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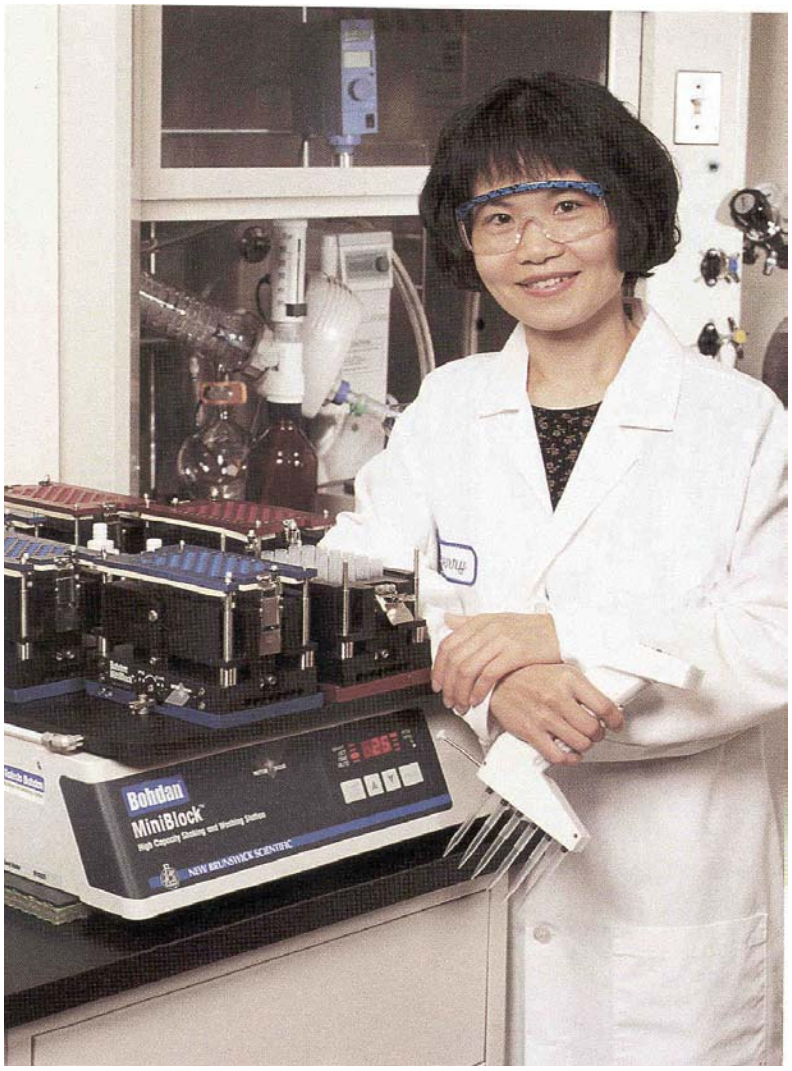
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MiniBlock®

Parts List

DC13602026 iss2 Jan 2003 (Effective January 1, 2003)



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TABLE OF CONTENTS

Page

Overview……2

MiniBlock Personal Sets……3

MiniBlock Synthesis Packages……5

Individual Items……6
- MiniBlock Reactors
- Heat Transfer Blocks
- Shaking and Incubation
- Collection Devices and Accessories
- Inert Atmosphere Manifolds
- Air Push Assist Devices
- Positive Pressure Manifolds
- Resin Dispensers
- Transfer Adapters
- Solvent/Reagent Addition
- Solvent Dispensers
- Dispensing Manifolds
- Basic Conversion Kit for MiniBlock
- Full Conversion Kit for MiniBlock

.

Consumables……10
- Small Consumable Kits
- Large Consumable Kits
- Reaction Tubes and Related Parts
- Septum Layers
- Polypropylene Plates/Minitubes
- Racks
- Glassware for Collection Racks

SPE Consumables……16

Procurement……17
- Service and Warranties
- Ordering Information
- Terms
- Delivery

Overview

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

- Solid Phase Synthesis
- Solution Phase Synthesis
- IRORI Kan Cleavage
- 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.

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MiniBlock® Personal Sets

PART NO.	PERSONAL SETS

Personal Set: 48 or 24-Position
(with Disposable Polypropylene Reaction Tubes)†



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.

Red/Blue combination is required for collection into a 96-position format.

† Glass reaction tubes are also available. Please order all items separately.
For glassware, see pages 10 and 11.

Package Contents:

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	6 Position Solvent Dispenser
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

48-Position Includes: 8 packs Polypropylene Reaction Tubes, 4mL (50/Package)

24-Position Includes: 8 packs Polypropylene Reaction Tubes, 10mL (25/Package)

☑ Please Choose One of the Following Personal Sets:

115V

13820013	☐ **Personal Set 48-Position, (4 mL) 115V: 1-Blue 1-Red**
13820011	☐ **Personal Set 48-Position, (4 mL) 115V: 2-Blue**
13820012	☐ **Personal Set 48-Position, (4 mL) 115V: 2-Red**
13820048	☐ **Personal Set 24-Position, (10 mL) 115V: 1-Blue 1-Red**
13820049	☐ **Personal Set 24-Position, (10 mL) 115V: 2-Blue**
13200187	☐ **Personal Set 24-Position, (10 mL) 115V: 2-Red**

230V

13820095	☐ **Personal Set 48-Position, (4 mL) 230V: 1-Blue 1-Red**
13820094	☐ **Personal Set 48-Position, (4 mL) 230V: 2-Blue**
13820093	☐ **Personal Set 48-Position, (4 mL) 230V: 2-Red**
13200194	☐ **Personal Set 24-Position, (10 mL) 230V: 1-Blue 1-Red**
13200195	☐ **Personal Set 24-Position, (10 mL) 230V: 2-Blue**
13820053	☐ **Personal Set 24-Position, (10 mL) 230V: 2-Red**

△ **Collection racks and containers are sold separately.**

△ *** For temperatures >80ºC, high temperature components must be used. Contact an AutoChem product specialist for more information.**

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MiniBlock® Personal Sets

PART NO.	PERSONAL SETS

Personal Sets: 12 or 6-Position
(with Glass Reaction Tubes)



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.

Package Contents:

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

12-Position Includes: 2 packs of 20mL Glass Reaction Tubes (12/package)

6-Position Includes: 2 packs of 40mL Glass Reaction Tubes (6/package)

☑ **Please Choose One of the Following Personal Sets:**

110V

13820086	☐ **Personal Set 12-Position, (20 mL) 110V: 1-Blue 1-Red**
13820084	☐ **Personal Set 12-Position, (20 mL) 110V: 2-Blue**
13820085	☐ **Personal Set 12-Position, (20 mL) 110V: 2-Red**
13820092	☐ **Personal Set 6-Position, (40 mL) 110V: 1-Blue 1-Red**
13820090	☐ **Personal Set 6-Position, (40 mL) 110V: 2-Blue**
13820091	☐ **Personal Set 6-Position, (40 mL) 110V: 2-Red**

220V

13820083	☐ **Personal Set 12-Position, (20 mL) 220V: 1-Blue 1-Red**
13820082	☐ **Personal Set 12-Position, (20 mL) 220V: 2-Blue**
13820081	☐ **Personal Set 12-Position, (20 mL) 220V: 2-Red**
13820089	☐ **Personal Set 6-Position, (40 mL) 220V: 1-Blue 1-Red**
13820088	☐ **Personal Set 6-Position, (40 mL) 220V: 2-Blue**
13820087	☐ **Personal Set 6-Position, (40 mL) 220V: 2-Red**

△ **Collection racks and containers are sold separately.**

△ *** For temperatures >80ºC, high temperature components must be used. Contact an AutoChem product specialist for more information.**

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MiniBlock® Synthesis Packages

PART NO.	SYNTHESIS PACKAGES	

Synthesis Package: 48 and 24-Position

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.



Package Contents

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	Inert Atmosphere or Inerting/Purging Manifolds†
2	SPE Manifolds
1	6-Position Solvent Dispenser
2	Vacuum Collection Base
4	Tall Tube Extender
1	Recirculator Manifold * (6-Position)
4	Counter Weight for Shaking Solution
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

48-Position Includes: 40 packs Polypropylene Reaction Tubes, 4mL (50/Pkg)

24-Position Includes: 50 packs Polypropylene Reaction Tubes, 10mL (25/Pkg)
6 packs Red Plugs (50/Pkg)

† 48-Position Inert Atmosphere Manifolds will be replaced with 48-Position Inerting / Purging Manifolds in Q2, 2003.

☐ **Please Choose One of the Following Synthesis Packages:**

110V

13820123	☐ **Synthesis Package 48-Position 110V: 3-Blue 3-Red**
13820124	☐ **Synthesis Package 48-Position 110V: 6-Blue**
13820125	☐ **Synthesis Package 48-Position 110V: 6-Red**
13820054	☐ **Synthesis Package 24-Position, (10 mL) 110V: 3-Blue 3-Red**
13820055	☐ **Synthesis Package 24-Position, (10 mL) 110V: 6-Blue**
13820056	☐ **Synthesis Package 24-Position, (10 mL) 110V: 6-Red**

220V

13820126	☐ **Synthesis Package 48-Position 220V: 3-Blue 3-Red**
13820127	☐ **Synthesis Package 48-Position 220V: 6-Blue**
13820128	☐ **Synthesis package 48-Position 220V: 6-Red**
13820057	☐ **Synthesis Package 24-Position, (10 mL) 220V: 3-Blue 3-Red**
13820058	☐ **Synthesis Package 24-Position, (10 mL) 220V: 6-Blue**
13820059	☐ **Synthesis Package 24-Position, (10 mL) 220V: 6-Red**

△ **Collection racks and containers are sold separately.**

△ *** For temperatures >80ºC, high temperature components must be used. Contact a Mettler-Toledo product specialist for more information.**

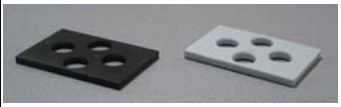
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MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS	
	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).	
13742044	☐ **MiniBlock Reactor Blue: 48-Position**	
13742043	☐ **MiniBlock Reactor Red: 48-Position**	
13742200	☐ **MiniBlock Reactor Blue: 24-Position**	
13742201	☐ **MiniBlock Reactor Red: 24-Position**	
13742210	☐ **MiniBlock Reactor Blue: 12-Position**	
13742211	☐ **MiniBlock Reactor Red: 12-Position**	
13742220	☐ **MiniBlock Reactor Blue: 6-Position**	
13742221	☐ **MiniBlock Reactor Red: 6-Position**	
	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 XT Reactors	
13742005	☐ **Heat Transfer Block: 48-Position**	
13742059	☐ **Heat Transfer Block: 24-Position**	
13742060	☐ **Heat Transfer Block: 12-Position**	
13742061	☐ **Heat Transfer Block: 6-Position**	
	⚠ *** For temperatures >80ºC, high temperature components must be used. Contact an AutoChem product specialist for more information.**	
	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.	
13742071	☐ **Compact Shaking and Washing Station, 110V***	
13742072	☐ **Compact Shaking and Washing Station, 220V***	
	⚠ *** May require counter weight, (13742012) when used with fewer than 2 blocks.**	
	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.	
13742004	☐ **High Capacity Shaking and Washing Station, 110V***	
13742047	☐ **High capacity Shaking and Washing Station, 220V***	
	⚠ *** May require counter weight, (13742012) when used with fewer than 6 blocks.**	
	MiniBlock Magnetic Stirrer Very powerful 2 position magnetic stirrer can simultaneously stir all vessels in 2 MiniBlocks. Effective for 48 position MiniBlocks and all other formats. Precision ramping and control facilitates magnetic coupling and ensures excellent agitation. Stirrer deck has twin wash basins for vacuum solvent washing.	
	⚠ **Contact a Mettler-Toledo AutoChem specialist for stir bar recommendations.**	
13742094	☐ **Stand-alone 2-Position Magnetic Stirrer**	
13742095	☐ **Workstation 2-Position Magnetic Stirrer** For use with automation units. Price does not include engineering and design, such as modifications to workstations. Please contact a Mettler-Toledo AutoChem specialist for more information.	

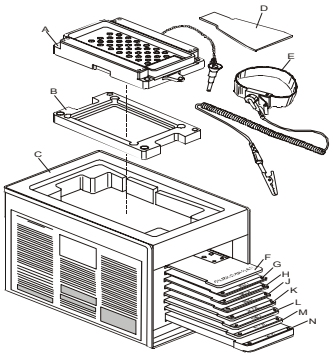
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MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
	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.	
13742045	☐ **Recirculator Manifold** (2-Position, Includes 4 Quick Disconnect Hoses	
13742009	☐ **Recirculator Manifold** (6-Position, Includes 12 Quick Disconnect Hoses	
13742012	☐ **Counter Weight for Shaking Station** Provides stability and reduced vibration. For use when a full set of MiniBlocks is not being used on the shaking station.	
	Julabo Temperature Controlled Recirculator Customized recirculator for providing rapid heating & cooling. Requires approximately 15 liters of the appropriate recirculating fluid. Purchase of the Standard Recirculator Hosing/Insulation is recommended.	
13820115	☐ **Julabo Temperature Controlled Recirculator 220 V, 50 Hz**	
13820116	☐ **Julabo Temperature Controlled Recirculator 220 V, 60 Hz**	
13100020	☐ **Standard Recirculator Hosing / Insulation** (-20ºC to +100ºC)	
13511147	☐ **5 Liters Recirculating Fluid, Silicone Based** (-20ºC to +150ºC)	
	Collection Devices and Accessories See pages 14 & 15 for collection racks and glassware.	
13742008	☐ **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).	
13742010	☐ **Tall Tube Extender: For collection vessels >50mm**	
13742067	☐ **Tall Tube Double Extender: For collection vessels >80mm**	
13260351	☐ **Rack Spacer, Black** For collection into 48-position test-tube racks 13260399, 13260398, 13260484 and 13260485 (pages 14 & 15).	
13260307	☐ **Deep Well Plate Spacer, White** For Collection into Deep Well Plates and other racks (pages 14 & 15).	
13260515	☐ **Collection Tube Height Gauge** Qualifies the correct height relationship between the pinch tube and collection vessel.	
	Inerting/Purging 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.	
13742099	☐ **Inerting/Purging Manifold: 6-Position**	
13742098	☐ **Inerting/Purging Manifold: 12-Position**	
13742097	☐ **Inerting/Purging Manifold: 24-Position**	
13742183	☐ **Inerting/Purging Manifold: 48-Position (Blue)***	
13742182	☐ **Inerting/Purging Manifold: 48-Position (Red)***	
	*** 48-Position Inert Atmosphere Manifolds will be replaced with 48-Position Inerting / Purging Manifolds in Q2, 2003.**	

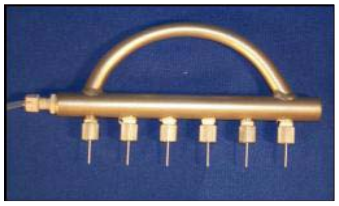
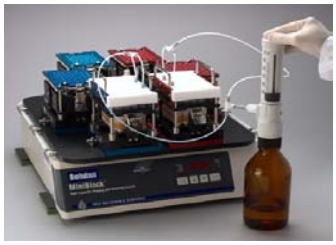
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MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
	Inert Atmosphere Manifolds Provides inert atmosphere during reagent addition and reaction set-up for air and moisture sensitive reactions. Each Reaction Tube can be continuously purged with nitrogen or argon. Designed to allow reagent addition by septum piercing. Also used to push reaction products from one MiniBlock to a second MiniBlock containing SPE tubes.	
13742048	☐ **Inert Atmosphere Manifold Blue: 48-Position**	
13742049	☐ **Inert Atmosphere Manifold Red: 48-Position**	
	Air Push Assist Device Simple Device that helps drain reaction tubes by applying gentle air pressure	
13742014	☐ **Air Push Assist Device: 48-Position**	
13742120	☐ **Air Push Assist Device: 24-Position**	
13742115	☐ **Air Push Assist Device: 12-Position**	
13742116	☐ **Air Push Assist Device: 6-Position**	
	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.	
13742018	☐ **Positive Pressure Manifold Blue: 48-Position**	
13742019	☐ **Positive Pressure Manifold Red: 48-Position**	
13742109	☐ **Positive Pressure Manifold Blue: 24-Position**	
13742110	☐ **Positive Pressure Manifold Red: 24-Position**	
13822001	☐ **48-Position Resin Dispenser** Sliding plate dispensing device for rapid delivery of resins/powders to MiniBlocks. Description and parts: 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	
13742084	☐ **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	
13742086	☐ **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	

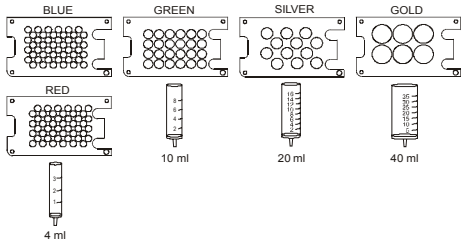
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MiniBlock® Individual Items

PART NO.	INDIVIDUAL ITEMS, continued	
	Transfer Adapters Allows the transfer of products from one MiniBlock to another. Does not fit over heat transfer block. Also see SPE Consumables (Page 16).	
13742053	☐ **Blue Transfer Adapter**	
13742023	☐ **Red Transfer Adapter**	
13520120	☐ **Replacement Plate for Transfer Adapter**	
13742195	☐ **6-Position Solvent Dispenser** • Precision solvent dispenser for 48 or 24 position MiniBlocks. • Distributes difficult solvents (e.g. cleavage solutions) evenly to 6 reaction vessels simultaneously. • Stainless steel and Teflon construction. • Adapts to Brinkmann Bottletop dispenser. • Uses female 1/4" - 28 adapter (included).	
13520122	☐ **Brinkmann Bottletop Dispenser - 50 ml** • Accurately dispenses adjustable volumes (10 to 50 ml) of liquid using single hand-pumping motion. • Chemically resistant fluid contact surfaces • 28, 33 and 38 mm bottle adapters (included)	
	Precision Solvent / Reagent Addition Precision 6-Channel pipetter, 15-1250µL per channel. Customized for MiniBlock Spacing. Supplied with a rack of 1250µL pipette tips, 10 solvent reservoirs and a stand. ⚠ **Not suitable for all solvents. Please contact a Mettler-Toledo AutoChem specialist.**	
13545001	☐ **Multi-Channel Electronic Pipetter, 110V**	
13545002	☐ **Multi-Channel Electronic Pipetter, 220V**	
	Solvent Dispensers Rapidly dispense liquids into MiniBlocks via 2 precision manifolds. Includes two 48-position manifolds, 50mL bottle-top dispenser, portable stand, priming trays and tubing. Available as 48-Position only	
13742056	☐ **Solvent Dispenser 48-Channel, 1-Red 1-Blue**	
13742157	☐ **Solvent Dispenser 48-Channel, 2-Red**	
13742156	☐ **Solvent Dispenser 48-Channel, 2-Blue**	
	Solvent Dispensing Manifolds Same manifolds as described above sold separately.	
13742062	☐ **Solvent Dispenser 48-Channel, Blue**	
13742063	☐ **Solvent Dispenser 48-Channel, Red**	

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MiniBlock® Conversions and Upgrades

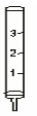
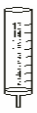
PART NO.	CONVERSIONS / UPGRADES	
	Basic Conversion Kit for MiniBlock Includes two alignment plates, top plate, and red plugs for pinch tube inserts. Requires the applicable reaction vessels (polypropylene or glass). Reaction tubes NOT included.	
		
	☑ **Please Choose From the Following:**	
13820408	☐ **Basic Conversion Kit: 48-Position Blue** (no red plugs included)	
13820409	☐ **Basic Conversion Kit: 48-Position Red** (no red plugs included)	
13820410	☐ **Basic Conversion Kit: 24-Position Red or Blue**	
13820430	☐ **Basic Conversion Kit: 12-Position Red or Blue**	
13820450	☐ **Basic Conversion Kit: 6-Position Red or Blue**	
	Full Conversion Kit for MiniBlock 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.	
	Full Conversion Kit:	
13820488	☐ **48-Position Blue** (Polypropylene reaction vessels, no red plugs included)	
13820489	☐ **48-Position Red** (Polypropylene reaction vessels, no red plugs included)	
13200062	☐ **24-Position Red or Blue** (Polypropylene reaction vessels)	
13820490	☐ **12-Position Red or Blue** (Glass reaction vessels)	
13820510	☐ **6-Position Red or Blue** (Glass reaction vessels)	

MiniBlock® Consumables

PART NO.	CONSUMABLES						
	Small Consumable Kits ☑ **Please Choose From the Following:**						
		Positions	**Reaction Tubes**	**PFA Pinch Tube Inserts**	**Multi-Layer Septa**	**Red Plugs**	**Compression Cords**
13820104	☐	48	400 (polypro) 4.5mL	100	10	N/A	16
13200060	☐	24	200 (polypro) 10mL	100	10	100	16
13820004	☐	12	24 (glass) 20mL	100	10	100	16
13820005	☐	6	12 (glass) 40mL	100	10	100	16
	Large Consumable Kits ☑ **Please Choose From the Following:**						
		Positions	**Reaction Tubes**	**PFA Pinch Tube Inserts**	**Multi-Layer Septa**	**Red Plugs**	**Compression Cords**
13820114	☐	48	2000 (polypro) 4.5mL	400	30	N/A	48
13200061	☐	24	1250 (polypro) 10mL	400	30	300	48

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MiniBlock® Consumables

PART NO.	CONSUMABLES	
	Reaction Tubes and Related Parts	
	Disposable Reaction Tubes	
13521028	☐ **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)** **Packs** 0-100, 101-500, >501 — **Quantity** 0-5000, 5001-25,000, >25,000 — **% Discount** 0%, 10%, 15%	 4.5 ml
13521118	☐ **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)** **Packs** 0-100, 101-500, >500 — **Quantity** 0-2500, 2525-12500, >12525 — **% Discount** 0%, 10%, 15%	 10 ml
	Glass Reaction Tubes	
13521058	☐ **4mL Reaction Tubes, Glass - 50/pk** Fritted 4 mL borosilicate glass reaction tubes for 48-position MiniBlock.	 4 ml
13521062	☐ **10mL Reaction Tubes, Glass - 25/pk** Fritted 10mL borosilicate glass reaction tubes for 24-position MiniBlock	 10 ml
13521067	☐ **20mL Reaction Tubes, Glass - 12/pk** Fritted 20mL borosilicate glass reaction tubes for 12-position MiniBlock.	 20 ml
13521071	☐ **40mL Reaction Tubes, Glass - 6/pk** Fritted 40mL borosilicate glass reaction tubes for 6-position MiniBlock.	 40 ml

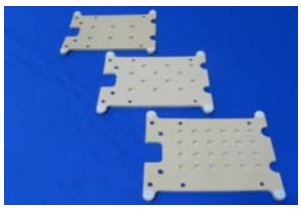
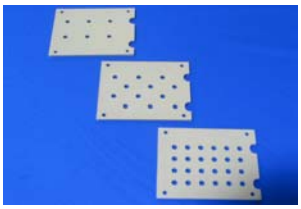
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MiniBlock® Consumables

PART NO.	CONSUMABLES	
13260492	☐ **PFA Teflon® Pinch-Tube Insert - 50/pk** Newly developed 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. ⚠ *** For temperatures >80ºC, other high temperature components must also be used. Contact a Metter-Toledo AutoChem specialist for more information.**	
13742093	☐ **Molded Compression Cord - 8/pk** Improved material and larger diameter for better performance. Each MiniBlock contains 8 compression cords in the valve mechanism.	
13260310	☐ **Encapsulated Compression Cord - 8/pk** PTFE coated cord for sealing pinch-tube inserts. Each MiniBlock contains 8 compression cords in the valve mechanism.	
13520117	☐ **Red Plug for Pinch-Tube Insert - 50/pk** For sealing unused positions in MiniBlock base	
13521079	☐ **Replacement Frits for 4.5mL Reaction Tubes - 100/pk** Medium porosity (20 µm) frits for 4.5mL polypropylene reaction tubes (13521028)	
13820122	☐ **Tool Kit** 1 Valve Key, 1 Spare Hex-key, 1 Reaction Tube Removal Tool, 1 Pair Pliers	

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MiniBlock® Consumables

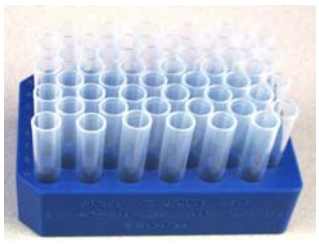
PART NO.	CONSUMABLES	
	Septa for Top Plate	
13820118	☐ **Multi-Layer Septum for Top Plate (-40ºC to 80ºC) - 5/pk** Newly developed composite septa consisting of pure natural rubber (for easy piercing and re-sealing), expanded polyethylene (for minimizing solvent loss), and Teflon® layer (for chemical resistance). Includes loading mat and instructions.	
13260381	☐ **Laminated Rubber Septum for Top Plate - 5/pk** Ultra-pure natural rubber, Teflon® laminated on the under side	
13260303	☐ **Rubber Septum for Top Plate - 5/pk** Ultra Pure Rubber	
13260330	☐ **Teflon® Liner for Septa for Top Plate - 5/pk** For use with natural rubber septa	
	Septa/Gaskets for Inerting /Purging Manifolds • Disposable septa ensure reaction vessel sealing and facilitate ready manua or automated access • Purging Manifold requires both Inner/Piercing septa and Sealing Gaske	
	Inner/Piercing Septa Ultra pure Natural Rubber Septa for Inerting/Purging Manifold	
13742152	☐ **Inner/Piercing Septa: 6-Position (pk of 5)**	
13742169	☐ **Inner/Piercing Septa: 12-Position (pk of 5)**	
13742170	☐ **Inner/Piercing Septa: 24-Position (pk of 5)**	
13200080	☐ **Inner/Piercing Septa: 48-Position (pk of 5)***	
	Natural Rubber Sealing Gasket for Vessels Ultra-Pure Natural Rubber Used to firmly seal reaction vessels against the inerting/purging manifold	
13742153	☐ **Sealing Gasket: 6-Position (pk of 5)**	
13742154	☐ **Sealing Gasket: 12-Position (pk of 5)**	
13742155	☐ **Sealing Gasket: 24-Position (pk of 5)**	
13200079	☐ **Sealing Gasket: 48-position (pk of 5)***	
	***Available in Q2, 2003**	
	Inerting/Purging Manifold Multi-Layered Sealing Gaskets for Vessels Newly developed 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	☐ **Multi-Layered Sealing Gasket: 6-Position (pk of 5)**	
13742203	☐ **Multi-Layered Sealing Gasket: 12-Position (pk of 5)**	
13742204	☐ **Multi-Layered Sealing Gasket: 24-Position (pk of 5)**	
13200081	☐ **Multi-Layered Sealing Gasket: 48-Position (pk of 5)***	
	***Available in Q2, 2003**	
13742083	☐ **Multi-Layer Septum for Inert Atmosphere Manifold (-40ºC to 80ºC) - 1 each** Newly developed composite septa, punched for the manifold needles. Easy to pierce layers allow use on most liquid handlers. *Please Note: This Manifold has been replaced with the new inerting/ purging manifold for 6, 12 and 24-Position MiniBlock Applications. (See Page 7)*	
13260631	☐ **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	☐ **Sealing Gasket for Positive Pressure Manifold - 1 each** Punched, ultra-pure natural rubber	

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MiniBlock® Collection Options

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

MiniBlock® Collection Options

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

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MiniBlock® Collection Options

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

MiniBlock® Collection Options

PART NO.	GLASSWARE FOR COLLECTION RACKS
	Collection Vessels
13520111	☐ **Rack of Tall 2.5 mL Polypropylene MiniTubes** 9 x 80 mm - 1 each
13521100	☐ **Glass, 6mL Tube** 12 x 75 mm - pk of 72
13521101	☐ **Polypropylene, 6mL Test Tube** 12 x 75 mm - pk of 250
13521103	☐ **Glass, 3.7 mL (1-dram) Vial** 15 x 45 mm - pk of 144
13521105	☐ **Glass, 7.5mL (2-dram) Vial** 17 x 61 mm - pk of 72
13521107	☐ **Glass, 15mL Test Tube** 16 x 100 mm - pk of 144
13521108	☐ **Glass, 15mL (4-dram) Vial** 21 x 70 mm - pk of 144
13521114	☐ **Glass 55mL Scintillation Vial** 28 x 135 mm - pk of 50

MiniBlock® User Manual

PART NO.	USER MANUAL
13602001 iss 2 Mar02	☐ **MiniBlock User Manual** Hard Copy Version
13000005	☐ **MiniBlock User Manual** CD Version

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MiniBlock® SPE Accessories and Consumables

PART NO.	SPE ACCESSORIES AND CONSUMABLES	
	New Disposable SPE Plates New SPE offering enables rapid SPE purification for MiniBlocks. The color-coded plates contain 48 tubes and are disposable. Sorbent loading capacity of 500mg allows purification of more compound in less time. (Requires SPE Manifolds, 13742089 Red, or 13742090 Blue). ❖ Convenient Disposable Pre-Loaded SPE Plates, 48 tubes per plate ❖ Largest Commercially Available Capacity, 500mg ❖ Full Compatibility with MiniBlock Reactors	
	SPE Plates	
13511216	☐ **SCX (500mg) SPE Tubes on Red Plate** (48/Plate) Exchange Capacity 0.6-0.9 mequiv/g	
13511217	☐ **SCX (500mg) SPE Tubes on Blue Plate** (48/Plate) Exchange Capacity 0.6-0.9 mequiv/g	
13511219	☐ **Silica Gel (500mg) SPE Tubes on Red Plate** (48/Plate)	
13511220	☐ **Silica Gel (500mg) SPE Tubes on Blue Plate** (48/Plate)	
13511222	☐ **SAX (500mg) SPE Tubes on Red Plate** (48/Plate) Exchange Capacity 0.7-0.9 mequiv/g	
13511223	☐ **SAX (500mg) SPE Tubes on Blue Plate** (48/Plate) Exchange Capacity 0.7-0.9 mequiv/g	
		
13511225	☐ **C18 (500mg) SPE Tubes on Red Plate** (48/Plate) Carbon Content 17-19%	
13511226	☐ **C18 (500mg) SPE Tubes on Blue Plate** (48/Plate) Carbon Content 17-19%	
13511228	☐ **Diatomaceous Earth (500 mg) SPE Tubes on Red Plate**	
13511229	☐ **Diatomaceous Earth (500 mg) SPE Tubes on Blue Plate**	
	Do Not See What You're Looking For? ⚠ **Other cartridge packing options are also available. Please contact your Mettler-Toledo AutoChem sales representative for more information.**	
	SPE Tubes Without Plates, 48 per Bag Loose SPE tubes available for use with same color MiniBlocks	
13511218	☐ **SCX (500mg) SPE Tubes,** Exchange Capacity 0.6-0.9 mequiv/g	
13511221	☐ **Silica Gel (500mg) SPE Tubes**	
13511224	☐ **SAX (500mg) SPE Tubes,** Exchange Capacity 0.7-0.9 mequiv/g	
13511227	☐ **C18 (500mg) SPE Tubes,** Carbon Content 17-19%	
13511230	☐ **Diatomaceous Earth (500 mg) SPE Tubes**	
	SPE Manifolds Positions on top of the Vacuum collection base. Placing a MiniBlock on top of the manifold enables filtration from either a Red or Blue MiniBlock. *Please note: The same color MiniBlock, SPE Plate, Manifold and Collection Rack must be used to ensure proper operation.*	
13742089	☐ **Red SPE Manifold**	
13742090	☐ **Blue SPE Manifold**	

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Service and Warranties

Ordering Information:

Mail Orders:
Mettler-Toledo AutoChem, Inc.
562 Bunker Court
Vernon Hills, IL 60061-1831

Fax Orders:
847-680-1199

Phone Orders:
847-680-3939

When placing an order, specify your purchase order number, price list reference number, product model or part number/description, quantity, shipping and invoicing address, contact name and telephone number.

Terms:

All prices are ExWorks, Vernon Hills, IL. 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

Delivery:

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

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