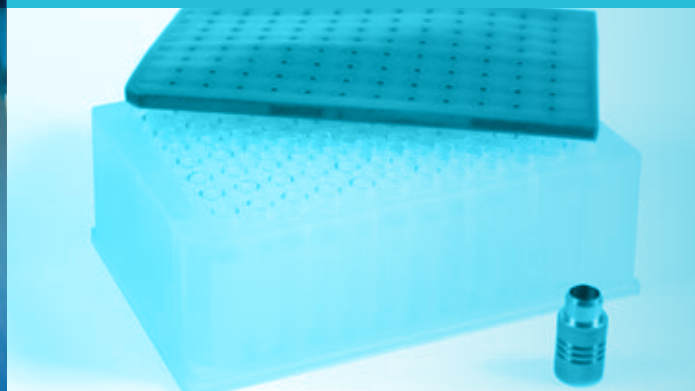


Thermo Scientific
Well Plates for Chromatography



Innovative Solutions

High density sample handling products

Innovative Solutions for

High Density Sample Handling

Organic solvents have always created challenges for the chromatographer. Needed to extract compounds of interest from samples, organic solvents as eluents do not have to be problematic. Typically, sample containers have been individual glass vials with closures that provide a resistant surface to the organic eluent, thus maintaining sample integrity. The closure possesses a soft, piercable, resealing layer to allow reliable aliquot removal without opening the container, thereby preserving a stable sample environment. There can be significant differences in the solvent characteristics of GC and HPLC methods.

The Thermo Scientific™ WebSeal™ system presents a new range of well plates which meet the requirements of today's chromatographer using well plate compatible autosamplers. It provides all of the advantages of sample handling using plates, the security of achieving reliable results along with decades of experience from the market leader in sample containers for chromatography.

The WebSeal™ system is a comprehensive range of polypropylene well plates and seals that can be used for different types of analytical challenges and all types of chromatographic applications. For maximum solvent compatibility a wide range of options for plates employing glass inserts are offered.

Features:

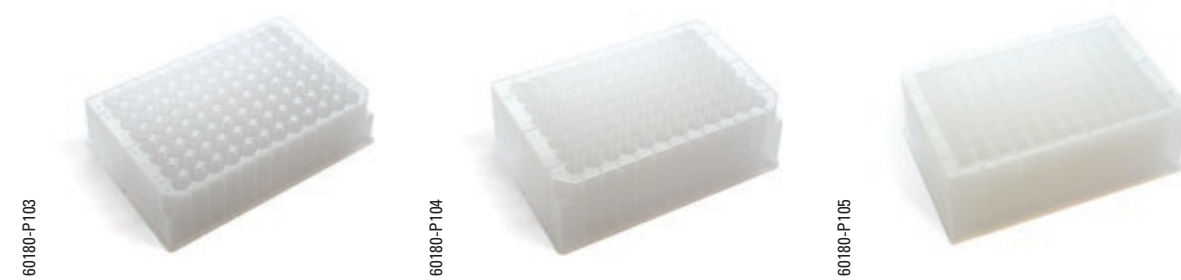
- The first complete and chromatography tested portfolio of well plates for separations science applications.
- Prepare and analyze samples in less time with less lab bench space and storage space required per sample.
- Easier and quicker filling and sealing process using multi-channel pipetting tools.
- Efficient transport of many samples in a single plate.
- SBS/ANSI standard footprint assures compatibility with all well plate capable prep stations and chromatography autosamplers.
- Wide range of options to fit the specific requirements of your application.

In order to help you select the best plates and mats for your application, please visit www.thermoscientific.com/webseal to access the Web and Mat Selector Tool.



Thermo Scientific WebSeal Well Plates, plastic, non coated, non sterile, chromatography tested

- Polypropylene microplates are manufactured from a GC tested material
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80°C to $+121^{\circ}\text{C}$
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery



WebSeal Well Plates, plastic, non coated, non sterile, chromatography tested

Description	Material	Total Height	Well Format	Total Volume (μL)	Working volume range $\mu\text{L}/\text{well}$	Cat. No.	Pack of
96-Well Microplate, round well	PP	14.4	V-Shape, 8mm dia	450	10-400	60180-P100	20
	PP	14.4	V-Shape, 8mm dia	450	10-400	60180-P130	120
96-Well Microplate, round well	PP	14.5	U-Shape, 8mm dia	500	20-450	60180-P102	10
	PP	14.5	U-Shape, 8mm dia	500	20-450	60180-P132	120
	PP	31.6	U-Shape, 8mm dia	1300	50-1000	60180-P103	5
	PP	31.6	U-Shape, 8mm dia	1300	50-1000	60180-P133	50
	PP	44.0	U-Shape, 8mm dia	2000	50-1900	60180-P104	5
	PP	44.0	U-Shape, 8mm dia	2000	50-1900	60180-P134	60
96-Well Square Well Microplate (-196°C to $+121^{\circ}\text{C}$)	PP	44.0	V-Shape, square	2000	50-1900	60180-P105	5
	PP	44.0	V-Shape, square	2000	50-1900	60180-P135	50
384-Shallow Well Standard Height Microplate	PP	14.4	U-Shape, square	58	2-35	60180-P106	25
	PP	14.4	U-Shape, square	58	2-35	60180-P136	100
384-Well Deep Well Microplate	PP	22.0	U-Shape, square	252	5-240	60180-P107	5
	PP	22.0	U-Shape, square	252	5-240	60180-P137	60
	PP	14.4	U-Shape, square	120	10-100	60180-P108	20
	PP	14.4	U-Shape, square	120	10-100	60180-P138	120
	PP	14.4	V-Shape, square	145	4-120	60180-P109	10
	PP	14.4	V-Shape, square	145	4-120	60180-P139	80

Thermo Scientific WebSeal Mats and Sealing Tapes, non sterile

- Mats manufactured of EVA (Ethylene-vinyl acetate) or pure silicone with or without PTFE coating
- The footprint permits plates to be securely stacked without robotic arm interference
- Eliminates cross contamination of samples
- Silicone mats are dry heat autoclavable with excellent chemical compatibility, able to withstand temperatures as low as -80°C
- Resists coring and tearing
- Superior resealability after multiple injections
- Available pre-slit for easy penetration and reduced vacuum formation

Sealing Tapes minimize evaporation and protect samples from contamination and spilling.

- Adhesive seals effectively seal all microplate formats
- Wide range of adhesive seals for every assay
- Thin, lightweight tapes seal onto the plate with a convenient, handheld applicator (available separately, Cat. No. 60180-M999)



WebSeal Mats and Sealing Tapes, non sterile

Description	Color	Material	Well Design	Pre-slit	Cat. No.	Pack of
WebSeal Mats (solvent resistant)	Clear	Silicone	96 Round Well, 8mm dia	Yes	60180-M100	10
WebSeal Mats (alcohol resistant)	Clear	EVA	96 Round Well, 8mm dia	No	60180-M101	5
WebSeal Mats (alcohol resistant)	Clear	EVA	96 Round Well, 8mm dia	No	60180-M171	50
WebSeal Mats (solvent resistant)	Clear	Silicone/PTFE	96 Round well – Flat Base, 8mm dia	No	60180-M102	5
WebSeal Mats (solvent resistant)	Clear	Silicone/PTFE	96 Round well – Flat Base, 8mm dia	Yes	60180-M103	5
WebSeal CLR Silicone Mat	Clear	Silicone	96 Square Well	No	60180-M121	5
	Clear	Silicone	96 Square Well Pre-slit	Yes	60180-M123	5
	Clear	Silicone	384 Square Well	No	60180-M126	5
	Clear	Silicone	384 Square Well	Yes	60180-M150	5
Sealing Tape, -40°C - 90°C	Clear	PE/Silicone	N/A	No	60180-M142	100
Sealing Tape, -70°C - 100°C	Clear	PES/Silicone	N/A	No	60180-M143	100
Sealing Tape, -80°C - 120°C	Silver	Aluminum/Silicone	N/A	No	60180-M144	100
Sealing Tape with SRA (synthetic rubber adhesive)	Clear	Polyolefin/Rubber	N/A	No	60180-M145	100
Sealing Tape with 3 layer no adhesive at cavity area	Clear	PET/Silicone/PET	N/A	No	60180-M146	100
Sealing Tape with 3 layer no adhesive at cavity area	Clear	PET/Silicone/PET	N/A	No	60180-M176	25
Hand Held Sealing Tape Applicator	Gold	N/A	N/A	N/A	60180-M950	2
Hand Held Mat Applicator	Black	N/A	N/A	N/A	60180-M999	1

Thermo Scientific WebSeal Well Plates, plastic, non coated, non sterile, Certified

- Polypropylene microplates are manufactured from ultra low bleed high purity basis resin
- Plates are fully Lot tested by GC/MS for organic extractables
- Microplates are chemically and thermally resistant and will tolerate temperatures from -80°C to +121°C
- SBS and ANSI standard footprint design for broad instrument compatibility
- Microplates are ideal for pharmaceutical applications, sample collection and storage, combinatorial chemistry and HTS applications
- U- and V- bottom wells for optimal sample recovery

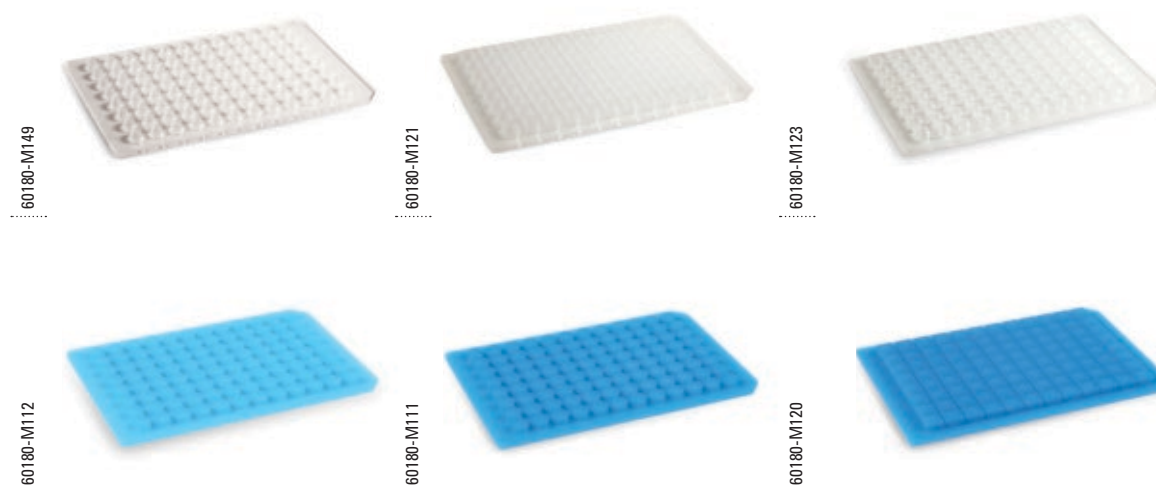


WebSeal Well Plates, plastic, non coated, non sterile, Certified

Description	Material	Total Height	Well Format	Total Volume (µL)	Working Volume range µL/well	Cat. No.	Pack of
96-Well Microplate, round well	PP	14.7	Flat bottom, 7mm dia	350	10-300	60180-P215	10
	PP	14.7	Flat bottom, 7mm dia	350	10-300	60180-P205	100
	PP	14.7	U-Shape, 7mm dia	270	10-250	60180-P216	10
	PP	14.7	U-Shape, 7mm dia	270	10-250	60180-P206	100
	PP	14.7	V-Shape, 7mm dia	220	10-190	60180-P217	10
	PP	14.7	V-Shape, 7mm dia	220	10-190	60180-P207	100
	PP	41.6	U-Shape, 7mm dia	1000	50-900	60180-P211	5
	PP	41.6	U-Shape, 7mm dia	1000	50-900	60180-P201	50
96-Well Square Well Microplate	PP	44.4	V-Shape, 8mm dia	2000	50-1900	60180-P212	5
	PP	44.4	V-Shape, 8mm dia	2000	50-1900	60180-P202	50
384-Well Microplate	PP	14.4	U-Shape, square	58	2-35	60180-P213	10
	PP	14.4	U-Shape, square	58	2-35	60180-P203	60
	PP	30.2	V-Shape, square	300	5-240	60180-P214	6
	PP	30.2	V-Shape, square	300	5-240	60180-P204	48

Thermo Scientific WebSeal Mats, non sterile

- Manufactured of pure silicone with or without PTFE coating
- The footprint permits plates to be securely stacked without robotic arm interference
- Eliminates cross contamination of samples
- Dry heat autoclavable with excellent chemical compatibility, withstand low temperature to -80°C
- Resists coring and tearing
- Superior resealability after multiple injections
- Available pre-slit for easy penetration and reduced vacuum formation



WebSeal Mats and Sealing Tapes, non sterile

Description	Color	Material	Well Design	Pre-slit	Cat. No.	Pack of
WebSeal CLR Silicone Mat	Clear	Silicone	96 Round well – Flat Base, 7mm dia	No	60180-M149	5
	Clear	Silicone	96 Round Well – Flat Base, 7mm dia	Yes	60180-M113	5
	Clear	Silicone	96 Square Well	No	60180-M121	5
	Clear	Silicone	96 Square Well	Yes	60180-M123	5
	Clear	Silicone	384 Square Well	No	60180-M126	5
	Clear	Silicone	384 Square Well	Yes	60180-M150	5
WebSeal Mat	Blue	Silicone/PTFE	96 Round well – Flat Base, 7mm dia	No	60180-M111	5
	Blue	Silicone/PTFE	96 Round well – Flat Base, 7mm dia	Yes	60180-M112	5
	Blue	Silicone/PTFE	96 Square Well	No	60180-M120	5
	Blue	Silicone/PTFE	96 Square Well	Yes	60180-M122	5
	Blue	Silicone/PTFE	384 Square Well	No	60180-M125	5
	Blue	Silicone/PTFE	384 Square Well	Yes	60180-M131	5
Hand Held Mat Applicator	Black	N/A	N/A	N/A	60180-M999	1

Thermo Scientific WebSeal Plate+ Glass Coated Microplates

- High quality polypropylene microplates coated with 200nm thick layer of silicone dioxide
- Plate+ provides microplates with a chemical resistance similar to glass while retaining the advantages of polypropylene
- Eliminates the need to use glass limited volume inserts
- Excellent for applications where plastic microplates are not applicable
- Plate+ is chemically and thermally resistant and will tolerate temperatures from -80°C to +80°C
- Lightweight, precision molded, cost-effective alternative to solid glass plates



Plate+ Glass Coated Microplates

Description	Material	Total Height	Well Format	Total Volume	Working Volume	Cat. No.	Pack of
96 Well Microplate, round well	Glass coated PP	14.6	U-Shape, 7mm dia	300µL	250µL	60180-P300	10
	Glass coated PP	14.6	V-Shape, 7mm dia	220µL	190µL	60180-P302	10
	Glass coated PP	14.6	Flat Bottom, 7mm dia	370µL	300µL	60180-P304	10
96 Deep Well Microplate, round well	Glass coated PP	41.5	U-Shape, 7mm dia	1.2mL	1.0mL	60180-P306	10
96-Well Square Well Microplate	Glass coated PP	44	V-Shape, 8mm dia	2.4mL	2.0mL	60180-P308	10
384 Well Microplate	Glass coated PP	14.4	Square-Rounded	120µL	90µL	60180-P310	10
	Glass coated PP	22	Square-Rounded	240µL	180µL	60180-P312	6

For sealing mats, please refer to the previous page.

Thermo Scientific WebSeal Glass Inserted Plate Kits with 96-position Mats

- Convenient wellplate kits with pre-inserted glass or PTFE vials
- Replacement parts for kits available separately
- Unique cutting tool allows removal of individual samples with the seal in place, eliminating cross contamination
- Kits are packaged with vials pre-assembled
- Mats with solid plugs are used for sample storage



WebSeal Glass Inserted Plate Kits with 96-position Mats

Kit Type	Vial Material	Total Volume (µL)	Vial Dimension (mm)	Profile	Mat material	Total Height (mm)	Vial Cat. No.	Mat Cat. No.	Kit Cat. No.	Pack of
96 Well Small Volume Microplate with Sealing Mat	Clear glass	500	6.5 x 31	taper	Silicone/PTFE	32	60180-V100	60180-M151	60180-K100	5
96 Well Small Volume Microplate with Sealing Mat and Cutting Tool	Clear glass	700	6.5 x 41.4	taper	Silicone/PTFE	44	60180-V101	60180-M151	60180-K101	5
96 Well Small Volume Microplate with Sealing Mat and Cutting Tool	PTFE	700	6.5 x 41.4	taper	Silicone/PTFE	44	60180-V103	60180-M151	60180-K103	1
96 Well Microplate with Sealing Mat and Cutting Tool	Clear glass	1100	7.45 x 38.5	round	Silicone/PTFE	41.5	60180-V104	60180-M153	60180-K104	5
96 Well Microplate with Crimp Top Vials, pre-inserted	Clear glass	1100	7.45 x 45	round	N/A	47	60180-V105	N/A	60180-K105	5
96 Deep Well Plate with Sealing Mat	Clear glass	1500	7.25 x 60.5	round	Silicone/PTFE	64.5	60180-V106	60180-M153	60180-K106	5
96 Square Well Plate with Sealing Mat	Clear glass	1000	7.6 x 45	constricted	Silicone/PTFE	47.3	60180-V107	60180-M155	60180-K107	1
96 Square Well Plate with Sealing Mat - Precut	Clear glass	1000	7.6 x 45	constricted	Silicone/PTFE	47.3	60180-V107	60180-M156	60180-K108	1
96 Square Well Plate with Sealing Mat - solid plug	Clear glass	1000	7.6 x 45	constricted	Silicone/PTFE	47.3	60180-V107	60180-M157	60180-K109	1

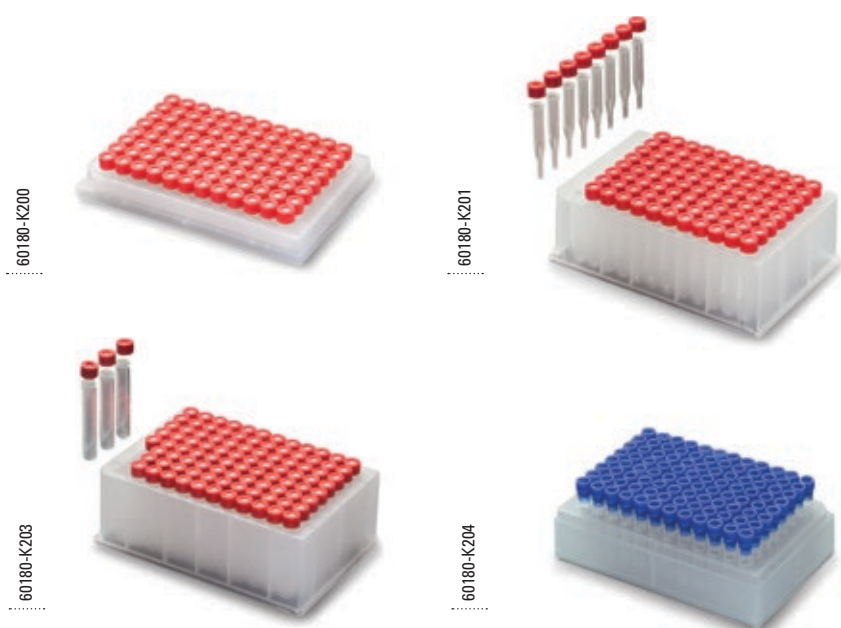


WebSeal Kit Accessories

Kit Type	Vial Material	Total Volume (µL)	Vial Dimension (mm)	Profile	Mat material	Total Height (mm)	Pre-slit	Cat. No.	Pack of
Micro Titer Plate Vial for 96 Wells	Clear glass	500	6.5x31	taper	N/A	N/A	N/A	60180-V100	500
	Clear glass	700	6.5x41.4	taper	N/A	N/A	N/A	60180-V101	500
	PTFE	700	6.5x41.4	taper	N/A	N/A	N/A	60180-V103	100
	Clear glass	1100	7.45x38.5	round	N/A	N/A	N/A	60180-V104	500
Square/Deep Well Plate Crimp Top Vial for 96 Wells	Clear glass	1100	7.45x45	round	N/A	N/A	N/A	60180-V105	500
Deep Well Plate Vial for 96 Wells	Clear glass	1500	7.25x60.5	round	N/A	N/A	N/A	60180-V106	500
Square Well Plate Vial for 96 Wells	Clear glass	1000	7.6x45	constricted	N/A	N/A	N/A	60180-V107	960
96 Well WebSeal Mat (60180-K100, 101, 103)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	No	60180-M151	5
96 Well WebSeal Mat (60180-K100, 101, 103)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	Yes	60180-M152	5
96 Well WebSeal Mat (60180-K104, 106)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	No	60180-M153	5
96 Well WebSeal Mat (60180-K104, 106)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	Yes	60180-M154	5
96 Well WebSeal Mat, welled plugs (60180-K107)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	No	60180-M155	1
96 Well WebSeal Mat, welled plugs (60180-K108)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	Yes	60180-M156	1
96 Well WebSeal Mat, solid plugs for sample storage (60180-K109)	N/A	N/A	N/A	N/A	Silicone/PTFE	N/A	No	60180-M157	1
Plastic 96 Well Micro Titer Plate (60180-K100)	N/A	N/A	N/A	N/A	N/A	31	N/A	60180-P400	5
PP 96 Well Micro Titer Plate (60180-K101, K102, K103)	N/A	N/A	N/A	N/A	N/A	41.6	N/A	60180-P211	5
Plastic 96 Well Micro Titer Plate (60180-K104)	N/A	N/A	N/A	N/A	N/A	31.2	N/A	60180-P401	5
PP 96 Well Micro Titer Plate (60180-K105)	N/A	N/A	N/A	N/A	N/A	42.4	N/A	60180-P402	5
PP 96 Well Square Well Plate (60180-K107/108/109)	N/A	N/A	N/A	N/A	N/A	44.4	N/A	60180-P403	1

Thermo Scientific WebSeal Glass Inserted Plate Kits with Individual Closures

- 96 Position Block Systems with Glass Inserts are used when the pure PP Block is not inert enough
- Inserts manufactured from clear, Type 1 Class A or amber, Type 1 Class B borosilicate glass
- Inserts are sealed individually with a PE Cap Seal and can be easily removed and used externally without risk of losing sample
- The products can be obtained as individual components or as completely assembled, ready-to-use convenience blocks
- Assembled kits include 96 vials with pre-attached caps and septa
- Pre-assembled kits reduce the risk of vial contamination before use
- Snap Caps offer the same functionality as for screw or crimp caps: PTFE layered Silicone septa for excellent solvent stability
- Polyethylene caps are chemically inert and suitable for most chromatography applications



WebSeal Glass Inserted Plate Kits with Individual Closures

Kit Type	Vial Material	Total Volume (µL)	Vial Dimension (mm)	Profile	Septum	Vial Cat. No.	Cap Cat. No.	Kit Cat. No.	Pack of
96 Well Microplate	Clear glass	100	5.7x15.5	flat bottom	Silicone/PTFE, Pre-slit, 45°	60180-V108	60180-C100	60180-K200	1
96 Deep Well Plate	Clear glass	350	6x42.5	taper	Silicone/PTFE, Pre-slit, 45°	60180-V109	60180-C100	60180-K201	1
96 Square Well Plate	Clear glass	1000	7.6x45.9	round	Silicone/PTFE, 45°	60180-V110	60180-C102	60180-K202	1
	Clear glass	1000	7.6x45.9	round	Silicone/PTFE, Pre-slit, 45°	60180-V110	60180-C100	60180-K203	1
96 Micro-Tube-Rack-System	Clear glass	800	7.6x40	round	PE Plug	60180-V111	60180-C101	60180-K204	1



WebSeal Kit Accessories

Kit Type	Vial Material	Total Volume (µL)	Vial Dimension (mm)	Profile	Septum	Total Height (mm)	Cat. No.	Pack of
Micro Titer Plate Vial for 96 Wells	Clear glass	100	5.7x15.5	flat bottom	N/A	N/A	60180-V108	960
Deep Well Plate Vial for 96 Wells	Clear glass	350	6x42.5	taper	N/A	N/A	60180-V109	960
Square Well Vial for 96 Wells	Clear glass	1000	7.6x45.9	round	N/A	N/A	60180-V110	960
MTRS Vial for 96 Wells	Clear glass	800	7.6x40	round	N/A	N/A	60180-V111	960
PE Cap, red, center hole, for 96 Well Plate Inserts	N/A	N/A	N/A	N/A	Silicone/PTFE, Pre-slit, 45°	N/A	60180-C100	96
8mm PE Plug, blue, for 60180-K204	N/A	N/A	N/A	N/A	PE Plug	N/A	60180-C101	96
MT-Plate, PP, 96 Positions	N/A	N/A	N/A	N/A	N/A	14.6	60180-P404	10
DW-Block, PP, 96 Positions	N/A	N/A	N/A	N/A	N/A	41.6	60180-P405	10
SQW-Block, PP, 96 Positions	N/A	N/A	N/A	N/A	N/A	44.4	60180-P406	10
Micro-Tube-Rack-System, PP, 96 Positions	N/A	N/A	N/A	N/A	N/A		60180-P407	10

WebSeal Sample Concentrators

- Quicker dry down times than standard methods such as vacuum oven
- Designed for any SBS/ANSI 96 well plates
- Simple to install and operate
- Easy adjustments of temperature, gas flow rates and needle depth into the wells



WebSeal Sample Concentrators

Description	Cat. No.	Pack of
Mini Vap Sample Concentrator, Spiral Needle Design (110/240 Volt), evaporates 500µL Methanol in less than 10 minutes	60180-P990	1
Ultra Vap high speed Sample Concentrator, programmable, evaporates 500µL Methanol in less than 6 minutes	60180-P900	1
Replacement Spiral Needle Kit with fitting Tool	60180-P901	1

For more information, visit www.thermoscientific.com/webseal or talk with your account representative.

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India +91 22 6742 9494
+91 27 1766 2352
Japan +81 3 5826 1615
United Kingdom +44 (0) 1928 534 110
New Zealand 0800 933 966 (free call domestic)
Singapore +65 6289 1190
All Other Enquiries +44 (0) 1928 534 050

Technical Support

North America +1 800 332 3331
Outside North America +44 (0) 1928 534 440

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