



MiniBlock[®]

2010 Configuration Guide

DC13602026 iss10Jan2010 (Effective January 1, 2010)

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Overview

The MiniBlock product line is a multifunctional synthesis platform designed for:

- Solid Phase Synthesis
- Solution Phase Synthesis
- Peptide Synthesis
- Solid Phase Extraction (SPE)

All racks conform to microtiter plate size and shape, providing flexibility for collection, compatibility with dry down devices and ease of use. Using the microtiter plate footprint also keeps the overall system footprint small, making it automation friendly.

The unique valve body design allows the opening and closing of all vessels at the same time. Supporting parts and accessories allow the following functionalities:

- Reactions performed under Inert Atmosphere
- Robust Mixing via Orbital Shaking
- Solvent Dispensing
- Resin and Scavenger Resin Dispensing

MiniBlock reactors and supporting parts are also available in *Personal Sets* and *Synthesis Packages*, which result in cost savings. The Personal set is configured around 2 MiniBlocks. Synthesis Packages are configured around 6 MiniBlocks.



MiniBlock® Personal Sets

PART NO.	PERSONAL SETS																																			
	<p>Personal Sets: 48 or 24-Position (with Disposable Polypropylene Reaction Tubes)†</p> <p>Personal sets contain all components necessary for 96 or 48 parallel reactions. Two MiniBlocks configured for 48 or 24 positions each, heat transfer blocks, shaking and washing station, vacuum base for product collection and consumables, are all included and priced favorably over the same items ordered separately. MiniBlocks can be chosen as one of each color (red and blue) or both blocks the same color.</p> <p>Red/Blue combination is required for collection into a 96-position format.</p> <p>† Glass reaction tubes are also available. Please order all items separately. For glassware, see pages 16 and 17.</p> <p>Package Contents:</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Quantity</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>MiniBlock Synthesizers (Choose Format, Array and Volume Below)</td> </tr> <tr> <td>1</td> <td>Compact Shaking and Washing Station (Choose Voltage Below)</td> </tr> <tr> <td>2</td> <td>Heat Transfer Block *</td> </tr> <tr> <td>1</td> <td>Vacuum Collection Base</td> </tr> <tr> <td>2</td> <td>Tall Tube Extender</td> </tr> <tr> <td>1</td> <td>Recirculator Manifold * (2-Position)</td> </tr> <tr> <td>1</td> <td>Counter Weight for Shaking Solution</td> </tr> <tr> <td>1</td> <td>Air Push Assist Device</td> </tr> <tr> <td>1</td> <td>Small Consumables Kit: (Detailed Below)</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th style="text-align: left;"># of Packs</th> <th style="text-align: left;">Description</th> <th style="text-align: left;">Quantity</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Pinch Tube Inserts (50/Pkg)</td> <td>100</td> </tr> <tr> <td>2</td> <td>Multi Layer Septa (5/Pkg)</td> <td>10</td> </tr> <tr> <td>2</td> <td>Compression Cord (8/Pkg)</td> <td>16</td> </tr> <tr> <td>2</td> <td>Red Plugs (50/Pkg)</td> <td>100</td> </tr> </tbody> </table> <p>48-Position Includes: 8 packs Polypropylene Reaction Tubes, 4mL (50/Package)</p> <p>24-Position Includes: 8 packs Polypropylene Reaction Tubes, 10mL (25/Package)</p> <p><input checked="" type="checkbox"/> Please Choose One of the Following Personal Sets:</p> <p>115V</p> <p>13820013 <input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 1-Blue 1-Red 13820011 <input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 2-Blue 13820012 <input type="checkbox"/> Personal Set 48-Position, (4 mL) 115V: 2-Red</p> <p>13820048 <input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 1-Blue 1-Red 13820049 <input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 2-Blue 13200187 <input type="checkbox"/> Personal Set 24-Position, (10 mL) 115V: 2-Red</p> <p>230V</p> <p>13820095 <input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 1-Blue 1-Red 13820094 <input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 2-Blue 13820093 <input type="checkbox"/> Personal Set 48-Position, (4 mL) 230V: 2-Red</p> <p>13200194 <input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 1-Blue 1-Red 13200195 <input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 2-Blue 13820053 <input type="checkbox"/> Personal Set 24-Position, (10 mL) 230V: 2-Red</p> <p>▲ Collection racks and containers are sold separately.</p>	Quantity	Description	2	MiniBlock Synthesizers (Choose Format, Array and Volume Below)	1	Compact Shaking and Washing Station (Choose Voltage Below)	2	Heat Transfer Block *	1	Vacuum Collection Base	2	Tall Tube Extender	1	Recirculator Manifold * (2-Position)	1	Counter Weight for Shaking Solution	1	Air Push Assist Device	1	Small Consumables Kit: (Detailed Below)	# of Packs	Description	Quantity	2	Pinch Tube Inserts (50/Pkg)	100	2	Multi Layer Septa (5/Pkg)	10	2	Compression Cord (8/Pkg)	16	2	Red Plugs (50/Pkg)	100
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MiniBlock® Personal Sets






PART NO.	PERSONAL SETS																																					
	<p>Personal Sets: 12 or 6-Position (with Glass Reaction Tubes)</p> <p>Personal sets are designed to allow flexibility for reaction array and vessel volume. Two MiniBlocks configured for 12 or 6 positions, heat transfer blocks, shaking and washing station, vacuum base for product collection and consumables, are all included and priced favorably over the same items ordered separately. MiniBlocks can be chosen as one of each color (red and blue) or both blocks the same color.</p> <p>Package Contents:</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Quantity</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>MiniBlock Synthesizers (Choose Format, Array and Volume Below)</td> </tr> <tr> <td>1</td> <td>Compact Shaking and Washing Station (Choose Voltage Below)</td> </tr> <tr> <td>2</td> <td>Heat Transfer Block *</td> </tr> <tr> <td>1</td> <td>Vacuum Collection Base</td> </tr> <tr> <td>1</td> <td>Tall Tube Extender</td> </tr> <tr> <td>1</td> <td>Tall Tube Double Extender</td> </tr> <tr> <td>1</td> <td>Recirculator Manifold * (2-Position)</td> </tr> <tr> <td>1</td> <td>Counter Weight for Shaking Solution</td> </tr> <tr> <td>1</td> <td>Air Push Assist Device</td> </tr> <tr> <td>1</td> <td>Small Consumables Kit: (Detailed Below)</td> </tr> </tbody> </table> <table border="0" style="margin-top: 10px;"> <thead> <tr> <th style="text-align: left;"># of Packs</th> <th style="text-align: left;">Description</th> <th style="text-align: left;">Quantity</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Pinch Tube Inserts (50/Pkg)</td> <td>100</td> </tr> <tr> <td>2</td> <td>Multi Layer Septa (5/Pkg)</td> <td>10</td> </tr> <tr> <td>2</td> <td>Compression Cord (8/Pkg)</td> <td>16</td> </tr> <tr> <td>2</td> <td>Red Plugs (50/Pkg)</td> <td>100</td> </tr> </tbody> </table> <p>12-Position Includes: 2 packs of 20mL Glass Reaction Tubes (12/package)</p> <p>6-Position Includes: 2 packs of 40mL Glass Reaction Tubes (6/package)</p> <p><input checked="" type="checkbox"/> Please Choose One of the Following Personal Sets:</p> <p>115V</p> <p>13820086 <input type="checkbox"/> Personal Set 12-Position, (20 mL) 115V: 1-Blue 1-Red 13820084 <input type="checkbox"/> Personal Set 12-Position, (20 mL) 115V: 2-Blue 13820085 <input type="checkbox"/> Personal Set 12-Position, (20 mL) 115V: 2-Red</p> <p>13820092 <input type="checkbox"/> Personal Set 6-Position, (40 mL) 115V: 1-Blue 1-Red 13820090 <input type="checkbox"/> Personal Set 6-Position, (40 mL) 115V: 2-Blue 13820091 <input type="checkbox"/> Personal Set 6-Position, (40 mL) 115V: 2-Red</p> <p>230V</p> <p>13820083 <input type="checkbox"/> Personal Set 12-Position, (20 mL) 230V: 1-Blue 1-Red 13820082 <input type="checkbox"/> Personal Set 12-Position, (20 mL) 230V: 2-Blue 13820081 <input type="checkbox"/> Personal Set 12-Position, (20 mL) 230V: 2-Red</p> <p>13820089 <input type="checkbox"/> Personal Set 6-Position, (40 mL) 230V: 1-Blue 1-Red 13820088 <input type="checkbox"/> Personal Set 6-Position, (40 mL) 230V: 2-Blue 13820087 <input type="checkbox"/> Personal Set 6-Position, (40 mL) 230V: 2-Red</p> <p>▲ Collection racks and containers are sold separately.</p>	Quantity	Description	2	MiniBlock Synthesizers (Choose Format, Array and Volume Below)	1	Compact Shaking and Washing Station (Choose Voltage Below)	2	Heat Transfer Block *	1	Vacuum Collection Base	1	Tall Tube Extender	1	Tall Tube Double Extender	1	Recirculator Manifold * (2-Position)	1	Counter Weight for Shaking Solution	1	Air Push Assist Device	1	Small Consumables Kit: (Detailed Below)	# of Packs	Description	Quantity	2	Pinch Tube Inserts (50/Pkg)	100	2	Multi Layer Septa (5/Pkg)	10	2	Compression Cord (8/Pkg)	16	2	Red Plugs (50/Pkg)	100
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MiniBlock® Synthesis Packages

PART NO.	SYNTHESIS PACKAGES																																									
	<p>Synthesis Packages: 48 and 24-Position</p> <p>A high throughput synthesis package containing all components necessary for up to 288 parallel reactions. Six MiniBlocks configured for 48 or 24 positions each, heat transfer blocks, SPE adapter manifolds, shaking and washing station, vacuum base for product collection, and consumables are all included and priced favorably over the same items ordered separately. MiniBlocks can be chosen as 3 of each color, red and blue, or 6 of the same color.</p> <p>Package Contents</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Quantity</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr><td>6</td><td>MiniBlock Synthesizers (Choose Format, Array and Volume Below)</td></tr> <tr><td>1</td><td>High Capacity Shaking and Washing Station (Choose Voltage Below)</td></tr> <tr><td>2</td><td>Heat Transfer Block</td></tr> <tr><td>2</td><td>Inerting/Purging Manifolds</td></tr> <tr><td>2</td><td>Transfer Adapters (for SPE)</td></tr> <tr><td>1</td><td>6-Position Solvent Dispenser</td></tr> <tr><td>2</td><td>Vacuum Collection Base</td></tr> <tr><td>4</td><td>Tall Tube Extender</td></tr> <tr><td>1</td><td>Recirculator Manifold * (6-Position)</td></tr> <tr><td>4</td><td>Counter Weight for Shaking Station</td></tr> <tr><td>1</td><td>Air Push Assist Device</td></tr> <tr><td>1</td><td>Resin Dispenser (48 or 24-Position)</td></tr> <tr><td>1</td><td>Large Consumables Kit: (Detailed Below)</td></tr> </tbody> </table> <table border="0"> <thead> <tr> <th style="text-align: left;"># of Packs</th> <th style="text-align: left;">Description</th> <th style="text-align: left;">Quantity</th> </tr> </thead> <tbody> <tr><td>8</td><td>Pinch Tube Inserts (50/Pkg)</td><td>400</td></tr> <tr><td>6</td><td>Multi Layer Septa (5/Pkg)</td><td>30</td></tr> <tr><td>6</td><td>Compression Cord (8/Pkg)</td><td>48</td></tr> </tbody> </table> <p>48-Position Includes: 40 packs Polypropylene Reaction Tubes, 4mL (50/Pkg)</p> <p>24-Position Includes: 50 packs Polypropylene Reaction Tubes, 10mL (25/Pkg) 6 packs Red Plugs (50/Pkg)</p> <p><input type="checkbox"/> Please Choose One of the Following Synthesis Packages:</p> <p>115V</p> <p>13820123 <input type="checkbox"/> Synthesis Package 48-Position, (4mL) 115V: 3-Blue 3-Red</p> <p>13820124 <input type="checkbox"/> Synthesis Package 48-Position, (4mL) 115V: 6-Blue</p> <p>13820125 <input type="checkbox"/> Synthesis Package 48-Position, (4mL) 115V: 6-Red</p> <p>13820054 <input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 115V: 3-Blue 3-Red</p> <p>13820055 <input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 115V: 6-Blue</p> <p>13820056 <input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 115V: 6-Red</p> <p>230V</p> <p>13820126 <input type="checkbox"/> Synthesis Package 48-Position, (4mL) 230V: 3-Blue 3-Red</p> <p>13820127 <input type="checkbox"/> Synthesis Package 48-Position, (4mL) 230V: 6-Blue</p> <p>13820128 <input type="checkbox"/> Synthesis package 48-Position, (4mL) 230V: 6-Red</p> <p>13820057 <input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 230V: 3-Blue 3-Red</p> <p>13820058 <input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 230V: 6-Blue</p> <p>13820059 <input type="checkbox"/> Synthesis Package 24-Position, (10 mL) 230V: 6-Red</p> <p>▲ Collection racks and containers are sold separately.</p>	Quantity	Description	6	MiniBlock Synthesizers (Choose Format, Array and Volume Below)	1	High Capacity Shaking and Washing Station (Choose Voltage Below)	2	Heat Transfer Block	2	Inerting/Purging Manifolds	2	Transfer Adapters (for SPE)	1	6-Position Solvent Dispenser	2	Vacuum Collection Base	4	Tall Tube Extender	1	Recirculator Manifold * (6-Position)	4	Counter Weight for Shaking Station	1	Air Push Assist Device	1	Resin Dispenser (48 or 24-Position)	1	Large Consumables Kit: (Detailed Below)	# of Packs	Description	Quantity	8	Pinch Tube Inserts (50/Pkg)	400	6	Multi Layer Septa (5/Pkg)	30	6	Compression Cord (8/Pkg)	48	
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MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS	
<p>13742044 13742043</p> <p>13742200 13742201</p> <p>13742210 13742211</p> <p>13742220 13742221</p>	<p>MiniBlock Reactors Patented reactor with built-in valve design. Available in 48, 24, 12, and 6-position arrays. Reaction vessel volumes are 4mL, 10mL, 20mL and 40mL respectively (not included).</p> <p><input type="checkbox"/> MiniBlock Reactor Blue: 48-Position <input type="checkbox"/> MiniBlock Reactor Red: 48-Position</p> <p><input type="checkbox"/> MiniBlock Reactor Blue: 24-Position <input type="checkbox"/> MiniBlock Reactor Red: 24-Position</p> <p><input type="checkbox"/> MiniBlock Reactor Blue: 12-Position <input type="checkbox"/> MiniBlock Reactor Red: 12-Position</p> <p><input type="checkbox"/> MiniBlock Reactor Blue: 6-Position <input type="checkbox"/> MiniBlock Reactor Red: 6-Position</p>	
<p>13742005 13742059 13742060 13742061</p>	<p>Heat Transfer Blocks Heating/cooling block, allowing uniform cooling to -40 C, and heating to 120 C*, 1 C (at 80 C). Available in 48, 24, 12, and 6-position arrays. Includes quick-disconnect fittings. Also functions as Reflux Layer for MiniBlock XT Reactors</p> <p><input type="checkbox"/> Heat Transfer Block: 48-Position <input type="checkbox"/> Heat Transfer Block: 24-Position <input type="checkbox"/> Heat Transfer Block: 12-Position <input type="checkbox"/> Heat Transfer Block: 6-Position</p>	
<p>13742071 13742072</p> <p>13742004 13742047</p> <p>16005084</p>	<p>Compact Shaking and Washing Station High performance orbital shaker with integrated basins for wash and rinse capability. Customized and configured to provide vigorous vortex mixing for up to 2 MiniBlocks.</p> <p><input type="checkbox"/> Compact Shaking and Washing Station, 115V* <input type="checkbox"/> Compact Shaking and Washing Station, 230V*</p> <p>▲ * May require counter weight, (13742012) when used with fewer than 2 blocks.</p> <p>High Capacity Shaking and Washing Station High performance orbital shaker with integrated basins for wash and rinse capability. Customized and configured to provide vigorous vortex mixing for up to 6 MiniBlocks.</p> <p><input type="checkbox"/> High Capacity Shaking and Washing Station, 115V* <input type="checkbox"/> High capacity Shaking and Washing Station, 230V*</p> <p>▲ * May require counter weight, (13742012) when used with fewer than 6 blocks.</p> <p><input type="checkbox"/> Waste Flask Assembly Vacuum rated 2L flask with size 12 stopper and fitting; connects to shaking and washing station</p>	 
<p>13200240</p>	<p><input type="checkbox"/> Insulation Wrap for XT and MiniBlock</p>	

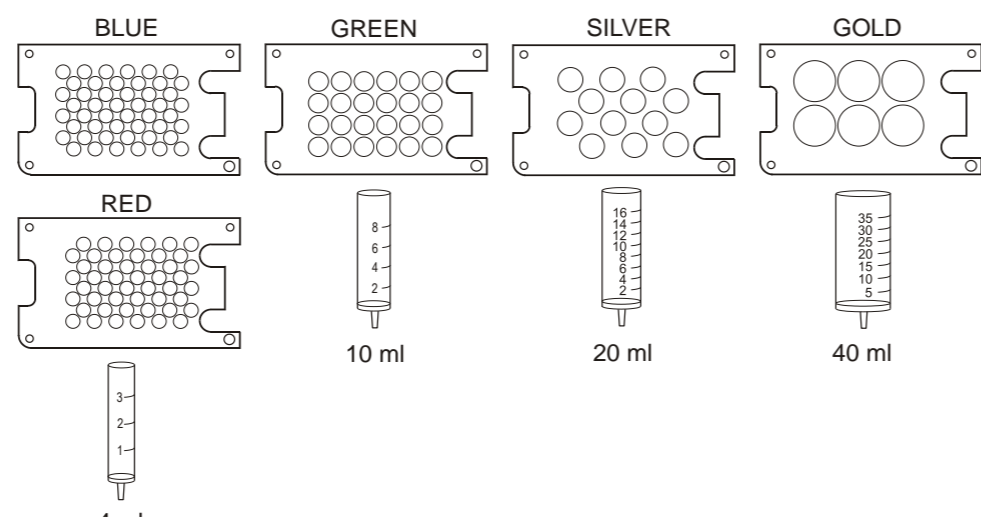

MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
<p>13742045 13742009 13742012</p>	<p>Recirculator Manifolds, 2 and 6-Position Allows easy connection of Heat Transfer Blocks to a recirculator. Mounted on the shaking station. Includes quick-disconnect tubes.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Recirculator Manifold (2-Position, Includes 4 Quick Disconnect Hoses) <input type="checkbox"/> Recirculator Manifold (6-Position, Includes 12 Quick Disconnect Hoses) <input type="checkbox"/> Counter Weight for Shaking Station Provides stability and reduced vibration. For use when a full set of MiniBlocks is not being 	
<p>13742008 13742010 13742067 13260351 13260307 13260515</p>	<p>Collection Devices and Accessories See pages 16 & 17 for collection racks and glassware.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Vacuum Collection Base For cleavage and collection of reaction products into microplate format racks under vacuum. Includes a white Deep Well Plate Spacer (13260307), a Black Rack Spacer (13260351) and a Collection Tube Height Gauge (13260515). <input type="checkbox"/> Tall Tube Extender: For collection vessels >50mm <input type="checkbox"/> Tall Tube Double Extender: For collection vessels >80mm <input type="checkbox"/> Rack Spacer, Black For collection into 48-position test-tube racks 13260399, 13260398, 13260484 and 13260485 (pages 16 & 17). <input type="checkbox"/> Deep Well Plate Spacer, White For Collection into Deep Well Plates and other racks (pages 16 & 17). <input type="checkbox"/> Collection Tube Height Gauge Qualifies the correct height relationship between the pinch tube and collection vessel. 	
<p>13742183 13742182</p>	<p>Inert/Purge Manifold Inert gas manifold can be operated in continuous purging or static pressure modes. Internal septum prevents evaporative loss and facilitates reagent addition or reaction sampling. Includes quick-disconnect gas fittings with shut off valve, allowing inert atmosphere to be maintained at all times. Automation friendly. Includes 1 (pk) of sealing layer and 1 (pk) of Inner/Piercing septa.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Inert/Purge Manifold: 48-Position (Blue) <input type="checkbox"/> Inert/Purge Manifold: 48-Position (Red) 	
<p>13200957 13200951 13200950</p>	<p>Purge/Evap Manifolds Provides superior performance for maintaining Inert Atmosphere while providing a cost effective option for evaporating solvents. Includes quick-disconnect gas fittings with shut off valve, allowing inert atmosphere to be maintained at all times. Automation friendly. Includes 1 (pk) of sealing layer and 1 (pk) of Inner/Piercing septa.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Purge/Evap Manifold: 6-Position <input type="checkbox"/> Purge/Evap Manifold: 12-Position <input type="checkbox"/> Purge/Evap Manifold: 24-Position 	
<p>16004228 16004229 16004230</p>	<p>Manifold Upgrade Inert/Purge to Purge Evap Manifold upgrade enables inert/purge manifolds to have blow down evaporation capability. Upgrades contain the evaporation plate and sealing gasket.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Upgrade to Purge/Evap Manifold: 6-Position <input type="checkbox"/> Upgrade to Purge/Evap Manifold: 12-Position <input type="checkbox"/> Upgrade to Purge/Evap Manifold: 24-Position 	

MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
<p>13742014 13742120 13742115 13742116</p>	<p>Air Push Assist Device Simple Device that helps drain reaction tubes by applying gentle air pressure.</p> <p><input type="checkbox"/> Air Push Assist Device: 48-Position <input type="checkbox"/> Air Push Assist Device: 24-Position <input type="checkbox"/> Air Push Assist Device: 12-Position <input type="checkbox"/> Air Push Assist Device: 6-Position</p> <p>Positive Pressure Manifolds Provides positive pressure to all reaction tubes to assist draining. Also used to push solvents from one MiniBlock to a second MiniBlock containing resins/sorbents.</p> <p><input type="checkbox"/> Positive Pressure Manifold Blue: 48-Position <input type="checkbox"/> Positive Pressure Manifold Red: 48-Position</p> <p><input type="checkbox"/> Positive Pressure Manifold Blue: 24-Position <input type="checkbox"/> Positive Pressure Manifold Red: 24-Position</p>	 
<p>13822001</p> <p>13742084</p> <p>13742086</p> <p>13200926 13200927</p>	<p><input type="checkbox"/> 48-Position Resin Dispenser Sliding plate dispensing device for rapid delivery of resins/powders to MiniBlocks. Description and parts:</p> <p>A. 1- Resin Dispenser Base, with Quick Release Pin B. 1- Microtiter / Deep Well Plate Adapter C. 1- Storage Case with Operating Instructions D. 1- Resin Spreader E. 1- Anti-Static Grounding Strap F. 1- Calibration Plate G. 1- Dispensing Plate - 10.0µL, approx. 5mg H. 1- Dispensing Plate - 20.0µL, approx. 10mg J. 1- Dispensing Plate - 40.0µL, approx. 20mg K. 1- Dispensing Plate - 100.0µL, approx. 50mg</p> <p><input type="checkbox"/> High Volume Plate Set: 48-Position L. 1- Dispensing Plate - 150.0µL, approx. 75mg M. 1- Dispensing Plate - 200.0µL, approx. 100mg N. 1- Dispensing Plate - 400.0µL, approx. 200mg</p> <p><input type="checkbox"/> 24-Position Resin Dispenser A. 1- Resin Dispenser Base, 24-Position with Quick Release Pin B. 1- Storage Case with Operating Instructions D. 1- Resin Spreader E. 1- Anti-Static Grounding Strap F. 1- Calibration Plate G. 1- Dispensing Plate - 10.0µL, approx. 5mg H. 1- Dispensing Plate - 20.0µL, approx. 10mg I. 1- Dispensing Plate - 50.0µL, approx. 20mg J. 1- Dispensing Plate - 100.0µL, approx. 50mg K. 1- Dispensing Plate - 200.0µL, approx. 100mg</p> <p>Adapters For Resin Dispensers</p> <ul style="list-style-type: none"> Allows Resin Dispenser to be used with Reflux Layer or Heat Transfer Block in Place. <p><input type="checkbox"/> Adapter For Resin Dispenser: 24-Position <input type="checkbox"/> Adapter For Resin Dispenser: 48-Position</p>	 

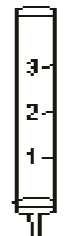

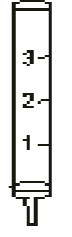



MiniBlock® Conversions and Upgrades

PART NO.	CONVERSIONS / UPGRADES	
	<p>Basic Conversion Kit for MiniBlock</p> <p>Includes two alignment plates, top plate, and red plugs for pinch tube inserts. Requires the applicable reaction vessels (polypropylene or glass). Reaction tubes NOT included.</p>  <p><input checked="" type="checkbox"/> Please Choose From the Following:</p> <p><input type="checkbox"/> Basic Conversion Kit: 48-Position Blue (no red plugs included)</p> <p><input type="checkbox"/> Basic Conversion Kit: 48-Position Red (no red plugs included)</p> <p><input type="checkbox"/> Basic Conversion Kit: 24-Position Red or Blue</p> <p><input type="checkbox"/> Basic Conversion Kit: 12-Position Red or Blue</p> <p><input type="checkbox"/> Basic Conversion Kit: 6-Position Red or Blue</p>	
<p>13820408</p> <p>13820409</p> <p>13820410</p> <p>13820430</p> <p>13820450</p>	<p>Full Conversion Kit for MiniBlock</p> <p>Includes heat transfer block, 2 alignment plates, top plate, and red plugs for pinch tube inserts. Package includes the applicable reaction vessels, polypropylene or glass.</p> <p>Full Conversion Kit:</p> <p><input type="checkbox"/> 48-Position Blue (Polypropylene reaction vessels, no red plugs included)</p> <p><input type="checkbox"/> 48-Position Red (Polypropylene reaction vessels, no red plugs included)</p> <p><input type="checkbox"/> 24-Position Red or Blue (Polypropylene reaction vessels)</p> <p><input type="checkbox"/> 12-Position Red or Blue (Glass reaction vessels)</p> <p><input type="checkbox"/> 6-Position Red or Blue (Glass reaction vessels)</p>	

MiniBlock® Consumables

PART NO.	CONSUMABLES																																																									
	<p>Small Consumable Kits</p> <p><input checked="" type="checkbox"/> Please Choose From the Following:</p> <table border="1"> <thead> <tr> <th></th> <th>Positions</th> <th>Reaction Tubes</th> <th>PFA Pinch Tube Inserts</th> <th>Multi-Layer Septa</th> <th>Red Plugs</th> <th>Compression Cords</th> </tr> </thead> <tbody> <tr> <td>13820104</td> <td><input type="checkbox"/> 48</td> <td>400 (polypro) 4.5mL</td> <td>100</td> <td>10</td> <td>N/A</td> <td>16</td> </tr> <tr> <td>13200060</td> <td><input type="checkbox"/> 24</td> <td>200 (polypro) 10mL</td> <td>100</td> <td>10</td> <td>100</td> <td>16</td> </tr> <tr> <td>13820004</td> <td><input type="checkbox"/> 12</td> <td>24 (glass) 20mL</td> <td>100</td> <td>10</td> <td>100</td> <td>16</td> </tr> <tr> <td>13820005</td> <td><input type="checkbox"/> 6</td> <td>12 (glass) 40mL</td> <td>100</td> <td>10</td> <td>100</td> <td>16</td> </tr> </tbody> </table> <p>Large Consumable Kits</p> <p><input checked="" type="checkbox"/> Please Choose From the Following:</p> <table border="1"> <thead> <tr> <th></th> <th>Positions</th> <th>Reaction Tubes</th> <th>PFA Pinch Tube Inserts</th> <th>Multi-Layer Septa</th> <th>Red Plugs</th> <th>Compression Cords</th> </tr> </thead> <tbody> <tr> <td>13820114</td> <td><input type="checkbox"/> 48</td> <td>2000 (polypro) 4.5mL</td> <td>400</td> <td>30</td> <td>N/A</td> <td>48</td> </tr> <tr> <td>13200061</td> <td><input type="checkbox"/> 24</td> <td>1250 (polypro) 10mL</td> <td>400</td> <td>30</td> <td>300</td> <td>48</td> </tr> </tbody> </table>		Positions	Reaction Tubes	PFA Pinch Tube Inserts	Multi-Layer Septa	Red Plugs	Compression Cords	13820104	<input type="checkbox"/> 48	400 (polypro) 4.5mL	100	10	N/A	16	13200060	<input type="checkbox"/> 24	200 (polypro) 10mL	100	10	100	16	13820004	<input type="checkbox"/> 12	24 (glass) 20mL	100	10	100	16	13820005	<input type="checkbox"/> 6	12 (glass) 40mL	100	10	100	16		Positions	Reaction Tubes	PFA Pinch Tube Inserts	Multi-Layer Septa	Red Plugs	Compression Cords	13820114	<input type="checkbox"/> 48	2000 (polypro) 4.5mL	400	30	N/A	48	13200061	<input type="checkbox"/> 24	1250 (polypro) 10mL	400	30	300	48	
	Positions	Reaction Tubes	PFA Pinch Tube Inserts	Multi-Layer Septa	Red Plugs	Compression Cords																																																				
13820104	<input type="checkbox"/> 48	400 (polypro) 4.5mL	100	10	N/A	16																																																				
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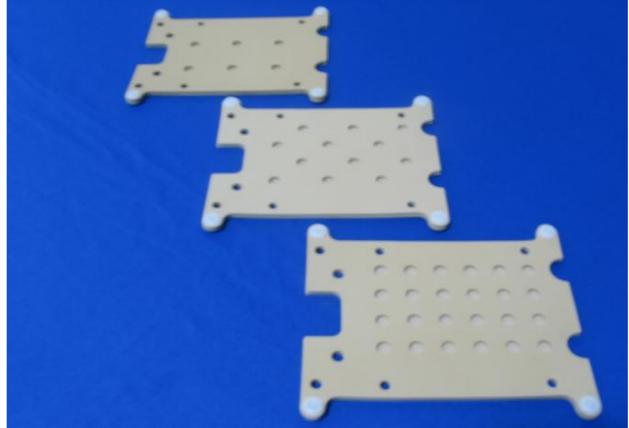
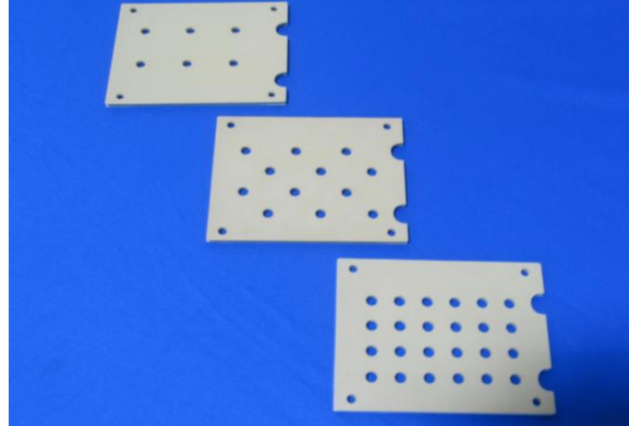
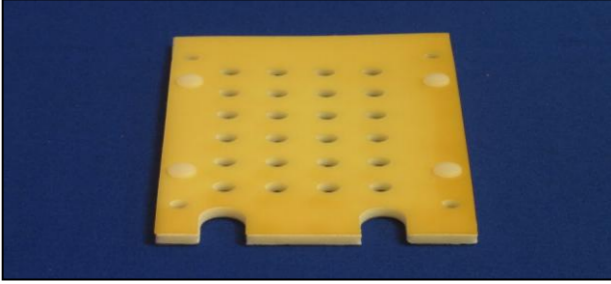
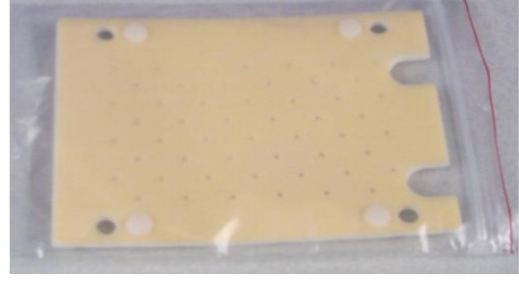
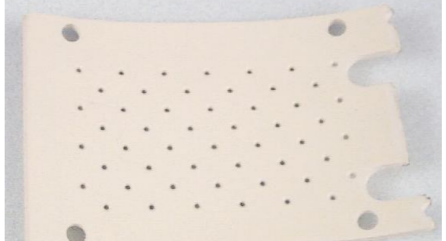
MiniBlock® Consumables

PART NO.	CONSUMABLES													
	Reaction Tubes and Related Parts													
	Disposable Reaction Tubes													
13521028	<input type="checkbox"/> 4.5mL Reaction Tubes, Polypropylene - pk of 50 Fritted 4.5 mL ultra-pure polypropylene reaction tubes for 48-position MiniBlock. Mean frit porosity: 25µm Quantity Discounts The following discounts apply to single orders (No other discounts apply) <table border="1"> <thead> <tr> <th>Packs</th> <th>Quantity</th> <th>% Discount</th> </tr> </thead> <tbody> <tr> <td>0-100</td> <td>0-5000</td> <td>0%</td> </tr> <tr> <td>101-500</td> <td>5001-25,000</td> <td>10%</td> </tr> <tr> <td>>501</td> <td>>25,000</td> <td>15%</td> </tr> </tbody> </table>	Packs	Quantity	% Discount	0-100	0-5000	0%	101-500	5001-25,000	10%	>501	>25,000	15%	 4.5 ml
Packs	Quantity	% Discount												
0-100	0-5000	0%												
101-500	5001-25,000	10%												
>501	>25,000	15%												
13521118	<input type="checkbox"/> 10.0 ML Reaction Tubes, Polypropylene - pk of 25 Fritted 10.0 mL high purity polypropylene reaction tubes for 24-position MiniBlock Mean porosity: 25µm Quantity discounts The following discounts apply to single orders (No other discounts apply) <table border="1"> <thead> <tr> <th>Packs</th> <th>Quantity</th> <th>% Discount</th> </tr> </thead> <tbody> <tr> <td>0-100</td> <td>0-2500</td> <td>0%</td> </tr> <tr> <td>101-500</td> <td>2525-12500</td> <td>10%</td> </tr> <tr> <td>>500</td> <td>>12525</td> <td>15%</td> </tr> </tbody> </table>	Packs	Quantity	% Discount	0-100	0-2500	0%	101-500	2525-12500	10%	>500	>12525	15%	 10 ml
Packs	Quantity	% Discount												
0-100	0-2500	0%												
101-500	2525-12500	10%												
>500	>12525	15%												
	Glass Reaction Tubes													
13521058	<input type="checkbox"/> 4mL Reaction Tubes, Glass - 50/pk Fritted 4 mL borosilicate glass reaction tubes for 48-position MiniBlock.	 4 ml												
13521062	<input type="checkbox"/> 10mL Reaction Tubes, Glass - 25/pk Fritted 10mL borosilicate glass reaction tubes for 24-position MiniBlock	 10 ml												
13521067	<input type="checkbox"/> 20mL Reaction Tubes, Glass - 12/pk Fritted 20mL borosilicate glass reaction tubes for 12-position MiniBlock.	 20 ml												
13521071	<input type="checkbox"/> 40mL Reaction Tubes, Glass - 6/pk Fritted 40mL borosilicate glass reaction tubes for 6-position MiniBlock.	 40 ml												

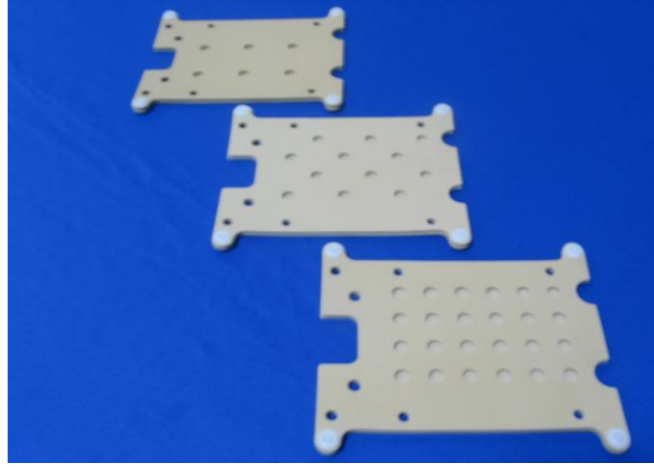
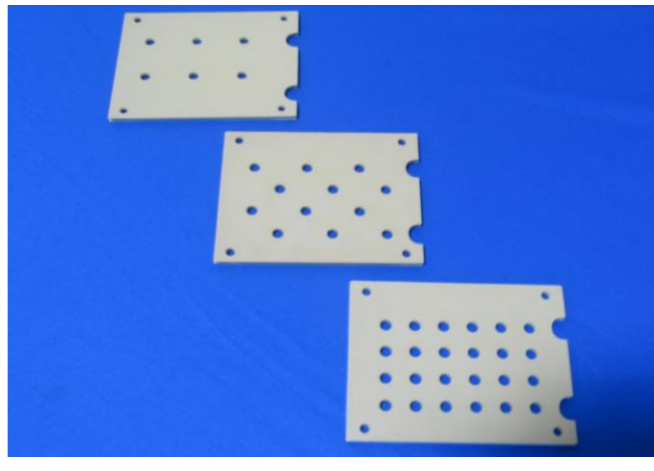
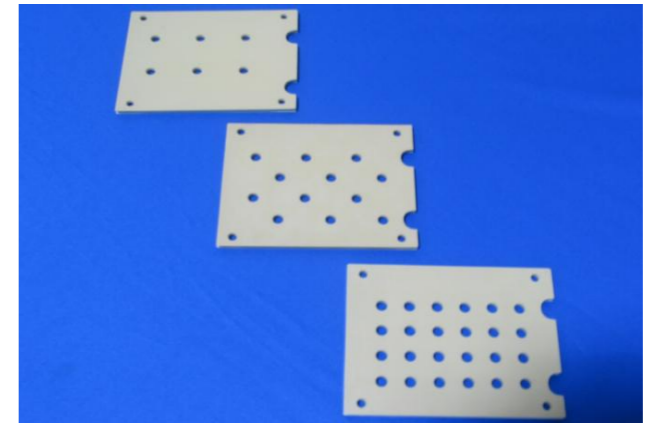

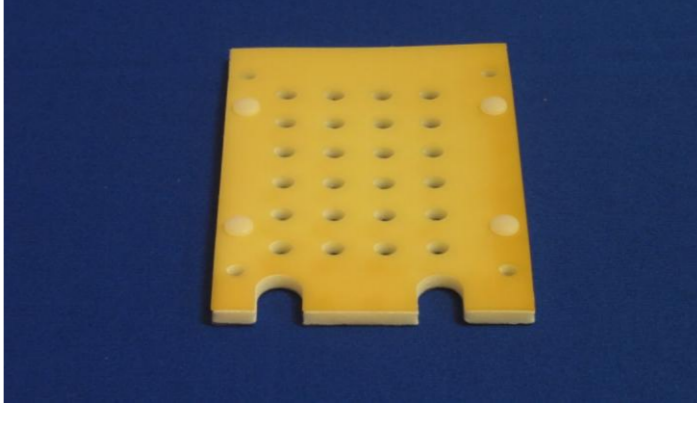
MiniBlock® Consumables

PART NO.	CONSUMABLES	
13260492	<p><input type="checkbox"/> PFA Teflon® Pinch-Tube Insert - 50/pk PFA Teflon® female luer fitting with Teflon® pinch-tube. Provides added chemical resistance (particularly to Toluene) and better tolerance to high temperatures* than polypropylene fittings.</p> <p>▲ For temperatures >80°C, other high temperature components must also be used. Contact a Mettler-Toledo AutoChem specialist for more information.</p>	
13742093	<p><input type="checkbox"/> Molded Compression Cord - 8/pk Improved material and larger diameter for better performance. Each MiniBlock contains 8 compression cords in the valve mechanism.</p>	
13260310	<p><input type="checkbox"/> Encapsulated Compression Cord - 8/pk PTFE coated cord for sealing pinch-tube inserts. Each MiniBlock contains 8 compression cords in the valve mechanism.</p>	
13520117	<p><input type="checkbox"/> Red Plug for Pinch-Tube Insert - 50/pk For sealing unused positions in MiniBlock base</p>	
13521079	<p><input type="checkbox"/> Replacement Frits for 4.5mL Reaction Tubes - 100/pk Medium porosity (20 µm) frits for 4.5mL polypropylene reaction tubes (13521028)</p>	
13100036	<p><input type="checkbox"/> Replacement frits for 10mL Reaction Tubes - 50/pk Medium porosity (20 µm) frits for 10.0mL polypropylene reaction tubes (13521118)</p>	
13820122	<p><input type="checkbox"/> Tool Kit 1 Valve Key, 1 Spare Hex-key, 1 Reaction Tube Removal Tool, 1 Pair Pliers</p>	



MiniBlock® Consumables

PART NO.	CONSUMABLES	
13820118	Septa for Top Plate <input type="checkbox"/> Multi-Layer Septum for Top Plate (-40°C to 80°C) - 5/pk Composite septa consisting of pure natural rubber (for easy piercing and re-sealing), expanded polyethylene (for minimizing solvent loss), and Teflon® layer (for chemical	
13742080	<input type="checkbox"/> High Temperature Silicone Multi-Layer Septa Newly developed composite septa consisting of pure natural rubber (for easy piercing and re-sealing), Teflon® layer (for chemical resistance), and silicone foam for use with elevated temperatures.	
13260381	<input type="checkbox"/> Rubber Septum with Teflon Liner for Top Plate - 5/pk Ultra-pure natural rubber, Teflon® laminated on the under side	
13260330	<input type="checkbox"/> Teflon® Liner for Septa for Top Plate - 5/pk For use with natural rubber septa	
Septa/Gaskets for Inert/Purge Manifolds		
<ul style="list-style-type: none"> • Disposable septa ensure reaction vessel sealing and facilitate ready manual or automated access • Purge Manifold requires both Inner/Piercing septa and Sealing Gasket 		
Inner/Piercing Septa Ultra pure Natural Rubber Septa for Inert/Purge Manifold		
13742152	<input type="checkbox"/> Inner/Piercing Septa: 6-Position (pk of 5)	
13742169	<input type="checkbox"/> Inner/Piercing Septa: 12-Position (pk of 5)	
13742170	<input type="checkbox"/> Inner/Piercing Septa: 24-Position (pk of 5)	
13200080	<input type="checkbox"/> Inner/Piercing Septa: 48-Position (pk of 5)	
Natural Rubber Sealing Gaskets Ultra-Pure Natural Rubber Used to firmly seal reaction vessels against the inert/purge manifold		
13742153	<input type="checkbox"/> Sealing Gasket: 6-Position (pk of 5)	
13742154	<input type="checkbox"/> Sealing Gasket: 12-Position (pk of 5)	
13742155	<input type="checkbox"/> Sealing Gasket: 24-Position (pk of 5)	
13200079	<input type="checkbox"/> Sealing Gasket: 48-position (pk of 5)	
Inert/Purge Manifold Multi-Layered Sealing Gaskets Composite septa consisting of pure natural rubber (for easy piercing and re-sealing), expanded polyethylene (for minimizing solvent loss), and Teflon® layer (for chemical resistance). Superior air exclusion to maintain inert atmosphere. Not for use with vacuum/purge cycle inerting.		
13742202	<input type="checkbox"/> Multi-Layered Sealing Gasket: 6-Position (pk of 5)	
13742203	<input type="checkbox"/> Multi-Layered Sealing Gasket: 12-Position (pk of 5)	
13742204	<input type="checkbox"/> Multi-Layered Sealing Gasket: 24-Position (pk of 5)	
13200081	<input type="checkbox"/> Multi-Layered Sealing Gasket: 48-Position (pk of 5)	
13742083	<input type="checkbox"/> Multi-Layer Septum for Inert Atmosphere Manifold (-40°C to 80°C) - 1 each Newly developed composite septa, punched for the manifold needles. Easy to pierce layers allow use on most liquid handlers. <i>Please Note: This Manifold has been replaced with the new inerting/ purging manifold</i>	
13260631	<input type="checkbox"/> Gasket for Inert Atmosphere Manifold - 1 each Improves the performance of original inert atmosphere manifolds (1374208/9, 13742130-4, 13742140) by sealing the inner chamber.	
13260397	<input type="checkbox"/> Sealing Gasket for Positive Pressure Manifold - 1 each Punched, ultra-pure natural rubber	

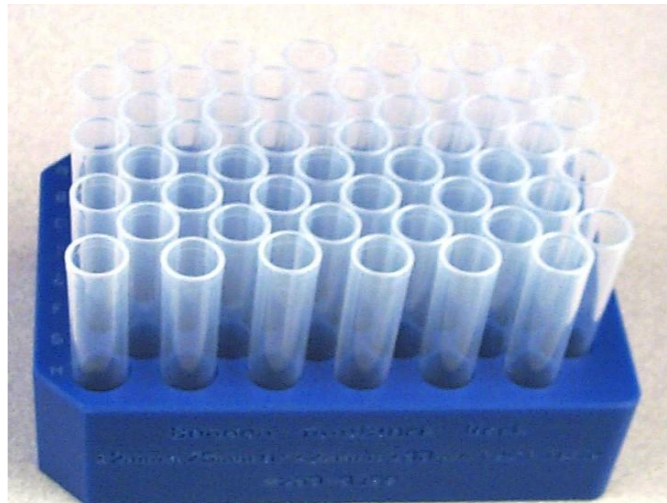

MiniBlock® Consumables

PART NO.	CONSUMABLES	
	<p>Septa/Gaskets for Purge/Evap Manifolds</p> <ul style="list-style-type: none"> • Disposable septa ensure reaction vessel sealing and facilitate ready manual or automated access • Purge/Evap Manifold requires both Inner/Piercing septa and Sealing Gasket • Available in Ultra Pure Natural Rubber and Hi-Temp Silicone <p>Inner/Piercing Septa Ultra-pure Natural Rubber Septa for Inert/Purge Manifold</p>	
13742152	<input type="checkbox"/> Inner/Piercing Septa, 6-Position (pk of 5)	
13742169	<input type="checkbox"/> Inner/Piercing Septa, 12-Position (pk of 5)	
13200995	<input type="checkbox"/> Inner/Piercing Septa, 24-Position (pk of 5)	
	<p>Sealing Gasket for Vessels 6, 12 and 24-position Ultra-pure Natural Rubber Gaskets Used to firmly seal reaction vessels against the inert/purge manifold</p>	
13200992	<input type="checkbox"/> Sealing Gasket, 6-Position (pk of 5)	
13200993	<input type="checkbox"/> Sealing Gasket, 12-Position (pk of 5)	
13200994	<input type="checkbox"/> Sealing Gasket, 24-Position (pk of 5)	
	<p>High Temperature Silicone Inner Piercing Septa New Septa consisting of Silicone. Easily pierced with cannulas and syringes. Works with Inert/Purge and purge/Evap Manifolds. For use with elevated reaction temperatures.</p>	
13200872	<input type="checkbox"/> High Temperature Septum Silicone: 6, 12 and 24-Position Manifolds	
	<p>High Temperature Silicone Sealing Gasket New gasket consisting of Silicone foam. Works with Inert/Purge and Purge/Evap Manifolds. Enables superior sealing and is designed for use with elevated reaction temperatures.</p>	
13200871	<input type="checkbox"/> High Temperature Silicone Sealing Gasket, 6-Position	
13200870	<input type="checkbox"/> High Temperature Silicone Sealing Gasket, 12-Position	
13200869	<input type="checkbox"/> High Temperature Silicone Sealing Gasket, 24-Position	
	<p>Multi-Layered Sealing Gaskets For Purge/Evap Manifold Advanced sealing layer for reaction vessels combines chemical resistance with superior air exclusion to maintain inert atmosphere. Recommended for solid phase MiniBlocks. Not for use with Vacuum/Gas fill cycle inerting.</p>	
13201040	<input type="checkbox"/> Multi-Layered Sealing Gasket, 6-Position (Pack of 5)	
13201041	<input type="checkbox"/> Multi-Layered Sealing Gasket, 12-Position (Pack of 5)	
13201042	<input type="checkbox"/> Multi-Layered Sealing Gasket, 24-Position (Pack of 5)	



MiniBlock® Collection Options

PART NO.	COLLECTION OPTIONS	
	<p>Polypropylene Plates / Minitubes</p>	 
13520111	<input type="checkbox"/> Rack of Tall Minitubes - 1 each 96 position microtiter plate array 2.5 mL volume, 9 mm D x 80 mm H.	
13520112	<input type="checkbox"/> Rack of Minitubes - 1 each 96 position microtiter plate array 1.3 mL volume, 9 mm D x 47 mm H.	
13520130	<input type="checkbox"/> Deep Well Plate, 2.4mL - 5/pk 96 position microtiter plate format.	
13520131	<input type="checkbox"/> Deep Well Plate, 5mL - 5/pk 48 position microtiter plate format.	
13520132	<input type="checkbox"/> Deep Well Plate, 10mL - 5/pk 24 position microtiter plate format.	

MiniBlock® Collection Options

PART NO.	COLLECTION OPTIONS	
	<p>48 Position Racks Accepts 12x75 and 12x100 mm test tubes. Maximum volumes are 6mL and 8mL. (Labware not included.)</p>	
13260399	<input type="checkbox"/> Blue, 48 Position: UHMW (polyethylene)	
13260398	<input type="checkbox"/> Red, 48 Position: UHMW (polyethylene)	
13260484	<input type="checkbox"/> Blue, 48 Position: Aluminum	
13260485	<input type="checkbox"/> Red, 48 Position: Aluminum	
	<p>24 Position Racks Accepts 15x45 and 15x82 mm vials. Maximum volumes are 3.7mL (1 dram), and 6mL. (Labware not included.)</p>	
13260444	<input type="checkbox"/> Blue, 24 Position: UHMW (polyethylene)	
13260443	<input type="checkbox"/> Red, 24 Position: UHMW (polyethylene)	
13260472	<input type="checkbox"/> Blue, 24 Position: Aluminum	
13260473	<input type="checkbox"/> Red, 24 Position: Aluminum	
	<p>24 Position Racks Accepts 17x61 and 17x112mm vials. Maximum volumes are 7.5mL (2 dram) and 14mL. (Labware not included.)</p>	
13260430	<input type="checkbox"/> Blue, 24 Position: UHMW (polyethylene)	
13260429	<input type="checkbox"/> Red, 24 Position: UHMW (polyethylene)	
13260474	<input type="checkbox"/> Blue, 24 Position: Aluminum	
13260475	<input type="checkbox"/> Red, 24 Position: Aluminum	
	<p>24 Position Racks Accepts 16x100 mm test tubes. Maximum volume is 15mL. (Labware not included.)</p>	
13260456	<input type="checkbox"/> Blue, 24 Position: UHMW (polyethylene)	
13260457	<input type="checkbox"/> Red, 24 Position: UHMW (polyethylene)	
13260486	<input type="checkbox"/> Blue, 24 Position: Aluminum	
13260487	<input type="checkbox"/> Red, 24 Position: Aluminum	

MiniBlock® Collection Options

PART NO.	COLLECTION OPTIONS	
<p>12 Position Racks Accepts 21x70 and 21x112 mm test tubes. Maximum volumes are 15mL and 23mL. (Labware not included.)</p> <p>13260432 <input type="checkbox"/> Blue, 12 Position: UHMW (polyethylene) 13260431 <input type="checkbox"/> Red, 12 Position: UHMW (polyethylene) 13260476 <input type="checkbox"/> Blue, 12 Position: Aluminum 13260477 <input type="checkbox"/> Red, 12 Position: Aluminum</p> <p>12 Position Racks Accepts 24x112 and 24x150 mm test tubes. Maximum volumes are 38mL, and 45mL. (Labware not included.)</p> <p>13260460 <input type="checkbox"/> Blue, 12 Position: UHMW (polyethylene) 13260461 <input type="checkbox"/> Red, 12 Position: UHMW (polyethylene) 13260478 <input type="checkbox"/> Blue, 12 Position: Aluminum 13260479 <input type="checkbox"/> Red, 12 Position: Aluminum</p>		
<p>6 Position Racks Accepts 28x95 and 28x140 mm scintillation vials. Maximum volumes are 40mL, and 60mL. (Labware not included.)</p> <p>13260440 <input type="checkbox"/> Blue, 6 Position: UHMW (polyethylene) 13260439 <input type="checkbox"/> Red, 6 Position: UHMW (polyethylene) 13260480 <input type="checkbox"/> Blue, 6 Position: Aluminum 13260481 <input type="checkbox"/> Red, 6 Position: Aluminum</p>		


MiniBlock® Collection Options

PART NO.	GLASSWARE FOR COLLECTION RACKS	
<p>Collection Vessels</p> <p>13520111 <input type="checkbox"/> Rack of Tall 2.5 mL Polypropylene MiniTubes 9 x 80 mm - 1 each 13521100 <input type="checkbox"/> Glass, 6mL Tube 12 x 75 mm - pk of 72 13521101 <input type="checkbox"/> Polypropylene, 6mL Test Tube 12 x 75 mm - pk of 250 13521103 <input type="checkbox"/> Glass, 3.7 mL (1-dram) Vial 15 x 45 mm - pk of 144 13521105 <input type="checkbox"/> Glass, 7.5mL (2-dram) Vial 17 x 61 mm - pk of 72 13521107 <input type="checkbox"/> Glass, 15mL Test Tube 16 x 100 mm - pk of 144 13521108 <input type="checkbox"/> Glass, 15mL (4-dram) Vial 21 x 70 mm - pk of 144</p>		

MiniBlock® User Manual

PART NO.	USER MANUAL	
13602001	<input type="checkbox"/> MiniBlock User Manual Hard Copy Version	

MiniBlock® SPE Accessories and Consumables

PART NO.	SPE ACCESSORIES AND CONSUMABLES	
<p>16004569 16004567 13520120</p>	<p>Transfer Adapters</p> <p>Allows the transfer of products from one MiniBlock to another. Does not fit over heat transfer block.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Blue Transfer Adapter <input type="checkbox"/> Red Transfer Adapter <input type="checkbox"/> Replacement Plate for Transfer Adapter 	
<p>13511218 13200354 13511221 13200353 13511224 13200352 13511227 13200351 13511230 13200350</p>	<p>SPE Cartridges</p> <p>Loose SPE cartridges available for use with same color MiniBlocks</p> <ul style="list-style-type: none"> <input type="checkbox"/> SCX (500mg) 4.5mL SPE Tubes, Exchange Capacity 0.6-0.9 mequiv/g (48/pk) <input type="checkbox"/> SCX (1000mg) 10.0mL SPE Tubes, Exchange Capacity 0.6-0.9 mequiv/g (24/pk) <input type="checkbox"/> Silica Gel (500mg) 4.5mL SPE Tubes (48/pk) <input type="checkbox"/> Silica Gel (1000mg) 10.0mL SPE Tubes (24/pk) <input type="checkbox"/> SAX (500mg) 4.5mL SPE Tubes, Exchange Capacity 0.7-0.9 mequiv/g (48/pk) <input type="checkbox"/> SAX (1000mg) 10.0mL SPE Tubes, Exchange Capacity 0.7-0.9 mequiv/g (24/pk) <input type="checkbox"/> C18 (500mg) 4.5mL SPE Tubes, Carbon Content 17-19% (48/pk) <input type="checkbox"/> C18 (1000mg) 10.0mL SPE Tubes, Carbon Content 17-19% (24/pk) <input type="checkbox"/> Diatomaceous Earth (500 mg) 4.5mL SPE Tubes (48/pk) <input type="checkbox"/> Diatomaceous Earth (1000 mg) 10.0mL SPE Tubes (24/pk) 	

Service and Warranties

Ordering Information:

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Mettler-Toledo AutoChem, Inc.
7085 Samuel Morse Drive
Columbia, MD 21046

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All prices are ExWorks, Newark, DE. Prices and specifications are subject to change without notice. Prices do not include shipping, handling, taxes and duties. Payment terms are 100% upon delivery. METTLER TOLEDO AutoChem's Standard Terms, Conditions, Warranty and Maintenance Agreement Options are available upon request and cover all sales.

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Please allow 4 weeks from Mettler-Toledo AutoChem's receipt of Purchase Order.