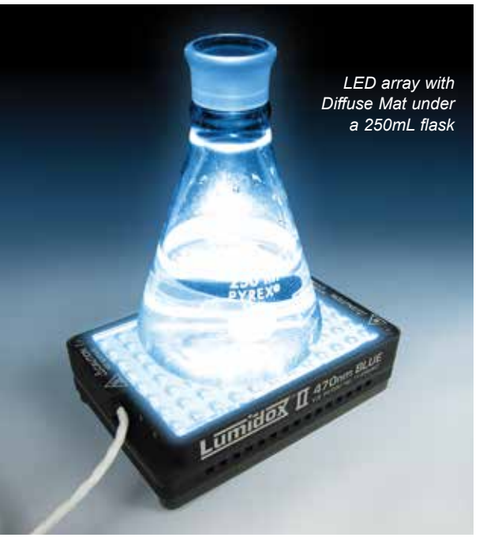
Peripheral Devices

Lumidox II and Lumidox II+ Controllers power LED Arrays and LumLamps

PRODUCT NOTE:

Arrays and LumLamps are tuned in-house. Calibration STAGE parameters are is stored in the LED array or LumLamp. Lumidox II system is modular.

LED array with Lens Mat under a Para-dox® 96-well reaction block



LED array with Diffuse Mat under a 250mL flask

Lumidox®II LED Arrays

U.S. Patent No. 11,458,447

Our patented LED arrays provide wavelength and power specific illumination to samples for photoredox catalysis applications.

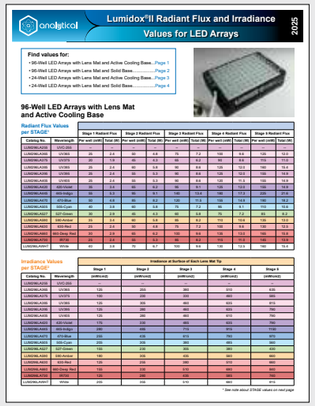
- **Up to 15 different color wavelengths are available***
- **5 output STAGES (customizeable) with calibration data stored on board****
- **Available in two Surface Mat styles**
- **Three options for Base configurations**

** Most LED arrays (excluding Discovery, page 69) are wavelength-specific - only one wavelength per device*

*** Calibration data is stored onboard (not on the controller), allowing the use of different illuminators with one controller. Controller can only operate 1 device at a time. STAGE settings are NOT user-adjustable and must be configured prior to shipping*

The latest data for STAGE values are on our website, in a PDF for download:

"Lumidox®II Radiant Flux and Irradiance Values for LED Arrays"



Surface Mat Styles

Array top surfaces come in two styles, **Lens Mat** and **Diffuse Mat**.

Lens Mat Surface

- Ultra-clear, molded to fit into the holes of a Para-dox® Reaction Block
- Captures nearly all light emitted by the array's LEDs and directs it into the vials in the reaction block
- Chemically inert silicone

Diffuse Mat Surface

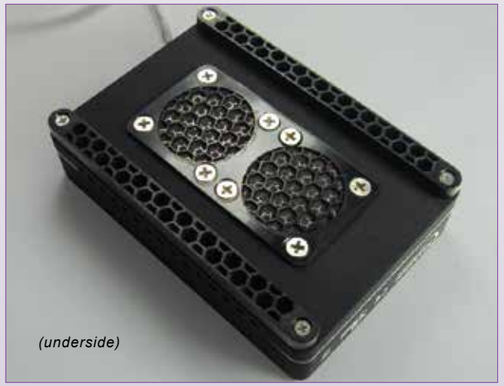
- Flat surface, making for easy pairing with SLAS footprint apparatus
- Can be used for niche applications such as illuminating cell culture flasks, reservoir plates, large scale containers, etc.
- Chemically inert silicone

About Array Cooling and Base Options

Lumidox®II LED Arrays can generate a considerable amount of heat at any output stage and therefore need to be cooled. Both **Lens Mat and Diffuse Mat** style arrays are available with an **Active Cooling** or **Solid** base. Each has it's own specific way of cooling the LEDs in the array and can affect different application situations. *Note: solid base arrays are not self-cooling and require the use of a sufficient external chiller/cooling device.*

Array Base Comparison

Active Cooling Base



- Self-cooling, no external cooling source required
- Fully conforms to SLAS/ANSI standard dimensions
- Ideal for lower output applications like cell culture and PCR work *(may require special Alignment Spacer)*
- Not compatible with tumble stirrers or devices that generate powerful magnetic fields
- Can be placed in an incubator

Solid Base

External cooling source is required *(a Thermal Transfer Deck with a recirculating liquid chiller is recommended)*

- A Thermal Transfer Deck (TTD, *see page 71*) can be attached to the base when used in conjunction with a recirculating chiller. The TTD can be removed if using a different cooling source, such as a cooling bay
- Fully conforms to SLAS/ANSI standards and can be used with cooling baths, plates, or other cooling chamber *(if NOT being used with our Thermal Transfer Deck and recirculating liquid chiller)*
- Ideal for high output requirements – up to nearly 3x more radiometric power output than Active Base arrays*
- Best highest output, highest intensities

For comparison, Radiant Flux Value charts for Active Cooling Base and Solid Base Arrays are posted on our website.

Note: All LED arrays can operate in an incubator at 37ºC, 95% humidity

Active Cooling Base

Solid Base

96-Position LED Arrays with **Lens Mat**

		Active Cooling Base	Solid Base*
Wavelength (nm)	**Description**	**Catalog No.**	**Catalog No.**
UV365	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA365	LUM296LS365
UV375	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA375	LUM296LS375
UV385	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA385	LUM296LS385
UV395	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA395	LUM296LS395
UV405	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA405	LUM296LS405
420-VIOLET	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA420	LUM296LS420
445-INDIGO	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA445	LUM296LS445
470-BLUE	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA470	LUM296LS470
505-CYAN	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA505	LUM296LS505
527-GREEN	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA527	LUM296LS527
590-AMBER	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA590	LUM296LS590
630-RED	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA630	LUM296LS630
660-DEEP RED	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA660	LUM296LS660
730-IR	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA730	LUM296LS730
810-IR	Lumidox II 96-Position LED Array with Lens Mat	LUM296LA810	LUM296LS810
WHITE	Lumidox II 96-Position LED Array with Lens Mat	LUM296LAWHT	LUM296LSWHT

** requires the use of a sufficient chiller/cooling device*

See pages 66-67 for details on surface mats and bases

Active Cooling Base

Solid Base

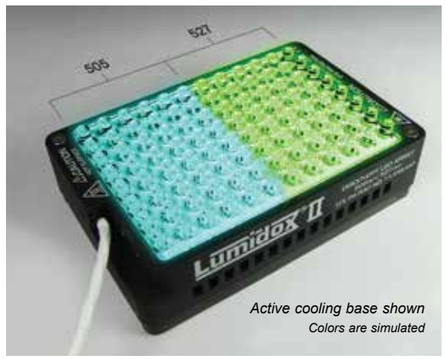
96-Position LED Arrays with **Diffuse Mat**

		Active Cooling Base	Solid Base*
Wavelength (nm)	**Description**	**Catalog No.**	**Catalog No.**
UV365	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA365	LUM296DS365
UV375	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA375	LUM296DS375
UV385	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA385	LUM296DS385
UV395	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA395	LUM296DS395
UV405	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA405	LUM296DS405
420-VIOLET	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA420	LUM296DS420
445-INDIGO	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA445	LUM296DS445
470-BLUE	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA470	LUM296DS470
505-CYAN	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA505	LUM296DS505
527-GREEN	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA527	LUM296DS527
590-AMBER	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA590	LUM296DS590
630-RED	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA630	LUM296DS630
660-DEEP RED	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA660	LUM296DS660
730-IR	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA730	LUM296DS730
810-IR	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DA810	LUM296DS810
WHITE	Lumidox II 96-Position LED Array with Diffuse Mat	LUM296DAWHT	LUM296DSWHT

** requires the use of a sufficient chiller/cooling device*

Active cooling base shown
Colors are simulated (UV light is invisible)

Active cooling base shown
Colors are simulated (UV light is invisible)



Active cooling base shown
Colors are simulated

96-Well Single Wavelength Array with Lens Mat

*Solid base shown**

Discovery/Screening 96-Position LED Arrays

Lumidox®II Discovery LED Arrays for screening offer scientists an economical and efficient way to evaluate most of the wavelengths that the Lumidox II line of products has to offer. Discovery LED arrays come in varying wavelength combinations and are available with an active cooling, solid or flow-through base.

There are currently 15 wavelength options available in the Lumidox II product line. With Discovery LED arrays, 9 of those wavelengths are combined into 3 units (no need to purchase 9 individual units). The three models of Discovery LED arrays come in these wavelength combinations:

- **Discovery 1** (3 UVs):
  375nm, 385nm, 395nm *(4 columns of 8 LEDs / wavelength)*
- **Discovery 2** (UV405, Indigo, Blue & Amber):
  405nm, 445nm, 470nm, 590nm *(3 columns of 8 LEDs / wavelength)*
- **Discovery 3** (Cyan, Green): 505nm, 527nm *(6 columns of 8 LEDs / wavelength)*

The six remaining wavelengths in the Lumidox II line - UV365, 420-VIOLET, 630-RED, 660-DEEP RED, 730-IR, and White - are not compatible for placement in Discovery LED arrays due to varying electrical conditions. They can, however, be purchased as single wavelength units to complete your LED array collection.

96-Position Discovery LED Arrays with **Lens Mat**

		Active Cooling Base	Solid Base*
Wavelength (nm)	**Description**	**Catalog No.**	**Catalog No.**
UV375 UV385 UV395	Discovery 1 LED Array w/ Lens Mat *(4 rows of 8 LEDs per wavelength)*	LUM296LAG1	LUM296LSG1
UV405 445-INDIGO 470-BLUE 590-AMBER	Discovery 2 LED Array w/ Lens Mat *(3 rows of 8 LEDs per wavelength)*	LUM296LAG2	LUM296LSG2
505-CYAN 527-GREEN	Discovery 3 LED Array w/ Lens Mat *(6 rows of 8 LEDs per wavelength)*	LUM296LAG3	LUM296LSG3
Single Wavelength LED Arrays			
UV365	96-Position LED Array w/ Lens Mat	LUM296LA365	LUM296LS365
420-VIOLET	96-Position LED Array w/ Lens Mat	LUM296LA420	LUM296LS420
630-RED	96-Position LED Array w/ Lens Mat	LUM296LA630	LUM296LS630
660-DEEP RED	96-Position LED Array w/ Lens Mat	LUM296LA660	LUM296LS660
730-IR	96-Position LED Array w/ Lens Mat	LUM296LA730	LUM296LS730
810-IR	96-Position LED Array w/ Lens Mat	LUM296LA810	LUM296LS810
WHITE	96-Position LED Array w/ Lens Mat	LUM296LAWHT	LUM296LSWHT

** requires the use of a sufficient chiller/cooling device*

Thermal Transfer Decks

See page 71 for more information

Cat. No.	Description
266530	SLAS Thermal Transfer Deck (TTD)
266540	TTD+ (Thermal Transfer Deck with High-end Fittings)
266550	SLAS Footprint, “Straight-Thru” Thermal Transfer Deck

Available in these wavelengths:

365 (UV365)	395 (UV395)	470 (Blue)	590 (Amber)
375 (UV375)	405 (UV405)	505 (Cyan)	630 (Red)
385 (UV385)	445 (Indigo)	527 (Green)	White

Lumidox®II 24-position LED Arrays with 9mm Spacing

- Typically used with a Para-dox® 24-well Reaction Block for 8x30mm vial inserts *(see page 55)*
- Can also be used with a HTe-Chem Electrochemistry Assembly (*see page 77)*

		Active Cooling Base	Solid Base*
Wavelength (nm)	**Description**	**Catalog No.**	**Catalog No.**
UV365	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA365	LUM224LS365
UV375	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA375	LUM224LS375
UV385	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA385	LUM224LS385
UV395	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA395	LUM224LS395
UV405	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA405	LUM224LS405
445-INDIGO	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA445	LUM224LS445
470-BLUE	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA470	LUM224LS470
505-CYAN	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA505	LUM224LS505
527-GREEN	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA527	LUM224LS527
590-AMBER	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA590	LUM224LS590
630-RED	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LA630	LUM224LS630
WHITE	24-Well LED Array with 9mm Spacing, Lens Mat	LUM224LAWHT	LUM224LSWHT

See pages 66-67 for details on surface mats and bases

** requires the use of a sufficient chiller/cooling device*

Lumidox®II 24-position LED Arrays with 18mm Spacing

Built specifically for use with our **Para-dox® 24-well, 18mm spaced Reactor Blocks**

See page 57 for more information

		Active Cooling Base	Solid Base*
Wavelength (nm)	**Description**	**Catalog No.**	**Catalog No.**
UV365	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA365	LUM22418LS365
UV375	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA375	LUM22418LS375
UV385	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA385	LUM22418LS385
UV395	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA395	LUM22418LS395
UV405	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA405	LUM22418LS405
420-VIOLET	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA420	LUM22418LS420
445-INDIGO	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA445	LUM22418LS445
470-BLUE	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA470	LUM22418LS470
505-CYAN	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA505	LUM22418LS505
527-GREEN	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA527	LUM22418LS527
590-AMBER	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA590	LUM22418LS590
630-RED	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA630	LUM22418LS630
660-DEEP RED	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA660	LUM22418LS660
730-IR	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA730	LUM22418LS730
810-IR	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA810	LUM22418LS810
WHITE	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LAWHT	LUM22418LSWHT

** requires the use of a sufficient chiller/cooling device*

24-Position, 255nm-UVC Arrays for Quartz Vials

Our 255nm UVC wavelength LED Array opens the door to exciting new applications—from high-energy photochemistry to polymer resin curing and surface disinfection—making this one of the most versatile and powerful additions to the Lumidox® lineup.

Because 255nm "light" sits deep in the ultraviolet spectrum, specialized materials are needed to properly transmit this wavelength. Analytical's Engineering team has developed a custom lens solution for the 255nm Array using precision quartz, and have sourced novel quartz vials for samples as they are fully transparent to UVC.

		Active Cooling Base	Solid Base*
Wavelength (nm)	**Description**	**Catalog No.**	**Catalog No.**
255nm-UVC	24-Well LED Array with 18mm Spacing, Lens Mat	LUM22418LA255	LUM22418LS255

** requires the use of a sufficient chiller/cooling device*

Use with:

- QUARTZ vials *(31635, see page 60)*
- 24-Well Photoredox Reaction Block for QUARTZ Vials *(108240, page 60)*

31635
Quartz Vial

Cat. No.	Description	Qty
266540	TTD+ (Thermal Transfer Deck with High-end Fittings)	Ea
266550	SLAS Footprint, "Straight-Thru" Thermal Transfer Deck+(Thermal Transfer Deck with High-end Fittings)	Ea

** Ports are not user configurable on the Straight-Thru TTD*

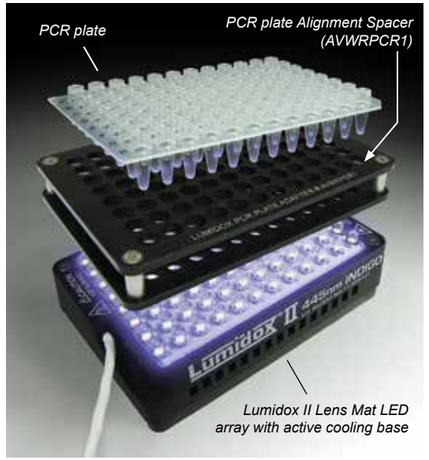
Thermal Transfer Decks

- **Must be used with a recirculating liquid chiller or heater**
- **Can be attached to a Lumidox®II solid base LED array for direct cooling of the array**

When connected to an *external* recirculating liquid chiller or heater, our Thermal Transfer Decks can be used as both chilling plates or hot plates. Apply heat or cold directly to your samples or sample vessels (such as Para-dox® Reaction Blocks), or use it to cool your Lumidox II solid base LED array.

Thermal Transfer Decks may be linked in novel ways to form gradients, or to serve other more experimental needs. Push-to-connect fittings allow for quick tubing insertion/removal. Input and Output ports are user configurable, and may be relocated between side and top faces*. Units are shipped with side exit ports as standard. Decks are stackable, and multiple decks can be chained together for a total temperature control solution. Compatible with a wide variety of coolants (water, propylene glycol, ethylene glycol, etc.).

Attach a Thermal Transfer Deck+ to a Lumidox II SOLID BASE LED Array for direct cooling of the array



Lumidox / PCR Setup

Lumidox / Cell Culture Setup

Lumidox®II for Cell Culture / Biological Applications

We can support your photon irradiation needs for your cell culture or biological applications, such as:

- Photoconverting live mammalian cells with Dendra protein for fluorescent imaging days after photoconversion
- Testing of light-induced toxicity of certain compounds on different cell lines for photodynamic therapy applications
- Studying the photothermal effects of compounds in live cells
- Testing photodynamic therapy of various innovative compounds on live cells
- The use of photodynamic therapy as a type of cancer treatment

Lumidox II LED Arrays with Active Cooling Base

Lumidox II LED arrays generate wavelength specific light for your cell culture or biological experimentation.

- Available in 15 wavelengths from UV, Visible through IR.
- Run at 37°C indefinitely (70°C max) at humidity <=99%.
- Active Cooling Base LED arrays are fully compatible with incubation chambers.
- Use **Lens Mat** Arrays for 24 or 96 well flat bottom collection plates, or with Analytical's 48-well TCR.
- Use **Diffused Mat** Arrays for cell culture flasks, petri dishes, larger 12-well and 6-well cell culture plates, etc..
- Active Cooling Base arrays are recommended for bio/cell culture work, but other base configurations are available.

Cell Culture Plate Alignment Spacers

For Low Output (<50mW) Experimentation

Designed for low output applications using **Lens Mat** arrays *(not compatible with diffuse mat arrays)*. Run your array at a stage with an appropriate output and environment. Higher output levels and temperatures can deform the alignment spacer. While these Alignment Spacers provide the most practical method for consistent positioning of your samples over the LEDs, if higher output (>50mW per LED) is desired, you can manually position your sample plate over the array without a spacer.

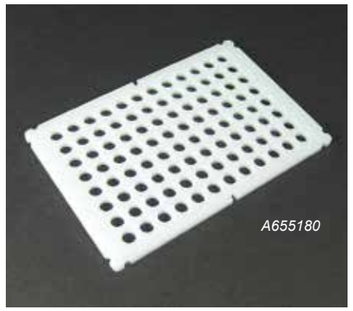
- All our Low Profile collection plates
- Cellvis P96-1.5H-N
- Greiner 655180
- Corning Costar cell culture plates
- Eppendorf cell culture plates (contact us with your specific plate)
- Thermo Scientific Nunc MicroWell plates
- Perkin Elmer ViewPlate (formerly Packard ViewPlate)

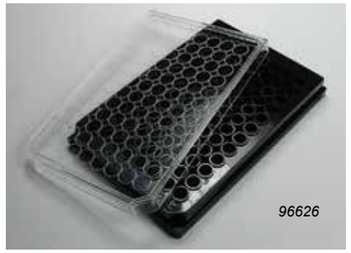
Alignment Spacers are available for any standard cell culture plate by request.

Lumidox II Controller

- Five stages of light intensity to choose from that can be calibrated to your custom levels at the time of purchase - *see STAGE settings, page 64.*
- Controller has an onboard timer to reproducibly limit exposure.

Lumidox®II Photon Generation Devices
Cell Culture Plates, LED Arrays & Alignment Spacers





***24 well setup** with Lumidox 24-well LED Array - See page 70 for array options*

Lumidox®II LED Arrays with Active Cooling Base

Recommended wavelengths for biological and cell culture work. Other wavelengths are available.

Catalog No.	Description	Wavelength
LUM296LA445	Lumidox II 96-position LED Array with Lens Mat & Active Cooling Base	445nm - Indigo
LUM296LA470	Lumidox II 96-position LED Array with Lens Mat & Active Cooling Base	470nm - Blue
LUM296LA527	Lumidox II 96-position LED Array with Lens Mat & Active Cooling Base	527nm - Green
LUM296LA630	Lumidox II 96-position LED Array with Lens Mat & Active Cooling Base	630nm - Red
LUM296LA660	Lumidox II 96-position LED Array with Lens Mat & Active Cooling Base	660nm - Deep Red
LUM296LAWHT	Lumidox II 96-position LED Array with Lens Mat & Active Cooling Base	White

Cell Culture Plate Alignment Spacer

Catalog No.	Description
A655180	Alignment Spacer for Lumidox II LED Arrays, for use with Greiner 655180 Plate
AP9615HN	Alignment Spacer for Lumidox II LED Arrays, for use with Cellvis P96-15H-N Well Plates
A204625	Alignment Spacer for Lumidox II LED Arrays, for use with Cell Culture Plate Part # 96624
A204627	Alignment Spacer for Lumidox II LED Arrays, for use with Cell Culture Plate Part # 96626
ACRCLP01	Alignment Spacer for Lumidox II LED Arrays, for use with Corning Cell Culture Plates
A6005430	Alignment Spacer for Lumidox II LED Arrays, for use with Perkin Elmer ViewPlate (Packard ViewPlate)
A204628	Alignment Spacer for Lumidox II LED Arrays, for use with Cell Culture Plate Part # 384628
ACRCLP03	Alignment Spacer for Lumidox II LED Arrays, for use with Corning 2592 Plate
ACRCLP02	Alignment Spacer for Lumidox II LED Arrays, for use with Corning 3631 Plate
A655097	Alignment Spacer for Lumidox II LED Arrays, for use with Greiner 655097 Plate
AP24727	Alignment Spacer for Lumidox II 24-position LED Arrays, for use with 24 Reservoir Plate #24727

Cell Culture Plates

Catalog No.	Description	QTY
96518	96 Well, Flat Bottom Clear PS Microplate, 25-340µL working volume per well	100
96626	96-well Cell Culture/Imaging Microplate (Agilent) - Black with Clear Flat Bottom, 400µL Per Well	32
961515	Cellvis 96-well Black Polystyrene/Glass Bottom Plate with high performance #1.5 cover glass	20
96097	96 Well, Black/Clear Flat Bottom Well PS Microplate, 25-340µL working volume per well, high binding, sterile	40
384628	384-well Cell Culture/Imaging Microplate, 140µL Per Well	32
24727	24-Well Reservoir Plate, Square Well/Round Bottom	25

Please see our website for additional collection plates

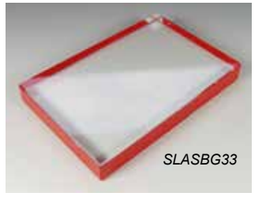
PCR Plate Alignment Spacer

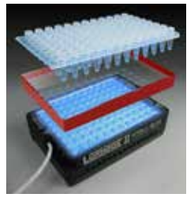
Catalog No.	Description
AVWRPCR1	PCR Plate Alignment Spacer for Lumidox II 96-position LED Lens Mat Arrays

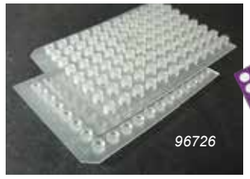
Borofloat 33 Glass Block

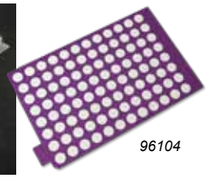
Use to reduce the amount of light intensity delivered to your samples by increasing the distance between the samples and the light source (LED array).

Catalog No.	Description
SLASBG33	Borofloat 33 Glass Block









Cap Mats and Films for PCR Plates

Cat. No.	Description	QTY
96726	6mm Silicone/PTFE Cap Mats for 96-well PCR Collection Plates	5
96104	Pattern Adhesive *Resealable* Silicone Sealing Film, Round 96-Well Pattern	5

266100
Flow Reactor

Flow Reactor

The Para-dox® Flow Reactor offers an alternative way to conduct photoreactive research on fluidic samples. Used in conjunction with a Lumidox®II Diffuse Mat Array, wavelength-specific light can be applied to sample fluid circulating through 1/8” OD tubing. The Flow Reactor can be liquid cooled or heated and is highly configurable. Add a Thermal Transfer Deck for a complete flow solution.

Users may configure the Flow Reactor in various ways, including multiple input streams using the machined channels. Tubing can be replaced and installed by the user with a tubing tamp tool.

- SLAS/SBS footprint
- Dripless CPC fittings
- 1/8″ OD unions for ease of analyte injection
- User-configurable output/input locations, side or top (factory set to side).
- Exposure volume of 2mL using 1/8″ OD, 1/16” ID tubing. The exposure volume may be set to 1mL if two streams are used.
- FEP Tubing Provided
- Cradled design reduces light bleed and helps “seat” and align Lumidox unit
- Compatible with water, glycol based coolants, and silicone based coolants

Flow Reactor

Catalog No.	Description	Qty
266100	Flow Reactor	Each

TCube Edge

MC280OLE

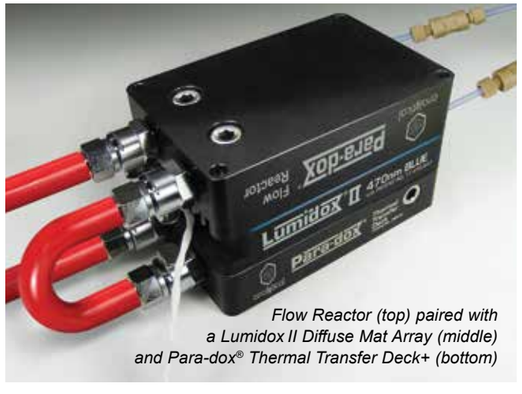
Recommended Chillers:

Cat. No.	Description
TCubeEdge	TCube Edge Recirculating Chiller
MC280OLE	Minichiller 280 Ole Recirculating Chiller

Single Stream Setup,
(2 mL volume)

Multistream Setup

Lumidox II Diffuse
Mat Array placement



Flow Reactor (top) paired with
a Lumidox II Diffuse Mat Array (middle)
and Para-dox® Thermal Transfer Deck+ (bottom)

A lamp system specifically designed for your experimental needs!

LumLamp

The LumLamp system stands apart with multiple wavelengths, tight line-widths, and remote (corded) operation. It has radiant flux levels up to 3W. LumLamps are directly controlled with our Lumidox®II Controller, providing optical stability, user configurable timing and output configuration.

With 4 differing reflector types, 3 styles of lens, and up to 12 wavelengths, LumLamp is available in 104+* possible configurations.

Lens Types:

Reflector Types:

15º Narrow Spot Beam	30º Medium Beam
40º Wide Beam	80º Extra Wide Beam

LumLamps are available in the following wavelengths:

365 (UV365)	395 (UV395)	470 (Blue)	590 (Amber)
375 (UV375)	405 (UV405)	505 (Cyan)	630 (Red)
385 (UV385)	445 (Indigo)	527 (Green)	White

** Contact us for custom wavelengths*

Lumidox®II Controller

- Controls the output of a Lumidox Array or LumLamp
- 5 individually calibrated levels of optical power (STAGES)
- Optical power levels are provided in easy to read, easy to calculate whole numbers
- Onboard illumination elapsed timer
- Automatic countdown shut off timer
- **USB Enabled API** - for advanced users running their setups remotely

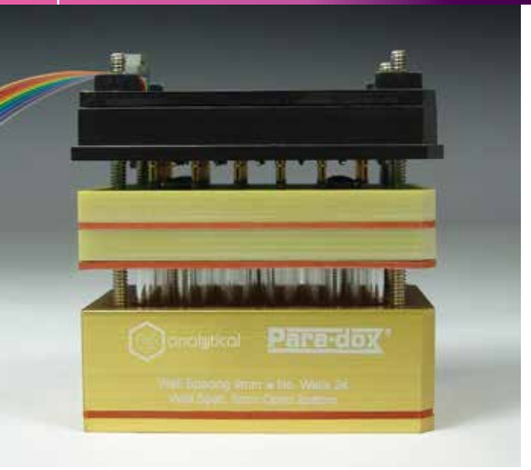
Lumidox II LED Controller

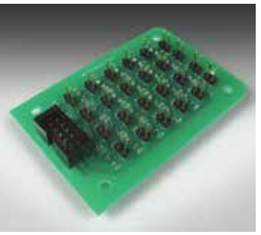
Catalog No.	Description	Qty
LUM2CON	Lumidox II LED Controller. Includes: Controller, Power Supply, Power Cable, Manual	Each

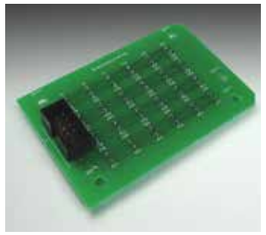
Lumidox Controllers come with one pair of UV protective goggles. Additional goggles can be purchased.

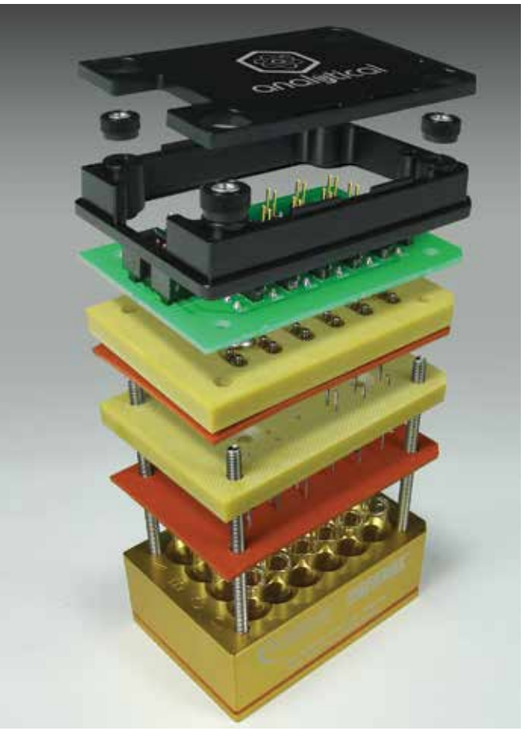
UV Safety Goggles

Catalog No.	Description	Qty
UVGoggles	Additional UV Safety Goggles	Each









HTe-Chem Electrochemistry Assemblies

Analytical's new HTe-Chem line of products allows for broad electrochemical reactions (such as electrosynthesis, organic electrochemistry, electrophotochemistry, etc.) to be carried out on Analytical's standard 24-well minirack platform. HTe-Chem allows you to accelerate your electrochemistry workflow by permitting multiple simultaneous constant current, constant voltage, and/or electrophotochemical experiments to be run.

There are two optimized setups to choose from:

The constant current setup allows the user to set a precise current, which will be maintained by the power supply throughout the reaction. The voltage will automatically be varied based on the changing electrical conditions as the reaction progresses.

The constant voltage setup allows the user to set a precise voltage, which will be maintained by the power supply throughout the reaction. In this setup, the current will automatically be varied based on the changing electrical conditions as the reaction progresses.

HTe-Chem Assemblies & Kits

Cat. No.	Description	Qty
700100	Constant Current Electrochemistry Assembly	Each
700150	Constant Current Electrochemistry Kit (Includes Electrode Kit)	Each
700200	Constant Voltage Electrochemistry Assembly	Each
700250	Constant Voltage Electrochemistry Kit (Includes Electrode Kit)	Each

Electrodes for HTe-Chem Assemblies

Analytical offers a myriad of electrode choices which can be used as either cathodes or anodes depending on your experimental needs.

Cat. No.	Description	Qty
700500	Graphite Electrodes	30
700500-250	Graphite Electrodes - Bulk Pack	250
700525	Lead Electrodes	25
700550	Tin Electrodes	25
700575	Cadmium Electrodes	25
700600	Zinc Electrodes	25
700600-250	Zinc Electrodes - Bulk Pack	250
700650	Platinum Electrodes	25
700656	Platinum Electrodes - Row Pack	6
700675	Iron Electrodes	25
700700	Stainless Steel Electrodes	25
700700-250	Stainless Steel Electrodes - Bulk Pack	250
700725	Cobalt Electrodes	25
700750	Nickel Electrodes	25
700800	NiChrom Electrodes	25
700800-250	NiChrom Electrodes - Bulk Pack	250
700825	Silver Electrodes	25
700850	Copper Electrodes	25
700875	Tungsten Electrodes	25
700900	Aluminum Electrodes	25
700950	Magnesium Electrodes	25
700400	Electrode Kit. Includes One Pack of Each of Graphite, Zinc, Stainless Steel, Nickel, NiChrom, Aluminum, Copper and Magnesium Electrodes (platinum not included)	Each

Check website for the latest selection of electrodes

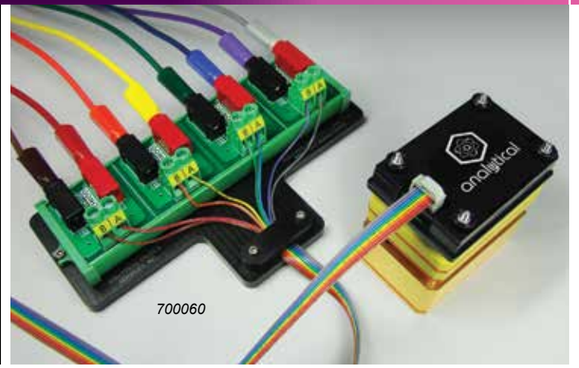
700500

700850

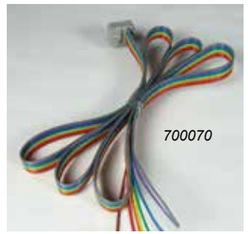
700900

700950

700050



700060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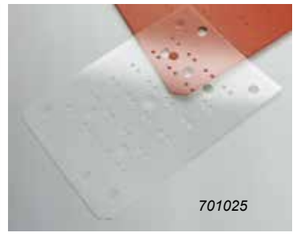
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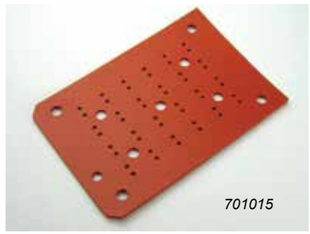
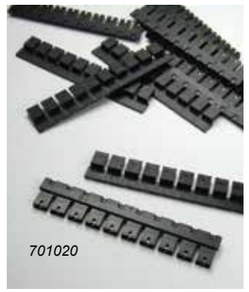
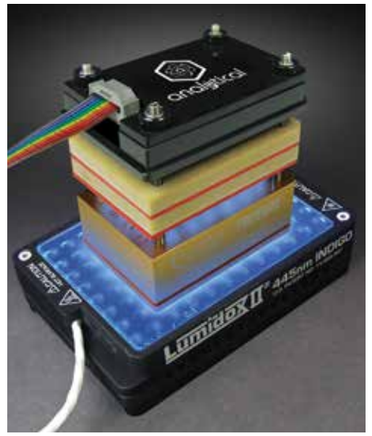

701015

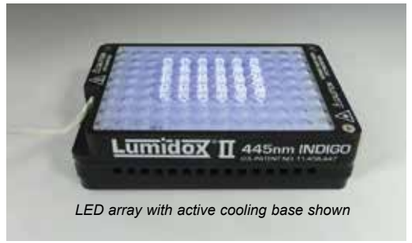
701005


701020

Power Supply and Accessories

Cat. No.	Description	Qty
700050	Calibrated DC Power Supply, 4 Output Multi Range, 420W Combined Output	Each
700060	Breakout Cable Assembly, for use with Calibrated DC Power Supply	Each
700070	Ribbon Cable (if using alternate power supply)	Each
701020	Replacement PCB Jumpers (for constant current setup)	100
701015	Upper Gasket *(recommended: replace after 3-5 uses)*	5
701005	Lower Gasket *(recommended: replace after 3-5 uses)*	5
701025	PFA Sheet for HTe-Chem Assembly *(recommended: replace after every use)*	25
24260	Bottom Rubber Mats	25
84001-CASE	1mL Clear Glass Shell Vial	1000





LED array with active cooling base shown

For experimentation with electrophotochemical reactions, HTe-Chem assemblies are fully compatible for use with Lumidox®II 24-well, 9mm spaced LED arrays.

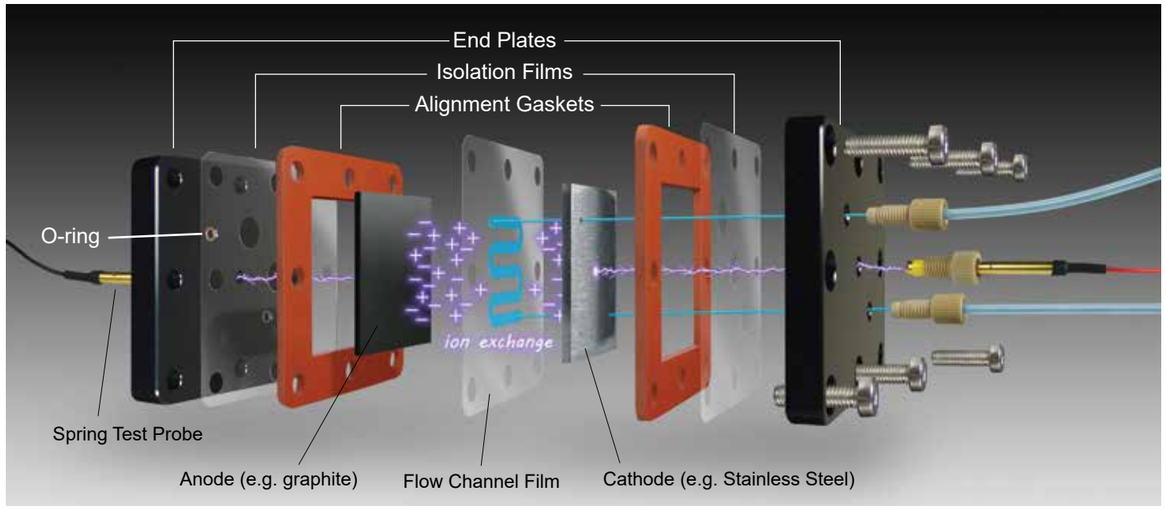
See page 70 for more information

Flow Electrolysis

Analytical is pleased to offer a solution for electrolysis experimentation in the form of a standardized flow electrolysis setup. This new and upcoming technology allows for rapid and efficient production of complex chemical compounds via flow electrolysis. With an interelectrode gap smaller than a millimeter, and the introduction of flow geometries that promote turbulent mixing, our Flow Electrolysis Cell allows for heightened selectivity and yield when compared to flask based reactors. Additionally, the Flow Electrolysis Cell requires minimal new equipment to use. With fittings for 1/8" OD HPLC tubing, fluid flow and electrodes can be connected to power supplies via standard connectors will automatically be varied based on the changing electrical conditions as the reaction progresses.

Undivided Cell (single stream)

In an undivided cell, both electrodes are washed with the same electrolyte and only one fluid circuit is used; the opposite side of the cell is sealed with HPLC plugs and an electrode without through-holes. This allows for low-resistance reactions which will output combined products.



Flow Electrolysis Undivided Cell (single stream) Assembly

Assembly includes:

- Impervious Graphite Plate Electrode (anode)
- 316L Stainless Steel Plate Electrode (cathode)
- Flow Channel PFA Films (1 Meandering, 1 Tangential, 1 Simple, 1 Fin Separator, 1 Flooded Flow)
- Isolation Layer PFA Films (2)
- Orange Silicone Rubber Alignment Gaskets (2)
- Viton® Chemical-resistant Internal O-rings, 2mm ID (2)
- Viton® Chemical-resistant External O-rings, 3mm ID (2)
- Spring Test Probes/Pogo Pins (1 red, 1 black)
- Aluminum End Plates (2)
- Fittings and Hardware

Cat. No.	Description	Qty
F1088100	Flow Electrolysis Undivided Cell Assembly (single stream)	Each

Channel Film Volume

Film Type	Surface Area (mm^2)	Volume at 0.254mm Thick (mm^3)	Volume at 0.127mm Thick (mm^3)
Simple	681.06193	0.26813	0.13407
Tangential	485.74568	0.19124	0.09562
Meandering	631.43901	0.24860	0.12430
Fin Separator	474.58642	0.18685	0.09342
Flooded Flow	1225.17726	311.19502	155.59751

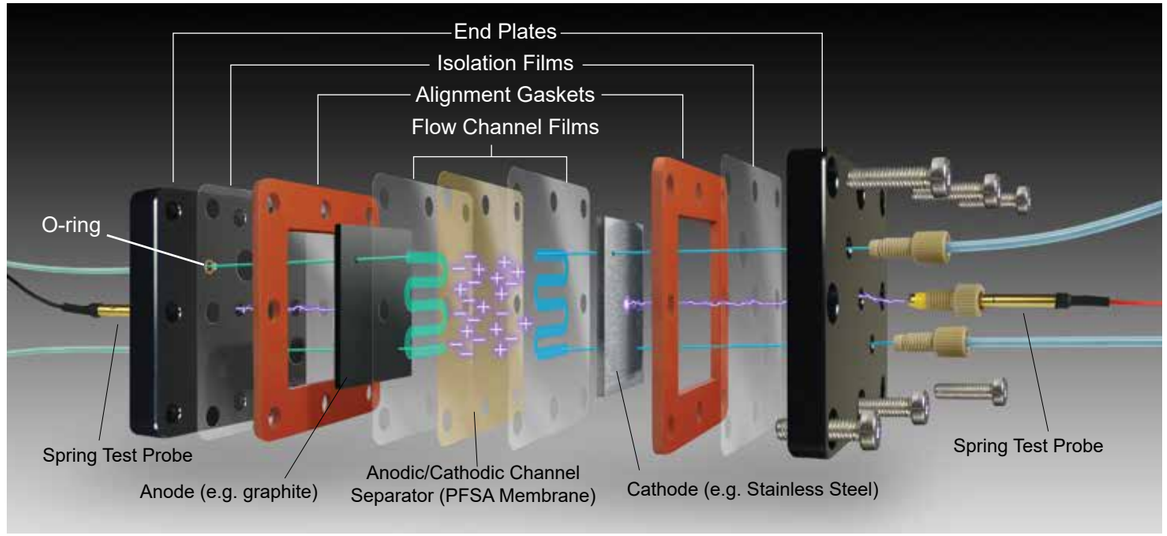
Flow Electrolysis Power Supply

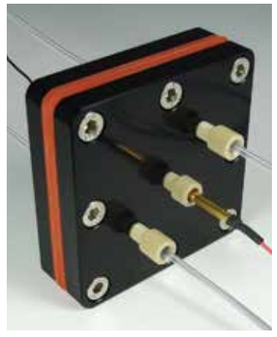
Cat. No.	Description	Qty
F1030050	Flow Electrolysis Power Supply	Each

A full list of accessories and replacement parts can be found on our website

Divided Cell (dual stream)

In a divided cell the electrodes and their flow channels are separated by a PFSA Membrane, allowing for reactions to be performed that produce separate output streams. This can be advantageous if the two electrolyte solutions are incompatible or if the products of their reaction are troublesome to separate.

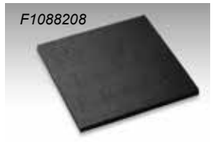




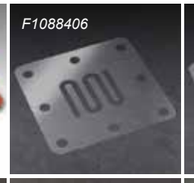
Flow Electrolysis Divided Cell (dual stream) Assembly

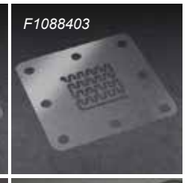
Assembly includes:

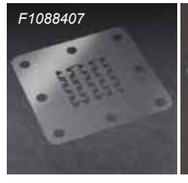
- Impervious Graphite Plate Electrode with holes (anode)
- 316L Stainless Steel Plate Electrode (cathode)
- Flow Channel PFA Films (2 Meandering, 2 Tangential, 2 Simple, 2 Fin separator, 2 Flooded Flow)
- Isolation Layer PFA Films (2)
- PFSA Ion Exchange Channel Separator Membrane
- Orange Silicone Rubber Alignment Gaskets (2)
- Viton® Chemical-resistant Internal O-rings, 2mm ID (4)
- Viton® Chemical-resistant External O-rings, 3mm ID (4)
- Spring Test Probes/Pogo Pins (1 red, 1 black)
- Aluminum End Plates (2)
- Fittings and Hardware
- Use with any low pressure pump

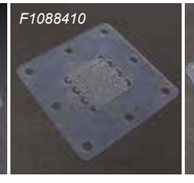


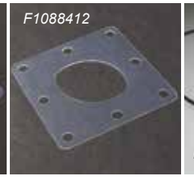
Cat. No.	Description	Qty
F1088200	Flow Electrolysis Divided Cell Ass. (dual stream)	Ea
Electrode Plates		
F1088109	316L SS Plate Electrode (cathode)	Ea
F1088108	Impervious Graphite Plate Electrode (anode)	Ea
F1088208	Impervious Graphite Plate Electrode (anode) w/ Holes	Ea









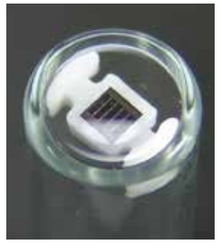


Consumable Accessories

Cat. No.	Description	Qty
F1088405	PFA Isolation Layer Films	25
F1088504	Silicone Rubber Alignment Gaskets	10
F1088406	PFA Simple Channel Films	25
F1088403	PFA Meandering Channel Films	25
F1088407	PFA Tangential Mixer Channel Films	25
F1088410	PFA Fin Separator Channel Films	25
F1088412	PFA Flooded Flow Channel Films	25
F1088201	PFSA Ion Exchange Channel Separator Membrane	Each
F1088302	Viton® Chemical-resistant External O-rings	50
F1088301	Viton® Chemical-resistant Internal O-rings	50
F1088303	Spring Test Probes / Pogo Pins	10
F1030050	Flow Electrolysis Power Supply	Each

NEW! OWiC SPECS Vials for "Light-Powered" Electrochemistry

SPECS are *THE* way to do electrochemistry at scale. No more wires and racks of electronics. All you need is light. You can run hundreds of reactions in parallel, dramatically speeding up electrosynthesis for drug discovery.



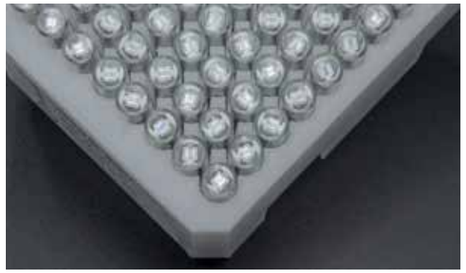
SPECS are tiny photoelectronic devices installed in glass vials. Each SPECS vial uses the light emitted from a Lumidox®II LED array and converts it into electricity inside your sample, creating an electrochemical reaction. SPECS vials make electrochemical synthesis:

- **as easy as photochemistry**
- **highly parallelizable**
- **fit seamlessly into HTE protocols**

Each **SPECS device** is held in place with a press-fit holder (patent pending) to center it, suspend it above the bottom surface of the vial, and protect it from stir bars. The holder is made from chemically resistant polypropylene with no adhesives.

SPECS Vials are available in these sizes:
- 1mL (8 x 30mm) glass vials in a 96-position format
- 4mL (15 x 45mm, 1 dram) glass vials in a 24-position format

Use SPECS Vials in combination with **Para-dox® Reaction Blocks** and **Lumidox®II LED arrays**.



1mL OWiC SPECS Vials

1mL (8 x 30mm) Glass Vials with pre-installed OWiC SPECS

When used with a 96-position Para-dox® Reactor and Lumidox®II LED array, production rates > 3 umol/hr/insert are possible

1mL SPECS Vials are delivered in 96-position racks for easy loading into Para-dox® Reactors. Loading time is literally 5 seconds.

SPECS size: 2mm x 2mm x 0.5mm
Electrodes: Platinum
Holder: 3D printed polypropylene
Current: 20uA per sun of illumination
(1 sun = 1mW/sq mm)
Maximum output voltage: 8 V
Mixing: Compatible with stir bars, orbital shakers, etc.
Usage: Intended for single use for maximum reliability

Catalog No.	Description
SPEC96	1mL (8 x 30mm) Glass Vials with pre-installed SPECS

4mL OWiC SPECS Vials

4mL (15 x 45mm, 1 dram) Glass Vials with pre-installed OWiC SPECS

When used with a 24-position Para-dox® Reactor and Lumidox®II LED array, production rates > 10 umol/hr/insert are possible

SPECS are held in place with a press-fit holder (patent pending) to center them, suspend it above the bottom surface of the vial, and protect them from stir bars. The holder is made from chemically resistant poly-propylene with no adhesives.

4mL SPECS Vials are delivered in 24 position racks.

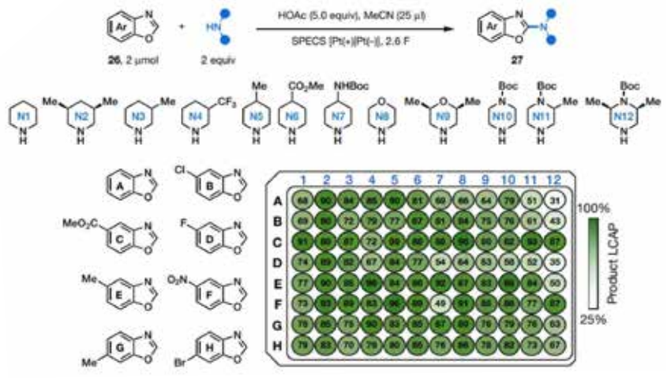
Size: Four 2mm x 2mm x 0.5mm SPECS
Electrodes: Platinum
Holder: 3D printed polypropylene
Current: 100uA per sun of illumination
(1 sun = 1mW/sq mm)
Maximum output voltage: 8 V
Mixing: Compatible with stir bars, orbital shakers, etc.
Usage: Intended for single use for maximum reliability

Catalog No.	Description
SPEC24	4mL (15 x 45mm, 1 dram) Glass Vials with pre-installed SPECS

Library Synthesis

(Fig 3c in Nature 2025)

A library of medicinally relevant heterocycles using the electrochemical dehydrogenate C–H amination of benzoxazoles previously developed by Ackermann and colleagues. This reaction yields 2-aminobenzoxazoles, a structural unit found in numerous biologically active compounds.



Reagant Compatibility

SPECS devices were exposed to various acids and bases for 1 or 20 hours, then washed and tested via the standard TMB assay. Devices remained functional after treatment with TFA, HBF_4, and KOH, but are rapidly degraded by hydrofluoric acid sources.

		Working devices after:	
Entry	Reagent	1 h	20 h
1	20% TFA in H_2O	2/2	2/2
2	20% HBF_4 in H_2O	2/2	2/2
3	4M HCl in dioxane	2/2	2/2
4	20% KOH in H_2O	2/2	2/2
5	1M *t*BuOLi in THF	2/2	2/2
6	1M TBAOH in MeOH	2/2	2/2
7	1M TBAF in THF	2/2	2/2
8	KHF_2 solution in H_2O (sat.)	0/2	0/2
9	70% HF in pyridine	0/2	0/2
10	NEt_3•3HF (neat)	2/2	0/2

monocon™

Controls 1 Gen II HotSleeve+ column heaters*

Controls up to 4 Gen II HotSleeve+ column heaters*

multicon™

Cat. No.	Description
Monocon	Monocon Gen II Single Column Heater Sleeve Controller
Multicon	Multicon Gen II Multiple Column Heater Sleeve Controller

NEW! Gen II Column Heater Controllers

The **Monocon**™ and **Multicon**™ are the latest column heater sleeve controllers from Analytical. They are the next generation of the original MonoSleeve™ and MultiSleeve™, and control Analytical's new **Gen II** HotSleeve+ column heaters.

Significant new features include:

Touchscreen Interface
- Provides simple and intuitive interaction with the device
- Provides greater utility to operators by allowing for gloved operation
- Tabbed, modern and familiar

Continuous Display of Critical Performance Data, Including:
- Current temperature
- Set point temperature
- Elapsed time or time remaining until automated cutoff
- Activation status of heating unit
- Specifications and parameters of active heaters

High Power Operation
- Support for heaters with a temperature range of 5ºC above ambient to 130ºC
- Faster heater to-temperature time allowing for decreased downtime
- Supports 250 W heaters allowing for increased performance and higher capacity operation
- Supports Peltier coolers

Screen Lock
- Prevents accidental touches from changing settings

Stacking Enclosures
- Preserves space by allowing multiple devices to share the same 16.5" x 11" vertical footprint

1000 Hour Maximum Timer Limit
- Provides users with the time that they need to collect all necessary data

USB Connectivity
- For PC connection

Modbus RS485
- Allows the controller to be connected as part of a Modbus RS485 chain. This allows up to 31 controllers to be used simultaneously.
- A list of Modbus serial commands is available

Monocon - Back

Multicon - Back

Touchscreen Interface

IMPORTANT: Gen II HotSleeve+ and AgileSleeve+ heaters can only be used with Gen II controllers (Monocon or Multicon)

NEW! Gen II HotSleeve™+

Self-Calibrating "Smart" Column Heaters

The **Gen II HotSleeve+** is the second generation of the HotSleeve+ column heater, and the third iteration of the original Hot Sleeve. Use with either the *NEW* **MULTICON**™ Gen II multiple heater controller or the *NEW* **MONOCON**™ Gen II single heater controller, sold separately.

- Inner diameter: 0.65" – Improved internal geometry accommodates a superior fit for analytical columns
- Models designed to fit columns ranging from 5cm to 30cm long
- Temperature range: 5ºC above ambient to 130ºC
- Robust, high temperature VELCRO® fastener provides superior performance when compared to Gen I HotSleeve+ snap fasteners

Cat. No.	Description
HS2-5L	Gen II, HotSleeve+ Self-Calibrating "Smart" Heater for 5cm Columns
HS2-10L	Gen II, HotSleeve+ Self-Calibrating "Smart" Heater for 10cm Columns
HS2-15L	Gen II, HotSleeve+ Self-Calibrating "Smart" Heater for 15cm Columns
HS2-25L	Gen II, HotSleeve+ Self-Calibrating "Smart" Heater for 25cm Columns
HS2-30L	Gen II, HotSleeve+ Self-Calibrating "Smart" Heater for 30cm Columns
HS2-1012L	Gen II, HotSleeve+ 1.0" ID x 12" Long Prep-Size Column Heater
HS2-1512L	Gen II, HotSleeve+ 1.5" ID x 12" Long Prep-Size Column Heater
HS2-2012L	Gen II, HotSleeve+ 2.0" ID x 12" Long Prep-Size Column Heater

1/8" ID AgileSleeve options may be available

NEW! Gen II AgileSleeve+®

The Gen II AgileSleeve+® is the second generation of the AgileSleeve+ column heater, and the third iteration of the original AgileSleeve.

Heats to twice the temperature of Gen I AgileSleeve+ (200° vs 100°C)!

AgileSleeve II slides over a small diameter capillary column, nanospray line, injector line, or pre-column line before the end fittings are attached. This flexible heater provides a quick response, using our well-established **Multicon/Monocon** controller technology, providing a controlled temperature range from 35ºC to 200ºC. It is available in a variety of lengths up to 100cm, with an ID of 1/16".

Cat. No.	Description
AS2-01016	Gen II AgileSleeve+, 10cm
AS2-02016	Gen II AgileSleeve+, 20cm
AS2-03016	Gen II AgileSleeve+, 30cm

Cat. No.	Description
AS2-04016	Gen II AgileSleeve+, 40cm
AS2-06016	Gen II AgileSleeve+, 60cm
AS2-10016	Gen II AgileSleeve+, 100cm

Shown with heater (not included)

MonoSLEEVE™ Controller

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

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

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

Shown with heaters (not included)

MultiSLEEVE™ Controller

- **Controls up to 4 column heaters simultaneously**
- **Self-calibrating**
- **Plug & Play smart heater technology**
- **Heats capillary Columns, N_2, sheath gas lines, etc.**
- **4 independent channels**
- **Used in multiplexing applications**
- **Temperature range from 25ºC to 85ºC**
- **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 **HotSleeve+**™ * and/or **AgileSleeve+**® * heaters it maintains four independent channels simultaneously and accurately while reducing overall equipment costs.

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

TECH TIP:

A temperature fluctuation as little as 2ºC in either direction is enough to adversely effect the performance of even the most tried and true methods. HotSleeve+ and AgileSleeve+ heaters are accurate to within ± 0.1ºC, ensuring optimum performance.

Born in NEW JERSEY, Made in the USA

** HotSleeve+ is the "smart" version of the original HotSleeve. AgileSleeve+ is the "smart" version of AgileSleeve.* ***Note: MonoSLEEVE and MultiSLEEVE will only accept HotSleeve+ and AgileSleeve+ heaters.***

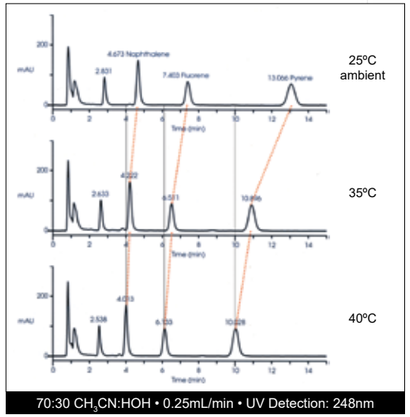
CE All Analytical Sales and Services, Inc. heater products carry the value recognized CE mark. Each heater meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

HotSleeve+™

Column Heater

- **Self-calibrating**
- **Temperature range from 5ºC above ambient to 85ºC**
- **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**

Born in NEW JERSEY, Made in the USA



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

The **HotSleeve+** 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 14" in length.

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

HotSleeve+ Analytical Size Column Heaters

Cat. No.	Description
HSI-5L	HotSleeve+ for 5cm Columns
HSI-10L	HotSleeve+ for 10cm Columns
HSI-15L	HotSleeve+ for 15cm Columns
HSI-25L	HotSleeve+ for 25cm Columns
HSI-30L	HotSleeve+ for 30cm Columns

HotSleeve+ Prep Size Column Heaters

Cat. No.	Description
HSI-0814L	HotSleeve+ - 0.8" x 14"
HSI-1005L	HotSleeve+ - 1" x 5"
HSI-1012L	HotSleeve+ - 1" x 12"
HSI-1014L	HotSleeve+ - 1" x 14"
HSI-1512L	HotSleeve+ - 1.5" x 2"
HSI-1712L	HotSleeve+ - 1.75" x 12"
HSI-2012L	HotSleeve+ - 2" x 12"
HSI-3512L	HotSleeve+ - 3.5" x 12"

Column CapWrap™

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

Cat. No.	Description
CapWrap5	2.5cm x 5cm
CapWrap10	2.5cm x 10cm
CapWrap15	2.5cm x 15cm
CapWrap25	2.5cm x 25cm
CapWrap30	2.5cm x 30cm

AgileSleeve+®

Flexible Capillary Heater

- **Self-calibrating**
- **Accurate from 5ºC above ambient to 100ºC**
- **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+ 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 60cm, with IDs of 1/32" or 1/16". Each is color-coded for quick diameter identification.

AgileSleeve+ replaces the original AgileSleeve heater and uses "smart" Plug & Play technology. Use with either the **MultiSLEEVE**™ controller or the **MonoSLEEVE**™ controller only, sold separately.

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

AgileSleeve+ is also available in custom lengths - call for details

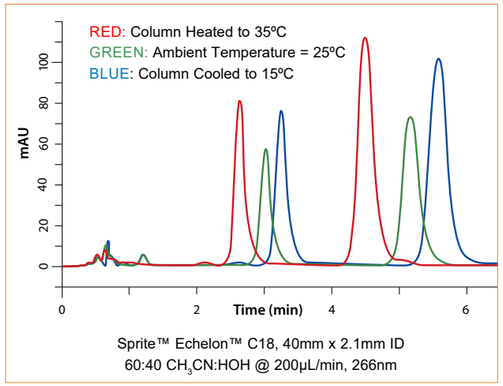
Born in NEW JERSEY
Made in the USA

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 5º to 55ºC with 0.2ºC accuracy. A double insulated cover maintains temperature stability within the chamber ± 0.2ºC. 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.

• For chiral applications

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



Sprite™ Echelon™ C18, 40mm x 2.1mm ID
60:40 CH_3CN:HOH @ 200µL/min, 266nm

CE All Analytical Sales and Services, Inc. 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.

PRODUCT NOTE:

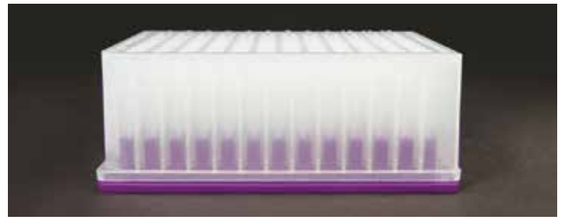
The Temperature Control Module is custom designed to offer optimum performance in heating applications. It has fast 100Hz sampling that improves control responsiveness, variable time base burst firing that increases the heater life and gives better temperature controllability, and a compact size which allows it to be placed in small areas.

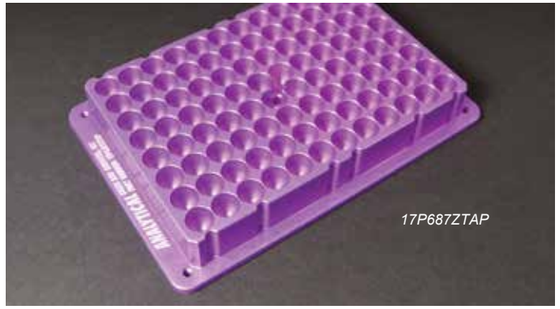
Thermal Adapter Plates

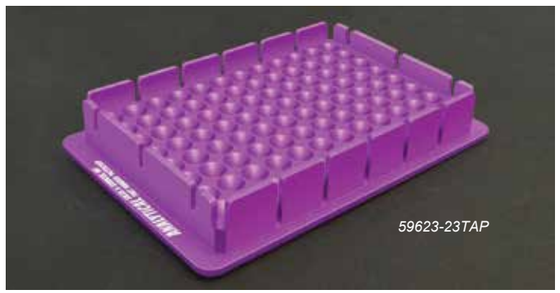
- **For improved temperature transfer to samples**
- **For use with matching polypropylene collection plates**

Our Thermal Adapter Plates conform to the well shape of their complementing polypropylene collection plate. They ensure uniform thermal transfer for heating and cooling when used in conjunction with a heating block or chiller (not included). The plate features a SLAS footprint and easy to identify purple anodized coating.

Analytical can make Thermal Adapter Plates to accommodate any shape and style polypropylene collection plate we offer. Please call 973-616-0700 for more information.

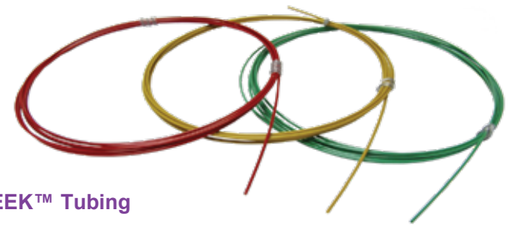






Thermal Adapter Plates

Cat. No.	Description	Qty
967720TAP	Thermal Adapter Plate for 967720 PP Collection Plate	Each
967720	2mL Round Well/Round Bottom 96-Well Collection Plate	25
59623-23TAP	Thermal Adapter Plate for 59623-23 PP Collection Plate	Each
59623-23	2mL Round Well/V-Bottom 96-Well Collection Plate	25
968810TAP	Thermal Adapter Plate for 1mL Truetaper® Collection Plate	Each
968810	1mL Truetaper® Collection Plate	25
968820TAP	Thermal Adapter Plate for 2mL Truetaper® Collection Plate	Each
968820	2mL Truetaper® Collection Plate	25
17P687ZTAP	Thermal Adapter Plate for 17P687Z PP Collection Plate	Each
17P687Z	1mL 17P687Z PP Collection Plate	25
38200TAP	Thermal Adapter Plate for 38200 PP Collection Plate	Each
38200	200µL 384-Well PP Collection Plate	24
FLATTAP	Thermal Adapter Plate for Flat-Bottom Collection Plates	Each
TAPSCREW	18-8 SS Hex Drive Screw, Length: 1", Thread Size: 6-32	100
TAPWASH	Cadmium-Plated Steel Mil. Spec. Washers	200



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
69-1205	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	840µm (0.033") ID, for 785-825µm 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 Tubing Cutter

Cat. No.	Description
49327	Tubing Cutter for 1/16" - 1/8" OD PEEK™ Tubing
49328	Replacement Blades for 49327

Rotary SS Tubing Cutter

Cat. No.	Description
TT1001	Terry Tool Rotary Stainless Steel Tubing Cutter for 1/16" OD Tubing
TT1002	Terry Tool Rotary Stainless Steel Tubing Cutter for 1/8" OD Tubing
TT1003	Terry Tool Replacement Blades

Polymer Tubing Cutter

Cat. No.	Description
1651	Polymer Tubing Cutter with 5 port sizes
1652	Replacement Blade for PN 1651

Pre-Cut Stainless SteelTubing *(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
4132-04	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

Hastelloy Tubing

- for continuous process or flow chemistry
- for high pressure and temperature reactions
- Corrosion resistant

Cat. No.	Description	Length	Qty
791201	Hastelloy C Tubing, 1/16" OD x .020" ID	1'	Each
791205	Hastelloy C Tubing, 1/16" OD x .020" ID	5'	Each
791210	Hastelloy C Tubing, 1/16" OD x .020" ID	10'	Each
791301	Hastelloy C Tubing, 1/16" OD x .030" ID	1'	Each
791305	Hastelloy C Tubing, 1/16" OD x .030" ID	5'	Each
791310	Hastelloy C Tubing, 1/16" OD x .030" ID	10'	Each
791401	Hastelloy C Tubing, 1/16" OD x .040" ID	1'	Each
791405	Hastelloy C Tubing, 1/16" OD x .040" ID	5'	Each
791410	Hastelloy C Tubing, 1/16" OD x .040" ID	10'	Each
792701	Hastelloy C Tubing, 1/8" OD x .070" ID	1'	Each
792705	Hastelloy C Tubing, 1/8" OD x .070" ID	5'	Each
792710	Hastelloy C Tubing, 1/8" OD x .070" ID	10'	Each
792851	Hastelloy C Tubing, 1/8" OD x .085" ID	1'	Each
792855	Hastelloy C Tubing, 1/8" OD x .085" ID	5'	Each
792810	Hastelloy C Tubing, 1/8" OD x .085" ID	10'	Each

FEP Tubing

Made with Teflon® Resin

1/16" OD

Cat. No.	Description	Max. Press.	Length
4152-74	FEP Tubing, 1/16" OD x 0.01" ID	3000psi	20'
4154-84	FEP Tubing, 1/16" OD x 0.02" ID	2000psi	20'
4152-04	FEP Tubing, 1/16" OD x 0.03" ID	1000psi	20'

1/8" OD x 1/16" ID

Cat. No.	Description	Max. Press.	Length
4152-34	FEP Tubing, 1/8" OD x 1/16" ID	500psi	10'
415993	FEP Tubing, 1/8" OD x 1/16" ID	500psi	50'
415993-46IN	FEP Tubing, 1/8" OD x 1/16" ID	500psi	46"

3/16" OD x 0.125" ID (Waters® Pumps)

Cat. No.	Description	Max. Press.	Length
41524-L4	FEP Tubing, 3/16" OD x 0.125" ID	500psi	50'
41524-XL4	FEP Tubing, 3/16" OD x 0.125" ID	500psi	100'

1/4" OD x 0.188" ID

Cat. No.	Description	Max. Press.	Length
41650-L4	FEP Tubing, 1/4" OD x .188" ID	250psi	50'

PFA Tubing

Made with Teflon® Resin

Cat. No.	Description	Max. Press.	Length
41507-L4	PFA Tubing, 1/16" OD x .040" ID	500psi	50'
41509-L4	PFA Tubing, 1/8" OD x 1/16" ID	500psi	50'
41650-L4	FEP® Tubing, 1/4" OD x .188" ID x 50'	250psi	50'

ETFE (Tefzel®) Tubing

Made with Teflon® Resin

Cat. No.	Description	Max. Press.	Length
4153-04	ETFE (Tefzel) Tubing, 1/8" OD x 1/16" ID	1000psi	5'

PRODUCT NOTE:

FEP, PFA, ETFE - great chemical compatibility with all solvents. This tubing is commonly used as the feed lines from mobile phase bottles to pumps.

FlexChrom®

Flexible Stainless Steel Tubing

Assemblies

UHPLC, Pre-Finished, One-Piece Flexible Stainless Steel Tubing with Finger Tight Stainless Steel Fittings

Rated to 27,000 psi

HAND TIGHTEN ONLY!

- 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

Born in NEW JERSEY, Made in the USA

Replacement Graphite Ferrules

Cat. No.	Dimensions	Qty
68566-1	One-Piece Ferrule System	5

1/16" Flexible SS Tubing with SS Fingertight Fittings

Stainless Steel Tubing with No End Fittings

Cat. No.	Dimensions	Qty
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
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
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
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
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
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
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
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
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

Finger Tight Stainless Steel Fittings on 1/16" OD Stainless Steel Tubing

Rated to 27,000 psi

HAND TIGHTEN ONLY!

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***

Born in NEW JERSEY, Made in the USA

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

Replacement Graphite Ferrules

Cat. No.	Dimensions	Qty
68566-1	One-Piece Ferrule System	5

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

0.004" Inner Diameter is also available as well as longer tubing lengths - call for details

See our website for instructional video

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
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

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

Two Piece Fingertight Fittings - *for 1/16" OD Tubing*

• Rated to **6,000 psi**

Cat No.	Qty
66519-1	5

PEEK™ Fitting w/ 55142 Ferrules, 10-32 Threads

Cat No.	Qty
55330X	10

Long PEEK™ Fitting w/ 55142 Ferrules, 10-32

Cat No.	Qty
55142X	10

PEEK Ferrules for 10-32 Fingertight Fittings

Cat No.	Qty
55142NX	10

Natural Tefzel (ETFE) Ferrules for 10-32 Fingertight Fittings

Cat No.	Qty
55162	Each

PEEK Ferrules for 1/4-28 Fingertight Fittings

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
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
46000-1094	5

10-32, 1/16" OD SS Fittings Set

Cat No.	Qty
46000-1114	5

10-32, 1/16" OD SS Long Fittings Set

Cat No.	Qty
46000-1624	5

10-32, 1/16" OD SS X-Long Fittings Set

Cat No.	Qty
46000-1104	5

Replacement SS Ferrules for 10-32, 1/16" OD SS Fittings

Cat No.	Qty
46000-0824	Each

5/16-24", SS Fittings Set for 1/8" OD Tubing

Rheodyne® RheFlex® PEEK™ Two Piece Fittings

for Cone-Bottom Ports

Cat No.	Qty
46000-0544	5

10-32, 1/16" OD PEEK Fittings Set

Cat No.	Qty
46000-0554	5

10-32, 1/16" OD PEEK Short Fittings Set

Cat No.	Qty
46000-0514	5

10-32, 1/16" OD PEEK Replacement Ferrules

Cat No.	Qty
46000-0904	5

10-32, 1/16" OD PEEK Plug

Cat No.	Qty
46000-0784	Each

5/16-24, 1/8" OD PEEK™ Fittings Set

Cat No.	Qty
46000-3604	10

M4, for 1/32" OD Tubing

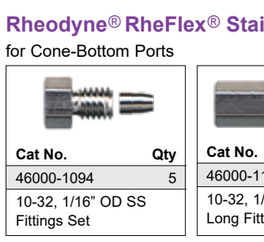
PEEK™ Ultra High Pressure Fingertight Fittings

One-Piece Fittings

66518-3

60126X

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
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 RIng	16,500 psi	10
60132X	PEEK Ferrule for 1/32" OD Tubing w/ SS Ring	16,500 psi	10

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

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

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 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*

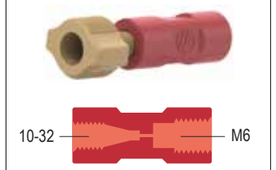
Cat. No.	Description	Qty
4143-15	Advantage™ Custom Stainless Steel HPLC Fittings Kit. Includes: 4 Stainless Steel ZDV Unions, 2 Pkgs Each Stainless Steel Nuts and Ferrules	Each

Stainless Steel Tubing & Fittings Kit - *for **1/16”** OD Tubing*

• For use with Waters® HPLC Systems

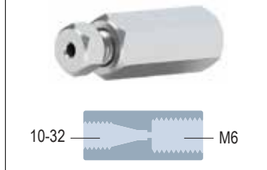
Cat. No.	Description	Qty
4140-11	Custom Stainless Steel Fittings Kit for Waters® HPLC Systems. Includes: Nuts, Ferrules, Unions, Rheodyne® Fittings and Both 0.01” and 0.02” ID Pre-cut Tubing.	Each

10-32 Female to Female Adapters - *for **1/16”** OD Tubing*



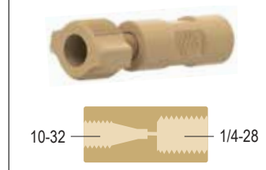
Cat No.	Qty
59626	Each

PEEK™ Adapter, 0.020”ID, 10-32 to M6



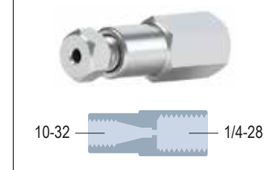
Cat No.	Qty
415874	Each

Stainless Steel Adapter, 0.040” ID, 10-32 to M6



Cat No.	Qty
59627	Each

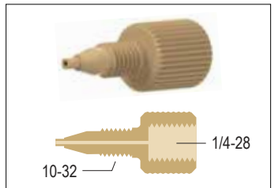
PEEK™ Adapter, 0.020”ID, 10-32 to 1/4-28



Cat No.	Qty
415834	Each

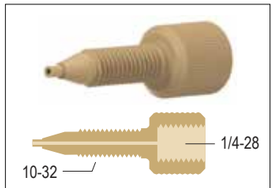
Stainless Steel Adapter, 0.040” ID, 10-32 to 1/4-28

1/4-28 Female to Male Adapters - *for **1/16”** OD Tubing*



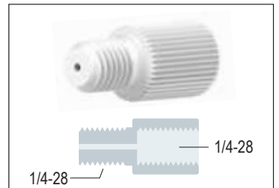
Cat No.	Qty
59652	Each

PEEK™ Long Adapter, 0.030”ID, 1/4-28 Female to 10-32 Coned Male



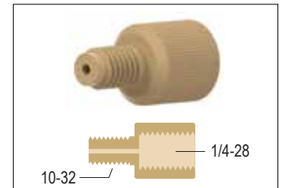
Cat No.	Qty
59654	Each

PEEK Extra-Long Adapter 0.030”ID, 1/4-28 Female to 10-32 Coned Male



Cat No.	Qty
59671	Each

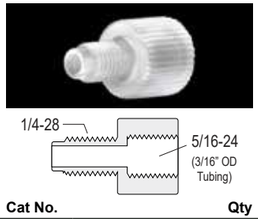
Teflon® Adapter, 0.040”ID, 1/4-28 Female to 1/4-28 Flat Male



Cat No.	Qty
59672	Each

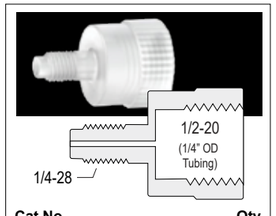
PEEK™ Adapter, 0.050”ID, 1/4-28 Female to 10-32 Flat Male

1/4-28 Male to Female Adapters



Cat No.	Qty
59681	Each

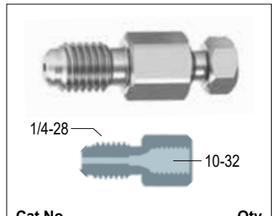
Kel-F® (PCTFE) Adapter, 1/4-28 Flat Male to 5/16-24 Flat Female



Cat No.	Qty
59684	Each

Kel-F® (PCTFE) Adapter, 1/4-28 Flat Male to 1/2-20 Female

1/4-28 M to 10-32 F



Cat No.	Qty
415914	Each

Stainless Steel Adapter, 0.040” ID, 1/4-28 Male to 10-32 Female

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 ZDV Union, 10-32, 0.020" ID

Cat No.	Qty
66414-2	Each

PEEK ZDV Union, 10-32, 0.010" ID

Cat No.	Qty
59742-01	Each

10-32 ZDV Union 0.010" ID w/o Fittings

For 1/8" OD Tubing

Cat No.	Qty
59703	Each

PEEK Webbed Union Assembly for 1/8" Tubing, 0.05" ID, 1/4-28

Large Bore Stainless Steel Unions & Fittings - *for 1/8" OD Tubing*

Cat No.	Qty
415924	Each

SS Adapter, 0.04" ID, 1/16" Female to 1/8" Female

Cat No.	Qty
52235X	10

SS Male Nut, 1/4-28 Coned, for 1/8" OD

Cat No.	Qty
52236	Each

Replacement SS Ferrule for 1/8" OD Tubing

PEEK™ MicroTee

For 1/16" OD Tubing

- Thru-Hole: 0.006" (0.150µm)
- Void Volume: 58nL
- 5000 psi

Cat. No.	Description	Qty
59890	MicroTee for 1/16" Tubing. Includes (3) 55132 Micro Ferrules, (3) 59416 Female Nuts	Each

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

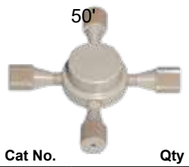
PEEK Tee 0.020" ID, Body Only

Cat No.	Qty
59728	Each

PEEK™ Tee, 0.05" ID

Cat No.	Qty
1625	Each

PEEK™ Tee, 0.01" ID



Cat No.	Qty
1626	Each

PEEK™ Cross, 0.01" ID

Cat No.	Qty
64428	Each

SS Tee, 0.020" ID

Cat No.	Qty
64429	Each

SS Tee, 0.040" ID

Cat No.	Qty
1602	Each

SS Tee, 0.25mm ID

Cat No.	Qty
1603	Each

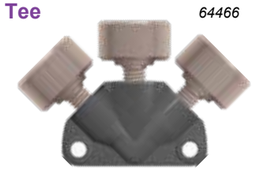
SS Cross, 0.25mm ID

PEEK™ Static Mixing Tee

64466

For 1/16" OD Tubing

- PEEK body with two-piece fingertight fittings
- Low swept volume
- 5000psi
- 0.5-3mL
- 0.020" thru-hole



Cat. No.	Description	Qty
64466	High Pressure Mixer w/ 10µm UHMWPE Frit	Each
64466S	High Pressure Mixer w/ 10µm Stainless Steel Frit	Each

Stainless Steel & PEEK™ Manifolds

For 1/16" OD Tubing

2576

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.

Standard Fittings

For 1/16" OD Tubing

Cat No.	Qty
66212-4	Each

Stainless Steel ZDV Union, .02" ID, 0.10µL Swept Volume

Cat No.	Qty
64450X	10

Stainless Steel Nut, M6 Coned Port

Cat No.	Qty
64410X	10

Stainless Steel Nut, Waters Compatible

Cat No.	Qty
64401X	10

Stainless Steel Ferrule, 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

For 1/8" OD Tubing

Cat No.	Qty
52235X	10

Stainless Steel Nut, 1/4-28 port ***for 1/8" OD Tubing***

Cat No.	Qty
52236X	10

SS Ferrule, 1/4-28 Port ***for 1/8" OD Tubing***

Rheodyne® 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

Stainless Steel Replacement Ferrules

Valco Fittings

For 1/16" OD Tubing

Cat No.		Qty
64322	Stain. Steel	Ea
1618	Hastelloy C	Ea
HCU116	Hastelloy C22	Ea

ZDV Union .02", 0.103µL Swept Volume

Cat No.		Qty
1602	Stain. Steel	Ea
HCT116	Hastelloy C22	Ea

Tee, 0.25mm (0.009") ID

Cat No.	Qty
ADV-VN5	Ea

Stainless Steel Nut

Cat No.	Qty
1608	Ea

SS Column Plugs, 5/16"-24

Cat No.		Qty
1615		Ea

Stainless Steel Union, 21.6mm x 0.25mm (0.009") ID

Cat No.		Qty
1603	Stain. Steel	Ea
HCX116	Hastelloy C22	Ea

Cross, 0.25mm (0.009") ID

Cat No.		Qty
ADV-VF5	Stain. Steel	Ea
1531HC	Hastelloy C	Ea
HCF116	Hastelloy C22	Ea

Ferrule, 1/16"

For 1/8" OD Tubing

Cat No.	Qty
1610	Each

SS Column Plug, 5/16"-24 ports, ***for 1/8" OD Tubing***

Ultra High Pressure (UHP) Unions for Capillary Tubing

- Rated to 15,000 psi at room temperature
- Stainless Steel bodies with PEEK end fittings
- Direct Connect both 1/32" OD tubing & 360µm OD tubing

Cat No.	Qty
83132	Each

UHP PEEK/SS Union for 1/32" OD Tubing. Includes Nuts & Ferrules, 0.006 " ID, 5nL Dead Vol.

Cat No.	Qty
83360	Each

UHP PEEK/SS Union for 360µm OD Tubing. Includes Nuts & Ferrules, 0.006" ID, 5nL Dead Vol.

Cat No.	Qty
83133	Each

UHP True ZDV PEEK/SS Union for 1/32" OD Tubing. Includes Fittings & Gauge Plug

Ultra High Pressure (UHP) Stainless Steel Connectors - *for 1/16" OD Tubing* • Rated to 20,000 psi

Cat No.	Qty
84161	Each

SS UHP ZDV Union, 0.020" ID

Cat No.	Qty
64411	Each

SS UHP ZDV Union, .007 ID

Cat No.	Qty
84163	Each

SS UHP Tee, 0.020" ID

Cat No.	Qty
84174	Each

SS UHP Cross, 0.020" ID

Cat No.	Qty
84175	Each

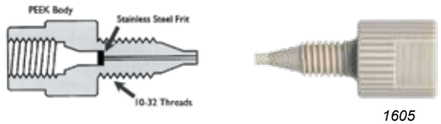
SS UHP Adapter for 1/16" to 1/32" OD Tubing

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!



1605

Cat. No.	Qty
1605	Each
Advantage™ 0.5µm Direct Connect Fingertight Pre-Column Filter	

Cat. No.		Qty
1620	***BEST SELLER***	Each
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 psi

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

49430

49429X

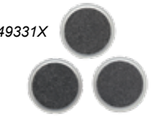
Biocompatible Inline Filters for Analytical HPLC Systems

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

49330



49331X

High Pressure Semi-Prep Inline Filters

For SFC, place before the mixer

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
49360	Semi-Prep Inline Filter for 1/8” OD Stainless Steel Tubing	Each

Prep Inline Filter

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
702021	Replacement O-ring, Polyurethane	Each
49233	Replacement O-Ring for Prep Inline 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
48555	Each
Low Dead Volume UHPLC SS Inline Filter Holder with 0.5µm x 0.062” SS Frit (48513)	

Cat No.	Qty
48513	5
0.5µm x 0.062” SS Replacement Frit, 2µL	

Inline Filter (Between pump & injector)

Cat No.	Qty
49314	Each
SS Inline Filter w/ 2µm Frit, (49100X)	

Cat No.	Qty
49100X	10
2µm SS 0.250” SS Replacement Frit	

Cat No.	Qty
48135	Each
Low Volume, Inline Filter w/ 2µm Frit, (48155)	

Cat No.	Qty
48155	10
2µm x 0.250” SS Replacement Frit	

Cat No.	Qty
48335	Each
Low Volume Inline Filter w/ 0.5µm Frit (48313)	

Cat No.	Qty
48313	5
0.5µm x 0.250” SS Replacement Frit	

Pre-Column Filters

Cat No.	Qty
49315	Each
SS Pre-Column Filter with 2µm Frit (49101X)	

Cat No.	Qty
49316	Each
SS Pre-Column Filter with 0.5µm Frit (49102X)	

Cat No.	Qty
49101X	10
2µm SS Replacement Frit, .062” x .062” x 0.250”	

Cat No.	Qty
49103X	10
0.5µm SS Replacement Frit, .094” x .062” x 0.250”	

Cat No.	Qty
52401X	10
2µm SS Replacement Frit, .125” x .062” x 0.250”	

Cat No.	Qty
49356	Each
PEEK™ Pre-Column Filter w/ .5µm Frit (49701)	

Cat No.	Qty
49355	Each
PEEK™ Pre-Column Filter w/ 2µm Frit (49700)	

Cat No.	Qty
49700X	10
2µm PEEK™ Replacement Frit, .062” x .062” x 0.250”	

Cat No.	Qty
49701X	10
0.5µm PEEK™ Replacement Frit, .062” x .062” x 0.250”	

Cat No.	Qty
52402X	10
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

49318

Frit
49102X

Cat No.	Qty
49318	Each
SS Pre-Column Filter w/ 0.5µm Frit (49102), 84µL Swept Volume	
49102X	10
0.5µm SS Replacement 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. *Can also be used in 10-32 Flat-Bottom Ports*

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

Short PEEK™ Nuts

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

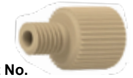
Black Delrin M6 Nut for 1.8, 2.0, 3.0mm & 1/8" OD Tubing

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, *can only be used with 59240X Ferrule*

Cat No.	Qty
59240X	10

Tefzel® Small Valve Flange-less Ferrule for 1/16" OD Tubing, Natural

*For **3/16"** OD Tubing, 5/16 Flat-Bottom Ports*

Cat No.	Qty
59133	Each

Tefzel® Blue Flangeless Ferrule for 3/16" or 4.0mm OD Tubing, Blue

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
59250X	10

PEEK Ferrule w/ Stainless Steel Locking Ring, 1/4-28 or M6 Flat-Bottom Port

Cat No.	Qty
59255X	10

PEEK™ Nuts, 1/4-28 Port

Cat No.	Qty
59259X	10

Yellow ETFE Ferrule w/ Stainless Steel Locking Ring, 1/4-28 Flat-Bottom Port

Cat No.	Qty
59252X	10

Delrin® Nuts, 1/4-28 Port

*For **1/16"** OD Tubing, 10-32 Flat-Bottom Ports*

• Rated to 5,000psi

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

Cat No.	Qty
59387	10

Super Flangeless PPS Nut, Headless, Natural

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

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, 2,000 psi

TECH NOTE:

3/16" OD Tubing Fitting = 5/16-24 Threads
1/4" OD Tubing Fitting = 1/2-20 Threads

*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 **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	DISC

~~PEEK™ ZVD Union, 5/16-24 Female Both Ends~~

Cat No.	Qty
59135	Each

PEEK™ Adapter 1/4-28 F to 5/16-24 F

*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 ½-20 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
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	

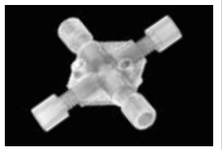
Tefzel® Tees

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	

Cat No.	Qty
59629	Each
Tefzel® Female Luer to 10-32 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
PEEK Natural Male Luer to 10-32 Female	

Cat No.	Qty
59659	Each
PEEK Natural Female Luer to 10-32 Female	

Cat No.	Qty
59655	Each
PEEK Red Male Luer to 1/4-28 Female	

Cat No.	Qty
59658	Each
PEEK Red Female Luer to 1/4-28 Female	

Cat No.	Qty
59660	Each
PEEK Black Female Luer to M6 Female	

Cat No.	Qty
59657	Each
PEEK Black Male Luer to M6 Female	

Tefzel

Cat No.	Qty
59675	Each
Tefzel Red Male Luer to 1/4-28 Female	

Cat No.	Qty
59678	Each
Tefzel Red Female Luer to 1/4-28 Female	

Inline Cartridge Check Valves

- Limit Flow in one direction
- Low Cracking Pressure
- <150µL Internal Volume

Cat No.	Qty
910-3000	Each

Complete Inline Check Valve Assembly

Cat No.	Qty
910-3001	Each

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
59655	Each

Quick Connect Adapter, Luer Male to 1/4-28 Female

Cat No.	Qty
59696	Each

Quick-Stop Luer Check Valve Assembly, Inc: Valve, Luer Adapter & Nut/Washer Set

Cat No.	Qty
59697	Each

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

Switching Valve

Cat No.	Qty
65100L	Each

Right Angle Flow Switching Valve, 4 Ports

Cat No.	Qty
65100T	Each

3-Way Flow Switching Valve, 4 Ports

Cat No.	Qty
65100D	Each

4-Way Diagonal Flow Switching Valve, 4 Ports

Back Pressure Regulators

for 1/16” Tubing

BPR Assembly with SS Holder & Fittings

Cat. No.	Description	Qty
64608	250 psi Cartridge & Fittings	Each
64609	500 psi Cartridge & Fittings	Each

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

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

Shut Off Valves

- Place between solvent reservoir and pump and quickly and safely change solvent with a turn of the switch

Cat No.	Qty
59782	Each

Tefzel®, .02” ID for 1/16” OD Tubing

Cat No.	Qty
59783	Each

Tefzel®, .04” ID for 1/8” OD Tubing

Cat No.	Qty
59311	Each

Tefzel® Plug for 1/4-28 Flat Bottom Ports

Inline Check Valves

- 2,000psi

Standard

Cat No.	Qty
910-3301	Each

Inlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: **15** psi

Cat No.	Qty
910-3302	Each

Outlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: **15** psi

Cat No.	Qty
910-3315	Each

Inlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: **3** psi

Cat No.	Qty
910-3316	Each

Outlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: **3** psi

Nonmetallic

Cat No.	Qty
910-3320	Each

Inlet Check Valve, 1/4-28 M to 1/4-28 F, Cracking Pressure: **1** psi

Cat No.	Qty
910-3340	Each

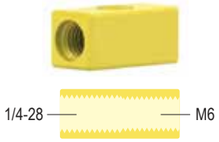
Inlet/Outlet Check Valve, 10-32 F to 10-32 F, Cracking Pressure: **1 psi**

M4 Fittings for 1/32” OD Tubing

Cat No.	Qty
46000-3374	Each

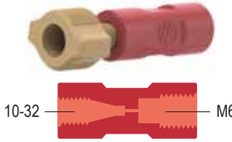
Natural PEEK™ RheFlex Fitting, M4

Metric Adapters



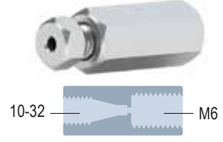
Cat No.	Qty
59621	Each

Tefzel® Metric Adapter, 1/4-28 Female to M6 Female



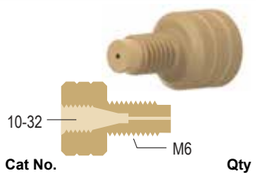
Cat No.	Qty
59626	Each

PEEK™ Adapter, 0.020” ID, 10-32 Female to M6 Female



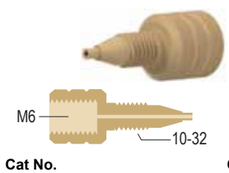
Cat No.	Qty
415874	Each

Stainless Steel Adapter, 0.040” ID, 10-32 Female to M6 Female



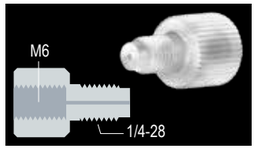
Cat No.	Qty
65011	Each

PEEK™ Adapter, 10-32 Female to M6 Male



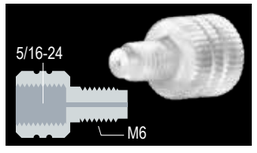
Cat No.	Qty
59650	Each

PEEK™ Adapter, M6 Female to 10-32 Male



Cat No.	Qty
59670	Each

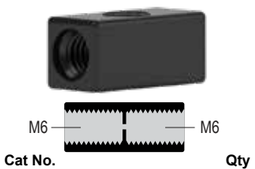
Kel-F Adapter, M6 Female to 1/4-28 Male



Cat No.	Qty
59673	Each

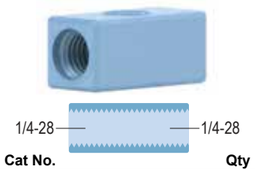
Kel-F® Adapter, 5/16-24 Female to M6 Male

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 Inlet Filter, w/Flangeless Fitting for 1/8”OD Tubing

Cat No.	Qty
49302	Each

10µm SS Inlet Filter with stem for 1/16” ID Tubing

Cat No.	Qty
49220	Each

10µm SS Inlet Filter, for 1/8” OD Tubing, Nut Not Included

Cat No.	Qty
49242	Each

2µm SS Inlet 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

Draws from the Bottom

SS Bottom-of-the-Bottle™ Solvent Filter Assemblies

• 40mL/min

Cat No.	Qty
49551	Each

Replaceable 2µm Filter Assembly for 1/8” OD Tubing

Cat No.	Qty
49522X	10

2µm Stainless Steel Filter Cups

Cat No.	Qty
49550	Each

Replaceable 10µm Filter Assembly for 1/8” OD Tubing

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

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 for Micro Heads

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

1/16” OD SS Tubing Cutter Pliers

Cat No.	Qty
1551	Each

1/16” and 1/8” OD SS Tubing Cutter

1552	Each

Replacement Cutter Wheel

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

TT1003	3

Replacement Blades

Wrenches

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

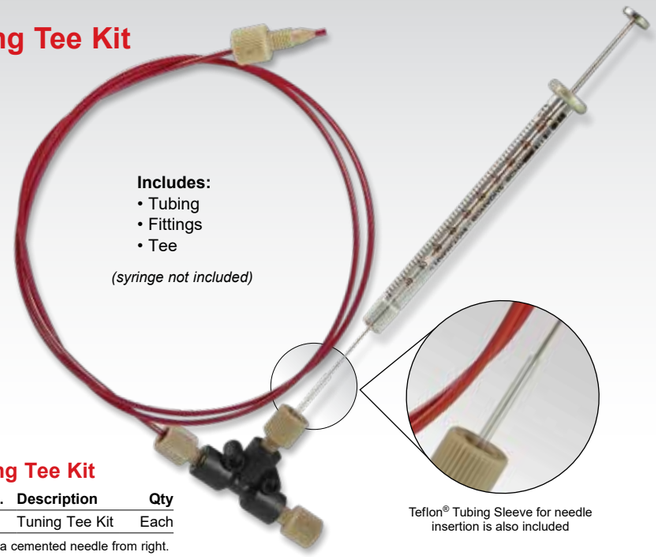
Tubing Clip, Holes for 1/16” and 1/8” OD Polymer Tubing. SS Spring Clip Fits Glassware up to 4mm Thick

Fittings Storage Cabinets

Call for sizes and pricing

Let Analytical 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)

Teflon® Tubing Sleeve for needle insertion is also included

Tuning Tee Kit

Cat. No.	Description	Qty
66126	Tuning Tee Kit	Each

*Choose a cemented needle from right.

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

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

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

Ultra High Pressure Valco Valves for Thermo & CTC Autosamplers

- Rated to 15,000psi
- Stainless steel

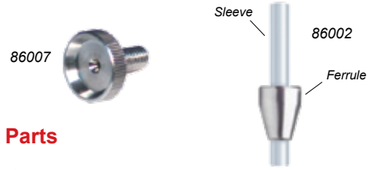
Cat. No.	Description	Qty
8V2172	C72 Vertical 10 Port Injector	Each
8V2672	C72 Vertical 6 Port Injector	Each

Rated to 20,000psi:

8V0620	C72 Vertical 6 Port Injector	Each

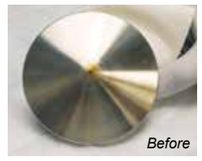
Replacement Parts for 6 Port Injector

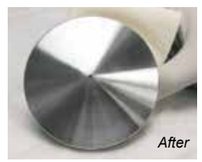
Cat. No.	Description	Qty
97561	Rotor Seal for C72 (C72 - 16R6)	Each
97565	Stator for C72	Each



Replacement Parts

Cat. No.	Description	Qty
86007	22g SS Short Wide Inlet Guide Port for Valco HTS PAL	Each
86002	CTC PAL Needle Guide, Plastic Sleeve, for Valco ***Easy Fit - Feels Like Butter***	5
86002RE	CTC PAL Needle Guide, ***Tight Fit***	5





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 High Pressure Stainless Steel Sample Loops

Cat. No.	Description	Qty
97002	2µL SS Sample Loop	Each
97005	5µL SS Sample Loop	Each

UHPLC Fingertight Sample Loops

Perfect fit for Vici/Valco Ultra High Pressure C72 Valves

Cat. No.	Description	Qty
9997010	10µL SS Sample Loop	Each
9997250	250µL SS Sample Loop	Each
9997500	500µL SS Sample Loop	Each
9997011	1mL SS Sample Loop	Each
9997014	2mL SS Sample Loop	Each
9997015	5mL SS Sample Loop	Each
9997012	10mL SS Sample Loop	Each

Fingertight Sample Loops

- **Fingertight, no tools needed**
- **Rated to 20,000 psi**
- **Stainless Steel**
- **East to Install**

Perfect fit for C6W & C10W HPLC Valves *(see next page)*

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

Valco SS Sample Loops

with End Fittings for W-Type Valves

Cat. No.	Description
SL5CW	5µL Sample Loop
SL2KCW	2mL Sample Loop
SL5KCW	5mL Sample Loop
SL10KCW	10mL Sample Loop

Valco PEEK™ Sample Loops

with End Fittings for W-Type Valves

Cat. No.	Description
SL2CWPK	2µL Sample Loop
SL5CWPK	5µL Sample Loop
SL10CWPK	10µL Sample Loop
SL20CWPK	20µL Sample Loop
SL50CWPK	50µL Sample Loop
SL100CWPK	100 µL Sample Loop
SL500CWPK	500 µL Sample Loop
SL1KCWPK	1mL Sample Loop

Replacement Graphite Ferrules

Cat. No.	Description	Qty
68566-1	One-Piece Ferrule System	5

ADVDC6WK

VALCO Valves & Accessories for CTC LC PAL Autosamplers

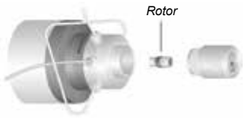
Models C6W & C10W HPLC Valves

Cat. No.	Description	Qty
ADVDC6WK	DC6WK 6 Port Replacement Valve	Each
ADVC6W	C6W 6 Port Manual Injector Valve	Each
ADVDC10W	10 Port Replacement Valve	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

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

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

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
86661	Each

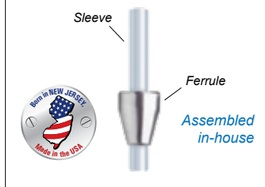
Replacement Liner for Short Port

Cat No.	Qty
85551	Each

Replacement Liner for Long Port

Cat No.	Qty
86007	Each

Short Wide Port for Valco



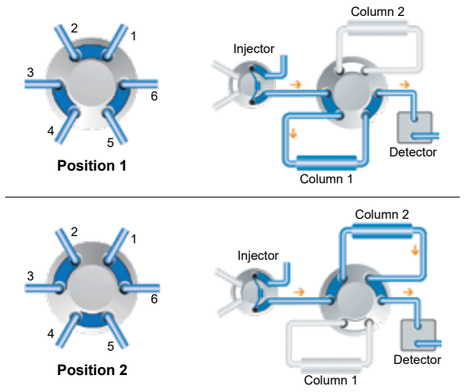
Cat No.	Qty
86002	5

CTC PAL Needle Guide, Plastic Sleeve, for Valco
Easy Fit - Feels Like Butter

86002RE	5

CTC PAL Needle Guide, ***Tight Fit***

VXH593-888 2 Position, 6 Port Switching Valve



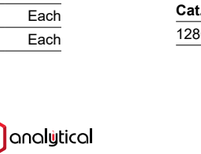
ULTRA High Pressure Automatic Switching & Selector Valves

- **Rated to 15,000psi**
- **Two column selection**
- **Rapid Replacement Pods**
- **Flexible automation with USB and RS-232 remote communication**

Catalog No.	Description	Qty
VXH593-888	2 Position, 6 Port **Switching Valve**, Stainless Steel	Each

VXH Module Specifications:

Maximum Pressure	**15,000 psi (1,034 bar)**
Power Requirements	100-120 VAC, 50-60 Hz
Regulatory Compliance	CE Mark
Remote Control	USB, PC, BCD, Level Logic
Operating Temperature	0º – 40ºC, non-condensing
Storage Temperature	0º – 75ºC
Dimensions	117mm x 76mm x 128mm (4.6" x 3.0" x 5.0")



Replacement Pods

Featuring the Rapid Replacement Pod™ design for easy, zero downtime maintenance

Cat. No.	Description	Qty
PD8888	Replacement Pod for VXH593-888	Each
PD5939	Replacement Pod for VXH593-983	Each

Replacement Stators

Cat. No.	Description	Qty
775938	Stainless Steel Stator for VXH593-888	Each
775939	Stainless Steel Stator for VXH593-888	Each

RheBuild® Kits

Includes 2 Rotor Seals, 2 Wrenches and Instructions

Cat. No.	Description	Qty
3888	RheBuild Kit for VXH593-888	Each
3983	RheBuild Kit for VXH593-983	Each

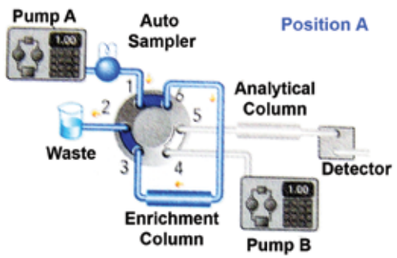
Stainless Steel Sample Loops

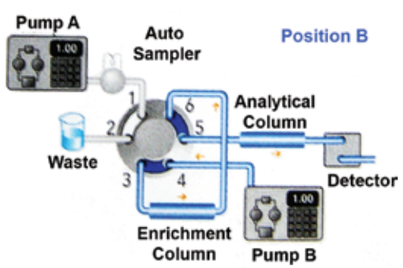
Cat. No.	Description	Qty
894005	5µL Stainless Steel Sample Loop	Each
894010	10µL Stainless Steel Sample Loop	Each
894020	20µL Stainless Steel Sample Loop	Each
894100	100µL Stainless Steel Sample Loop	Each

Replacement Stainless Steel Fittings

Cat. No.	Description	Qty
1286X	SS Nuts & Ferrules	10

VXV Module Specifications:	
Maximum Pressure	**6,000 psi (413 bar)**
Power Requirements	100-120 VAC, 50-60 Hz
Regulatory Compliance	CE Mark
Remote Control	USB, PC, BCD, Level Logic
Operating Temperature	0º – 40ºC, non-condensing
Storage Temperature	0º – 75ºC
Dimensions	117mm x 76mm x 128mm (4.6” x 3.0” x 5.0”)





High Pressure Automatic Switching Valves

- **Rated to 6,000psi**
- **Online sample prep**
- **Column backflushing**
- **Two column selection**

Catalog No.	Description	Qty
VXV5788-000	2 Position, 6 Port Switching Valve, Stainless Steel	Each
VXV7788-000	2 Position, 6 Port Switching Valve, PEEK™	Each

Replacement Pods

Featuring the Rapid Replacement Pod™ design for easy, zero downtime maintenance

Cat. No.	Description	Qty
PD5788	Replacement Pod for 2 Position, 6 Port, Titan/HP	Each
PD5758	Replacement Pod for VXV5758-000	Each
PD7788	Replacement Pod for VXV7788-000	Each
PD7738	Replacement Pod for VXV7738-000	Each

Replacement Stators

Cat. No.	Description	Qty
75788	Stainless Steel Stator for VXV5788-000	Each
75738	Stainless Steel Stator for VXV5738-000	Each
75758	Stainless Steel Stator for VXV5758-000	Each
77788	PEEK™ Stator for VXV7788-000	Each
77738	PEEK™ Stator for VXV7738-000	Each

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
7788	RheBuild® Kit for VXV7788-000, PEEK Rotor Seal	Each
7738	RheBuild® Kit for VXV7738-000, PEEK Rotor Seal	Each

Replacement Fittings

Catalog No.	Description	Qty
46000-3374	PEEK™ One Piece Fitting, M4	Each

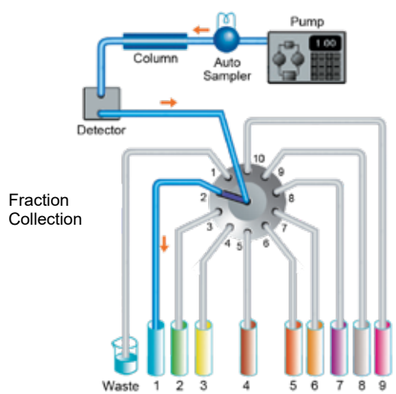
Tubing fits directly into valve with use of special ferrules, no fittings are required

Low Pressure Automatic Switching & Selector Valves

- ***Rated to 125psi***
- ***Pre-pump solvent selection***
- ***Post column fraction collection***
- ***Fittingless tubing connection***
- ***Flexible automation with USB and RS-232 remote communication***

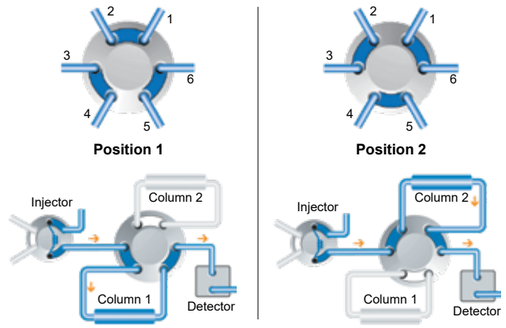
Catalog No.	Description	Qty
VXL554-670	6 Position, 7 Port Low Pressure **Selector Valve** with Fittingless Tubing Connection	Each
VXL556-483	10 Position, 11 Port Low Pressure **Selector Valve** with Fittingless Tubing Connection	Each

VXL556-483 10 Position, 11 Port Selector Valve

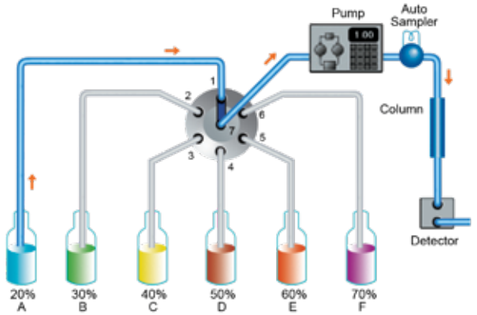


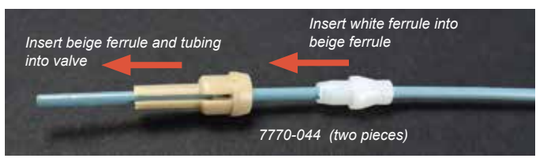
VXL Module Specifications:	
Maximum Pressure	**125 psi (9 bar)**
Power Requirements	100-120 VAC, 50-60 Hz
Regulatory Compliance	CE Mark
Remote Control	USB, PC, BCD, Level Logic
Operating Temperature	0º – 40ºC, non-condensing
Storage Temperature	0º – 75ºC
Dimensions	117mm x 76mm x 128mm (4.6” x 3.0” x 5.0”)

VXL554-260 2 Position, 6 Port Switching Valve



VXL554-670 6 Position, 7 Port Selector Valve





Special Replacement Ferrules

For fitting-free tubing connection system

Catalog No.	Description	Qty
77825	Ferrules for 1/8” OD Tubing	25
7770-044	Ferrules for 1/16” OD Tubing	25

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 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

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.

Cat. No.	Description	Qty
60-104	Adjustable Pre-Column Splitter, Split Ratio Range 5:1-100:1	Each

Adjustable Semi-Prep Flow Splitters, Post Column

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:

- LC/MS
- Flow fractionation
- Column flow splitting
- Capillary chromatography

$$\text{Split Ratio} = \frac{\text{Inlet Flow - Low Flow}}{\text{Low Flow}}$$

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, Complete Assembly

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

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 and Services, Inc. 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)

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

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

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.

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.

Stainless Steel Static Mixers

Micro Flow

		Complete Assembles			
		Inline	**Binary**	**Ternary**	**Cartridge**
Volumes (µL)	0.5	1300200-31	1300240-31	1300340-31	1300000-31
	1	1300200-41	1300240-41	1300340-41	1300000-41
	2	1300200-21	1300240-02	1300340-02	1300000-21
	5	1300200-51	1300240-05	1300340-05	1300000-51
	10	1300201-01	1300240-10	1300340-10	1300000-01
	25	1300202-51	1300240-25	1300340-25	1300002-51
Housing		1300200-00	1300240-00	1300340-00	

High Flow

		Complete Assembles			
		Inline	**Binary**	**Ternary**	**Cartridge**
Volumes	800µL	1300800-00	1320800-00	1330800-00	1400800-00
	1.0mL	1300111-00	1320111-00	1330111-00	1400100-00
	1.5mL	1300150-00	1320150-00	1330150-00	1400150-00
Housing		130043-10	130043-20	130043-30	

Low Volume

		Complete Assembles			
		Inline	**Binary**	**Ternary**	**Cartridge**
Volumes	50µL	1300205-01	1300105-01	1300305-01	1300005-01
	150µL	1300215-01	1300115-01	1300315-51	1300015-01
	250µL	1300225-01	1300125-01	1300325-51	1300025-01
Housing		1300000-00	1300100-00	1300300-00	

Analytical Flow

		Complete Assembles			
		Inline	**Binary**	**Ternary**	**Cartridge**
Vol.	350µL	1300350-01	1300235-01	1300435-51	1300035-01
	500µL	1300500-01	1300150-01	1300450-51	1300050-01
Housing		1300042-10	1300042-20	1300042-30	

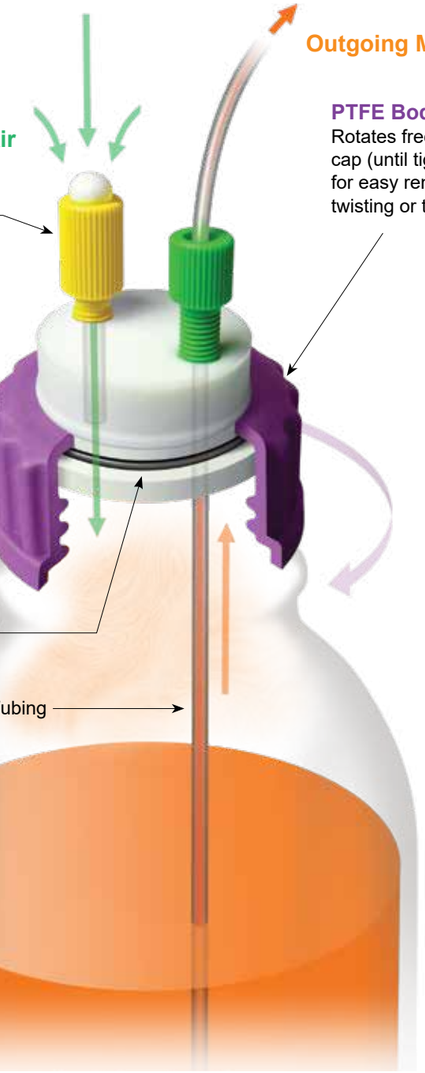
Biocompatible PEEK™ and UHPLC Static Bed Mixers are also available. Call for details.

Application Notes

Canary Safe™

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

Mobile Phase Bottle Safety Caps



Outgoing Mobile Phase

Incoming Air

Filter Check Valve
A one-way valve that filters incoming air as solvent is drawn out and keeps harmful vapors from escaping. It also keeps a vacuum from forming in the bottle.

Screw Cap

Viton® O-ring
Ensures air-tight seal between cap and mobile phase bottle

Tubing

Mobile Phase

PTFE Body
Rotates freely within the screw cap (until tightened) allowing for easy removal of cap without twisting or tangling tubing lines.

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

Prep Size Filter Check Valve

- Suggested for Flow Rates >100mL and <500mL

Cat No.	Qty
CX0002	Each

PREP Size Check Valve for Mobile Phase Safety Caps

CC1003

CC1004

Mobile Phase Bottle Safety Caps – GL38

Screws directly onto GL38 amber solvent bottles

(NOTE: Most 4L solvent bottles are GL38 threads)

Cat. No.	Thread	Description
CCGL3801	GL38	Canary-Safe Cap with 1 Standard Port for 1/8" OD Tubing
CCGL3802	GL38	Canary-Safe Cap with 2 Standard Ports for 1/8" OD Tubing
CCGL3803	GL38	Canary-Safe Cap with 3 Standard Ports for 1/8" OD Tubing

Mobile Phase Bottle Safety Caps – GL45

Cat. No.	Thread	Description
CC1001	GL45	Canary-Safe Cap 1, GL45, 1 Standard Port for 1/8" OD Tubing
CC1002	GL45	Canary-Safe Cap 2, GL45, 2 Standard Ports for 1/8" OD Tubing
CC1003	GL45	Canary-Safe Cap 3, GL45, 3 Standard Ports for 1/8" OD Tubing
CC1004	GL45	Canary-Safe Cap 4, GL45, 4 Standard Ports for 1/8" OD Tubing
CC1005	GL45	Canary-Safe Cap 5, GL45, 5 Standard Ports for 1/8" OD Tubing
CC1006	GL45	Canary-Safe Cap 6, GL45, 6 Standard Ports for 1/8" OD Tubing
CC1114	GL45	Canary-Safe GL45 Cap, 1 Port for 1/4" Tubing
CC1418	GL45	Canary-Safe GL45 Cap with 1 Standard Port, and 1 Port for 1/4" Tubing

Color-Coded GL45 Caps (Red, Mustard, Green, Blue) are also available - see website for complete listing

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

Cat. No.	Thread	Description
CC1011	GL45	1 Std 1/8" OD Tubing Port, Shut-Off Valve
CC1012	GL45	2 Std 1/8" OD Tubing Ports, Shut-Off Valves
CC1013	GL45	3 Std 1/8" OD Tubing Ports, Shut-Off Valves
CC1014	GL45	4 Std 1/8" OD Tubing Ports, Shut-Off Valves

CA4544

CA4522

Port Adapters for GL45 Caps

Cat. No.	Description
CA4544	Adapter – Converts One GL45 Port into Four GL45 Ports
CA4522	Adapter – Converts One GL45 Port into 2 GL45 Ports

CA4599

CA4506

CA4503

CA4567

CA2932

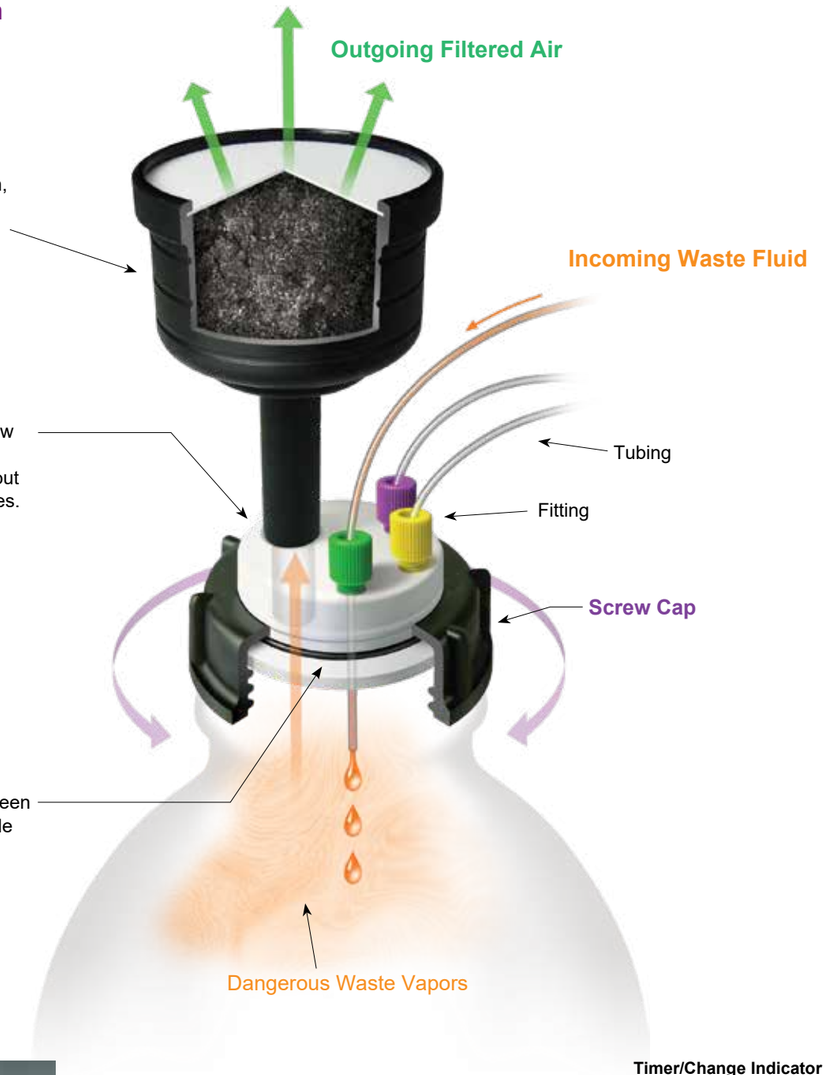
CA4501

Thread Adapters

- Allows you to fit GL45 thread Safety Caps to various bottles of different thread sizes

Cat. No.	Description
CA4501	PTFE, GL45 Canary-Safe Cap - GL40 Bottle
CA4502	PP, GL45 Canary-Safe Cap - GL40 Bottle
CA4503	PTFE, GL45 Canary-Safe Cap - GL32 Bottle
CA4504	PP, GL45 Canary-Safe Cap - GL32 Bottle
CA4506	PP, GL45 CS Cap to GL38 Bottle *(fits most common 4L solvent bottles)*
CA4507	PP, S55 Bottle - GL45 Canary-Safe Cap
CA4508	PP, S60 Bottle - GL45 Canary-Safe Cap
CA2932	PTFE, GL45 Canary-Safe Cap - 29/32 Ground Neck
CA4567	PP, GL45 Canary-Safe Cap - US67 Bottle *(fits REIKE)*
CA4571	PP, GL45 Canary-Safe Cap - S70/71 Bottle *(fits REIKE)*
CA4599	PTFE, GL45 Canary-Safe Cap to Nalgene Single Thread Bottle
CA4521	Male/Male, for Barrel Thread 2" (BCS70X6) to GL45 Canary-Safe Cap
CA4571	PP, GL45 Canary-Safe Cap to S70/71 Bottle
CA1045	Butress L-10 to GL45 Cap

Safety Waste Caps with Exhaust Filters



Exhaust Filter
Contains an activated carbon, multi-component granulate material which absorbs 99% of all vapor and particulate materials evaporating from your solvents.

PTFE Body
Rotates freely within the screw cap (until tightened) allowing for easy removal of cap without twisting or tangling tubing lines.

Viton® O-ring
Ensures air-tight seal between cap and mobile phase bottle

Exhaust Filters

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.

Timer/Change Indicator

Push button to activate — Replace when service life expires

Canary-Safe™ Vapor Exhaust Filters for Safety Waste Caps

Cat. No.	Size	Description	Replacement
CX3000	S	Exhaust Filter, for containers < 5L	3 Months
CX6000	M	Exhaust Filter, for containers < 20L	6 Months
CX12000	L	Exhaust Filter, for containers > 20L	12 Months
CX6010	M	Exhaust Filter with H2 SO4 (sulfuric acid) for Volatile Bases	6 Months
CX6020	M	Exhaust Filter with KOH (potassium hydroxide) for Volatile Acids	6 Months

Canary-Safe™ Solvent Safety Products
Safety Waste Caps

GL45 Safety Waste Caps *(exhaust filters sold separately)*

Cat. No.	Thread	Description
CW45118	GL45	Waste Cap, GL45, 1 Standard 1/8" OD Tubing Port, 1 Port for Barbed Connector (*for larger tubing sizes*)
CW45018	GL45	Canary-Safe Waste Cap, GL45, 1 Standard Tubing Port
CW45218	GL45	Waste Cap GL45, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (*for larger tubing sizes*)
CW45313	GL45	Canary-Safe Waste Cap, GL45, 3 Standard Tubing Ports ONLY *(no port for exhaust filter)*
CW45319	GL45	Canary-Safe Waste Cap GL45, 3 Standard 1/8" OD Tubing Ports
CW45418	GL45	Waste Cap GL45, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (*for larger tubing sizes*)
CW45002	GL45	Canary-Safe Waste Cap, GL45, 2 Ports for Barbed Adapter (*for larger tubing sizes*)

S55 Safety Waste Caps
(exhaust filters sold separately)

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

B53 Safety Waste Caps
(exhaust filters sold separately)

Cat. No.	Thread	Description
CW53219	B53	Waste Cap B53, 2 Standard 1/8" OD Tubing Ports
CW53218	B53	Waste Cap B53, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (*for larger tubing sizes*)
CW53418	B53	Waste Cap B53, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (*for larger tubing sizes*)

S60 Safety Waste Caps *(exhaust filters sold separately)*

Cat. No.	Thread	Description
CW60001	S60	Canary-Safe Waste Cap, S60, with 1 Port for Barbed Connector (*for larger tubing sizes*)
CW60218	S60	Waste Cap, S60, 2 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (*for larger tubing sizes*)
CW60302	S60	Waste Cap, S60, 3 Standard 1/8" OD Tubing Ports, 2 Ports for Barbed Connectors (*for larger tubing sizes*)
CW60319	S60	Canary-Safe Waste Cap, S60, 3 Standard 1/8" OD Tubing Ports

S90 Safety Waste Caps *(exhaust filters sold separately)*

Cat. No.	Thread	Description
CW90418	S90	Waste Cap, S90, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector (*for larger tubing sizes*)

PRODUCT NOTE:
Custom Canary-Safe Mobile Phase and Waste Cap options are available. Contact us for more information.

B83 Safety Waste Caps *(exhaust filters sold separately)*

Cat. No.	Thread	Description
CW83418	B83	Waste Cap B83 for Nalgene Bottles, 4 Standard 1/8" OD Tubing Ports, 1 Port for Barbed Connector
CW83419	B83	Waste Cap B83 for Nalgene Bottles, 4 Standard 1/8" OD Tubing Ports
CW83001	B83	Waste Cap B83 for Nalgene Bottles, 1 Port for Barbed Connector (*for larger tubing sizes*)
CW83004	B83	Waste Cap B83 for Nalgene Bottles, 4 Ports for Barbed Connectors (*for larger tubing sizes*)

Exhaust Filter Adapters for JustRite® Waste Containers

CJX01

CJX02

Cat. No.	Description	Qty
CJX01	Exhaust Filter Fitting/***Long*** Adapter for Stainless Steel Port on JustRite Waste Container	Each
CJX02	Exhaust Filter Fitting/***Short*** Adapter for Gray PEEK Port on JustRite Waste Container	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.

CLPP12752

Cat No.	Description
CLPP12752	JustRite® Disposal Safety Can w/ PP Fittings for 3/8” Tubing, 2 gallon
CLTF12752	JustRite® Disposal Safety Can w/ SS Fittings for 3/8” Tubing, 2 gallon
CLPP12755	JustRite® Disposal Safety Can w/ PP Fittings for 3/8” Tubing, 5 gallon
CLTF12755	JustRite® Disposal Safety Can w/ SS Fittings for 3/8” Tubing, 5 gallon
CL12160	JustRite® Disposal Safety Can w/ PP Fittings for 3/8” Tubing, 1 gallon

CJR01

PEEK Port

CJR02

Stainless Steel Port

PTFE Adapters for JustRite® Waste Containers

Our PTFE Adapters easily pop 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	Ea
CJR02	Long Adapter for **Stainless Steel** Port on JustRite Waste Can, 3 Standard Ports for 1/8” OD Tubing, 1 Port for Barbed Connector	Ea
CJR03	PTFE Adapter for **Gray PEEK** Ports on JustRite Waste Cans, 3 Ports for 3/16” Tubing, 1 Port for Barbed Connector	Ea
CJR04	Long Adapter for **Stainless Steel** Port on JustRite Waste Can, 3 Ports for 3/16” Tubing, 1 Port for Barbed Connector	Ea

CF5025

CJR02

Adapters can be used with double or triple collectors for added flexibility

Double & Triple Collectors

Cat. No.	Description	Qty
CF5025	Double Collector, 2 ports for Barbed Connectors	Each
CF5022	Triple Collector, 3 ports for Barbed Connectors	Each

CF5025

CF5022

CF5033

Y Adapter for JustRite® Waste Cans

- 2 Ports with Quick Connect CPC Fittings
- Quick-Connect Fittings for additional adapters and collectors

Cat No.	Description
CF5033	Custom Y Adapter for JustRite® Waste Cans
CQ3001	Quick-Disconnect Coupling Socket with Shut-Off, 3/8 Coupling Size x 3/8 NPT
CQ5002	Quick-Disconnect Coupling Plug with Shut-Off, 3/8 Coupling Size x 1/2 NPT Male
CQ5003	Quick-Disconnect Coupling, Barbed Plug with Shut-Off, 3/8 Coupling Size, for 3/8″ ID Tubing

Tubing Cutter

Cat. No.	Description	Qty
1651	Polymer Tubing Cutter with 5 Port Sizes	Each

1651

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.

Standard Waste Containers

Cat. No.	Description
CL45002	Canary-Safe GL45 Can, 2 Liter, PE-HD
CL60030	Canary-Safe S60 Can, 30 Liter, PE-HD
CL53005	Canary-Safe 5L Waste Container for B-53 and S-55 Waste Caps, PE-HD, 142 x 187 x 250 (mm)
CL53010	Canary-Safe 10L Waste Container for B-53 and S-55 Waste Caps, PE-HD, 190 x 215 x 320 (mm)
CL53020	Canary-Safe 20L Waste Container for B53 and S55 Waste Caps, Translucent PE-HD, 290 x 235 x 370 (mm)
CL60020	Canary-Safe S60 Waste Container, 20 Liter, Translucent PE-HD

59249

59349

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

CF5002

CF5003

CF5001

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 Charcoal Exhaust Filter (Fixed)	Each
CF5001	Extension for Canary-Safe™ Charcoal Exhaust Filter	Each

CF5009

CF5008

CF5007

CF5006

CFX1428

Plugs and Adapters

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
CF1400	Plug for Canary-Safe Cap 1/4” Tubing Port	Each
CF5114	Plug, 1/4” NPT Pipe Size	Each
CF5006	Convert Exhaust Port to an Air Check Valve Port	Each
CFX1428	Convert Standard 1/4-28 Port to Exhaust Filter Port	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, 8-12mm / 4-8mm	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

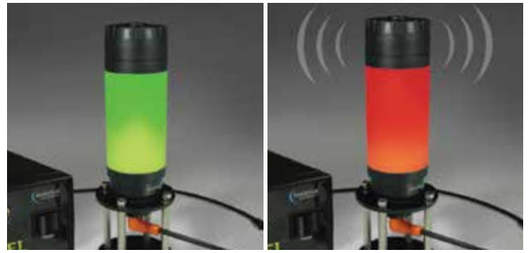
Solvent Safety Alarm System

- Monitor up to 3 containers ***(Waste and/or Mobile Phase)*** at the same time
- Sensors can be set to detect **FULL *or* EMPTY** fluid levels
- Front panel LEDs indicate which sensor position has been activated
- Beacon light illuminates to signify fluid level status:
  Green=Safe, **Red**=Alert!, **Orange**=Alert with audio alarm paused*
- Adjustable audio alert

Cat. No.	Description
Sentinel	Solvent Safety Alarm System, Includes Control Module, Beacon and 3 Sensors

A sensor can be set to detect low fluid level in your mobile phase container.

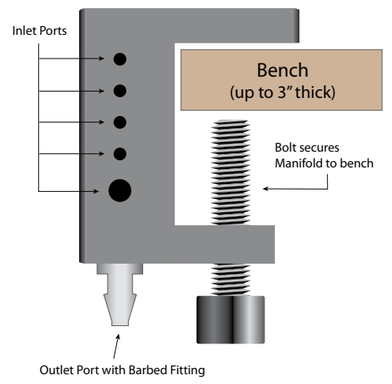
Another sensor an be set to detect high fluid level in your waste container.


The Beacon turns from **green** to **red** and an audio alert sounds when a level has been reached (full or empty, depending on setup).

See full operation on website

• Includes fittings for 1/8” tubing

Multi-Inlet Waste System



Multi-Inlet Waste System Manifold

Keeps solvent waste lines neat and organized!

- **Made of durable chemical-resistant polypropylene**
- **Fits bench up to 3” thick**
- **Includes fittings and barbed adapters**

Remediates these waste solvent situations:

Multi-Inlet Waste Manifold

Cat. No.	Description
MW0802	8 Standard Tubing 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.
MW0010	10 Standard Tubing Ports and 1 Large Outlet. Includes 1/8” Fittings.
MW1010	10 Ports for Barbed Adapters and 1 Large Outlet. Includes Barbed Adapters.
MW0406	4 Standard Tubing Ports, 6 Ports for Barbed Adapters and 1 Large Outlet. Includes 1/8” Fittings and Barbed Adapters.
MW0523	5 Standard Tubing Ports, 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.

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

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	Each
59305X	Green Delrin Flangeless Male Nut, use with Ferrule (59353X)	10
59353X	ETFE Ferrule for 2.5mm OD Tubing	10

MW0802

MW0010

MW1010

MW0406

MW0523

81233 81233A 88234 88732 88532 88120 88121 88119 88122 88133 88133A

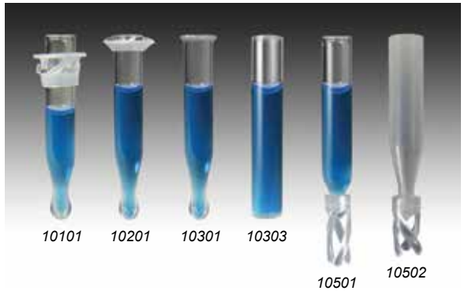
9mm Twist Low Volume Vials

Cat. No.	Description	Qty
88255	100µL PP Clear Glass MicroVial	100
88264-Case	300µL Polypropylene MicroVial	1000
88275	300µL 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 - *Good for Ion Chromatography*	1000

**TPX is a clear PP material.*

80095

80077SL



10101 10201 10301 10303 10501 10502

PRODUCT NOTE:

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

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 - *Good for Ion Chromatography*	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

CERTIFIED AT NO ADDITIONAL CHARGE

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

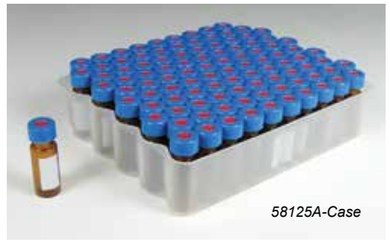
Cat. No.	Description	Qty
10601-Case	50µL Glass, Bottom Spring	500
10201-Case	150µL Glass, Poly Top Flange	500
10101-Case	200µL Glass, Top Spring	500
10301-Case	250µL Glass, Flange	500
10501	300µL Glass, Bottom Spring	100
10501-Case	300µL Glass, Bottom Spring	500
10502-Case	250µL Polypropylene, Bottom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

CERTIFIED AT NO ADDITIONAL CHARGE

88535

CERTIFIED AT NO ADDITIONAL CHARGE

58126-Case



58125A-Case

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

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

90003

96054

96096

481232

9mm Screw Vials & Caps in Unassembled Kits

CERTIFIED AT NO ADDITIONAL CHARGE

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

All Items are Clamshelled

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!

CERTIFIED AT NO ADDITIONAL CHARGE

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.

- **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**

Precision MSQ Vials & Caps in Unassembled Kits

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	100
99003MSL	2mL Clear Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ ***Pre-Slit*** MSQ Liners	100
99003AM	2mL Amber Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ MSQ Liners	100
99003AMSL	2mL Amber Glass MSQ Vials w/ Marking Spot & 300µL Fused Glass Insert	Screw Thread Caps w/ ***Pre-Slit*** MSQ Liners	100

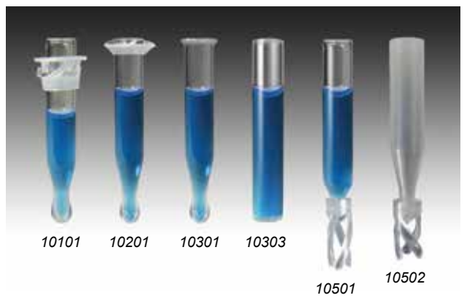
Screw Thread Caps with MSQ Liners

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

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	350µL 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

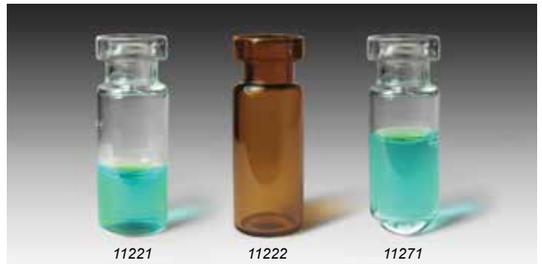
Catalog No.	Description	Qty
51125	Clear Glass Vial with 300µL Bottom Spring Glass Insert	100
11255	Amber Glass Vial with 300µL Bottom Spring Glass Insert	100

10mm 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
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

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

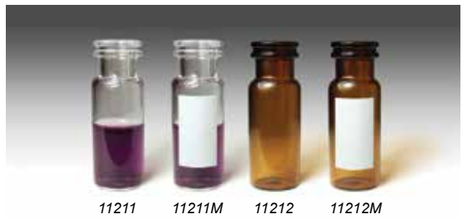
Crimpers, Decrimpers & Decappers

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

87787 87203 87233

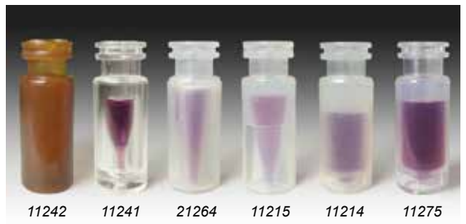
Micro V Clear Glass Vial & Cap Kits

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


11211 11211M 11212 11212M

11mm Crimp/Snap Wide Mouth Vials

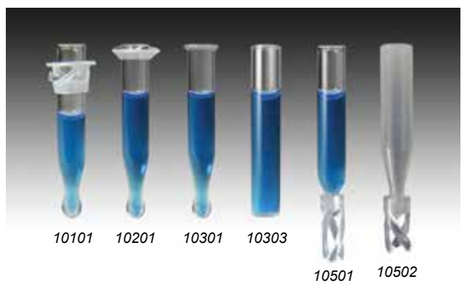
Cat. No.	Description	Qty
11211-Case	2mL Clear Glass	1000
11211M-Case	2mL Clear Glass w/ Marking Spot	1000
11212-Case	2mL **Amber** Glass	1000
11212M-Case	2mL **Amber** Glass w/ Marking Spot	1000


11242 11241 21264 11215 11214 11275

Limited Volume Crimp/Snap Vials

Cat. No.	Description	Qty
11242	100µL Glass/**Amber** Plastic MicroVials	100
11210	TPX MicroVials with 300µL Volume Inserts	1000
11230-Case	100µL Clear Polypropylene MicroVials	1000
11241	Plastic MicroVials with 300µL Glass Inserts	100
21264-Case	Polypropylene MicroVials with 300µL Inserts	1000
11254-Case	500µL Clear Polypropylene MicroVials	1000
11215-Case	500µL Polypropylene MicroVials	1000
11217-Case	500µL TPX MicroVials	1000
11275-Case	750µL Clear Polypropylene MicroVials	1000
11214-Case	750µL Polypropylene MicroVials	1000
11218-Case	750µL TPX MicroVials	1000

**TPX is a clear PP material.*


10101 10201 10301 10303 10501 10502

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	350µL Glass, Flat Bottom	1000
10304-Case	350µL Glass, Flat Bottom & ID Ring	1000
10305-Case	350µL Longer Glass, Flat Bottom	1000

20044 20044B

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*

96054 481232

Base Plates

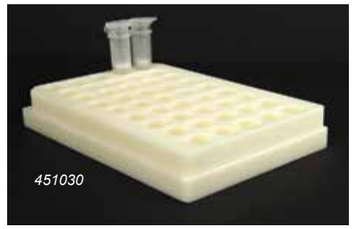
Custom 12x32mm Vial Storage and Transfer Bases

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

96-Well Custom Base Plate

• Holds 12x32mm Vials

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


451030

Micro-Centrifuge Vial Storage and Transfer Bases

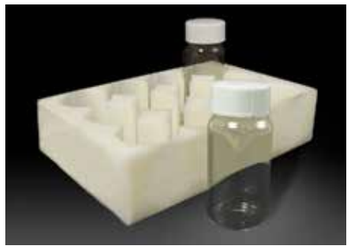
Cat. No.	Description	Qty
24150	50 Well Custom Flat Bottom Base Plate	Each
451030	45 Well Custom Flat Bottom Base Plate	Each

240406

24-Well Custom Base Plate

• Holds 15x46mm 4mL Vials

Cat. No.	Description	Qty
240406	24-Well Custom Open 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

24125

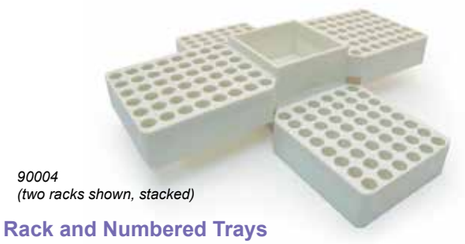
24-Well Custom Base Plate

• Holds 17x60mm 8mL Scintillation Vials

Cat. No.	Description	Qty
24125	24-Well Custom Solid 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


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

31531 *31531M* *31534* *31532* *31532M*

13mm Screw Vials, 15 x 45mm

Cat. No.	Description	Qty
31531-Case	4mL Clear Glass	1000
31531M-Case	4mL Clear Glass, 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

30501 *30507*

Vial Inserts for 15 x 45mm Vials

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

30020 *53126* *53127* *570045*

13mm Polypropylene Screw Caps with Liners

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

13mm Solid Screw Caps with Liners

31554

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

30872 *30871*

8x40mm Glass 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

8x40mm Polypropylene Shell Vials

Cat. No.	Description	Qty
39402-Case	700µL Polypropylene, Insert & Plug	1000

Polyethylene Snap Plugs

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

961935

962380

962761

Aluminum Vial Trays for 8mL, 12mL and 16mL Vials

- **SLAS footprint (127.75mm x 85.5mm)**
- **Vials not included**

Cat. No.	Description	Qty
961935	8 Position Vial Tray for Covaris 8mL, 19x38mm (520089) Round Bottom Vials	Each
962380	6 Position Vial Tray for Covaris 12mL, 24x36mm (520086) OR 16mL, 24x48mm (520074) Round Bottom Vials	Each

Aluminum Vial Trays for 20mL or 40mL Vials

- **SLAS footprint (127.75mm x 85.5mm)**
- **Vials not included**

Cat. No.	Description	Qty
962761	8 Well Aluminum Vial Tray, for 28mm Flat bottom Vials	Each
962760	12 Well Aluminum Vial Tray, for 28mm Flat bottom Vials	Each
963048	8 Well Aluminum Vial Tray for 30mm, Round Bottom Vials	Each

962760

963048

Polypropylene Cryovials & Caps

- Can be used at extreme temperatures, from -196ºC to +121ºC
- 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

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

Micro-Centrifuge Caps with O-Ring Seal

- *Available Green, Red, Yellow & White*

Cat. No.	Description	Qty
15267G	Micro Centrifuge Caps with O-Rings, Green	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

Index by Part Number

1

10012-Case ... 130
10012ST-Case ... 130
10028-Case ... 130
10028B-Case ... 130
10028R-Case ... 130
10028SL-Case ... 130
10028Y-Case ... 130
10101-Case ... 126, 130, 132
101240 ... 49, 57
101247 ... 51, 57, 58
101248 ... 51, 57, 58
101250 ... 49, 57
101480 ... 49, 56
10178 ... 32
10178S ... 32
10196 ... 33
101960 ... 49, 53
101964 ... 53
101965 ... 53
101967 ... 52, 53, 56
101968 ... 52, 53, 56
10196S ... 33
10201-Case ... 126, 130, 132
102240 ... 49, 55
102245 ... 55
102247 ... 52, 55
102248 ... 52, 55
102249 ... 55
102960 ... 49, 54
102965 ... 54
102967 ... 54
102968 ... 54
10301-Case ... 126, 130, 132
10303-Case ... 126, 130, 132
10304-Case ... 126, 130, 132
10305-Case ... 126, 130, 132
103240 ... 49, 58
103960 ... 48, 52
103965 ... 52
10421-Case ... 48, 52
104240 ... 49, 57
104480 ... 49, 56
104960 ... 49, 53
104964 ... 53
104965 ... 53
1050 ... 88
10501 ... 126, 130
10501-Case ... 126, 130, 132
10502-Case ... 126, 130, 132
105240 ... 49, 55
105245 ... 55
1056-5 ... 88
1057-5 ... 88
1058-5 ... 88
10601-Case ... 126, 130, 132
106240 ... 49, 58
1070 ... 88
107240 ... 48, 52
107245 ... 52
1080 ... 88
108240 ... 60
110241 ... 60
111540 ... 46, 136
111552 ... 46, 136
11203 ... 130
11203A ... 130
11210 ... 132
11211-Case ... 49, 56, 132
11211M-Case ... 132
11212-Case ... 132
11212M-Case ... 132
11214-Case ... 132
11215-Case ... 132
11217-Case ... 132
11218-Case ... 132
11221-Case ... 56, 131
11221M-Case ... 56
11222-Case ... 131
11230-Case ... 132
11231-Case ... 130
11231M-Case ... 130
11232-Case ... 130
11232M-Case ... 130
11234-Case ... 130
11235-Case ... 130
11236-Case ... 130
11237-Case ... 130
11239 ... 126
11241 ... 132
11242 ... 132
11254-Case ... 132
11255 ... 130
11271-Case ... 131
11275-Case ... 132
11555 ... 130
1183X ... 92
12203 ... 131
12203A ... 131
12320-Case ... 130
12320A-Case ... 130
12349 ... 21
1286X ... 92, 111
1300000-00 ... 116
1300000-01 ... 116
1300000-21 ... 116
1300000-31 ... 116
1300000-41 ... 116
1300000-51 ... 116
1300005-01 ... 116
1300015-01 ... 116
1300025-01 ... 116
1300035-01 ... 116
1300042-10 ... 116
1300042-20 ... 116
1300042-30 ... 116
1300050-01 ... 116
1300100-00 ... 116
1300105-01 ... 116
1300111-00 ... 116
1300115-01 ... 116
1300125-01 ... 116
1300150-00 ... 116
1300150-01 ... 116
1300200-00 ... 116
1300200-21 ... 116
1300200-31 ... 116
1300200-41 ... 116
1300200-51 ... 116
1300201-01 ... 116
1300202-51 ... 116
1300205-01 ... 116
1300215-01 ... 116
1300225-01 ... 116
1300235-01 ... 116
1300240-00 ... 116
1300240-02 ... 116
1300240-05 ... 116
1300240-10 ... 116
1300240-25 ... 116
1300240-31 ... 116
1300240-41 ... 116
1300300-00 ... 116
1300305-01 ... 116
1300315-51 ... 116
1300325-51 ... 116
1300340-00 ... 116
1300340-02 ... 116
1300340-05 ... 116
1300340-10 ... 116
1300340-25 ... 116
1300340-31 ... 116
1300340-41 ... 116
1300350-01 ... 116
130043-10 ... 116
130043-20 ... 116
130043-30 ... 116
1300435-51 ... 116
1300450-51 ... 116
1300500-01 ... 116
1300800-00 ... 116
1320111-00 ... 116
1320150-00 ... 116
1320800-00 ... 116
1320X ... 92
13257 ... 52
13258 ... 53, 54, 55, 56, 58
1330111-00 ... 116
1330150-00 ... 116
1330800-00 ... 116
1330X ... 92
1333X ... 92
13352 ... 53, 54, 55
13652 ... 53, 54, 55
13657 ... 52
1400100-00 ... 116
1400150-00 ... 116
1400800-00 ... 116
15020 ... 19
1506 ... 107
15267G ... 136
15267R ... 136
15267W ... 136
15267Y ... 136
1531HC ... 97
1551 ... 107
1552 ... 107
1600 ... 107
1602 ... 96, 97
1603 ... 96, 97
1605 ... 98
1608 ... 92, 97
1610 ... 92, 97
1615 ... 96, 97
1618 ... 97
1620 ... 98
1625 ... 96
1626 ... 96
16401 ... 136
16401A ... 136
16402 ... 136
16461 ... 107
1650 ... 107
16501 ... 136
16501A ... 136
1651 ... 88, 107
1651 ... 122
1652 ... 88, 107
1654 ... 92
1655 ... 92
16561 ... 136
16601 ... 136
16602 ... 136
172513 ... 40
173313 ... 40
174113 ... 40
17P557 ... 12
17P557GC ... 4, 12
17P687 ... 10
17P687GC ... 4, 10
17P687Z ... 11, 39, 87
17P687ZGC ... 11
17P687ZTAP ... 39, 87

2

20032-Case ... 131
20033-Case ... 131
20034-Case ... 131
20035-Case ... 131
20041-Case ... 132
20041ST-Case ... 132
20044-Case ... 132
20044B-Case ... 132
20044SL-Case ... 132
20044ST-Case ... 132
20096 ... 33
20303-Case ... 131
20304-Case ... 131
20305-Case ... 131
20501-Case ... 131
20502-Case ... 131
2100-00 ... 47
2100-16 ... 47
2100-24 ... 47
21006 ... 110
21007 ... 110
21012 ... 24
21264-Case ... 132
23012 ... 136
23024-09 ... 37
23024-18 ... 35
23024-20 ... 37
23048 ... 37
23054 ... 35
23096 ... 34, 36
23110 ... 136
23112 ... 136
23384 ... 35
24015 ... 59
24017 ... 59
240406 ... 133
241010 ... 43
2410200 ... 45
2410300 ... 45
24108 ... 23
24109 ... 23
24125 ... 133
24150 ... 133
24152 ... 43
24171 ... 43
24249 ... 59
24250 ... 59
24253 ... 59
24260 ... 77
24296 ... 24
24463 ... 43
24465 ... 43
24467 ... 43
24469 ... 43
24615 ... 59
24617 ... 59
24626 ... 59
24727 ... 23, 73
24728 ... 23
24777 ... 23
249800 ... 51
249900 ... 51
249913 ... 51, 57
24T100 ... 62
24T101 ... 62
2500-10 ... 47
2575 ... 96
2576 ... 96
2577 ... 96
2578 ... 96
2588 ... 96
266100 ... 74
266530 ... 69
266540 ... 69, 71
266550 ... 51
266550 ... 69, 71
266703 ... 51
27001 ... 32
27001S ... 32
2726 ... 9, 15, 17, 30
27350 ... 32
27350S ... 32
27500 ... 32
27500S ... 32
27P557 ... 16
27P557GC ... 16
27P687 ... 16
27P687GC ... 4, 16

3

30020-Case ... 134
30501-Case ... 134
30507-Case ... 134
30871-Case ... 134
30872-Case ... 134
31531-Case ... 49, 51, 57, 134
31531M-Case ... 134
31532-Case ... 134
31532M-Case ... 134
31534-Case ... 134
31542-CASE ... 58
31543-CASE ... 58
31554-Case ... 51, 57, 134
31556-Case ... 134
31561 ... 134
31635 ... 60
31760-Case ... 49, 58
32008 ... 24
32018 ... 24
32082 ... 24
327300 ... 40
327301 ... 40
327400 ... 40
327401 ... 40
327500 ... 40
327501 ... 40
327600 ... 40
327601 ... 40

Index by Part Number

327888....40
327903....40
327904....40
327905....40
327906....40
327970....40
35070....33
35075....33
35078....32
35078S....32
35080....33
35085....33
35096....33
35096S....33
36395....88
3726....9, 15, 17
38120....18
38200....18, 39, 87
38200B....18
38200G....18
38200R....18
38200TAP....39, 87
38200Y....18
38400....18
38400B....18
38400G....18
38400R....18
38400Y....18
38402....5, 18
38402SL....5, 18
38404....5, 18, 19
38405....43
38407....43
38412....43
384201....19
38422....25
384241....19
384280....19
38435....18
38444....25
384451....43
38455....25
384603....45
384610....45
384628....73
38471....25
38477....25
38481....25
38485....25
38498....19
38499....19
384DP140....45
384PDP140....45
3888....111
39404-Case....134
3983....111

4

4021184....108
4022184....108
4023184....108
40805....25
40810....25
4132-04....89
4132-14....89
4140-00....94
4140-11....94
4140-22....94
4142-00....94
4143-15....94
41507-L4....89
41509-L4....89
4152-04....89
4152-34....89
4152-74....89
41524-L4....89
41524-XL4....89
4153-04....89
41531B-L4....88
41531BXL4....88
41531L4....88
41531XL4....88
41532-L4....88
41532XL4....88
41533-L4....88
41533XL4....88
41535-L4....88
41535X-L4....88
41536-L4....88
41536X-L4....88
41537-L4....88
41537X-L4....88
41538-L4....88
41538X-L4....88
4154-44....88
4154-84....89
4156-63....94
41560-L4....88
41560X-L4....88
41561-L4....88
41561X-L4....88
4158-66....94
415834....95
415874....95, 105
415914....95
415924....96
415993....89
415993-46IN....89
41605....25
41650-L4....89
4203077-014....110
4203077-014S....110
42030794....110
42031944....110
42032744....110
42044004....110
42044524....110
42044754....110
4367084....108
44401....108
44405....108
44410....108
44420....108
44425....108
44450....108
4464084....108
4491094....108
451030....133
452800....99
452818....99
45311....47
45322....47
45325....47
45345....47
45373....47
45377....47
45388....47
45389....47
45390....47
45530....47
45531....47
45532....47
45533....47
45534....47
45535....47
4560184....108
4561184....108
4562184....108
4563184....108
46000-0514....93
46000-0544....93
46000-0554....93
46000-0784....93
46000-0824....93
46000-0904....93
46000-1094....93, 97
46000-1104....93, 97
46000-1114....93, 97
46000-1624....93, 97
46000-2824....92
46000-2824BL....92
46000-2824GN....92
46000-2824GY....92
46000-2824RD....92
46000-2824YL....92
46000-3374....105
46000-3604....93, 112
4612184....108
4613184....108
47005....24
47006....24
47025....24
47170....25
48001....98
48010CM....23
48012....59
4802304....108
4803004....108
4804004....108
4804284....108
4805004....108
4806004....108
4807004....108
4807254....108
4807284....108
4808004....108
4809304....108
4810304....108
4811304....108
4811754....108
4812304....108
481232....127, 133
48135....99
4814204....108
48155....99
48221M....56
48222....99
48313....99
48513....99
48555....99
48612....59
48650014....108
48685....23
48815....98
488401....50, 63
488408....131
489900....49, 50
489906....50
49005....98
49100X....99
49101X....99
49102X....99
49103X....99
49220....106
49225....106
49225A....106
49226A....93
49227A....106
49230....98
49230A....106
49230DR....98
49231X....101
49233....98
49242....106
49302....106
49302A....106
49304....107
49305....112
49310....106
49311....106
49311A....106
49314....99
49315....99
49316....99
49318....99
49320....107
49327....88, 107
49328....88, 107
49329....107
49330....98
49331X....98
49332X....98
49355....99
49356....99
49360....98
49410....98
49411....98
49426....106
49427....106
49428X....98
49429X....98
49430....98
49431....98
49501....98
49502....98
49520X....106
49522X....106
49550....106
49551....106
49700X....99
49701X....99

5

50078....32
50078S....32
50096....33
50096S....33
502100....56
50225....56
51125....130
52009-Case....131
52009A-Case....131
52009SL-Case....131
52235....96
52235X....97
52236....96
52236X....97
52248-Case....131
52248A-Case....131
52248ASL-Case....131
52248SL-Case....131
52348SL-Case....131
52401X....99
52402X....99
53-112....115
53-114....115
53009-Case....134
53126-Case....134
53126SL-Case....134
53126ST-Case....134
53127-Case....134
53348-Case....131
53348A-Case....131
53348ASL-Case....131
53348SL-Case....131
55142NX....92
55142X....92
55162....92
55182X....88
55185X....88
55192X....93
55195X....93
55196X....93
55247....88
55330X....92
55510....108
55525....108
56111X....101
56410....38
56411....38
570045-Case....134
57250X....101
5738....112
5758....112
57653....101
5788....112
58044-Case....127
58044A-Case....127
58077-Case....127
58077A-Case....127
58088-Case....127
58088A-Case....127
58095-Case....127
58095A-Case....127
58124-Case....127
58125-Case....127
58125A-Case....127
58126-Case....127
58126A-Case....127
58127-Case....127
58127A-Case....127
58128-Case....127
58128A-Case....127
58129-Case....127
58144-Case....127
58802....98
58803....98
59130....102
59132....102
59133....101, 102
59134....102
59135....102
59136....102
59140X....102
59200....102
59200NX....100
59200R....100
59200X....100
59201X....100
59202X....100
59204X....100
59205X....100
59207X....100
59210X....100
59221....100
59230X....100
59235X....100
59240X....100, 101
59249....101, 123, 125
59250X....101
59252X....101
59255X....101
59259X....101, 102
59286....100
59298....107
59299....107
59300....102
59300NX....100
59300X....100
59301X....100
59302X....100
59303X....100
59305X....100
59305X....125
59306X....100
59307X....100
59308X....100
59311....104
59315X....100
59320X....100
59330X....100
59331....101
59335X....100
59340X....100
59345X....100
59349....101, 123
59350X....101
59353X....125
59359....102
59359X....101
59360X....101
59387....101
59512....103
59513....103
59514....103
59515....103
59556....123
59557....92
59602....105
59603....103
59604....103
59605....103
59618....103
59619....103
59620....103
59621....105
59622....105
59623....103
59623-23....14, 39, 87
59623-23BK....14
59623-23GC....4, 14
59623-23TAP....14, 39, 87
59624....103
59625....103
59626....95, 105
59627....95
59628....103
59629....103
59630....103
59631....103
59632....103
59633....103
59634....103
59635....103
59642....103
59650....105
59652....95
59654....95
59655....103, 104
59656....103
59657....103
59658....103
59659....103
59660....103
59670....105
59671....95
59672....95
59673....105
59675....103
59678....103
59681....95
59684....95
59696....104
59697....104
59702....103
59703....96, 103
59704....96
59712....103
59713....103
59722....103
59723....103
59728....96
59742-01....96
59761....104
59762....104
59763....104
59764....104
59765....104
59782....104
59783....104
59788....104
59789....104
59790....104
59791....104
59795....104
59890....96

6

60-104....114
60100X....93
60110X....93
60126X....93
60132X....93
60223....42
60223-10....42
60223-25....42
60223-5....42
60513....42
60513-5....42
61-113....114
61-114....114
61-115....114
61210....91
61220....91
61230....91
61240....91
61250....91
61510....91
61520....91
61525....91
61530....91
61540....91
61550....91
61560....91
61610....91
61620....91
61629....107
61630....91
61640....91
61650....91
61710....91
61715....91
61720....91
61730....91
61740....91
61750....91
62-311....114
62-312....114
62-313....114
62-315....114
62-316....114
62-411....114
62-412....114
62-413....114
62-414....114
62210....91
62220....91
62230....91
62240....91
62250....91
62501....91
62510....91
62520....91
62530....91
62540....91
62550....91
62560....91
62610....91
62620....91
62630....91
62640....91
62650....91
62710....91
62715....91
62720....91
62730....91
62740....91
62750....91
62760....91
63-111....115
63-405....115
63-413....115
63-414....115
63-415....115
63-416....115
63-417....115
63-418....115
63-419....115
63-420....115
63-421....115
63-422....115
63-423....115
63-424....115
63-425....115
63-433....115
63-434....115
63-435....115
63-436....115
63-437....115
63-438....115
63-439....115
63-440....115
63-441....115
63-442....115
63-443....115
64101....89
64102....89
64103....89
64104....89
64105....89
64106....89
64107....89
64108....89
64111....89
64112....89
64113....89
64114....89
64115....89
64116....89
64117....89
64118....89
64126....89
64127....89
64128....89
64129....89
64130....89
64131....89
64132....89
64133....89
64134....89
64135....89
64136....89
64137....89
64138....89
64139....89
64140....89
64141....89
64142....89
64143....89
64144....89
64152....89
64153....89
64154....89
64155....89
64156....89
64157....89
64158....89
64160....89
64161....89
64162....89
64163....89
64164....89
64165....89
64284....95
64287....95
64322....97
64401X....97
64402....96
64410X....97
64411....97
64428....96
64429....96
64438....96
64450X....97
64466....96
64466S....96
64469....104
64604....89
64608....104
64609....104
64800....89
64803....89
64819....89
64825....89
65011....105
65100D....104
65100L....104
65100T....104
65655....102
66-063....114
66008....92
66126....108
66212-4....96, 97
66213-4....96
66312-5....92
66313-3....92
66413-2....96
66414-2....96
66415-2....96
66514-1....92
66517-1....92
66518-3....93
66519-1....92
66788....107
67001....109
68290....107
68561-1....93
68562-1....93
68563-1....93
68566-1....109
68566-1....90, 91, 93
69-1201....88
69-1202....88
69-1203....88
69-1205....88
69-1206....88
69-1207....88
69-1209....88
69-1210....88
69-1211....88
69-1212....88
69500....25
69500BK....25

7

700050....77
700060....77
700070....77
700100....76
700150....76
700200....76
700250....76
700400....76
700500....76
700500-250....76
700525....76
700550....76
700575....76

Index by Part Number

Index by Part Number

700600 76
700600-250 76
700650 76
700656 76
700675 76
700700 76
700700-250 76
700725 76
700750 76
700800 76
700800-250 76
700825 76
700850 76
700875 76
700900 76
700950 76
701005 77
701015 77
701020 77
701025 77
710001 52, 55
711001 52, 53, 54, 57, 58
75738 112
75758 112
75788 112
77-125 115
7738 112
775938 111
775939 111
7770-044 113
77738 112
77788 112
77825 113
7788 112
7833-100 46
7833-250 46
7833-30 46
791201 89
791205 89
791210 89
791301 89
791305 89
791310 89
791401 89
791405 89
791410 89
792701 89
792705 89
792710 89
792810 89
792851 89
792855 89

8

80044-Case 126
80055-Case 126
80077-Case 126
80077SL-Case 126
80077SLG-Case 126
80077SLR-Case 126
80077SLY-Case 126
80095-Case 126
80310 51, 57
803100 51, 57
81233 126
81233A 126
81233AM 126
83132 97
83133 97
83360 97
84001-Case 48-50, 53-55, 58
84001-CASE 77
84008-Case 49, 53, 54, 55
84161 97
84163 97
84174 97
84175 97
8431098 108
85001 97, 110
85008-Case 134
85008ST-Case 134
8502-00 46
8503-00 46
8504-00 46
8505-00 46
8506-00 46
8507-00 46
8508-00 46
8509-00 46
8512-00 46
8513-00 46
8514-00 46
8515-00 46
85551 110
85656 110
8576 96
86001 97, 110
86002 109, 110
86002RE 109, 110
86007 109, 110
86661 110
86868SL 128
8690-01 46
8690-03 46
8690-05 46
8690-10 46
8690-100 46
8690-30 46
8690-300 46
8690-50 46
87203 132
87220 110
87233 132
87440 110
87550 110
87561 110
87562 110
87787 132
87787SL 132
87878 128
87878SL 128
88119-Case 126
88120-Case 126
88121-Case 126
88122-Case 126
88133-Case 126
88133A-Case 126
88234 126
88255 126
88264-Case 126
88275 126
884001 54, 62, 63
884008 63
88517-Case 126
88532-Case 126
88535-Case 127
88535A-Case 127
88535ASL-Case 127
88535SL-Case 127
88536-Case 127
88536A-Case 127
88732-Case 126
894005 111
894010 111
894020 111
894100 111
89660 102
89662 102
8V0620 109
8V2172 109
8V2672 109

9

9000 133
90001 133
90002 133
90003 127, 133
90004 133
90080 131
90081 131
90100 131
90120 131
90121 131
90131 131
90200 131
910-3000 104
910-3001 104
910-3301 104
910-3302 104
910-3315 104
910-3316 104
910-3320 104
910-3340 104
91944-Case 129
91946-Case 129
930011-Flex 90
930015-Flex 90
930028-Flex 90
930111-Flex 90
930115-Flex 90
930128-Flex 90
930211-Flex 90
930215-Flex 90
930228-Flex 90
955011 13
955022 13
95811X 101
96-9625 20
96010 29
960101 13
960101GC 13
96013 23
96015 29
96017 7, 10, 11, 12
960181 8, 31
960185 8, 31
960395 24
960400 43
96045 43
96050 29
96054 127, 133
96057 7, 10, 11, 12, 21, 29
96065 6
96065GC 4, 6
96077 7, 10, 11, 12, 29, 54
96089 7, 10, 11, 12, 29, 54
96096 127, 133
96097 73
960985 43
96100 20
96100B 20
96100GC 20
96104 5, 7, 10, 11, 12, 20, 73
9610C18100 44
9610C1825 44
9610C1850 44
9610C8100 44
9610C825 44
9610C850 44
9610NH100 44
9610NH25 44
9610NH50 44
9610SAX100 44
9610SAX25 44
9610SAX50 44
9610SCX100 44
9610SCX25 44
9610SCX50 44
9610Si100 44
9610Si25 44
9610Si50 44
96110-10 43
96120 21
961201 5, 15, 17
961202 5, 15, 17
96122-10 43
961234 133
96128-1 21
96128-2 21, 29
961515 73
96152-10 43
96154-10 43
96155-10 43
96173 25
961801 5, 7, 10, 11, 12, 20
961802 5, 7, 10, 11, 12
961879 21
961935 135
961PD100 45
961PD30 45
961PD50 45
96205-25 43
9620C18100 44
9620C1850 44
9620C8100 44
9620C850 44
9620NH100 44
9620NH50 44
9620SAX100 44
9620SAX50 44
9620SCX100 44
9620SCX50 44
9620Si100 44
9620Si50 44
96210-10 43
962144 24
96222-10 43
96230 10, 11, 12, 33
96232-10 43
96235 10, 11, 12, 33
962380 135
96242 63
96245-10 43
96254-10 43
96255-10 43
962611 13
962615 13, 21
962760 135
962761 135
962PD030 45
962PD050 45
962PD100 45
963048 135
96305 30
96305S 30
96323 20
96323B 20
96326 30
96326S 30
96340 6
96340GC 4, 6
96342 52, 63
96355 6
96355GC 4, 6
963670 7, 10, 11, 12, 29
963675 7, 10, 11, 12, 29
963724 9, 15, 17
963725 9, 15, 17
96380 30
96382 30
96384 18
96384SL 18
96385 30
96390 6
96390GC 4, 6
96400 15, 17, 18
964007 7, 10, 11, 12, 29
964008 9, 15, 17, 30
964012 20
964014 43
964016 43
96405 31
96405S 31
964075 7, 10, 11, 12
964085 9, 15, 17, 30
964097 43
964099 43
96432-10 43
96465-10 43
96473 24
96475 21
96481 31
96485 31
96489 31
96490 31
964PP20 43
964PP45 43
965007 7, 10, 11, 12, 29
965008 9, 15, 17, 30
965075 7, 10, 11, 12, 29
965085 9, 15, 17, 30
96518 73
96572 21
966011 13
966022 13
96620-10 43
96626 73
96627 30
96627S 30
96681 31
96681S 31
96685 30
96687 30
96687S 30
967101 43
967102 43
967103 43
967201 43
967202 43
967205 43
967208 43
967225 43
96726 20, 22, 73
96727 20, 22
96727-8 20, 22
96733 24
967701 7, 10, 11, 12, 29
967702 7, 10, 11, 12, 29
967720 13, 39, 87
967720GC 4, 13
967720TAP 13, 39, 87
96812-1 21
96812-2 21, 29
968120 20
96823 5, 20
96832-10 43
96835-10 43
96837 30
96837S 30
96840 22
96844 41
96845 22
96847 31
96847S 31
96855 22
96865 22
968801 9, 15, 17
968802 9, 15, 17
968810 8, 39, 87
968810GC 4, 8
968810TAP 39, 87
968820 9, 14, 39, 87
968820BL 9, 14
968820GC 4, 9, 14
968820TAP 39, 87
96888 22
96893 20
968PV20 43
96940 61
96950 61
96957 61
96958 61
96960 59
96961-1 21
969610 20
969610B 20
96962-2 21, 29
969620 20
969620B 20
969620Y 20
96970 59
96973 59
96A001 29
96A002 28
96A105 29
96A110 29
96A115 29
96A120 29
96AB11 28
96AB22 28
96AB74 28
96AB77 29
96B002 29
96BB05 26
96BB05-C 26
96BB10 26
96BB10-C 26
96BB15 26
96BB15-C 26
96F005 27
96F005A 27
96F010 27
96F010A 27
96F015 27
96F015A 27
96F020 27
96F020A 27
96F105 29
96F110 29
96F115 29

Index by Part Number

96F120 29
96F220 26
96F220-C 26
96F220A 26
96F220A-C 26
96F605 27
96F605A 27
96F610 27
96F610A 27
96F615 27
96F615A 27
96F620 27
96F620A 27
96F625 27
96FB00 28
96FB00-C 28
96FC00 28
96FC00-C 28
96FP05 26
96FP05-C 26
96FP10 26
96FP10-C 26
96FP15 26
96FP15-C 26
96FP20 26
96FP20-C 26
96FS00 28
96FS00-C 28
96FSC2 29
96FSC2-12 29
96FSC2PLUG 29
96FSC2STRIP 29
96FSC3 29
96FSC3PLUG 29
96FSC3STRIP 29
96FV05 27
96FV05-S 27
96FV05A 27
96FV10 27
96FV10-S 27
96FV10A 27
96FV15 27
96FV15-S 27
96FV15A 27
96FV20 27
96FV20-S 27
96FV20A 27
96FV20A-S 27
96RB00 28
96T001 6
96T002 6
96T100 62
96T105 62
96T200 62
96VL05 27
96VL05-S 27
96VL05A 27
96VL10 27
96VL10-S 27
96VL10A 27
96VL15 27
96VL15-S 27
96VL15A 27
96VL20 27
96VL20-S 27
96VL20A 27
96VL20A-S 27
970011-Flex 90
970015-Flex 90
97002 109
970028-Flex 90
97005 109
970111-Flex 90
970115-Flex 90
970128-Flex 90
970211-Flex 90
970215-Flex 90
970228-Flex 90
97130 102
97132 102
97132X 101
97137X 102
97141 102
97561 109
97565 109
990011-Flex 90
990015-Flex 90
990028-Flex 90
99003AM 129
99003AMSL 129
99003M 129
99003MSL 129
990041-Flex 90
990042-Flex 90
990043-Flex 90
99005-Case 129
99005A-Case 129
99005AM-Case 129
99005AMSL-Case 129
99005ASL-Case 129
99005M-Case 129
99005MSL-Case 129
99005SL-Case 129
99006-Case 128
99006A-Case 128
99006ASL-Case 128
99006G-Case 128
99006M-Case 128
99006MSL-Case 128
99006R-Case 128
99006SL-Case 128
99006W-Case 128
990111-Flex 90
990115-Flex 90
990128-Flex 90
990141-Flex 90
990142-Flex 90
990143-Flex 90
99015AM-Case 129
99015AMSL-Case 129
99015M-Case 129
99015MSL-Case 129
990211-Flex 90
990215-Flex 90
990228-Flex 90
99024 128
990241-Flex 90
990243-Flex 90
99024A 128
99042 128
99042A 128
99062 128
99062A 128
99260 128
99290 128
99290A 128
99669-Case 128
99669G-Case 128
99669R-Case 128
99669W-Case 128
99685 8, 31
99690 8, 31
9984001 54
99861 31
99862 31
99862S 31
99890 8, 31
99948 56
9997010 109
9997011 50, 109
9997012 109
9997014 50, 109
9997015 109
9997250 109
9997500 50, 109
99SL100CW 109
99SL10CW 109
99SL15CW 109
99SL1KCW 109
99SL200CW 109
99SL20CW 109
99SL250CW 109
99SL25CW 109
99SL500CW 109
99SL50CW 109

A

A204625 73
A204627 73
A204628 73
A6005430 73
A655097 73
A655180 73
ACRCLP01 73
ACRCLP02 73
ACRCLP03 73
ADV-CC 95
ADV-PCC 95
ADV-VF5 97
ADV-VN5 97
ADV2412 136
ADV9850 107
ADV9851 107
ADVC6W 110
ADVDC10W 110
ADVDC6WK 110
AP24727 73
AP9615HN 73
AS2-01016 83
AS2-02016 83
AS2-03016 83
AS2-04016 83
AS2-06016 83
AS2-10016 83
ASI1016H 85
ASI1032H 85
ASI1516H 85
ASI1532H 85
ASI2516H 85
ASI2532H 85
ASI3016H 85
ASI3032H 85
AVWRPCR1 73

C

CA1045 119
CA2932 119
CA4501 119
CA4502 119
CA4503 119
CA4504 119
CA4506 119
CA4507 119
CA4508 119
CA4521 119
CA4522 119
CA4544 119
CA4567 119
CA4571 119
CA4599 119
CapWrap10 85
CapWrap15 85
CapWrap25 85
CapWrap30 85
CapWrap5 85
CC1001 119
CC1002 119
CC1003 119
CC1004 119
CC1005 119
CC1006 119
CC1011 119
CC1012 119
CC1013 119
CC1014 119
CC1114 119
CC1418 119
CCGL3801 119
CCGL3802 119
CCGL3803 119
CF1400 123
CF5001 123
CF5002 123
CF5003 123
CF5006 123
CF5007 123, 125
CF5008 123
CF5009 123, 125
CF5010 123
CF5011 123
CF5012 123
CF5013 123
CF5014 123
CF5015 123
CF5016 123
CF5017 123
CF5018 123

Index by Part Number

CF5019 ... 123
CF5020 ... 123
CF5021 ... 123
CF5022 ... 122
CF5025 ... 122
CF5033 ... 122
CF5114 ... 123
CFX1428 ... 123
CJR01 ... 122
CJR02 ... 122
CJR03 ... 122
CJR04 ... 122
CJX01 ... 122
CJX02 ... 122
CL12160 ... 122
CL45002 ... 123
CL53005 ... 123
CL53010 ... 123
CL53020 ... 123
CL60020 ... 123
CL60030 ... 123
CLPP12752 ... 122
CLPP12755 ... 122
CLTF12752 ... 122
CLTF12755 ... 122
ColdSleeve-30 ... 86
C3001 ... 122
C5002 ... 122
C5003 ... 122
CW45002 ... 121
CW45018 ... 121
CW45118 ... 121
CW45218 ... 121
CW45313 ... 121
CW45319 ... 121
CW45418 ... 121
CW53218 ... 121
CW53219 ... 121
CW53418 ... 121
CW55218 ... 121
CW60001 ... 121
CW60218 ... 121
CW60302 ... 121
CW60319 ... 121
CW83001 ... 121
CW83004 ... 121
CW83418 ... 121
CW83419 ... 121
CW90418 ... 121
CX0001 ... 118
CX0002 ... 118
CX12000 ... 120
CX3000 ... 120
CX6000 ... 120
CX6010 ...
CX6020 ...
CY0003 ... 123
CY0005 ... 123
CY0007 ... 123
CY0009 ... 123
CY0011 ... 123

F

F1030050 ... 78, 79
F1088100 ... 78
F1088108 ... 79
F1088109 ... 79
F1088200 ... 79
F1088201 ... 79
F1088208 ... 79
F1088301 ... 79
F1088302 ... 79
F1088303 ... 79
F1088403 ... 79
F1088405 ... 79
F1088406 ... 79
F1088407 ... 79
F1088410 ... 79
F1088412 ... 79
F1088504 ... 79
FLATTAP ... 39, 87
FS-101 ... 107

H

HB764 ... 61
HCF116 ... 97
HCT116 ... 97
HCU116 ... 97
HCX116 ... 97
HS2-1012L ... 83
HS2-10L ... 83
HS2-1512L ... 83
HS2-15L ... 83
HS2-2012L ... 83
HS2-25L ... 83
HS2-30L ... 83
HS2-5L ... 83
HSI-0814L ... 85
HSI-1005L ... 85
HSI-1012L ... 85
HSI-1014L ... 85
HSI-10L ... 85
HSI-1512L ... 85
HSI-15L ... 85
HSI-1712L ... 85
HSI-2012L ... 85
HSI-25L ... 85
HSI-30L ... 85
HSI-3512L ... 85
HSI-5L ... 85

L

LOI-384 ... 38
LOI-96FT ... 38
LOR-96FT ... 38
LUM22418LA255 ... 71
LUM22418LS255 ... 71

LUM22418LA365 ... 70
LUM22418LA375 ... 70
LUM22418LA385 ... 70
LUM22418LA395 ... 70
LUM22418LA405 ... 70
LUM22418LA420 ... 70
LUM22418LA445 ... 70
LUM22418LA470 ... 70
LUM22418LA505 ... 70
LUM22418LA527 ... 70
LUM22418LA590 ... 70
LUM22418LA630 ... 70
LUM22418LA660 ... 70
LUM22418LA730 ... 70
LUM22418LA810 ... 70
LUM22418LAWHT ... 70

LUM22418LS365 ... 70
LUM22418LS375 ... 70
LUM22418LS385 ... 70
LUM22418LS395 ... 70
LUM22418LS405 ... 70
LUM22418LS420 ... 70
LUM22418LS445 ... 70
LUM22418LS470 ... 70
LUM22418LS505 ... 70
LUM22418LS527 ... 70
LUM22418LS590 ... 70
LUM22418LS630 ... 70
LUM22418LS660 ... 70
LUM22418LS730 ... 70
LUM22418LS810 ... 70
LUM22418LSWHT ... 70

LUM224LA365 ... 70
LUM224LA375 ... 70
LUM224LA385 ... 70
LUM224LA395 ... 70
LUM224LA405 ... 70
LUM224LA445 ... 70
LUM224LA470 ... 70
LUM224LA505 ... 70
LUM224LA527 ... 70
LUM224LA590 ... 70
LUM224LA630 ... 70
LUM224LAWHT ... 70

LUM224LS365 ... 70
LUM224LS375 ... 70
LUM224LS385 ... 70
LUM224LS395 ... 70
LUM224LS405 ... 70
LUM224LS445 ... 70
LUM224LS470 ... 70
LUM224LS505 ... 70
LUM224LS527 ... 70
LUM224LS590 ... 70
LUM224LS630 ... 70
LUM224LSWHT ... 70

LUM248LS365 ... 50
LUM248LS375 ... 50
LUM248LS385 ... 50
LUM248LS395 ... 50
LUM248LS405 ... 50
LUM248LS445 ... 50
LUM248LS470 ... 50
LUM248LS505 ... 50
LUM248LS527 ... 50
LUM248LS590 ... 50
LUM248LS630 ... 50
LUM248LS660 ... 50
LUM248LS730 ... 50
LUM248LS810 ... 50
LUM248LSWHT ... 50

LUM296DA365 ... 68
LUM296DA375 ... 68
LUM296DA385 ... 68
LUM296DA395 ... 68
LUM296DA405 ... 68
LUM296DA420 ... 68
LUM296DA445 ... 68
LUM296DA470 ... 68
LUM296DA505 ... 68
LUM296DA527 ... 68
LUM296DA590 ... 68
LUM296DA630 ... 68
LUM296DA660 ... 68
LUM296DA730 ... 68
LUM296DA810 ... 68
LUM296DAWHT ... 68

LUM296DS365 ... 68
LUM296DS375 ... 68
LUM296DS385 ... 68
LUM296DS395 ... 68
LUM296DS405 ... 68
LUM296DS420 ... 68
LUM296DS445 ... 68
LUM296DS470 ... 68
LUM296DS505 ... 68
LUM296DS527 ... 68
LUM296DS590 ... 68
LUM296DS630 ... 68
LUM296DS660 ... 68
LUM296DS730 ... 68
LUM296DS810 ... 68
LUM296DSWHT ... 68

LUM296LA365 ... 68
LUM296LA375 ... 68
LUM296LA385 ... 68
LUM296LA395 ... 68
LUM296LA405 ... 68
LUM296LA420 ... 68
LUM296LA445 ... 68, 73
LUM296LA470 ... 68, 73
LUM296LA505 ... 68
LUM296LA527 ... 68, 73
LUM296LA590 ... 68
LUM296LA630 ... 68, 73
LUM296LA660 ... 68, 73
LUM296LA730 ... 68
LUM296LA810 ... 68
LUM296LAWHT ... 68, 73

LUM296LS365 ... 68
LUM296LS375 ... 68
LUM296LS385 ... 68
LUM296LS395 ... 68
LUM296LS405 ... 68
LUM296LS420 ... 68
LUM296LS445 ... 68
LUM296LS470 ... 68
LUM296LS505 ... 68
LUM296LS527 ... 68
LUM296LS590 ... 68
LUM296LS630 ... 68
LUM296LS660 ... 68
LUM296LS730 ... 68
LUM296LS810 ... 68
LUM296LSWHT ... 68

LUM296LAG1 ... 69
LUM296LAG2 ... 69
LUM296LAG3 ... 69
LUM296LSG1 ... 69
LUM296LSG2 ... 69
LUM296LSG3 ... 69
LUM2CON ... 65, 75
LUM2CONP1 ... 65
LUM2CONP4 ... 65

M

MC280OLE ... 74
Monocon ... 82
MonoSLEEVE ... 84
Multicon ... 82
MultiSLEEVE ... 84
MW0010 ... 125
MW0406 ... 125
MW0523 ... 125
MW0802 ... 125
MW1010 ... 125

P

PD5758 ... 112
PD5788 ... 112
PD5939 ... 111
PD7738 ... 112
PD7788 ... 112
PD8888 ... 111

S

SDY-102 ... 93
SDY-103 ... 93
SDY-201 ... 93
Sentinel ... 124
SHS0034 ... 52, 53, 56
SHS0058 ... 52, 55
SHS0114 ... 51, 54, 57
SHS152 ... 61
SHS6140 ... 58
SL100CWPK ... 109
SL10CWPK ... 109
SL10KCW ... 109
SL1KCWPK ... 109
SL20CWPK ... 109
SL2CWPK ... 109
SL2KCW ... 109
SL500CWPK ... 109
SL50CWPK ... 109
SL5CW ... 109
SL5CWPK ... 109
SL5KCW ... 109
SLASBG33 ... 73
SPEC24 ... 81
SPEC96 ... 80

T

TAPSCREW ... 39, 87
TAPWASH ... 39, 87
TCubeEdge ... 51, 74
TS146 ... 61
TS350 ... 61
TT1001 ... 88, 107
TT1002 ... 88, 107
TT1003 ... 88

U

UVGoggles ... 75

V

VXH593-888 ... 111
VXL554-670 ... 113
VXL556-483 ... 113
VXV5788-000 ... 112
VXV7788-000 ... 112

W

WASH553 ... 61
Wrench-10 ... 107
Wrench-12 ... 107
Wrench-6 ... 107
Wrench-8 ... 107

Index by Topic

A

AgileSleeve+® ... 85
AgileSleeve+® Gen II ... 83

C

Canary-Safe™ Solvent Safety Products
Adapters
For JustRite® Waste Containers ... 122
Joint Adapters for Exhaust Filters ... 123
Thread Adapters for Mobile Phase Caps ... 119
Port Adapters for GL45 Caps ... 119
Connectors, Collectors & Fittings ... 123
Exhaust Filters ... 120
Filter Check Valves ... 118
Mobile Phase Bottle Safety Caps ... 118, 119
Multi-Inlet Waste Manifold ... 125
Safety Waste Caps ... 120, 121
SENTINEL™ Fluid level Indicator ... 124
Cap Mats
96-Well, Round ... 7, 10, 11, 12, 31
96-Well, Round, Specialty ... 13
96-Well, Square ... 9, 15, 17, 30
384-Well ... 18
For 1.2mL Polypropylene Tubes ... 21
For 1mL Truetaper® Collection Plates ... 8
For 600µL Polypropylene Tubes ... 22
For PCR Plates ... 20
TPE Plugs for 8x30mm Vials Inserts ... 10
TPE Plugs on 96 Well Spine ... 7, 29
Check Valves ... 104
Chillers, Recirculating
TCube Edge ... 51, 74
Minichiller 280 Ole ... 74
Chromatography Tools & Accessories ... 107
Cold Sleeve™ ... 86
Collection Plates
96-Well, 1mL
Clear-Vu™ ... 12
Half-Height Round Well, Round bottom ... 13
Standard Round Well, Round Bottom ... 10, 11
TrueTaper® - 1mL ... 8
96-Well, 2mL
Clear-Vu ... 16
Round Well, Round Bottom ... 13
Square Well, Round Bottom ... 16
Square Well, V-Bottom ... 14
TrueTaper® - 2mL ... 9, 14
96-Well, Small Volume
Round Well, Deep V-Bottom ... 6
Round Well, Flat Bottom ... 6
Round Well, U-Bottom ... 6
Round Well. V-Bottom ... 6
384-Well, Glass ... 19
384-Well, Polypropylene ... 18, 19
1536-Well, Polypropylene ... 19
Polypropylene Tubes in 96-Well Blocks ... 21, 22
PTFE Reservoirs ... 25
Reservoirs and Basins ... 24
Collection Plate Accessories
EquaVAP® Blowdown Evaporators ... 34-37
Numeric & Alpha-Numeric Templates ... 6
LightOne™ Red ... 38
LightOne™ Illuminator ... 38
LightOne™ Pro ... 38
ViewOne™ Indexer ... 38
ViewOne™ Lablite ... 38
Column Heaters. *See* **Heaters**
Crimpers ... 131

D

Decappers ... 131
Decrimpers ... 131
Desalting Plates, 384-well ... 45
Dried Blood Spot Card Punch (DBS) ... 40
Dry Heat Blocks, Aluminum ... 21

E

Electrochemistry
Flow Electrolysis Assemblies ... 78, 79
Flow Electrolysis Accessories ... 79
HTe-Chem Assemblies ... 76
HTe-Chem Accessories ... 77
OWiC SPECS Vials for
"Light-Powered" Electrochemistry ... 80, 81
EquaVAP® Blowdown Evaporators ... 34-37
Exhaust Filters, Canary-Safe™ ... 120

F

Ferrules
UHPLC Replacement ... 90, 91, 109
Filters
Direct Connect ... 98
Inline & Pre-Column ... 98, 99
Solvent ... 106
Filter Plates. *See* **Protein Crash Plates**
Fingertight UHPLC Assemblies ... 91
Fittings
Large Bore, Low Pressure ... 102
Lite-Touch™ ... 93
Low Pressure ... 100, 101
Metric ... 105
One Piece ... 92
RheFlex® ... 92, 93
Rheodyne® Fittings ... 97
Stainless Steel ... 92
Standard Fittings ... 97
Two Piece ... 92, 93
Ultra High Pressure ... 92, 93
Valco Fittings ... 97
Fittings Kits (HPLC) ... 94
Fittings Storage Cabinets ... 107
FlexChrom® Fingertight UHPLC Assemblies ... 90
Flexi-Tier™ 96-Well Collection Systems ... 26
Flexi-Tier Accessories ... 28
Flexi-Tier Aluminum Base Plate (Tall) ... 28
Flexi-Tier Aluminum Collection Systems ... 29
Flexi-Tier Cap Mats ... 29
Flexi-Tier Clear Collection Systems ... 26
Flexi-Tier Loose Vials & Loader Sets ... 27
Flexi-Tier Opaque Collection Systems ... 26
Polypropylene Plugs ... 29
Flow Electrolysis
Divided Cell (dual stream) Assembly ... 79
Undivided Cell (single stream) Assembly ... 78
Flow Splitters and Mixers
Adjustable Post-Column Flow Splitters ... 114
Adjustable Pre-Column Flow Splitters ... 114
Fixed ... 115
Static Bed Mixers ... 116

G

Glass Inserts for 96-Well Collection Plates
0.7mL, Loose & Assembled, Flat Bottom ... 30
0.7mL, Loose & Assembled, Tapered ... 30
1mL, Loose & Assembled, Flat Bottom ... 31
1mL, Loose & Assembled, Tapered ... 31
Select-A-Vial™ Vial Insert/Rack System ... 32, 33
Glass Microplates, 384-Well ... 19

H

Hamilton Syringes, Infusion Syringes & Kits ... 108
Heaters, Column
AgileSleeve+® ... 85
AgileSleeve+® Gen II ... 83
Cold Sleeve™ ... 86
HotSleeve+™ ... 85
HotSleeve+™Gen II ... 83
Heater Controllers
Monocon™ ... 82
MonoSLEEVE™ ... 84
Multicon™ ... 82
MultiSLEEVE™ ... 84
Heating Accessories
Column CapWrap™ ... 85
Thermal Adapter Plates ... 13, 14, 39, 87
Thermal Transfer Decks ... 71
High Temperature Ceramic Reaction Block ... 1, 60
HotSleeve+™ ... 85
HotSleeve+™ Gen II ... 83
HPLC Adapters & Connectors ... 95
HTe-Chem Electrochemistry Assemblies ... 76

I

Infusion Kits ... 108
Injectors, Valco ... 110

J

JustRite® Waste Containers ... 122

L

LightOne™ Red ... 38
LightOne™ Illuminator ... 38
LightOne™ Pro ... 38
Light-Powered Electrochemistry
OWiC SPECS Vials ... 80, 81
Low Pressure Automatic Switching Valves ... 113
Low Pressure Unions, Tees, Crosses ... 103
Low Pressure Valves ... 104
Back Pressure Regulators ... 104
Inline Cartridge Check Valves ... 104
Inline Check Valves ... 104
Low Pressure Switching Valves ... 104
PEEK™ Shut Off Valves ... 104
Quick-Stop Luer Check Valves ... 104
Lumidox® II Photon Generation Devices ... 64-75
Lumidox® II+ 1 Channel Controller ... 1, 65
Lumidox® II+ 4 Channel Controller ... 1, 65
Lumidox® II 255nm-UVC Array for Quartz Vials 1, 60
Lumidox® II LED Arrays
24-Position LED Arrays with 9mm Spacing ... 70
24-Position LED Arrays with 18mm Spacing ... 70
96-Position LED Arrays ... 64, 68, 69
255nm-UVC LED Arrays ... 71
Discovery/Screening 96-Position LED Arrays ... 69
Active Cooling Base ... 67
Diffuse Mat Surface ... 66
Lens Mat Surface ... 66
Solid Base ... 67
Lumidox® II Controller ... 65, 75
LumLamp ... 75

M

Mass Spec Polishing Kit ... 109
Metric Fittings & Assemblies ... 105
Micro-Centrifuge Tubes ... 46, 136
Mixers, Static Bed ... 116-117
Mobile Phase Bottle Safety Caps ... 118, 119

Index by Topic

Mobile Phase Handling Systems & Accessories
- Complete Vacuum Filter Systems ... *47*
- End to End Micro Pipettes ... *40*
- Micro-Spin Filter Tubes ... *46*
- MWCO Spin Filters - Micro ... *46*
- Replacement Parts & Accessories ... *47*

Monocon™ ... *82*
MonoSLEEVE™ ... *84*
Multicon™ ... *82*
MultiSLEEVE™ ... *84*
Multi-Inlet Waste Manifold ... *125*
MWCO Micro Spin Filters ... *46*

O

OWiC SPECS Vials for "Light-Powered" Electrochemistry
- 1mL (8 x 30mm) Glass with SPECS (96) ... *1, 80*
- 4mL (15 x 45mm) Glass with SPECS (24) ... *81*

P

Para-dox® Aluminum Reaction Blocks ... *48*
- For 4x21mm (50µL) Flat Bottom Glass Inserts
  - Micro 24-Pos Photoredox Catalysis, Gen II ... *48, 52*
  - Micro 96-Pos Photoredox Catalysis, Gen II ... *48, 52*
  - Micro 24 and 96-Position Blocks, Gen I ... *59*
- For 8x30mm (1mL) Clear Glass Vials
  - Std 24-Pos Parallel Synthesis, Gen II ... *49, 55*
  - Std 24-Pos Photoredox Catalysis, Gen II ... *49, 55*
  - Std 96-Position Parallel Synthesis, Gen II ... *49,53*
  - Std 96-Position Photoredox Catalysis, Gen II. *49, 53*
  - Std 96-Position Photo LIGHTWEIGHT, Gen II *49, 54*
  - Standard 24 and 96-Position Blocks, Gen I ... *59*
- For 12x32mm (2mL) Crimp/Snap Vials
  - HPLC 48-Pos Parallel Synthesis, Gen II ... *49, 56*
  - HPLC 48-Pos Photoredox Catalysis, Gen II *49, 56*
  - HPLC 48-Position Reaction Blocks, Gen I ... *59*
- For 15x45mm (4mL) Clear Glass Screw Vials
  - 1 Dram, 24-Pos Parallel Synthesis, Gen II ... *49, 57*
  - 1 Dram, 24-Pos Photoredox Catalysis, Gen II *49, 57*
  - 1 Dram, 24-Position Photoredox Catalysis, w/ Temperature Transfer Cover, Gen II ... *49*
  - 1 Dram, 24-Pos Reaction Blocks, Gen I ... *59*
- For 17x60mm (8mL) Clear Glass Screw Vials
  - 2 Dram, 24-Pos Parallel Synthesis, Gen II ... *49, 58*
  - 2 Dram, 24-Pos Photoredox Catalysis Gen II .. *49, 58*
  - 2 Dram, 24-Position Reaction Blocks, Gen I ... *59*
- For 16x35mm (4mL) Quartz Vials
  - 1 Dram, 24-Pos Photoredox for Quartz ... *1, 60*

Radiochemistry Reactors ... *61*
Temperature Controlled Reactors
- 24 Position, for 15x45 (1 Dram) Vials ... *51*
- 24-Position TCR w Temperature Transfer Cover ... *51*
- 48 Position, for 8x30 (1mL) Vials ... *50*

Accessories
- Assembled Vials in Stackable Trays
  - 4x21mm Vials (96) ... *63*
  - 5x31mm Vials (96) ... *63*
  - 8x30mm Crimp Top Vials (96) ... *54, 63*
  - 8x30mm Crimp Top Vials for TCR (48) ... *63*
  - 8x30mm Glass Inserts (96) ... *63*
  - 8x30mm Glass Inserts for TCR (48) ... *63*
  - Barcoded 8x30mm Vials in Tray ... *54*
- Plugs for 8x30mm Vials Inserts ... *54*
- Powder Funnel & Transfer Plates ... *62*
- Quartz Vials, 16x35mm, 4mL ... *60*

Para-dox® High Temp. Ceramic Reaction Block ... *60*
PCR Plates & Sealing Products ... *20*
Polypropylene Tube Plug Caps ... *21, 29*
Polypropylene Tubes in 96-Well Blocks ... *21, 22*
Protein Crash Plates
- 24-well Filter Plates ... *43*
- 384-well Filter Plates ... *43*
- 96-Well Protein Crash Plates ... *42*
- Drug Discovery Filter Plates ... *43*
- General Filtration Filter Plates ... *43*

PTFE Reservoirs ... *25*

Q

Quartz Vials, 16 x 35mm, 4mL ... *60*

R

Radiochemistry Reactors ... *1, 61*
Replacement Graphite Ferrules ... *109*
Reservoirs, Trough Plates & Basins ... *24, 25*
RheBuild® Kits ... *112*
Rheodyne® RheFlex® SS Two Piece Fittings ... *93*
Rotor Seals ... *110*

S

Sample Loops
- Fingertight Sample Loops ... *109*
- Stainless Steel Sample Loops ... *111*
- UHPLC Fingertight Sample Loops ... *109*
- Valco PEEK™ Sample Loops ... *109*
- Valco Stainless Steel Sample Loops ... *109*

Select-A-Vial™ Vial Insert/Rack System ... *32, 33*
SENTINEL™ Fluid level Indicator ... *124*
SiliGuard™ ... *4*
Solvent Filters ... *106*
Stir Bars
- Magnetic, 1.32mm x 1.57mm (Fleas) ... *52*
- Magnetic, 1.60mm x 4.80mm ... *53, 54, 55*
- Magnetic, 1.98mm x 4.80mm ... *53, 54, 55, 56, 58*
- Magnetic, 5x2mm, PTFE Coated ... *56*
- Magnetic, 8x3mm, PTFE with Pivot Ring ... *51, 57*

Stir Bar Drop Dispensers
- For 1.32 x 1.57mm Stir Bars (Fleas), 96 Well ... *52*
- For 1.98 x 4.80mm Stir Bars, 96 Well ... *53, 54, 55*

Storage/Assay Plates, 24 & 48-Well ... *23*
Switching Valves
- High Pressure ... *112*
- Low Pressure ... *111, 113*
- PEEK ... *112*

Syringe Ports ... *110*
Syringes
- 700 Series Microliter™ w/ Cemented Needles ... *108*
- CTC LC PAL Autosampler Syringes ... *110*
- Gastight® Syringes for LC-MS Infusion ... *108*
- Modified Syringe for Basic Compounds ... *110*
- Small Volume Syringes ... *108*
- Syringes with Cemented Needles ... *108*

T

Tees
- PEEK ... *96, 103*
- Stainless Steel ... *96*

Thermal Adapter Plates ... *13, 14, 39, 87*
Thermal Transfer Decks ... *71*
Tools, Specialty ... *107*
TrueTaper® Collection Plates ... *8, 9, 14*
Tubing
- Capillary ... *88*
- ETFE (Tefzel®) ... *89*
- FlexChrom® ... *90*
- Hastelloy ... *89*
- Micro Tubing Sleeves ... *88*
- PEEK™ ... *88*
- Stainless Steel ... *89*
- Teflon® ... *89*

Tubing Cutters ... *107*
Tuning Tee Kit ... *108*

U

Unions, Tees & Adapters - Fluidic Transfer
- Adapters ... *95*
- Hastelloy ... *97*
- Low Pressure ... *105*
- PEEK ... *96, 97*
- Stainless Steel ... *96, 97*
- ZDV Unions ... *96*

UV Safety Goggles ... *75*

V

Vacuum Filtration Systems ... *45, 47*
Vacuum Manifold Filtration System ... *41*
Valves & Accessories, Valco ... *109, 110*
- CTC Autosampler Syringes ... *110*
- Modified Syringes for Basic Compounds ... *110*
- Replacement High Pressure SS Sample Loops ... *109*
- Replacement Parts for 6 Port Injector ... *109*
- Replacement Parts for CTC Autosamplers ... *110*
- Valco Replacement Rotor Seals ... *110*
- Valco Valves for Thermo & CTC Autosamplers ... *109*

Valves, Check
- Inline Check Valves ... *104*
- Inline Cartridge Check Valves ... *104*
- Low Pressure Check Valves ... *104*
- Low Pressure Switching Valves ... *104*
- Quick-Stop Luer Check Valves ... *104*

Valves, Electronic
- High Pressure Automatic Switching Valves ... *112*
- Ultra High Pressure Automatic Switching Valves ... *111*

Vials & Vial Storage
- 8 x 40mm Shell Vials & Plugs ... *134*
- 9mm, 12 x 32mm Vials, Caps & Inserts ... *126-129*
- 9mm Precision MSQ Vials ... *129*
- 10mm, 12 x 32mm Vials, Caps & Inserts ... *130, 131*
- 11mm, 12 x 32mm Vials, Caps & Inserts ... *131, 132*
- 13mm, 15 x 45mm Vials, Caps & Inserts ... *134*
- Aluminum Block, 12-Well ... *21*
- Aluminum Vial Trays ... *135*
- Crimpers, Decrimpers & Decappers ... *131*
- Cryovials and Microtubes ... *136*
- Precision MSQ 9mm, 12 x 32mm Vials ... *129*
- Storage Bases and Racks ... *133*

ViewOne™ Indexer ... *38*
ViewOne™ Lablite ... *38*
V-Troughs ... *23*

W

Waste Bottle Caps, Safety ... *120, 121*
Waste Containers, JustRite® ... *122*
Waste Containers, Standard ... *123*
Wrenches ... *107*

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