



XT-Plus®

MiniBlock® XT Solution Phase Synthesis Configuration Guide

DC13602062 iss10Jan10 (Effective January 1, 2010)

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Overview:

System Concept

The XT product line is a multifunctional platform designed for:

- Parallel Solution Phase Synthesis
- Three reaction volume and vessel formats to suit a variety of needs
- Interchange of components with MiniBlock Solid Phase systems

The XT is an easy-to-operate system which requires minimal hood space. All racks are microtiter plate format, providing compatibility with dry down devices and flexibility for use with automation.

Chemistry Capabilities


- Excellent temperature control and refluxing
- Reactions performed under inert or non-inert atmosphere
- Robust mixing of difficult solutions - magnetic stirring or orbital shaking
- Easy setup and cleanup
- Integrated scavenger resin dispensing

Automation Options

XT reaction vessel racks are readily used with many common evaporators and liquid handlers. Further supporting automation is also available from Mettler-Toledo AutoChem, addressing the following processes:

- Reagent Preparation
- Reagent mapping
- Work-up / purification, including phase boundary detected liquid-liquid extractions
- Weighing for yield determination
- Compound dissolution, screening plate preparation and compound archiving

XT-S Basic


PART NO.	SETS																					
	<p>XT-S: Affordable Reaction Block for Synthesis and Screening</p> <ul style="list-style-type: none"> • Complete synthesis system for 6, 12, 24, or 48 parallel solution phase reactions • Temperature Range -70 to 160C • Fully Upgradable form Reflux and Inerting Capability • Consumables are included in the discounted price <p>Set Contents:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Reactor Frame</td> </tr> <tr> <td>1</td> <td>Vessel Rack</td> </tr> <tr> <td>1</td> <td>Vessel Rack Removal Tool</td> </tr> <tr> <td>1</td> <td>Top Plate</td> </tr> <tr> <td>5</td> <td>Multi-Layer Septa, Pre-scored for Top Plate</td> </tr> </tbody> </table> <p>6-Position Includes: 24 Reaction Vessels, 110 mL 8 Magnetic Stir Bars, Cross Type</p> <p>12-Position Includes: 100 Reaction Vessels, 55 mL 15 Magnetic Stir Bars, Cross Type</p> <p>24-Position Includes: 100 Reaction Vessels, 18 mL 30 Magnetic Stir Bars, Cross Type</p> <p>48-Position Includes: 100 Reaction Vessels, 11.5 mL 50 Magnetic Stir Bars, Egg Shape</p> <p>Please Choose One of the Following XT-S Reaction Blocks:</p> <table border="1"> <tbody> <tr> <td>13742231</td> <td>XT-S, 6-Position</td> </tr> <tr> <td>13742232</td> <td>XT-S, 12-Position</td> </tr> <tr> <td>13742233</td> <td>XT-S, 24-Position</td> </tr> <tr> <td>13742234</td> <td>XT-S, 48-Position</td> </tr> </tbody> </table>	Quantity	Description	1	Reactor Frame	1	Vessel Rack	1	Vessel Rack Removal Tool	1	Top Plate	5	Multi-Layer Septa, Pre-scored for Top Plate	13742231	XT-S, 6-Position	13742232	XT-S, 12-Position	13742233	XT-S, 24-Position	13742234	XT-S, 48-Position	
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13742234	XT-S, 48-Position																					

XT-S Plus



PART NO.	SETS												
	<p>XT-S Plus: Affordable Heating and Cooling with Recirculator</p> <ul style="list-style-type: none"> • Complete synthesis system for 6, 12, 24, or 48 parallel solution phase reactions • Temperature Range -70 to 160C* • Fully Upgradable from Reflux and Inerting Capability • Consumables are included in the discounted price <p>Set Contents:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Reactor Frame</td> </tr> <tr> <td>1</td> <td>Vessel Rack</td> </tr> <tr> <td>1</td> <td>Vessel Rack Removal Tool</td> </tr> <tr> <td>1</td> <td>Top Plate</td> </tr> <tr> <td>5</td> <td>Multi-Layer Septa, Pre-scored for Top Plate</td> </tr> </tbody> </table> <p>6-Position Includes: 24 Reaction Vessels, 110 mL 8 Magnetic Stir Bars, Cross Type</p> <p>12-Position Includes: 100 Reaction Vessels, 55 mL 15 Magnetic Stir Bars, Cross Type</p> <p>24-Position Includes: 100 Reaction Vessels, 18 mL 30 Magnetic Stir Bars, Cross Type</p> <p>48-Position Includes: 100 Reaction Vessels, 11.5 mL 50 Magnetic Stir Bars, Egg Shape</p> <p>* Temperature Range Dependent on Recirculator. Recirculator Not Included</p> <p>Please Choose One of the Following XT-S Plus Reaction Blocks:</p> <p>13742235 <input type="checkbox"/> XT-S Plus, 6-Position</p> <p>13742236 <input type="checkbox"/> XT-S Plus, 12-Position</p> <p>13742237 <input type="checkbox"/> XT-S Plus, 24-Position</p> <p>13742238 <input type="checkbox"/> XT-S Plus, 48-Position</p>	Quantity	Description	1	Reactor Frame	1	Vessel Rack	1	Vessel Rack Removal Tool	1	Top Plate	5	Multi-Layer Septa, Pre-scored for Top Plate
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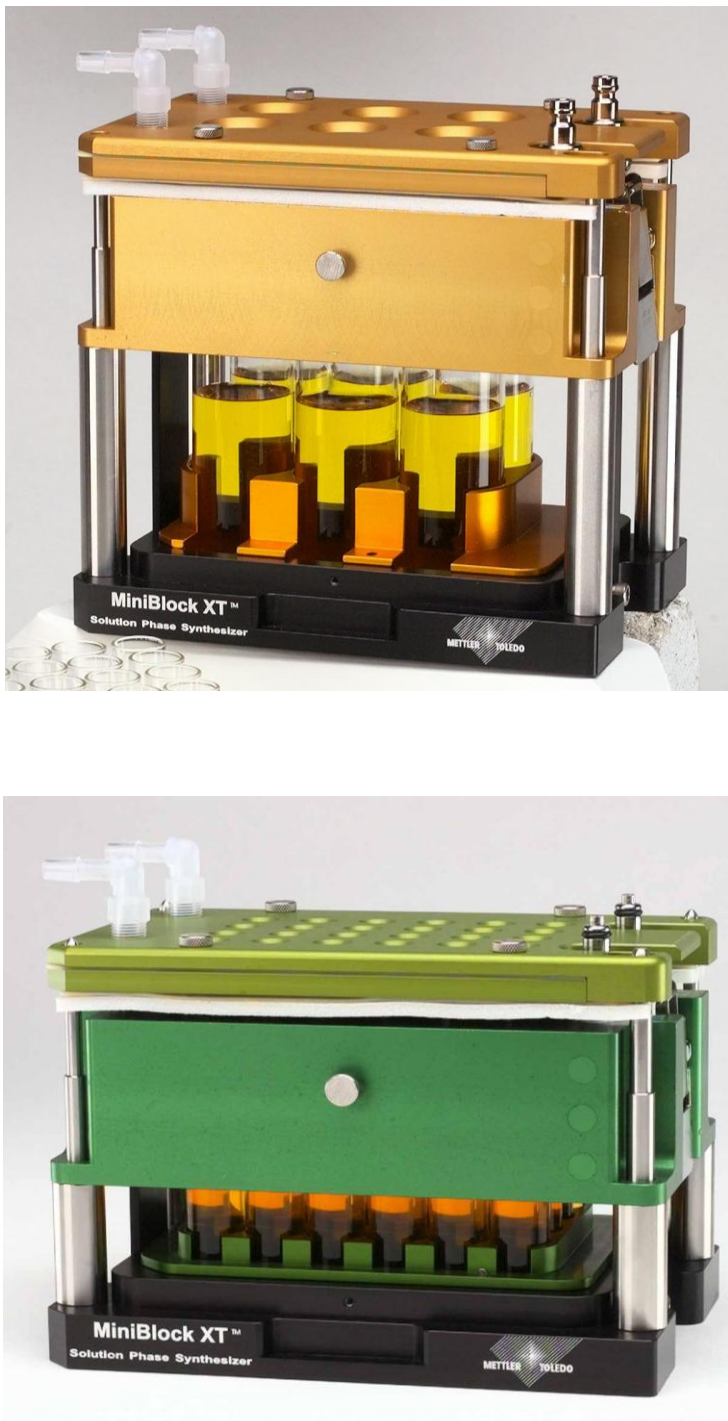

XT Sets

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		<p>XT Set: A Complete Reactor with Hotplate Stirrer</p> <ul style="list-style-type: none"> • Complete synthesis system for 6, 12, or 24 parallel solution phase reactions • Compact unit enables reflux or controlled temperature synthesis (temperature range: -70°C to 160°C) • Components can be converted to 6, 12, or 24 vessels • Consumables are included in the discounted price <p>Set Contents:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>1</td><td>Reactor Frame</td></tr> <tr><td>1</td><td>Vessel Rack</td></tr> <tr><td>1</td><td>Refluxing Layer</td></tr> <tr><td>1</td><td>Inerting/Purging Manifold</td></tr> <tr><td>1</td><td>Vessel Rack Removal Tool</td></tr> <tr><td>5</td><td>Sealing Gaskets</td></tr> <tr><td>5</td><td>Inner/Piercing Septa</td></tr> <tr><td>1</td><td>Top Plate</td></tr> <tr><td>5</td><td>Multi-Layer Septa, Pre-scored for Top Plate</td></tr> </tbody> </table> <p>6-Position Includes: 24 Reaction Vessels, 110 mL 8 Magnetic Stir Bars, Cross Type</p> <p>12-Position Includes: 100 Reaction Vessels, 55 mL 15 Magnetic Stir Bars, Cross Type</p> <p>24-Position Includes: 100 Reaction Vessels, 18 mL 30 Magnetic Stir Bars, Cross Type</p> <p>48-Position Includes: 100 Reaction Vessels, 18 mL 50 Magnetic Stir Bars, Oval Type</p> <p>Heater-Stirrer System - See Page 7 for Details.</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>1</td><td>IKA Hot Plate Stirrer, 115V/60Hz or 230V/50Hz</td></tr> <tr><td>1</td><td>IKA Feedback Control Kit</td></tr> <tr><td>1</td><td>Heat Dispersion Adapter for IKA</td></tr> </tbody> </table> <p><input type="checkbox"/> Please Choose One of the Following XT Sets:</p> <table border="1"> <tbody> <tr> <td>13742107</td> <td><input type="checkbox"/> XT Set, 6-Position, 115V</td> </tr> <tr> <td>13742119</td> <td><input type="checkbox"/> XT Set, 6-Position, 230V</td> </tr> <tr> <td>13742108</td> <td><input type="checkbox"/> XT Set, 12-Position, 115V</td> </tr> <tr> <td>13742121</td> <td><input type="checkbox"/> XT Set, 12-Position, 230V</td> </tr> <tr> <td>13742118</td> <td><input type="checkbox"/> XT Set, 24-Position, 115V</td> </tr> <tr> <td>13742122</td> <td><input type="checkbox"/> XT Set, 24-Position, 230V</td> </tr> <tr> <td>16004645</td> <td><input type="checkbox"/> XT Set, 48-Position, 115V</td> </tr> <tr> <td>16004646</td> <td><input type="checkbox"/> XT Set, 48-Position, 230V</td> </tr> </tbody> </table>	Quantity	Description	1	Reactor Frame	1	Vessel Rack	1	Refluxing Layer	1	Inerting/Purging Manifold	1	Vessel Rack Removal Tool	5	Sealing Gaskets	5	Inner/Piercing Septa	1	Top Plate	5	Multi-Layer Septa, Pre-scored for Top Plate	Quantity	Description	1	IKA Hot Plate Stirrer, 115V/60Hz or 230V/50Hz	1	IKA Feedback Control Kit	1	Heat Dispersion Adapter for IKA	13742107	<input type="checkbox"/> XT Set, 6-Position, 115V	13742119	<input type="checkbox"/> XT Set, 6-Position, 230V	13742108	<input type="checkbox"/> XT Set, 12-Position, 115V	13742121	<input type="checkbox"/> XT Set, 12-Position, 230V	13742118	<input type="checkbox"/> XT Set, 24-Position, 115V	13742122	<input type="checkbox"/> XT Set, 24-Position, 230V	16004645	<input type="checkbox"/> XT Set, 48-Position, 115V	16004646	<input type="checkbox"/> XT Set, 48-Position, 230V	
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XT Packages

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	<p>XT Package: Two Complete Reactors with One Hotplate Stirrer</p> <p>XT Packages include a complete XT Set, an additional XT Reactor and 2 extra Vessel Racks</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>2</td><td>Reactor Frame</td></tr> <tr><td>4</td><td>Removable Vessel Rack</td></tr> <tr><td>2</td><td>Refluxing Layer</td></tr> <tr><td>2</td><td>Inerting/Purging Manifold</td></tr> <tr><td>2</td><td>Vessel Rack Removal Tool</td></tr> <tr><td>10</td><td>Sealing Gaskets</td></tr> <tr><td>10</td><td>Inner/Piercing Septa</td></tr> <tr><td>2</td><td>Top Plate</td></tr> <tr><td>10</td><td>Multi-Layer Septa, Pre-scored for Top Plate</td></tr> <tr><td>1</td><td>IKA Hot Plate Stirrer, 115V/60Hz or 230V/50Hz</td></tr> <tr><td>1</td><td>Heat Dispersion Adapter for IKA</td></tr> <tr><td>1</td><td>IKA Feedback Control Kit</td></tr> </tbody> </table>	Quantity	Description	2	Reactor Frame	4	Removable Vessel Rack	2	Refluxing Layer	2	Inerting/Purging Manifold	2	Vessel Rack Removal Tool	10	Sealing Gaskets	10	Inner/Piercing Septa	2	Top Plate	10	Multi-Layer Septa, Pre-scored for Top Plate	1	IKA Hot Plate Stirrer, 115V/60Hz or 230V/50Hz	1	Heat Dispersion Adapter for IKA	1	IKA Feedback Control Kit	
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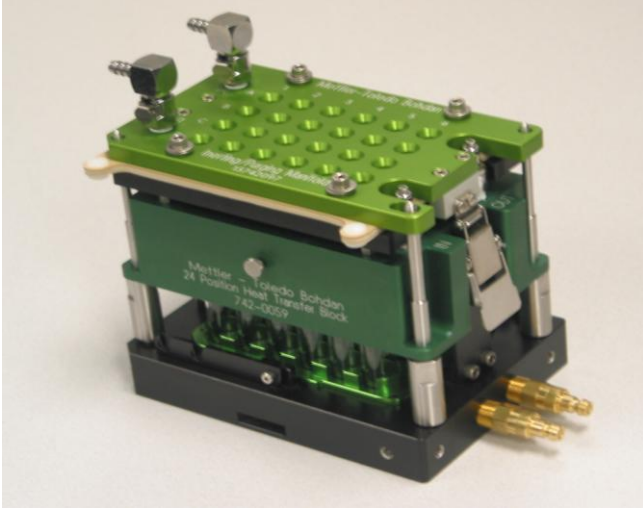



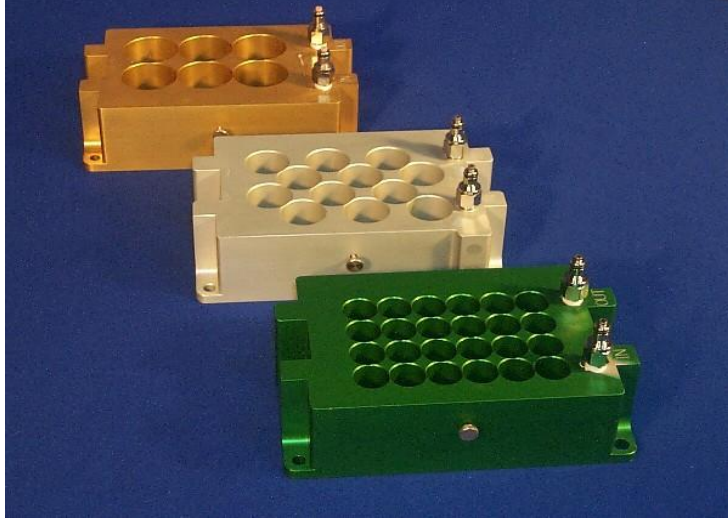
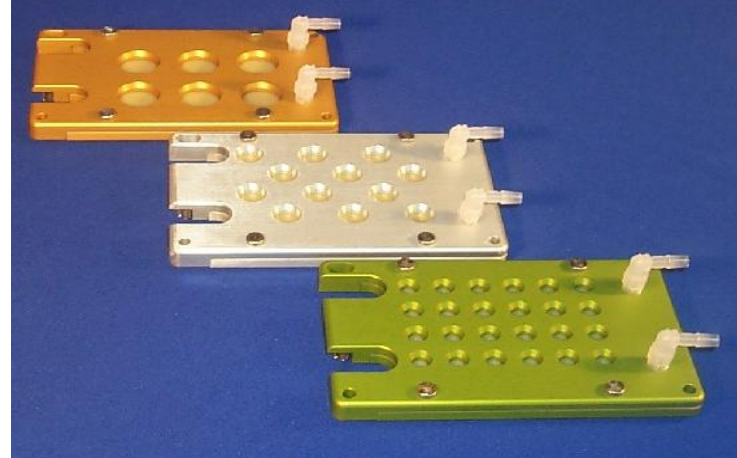
XT Individual Items


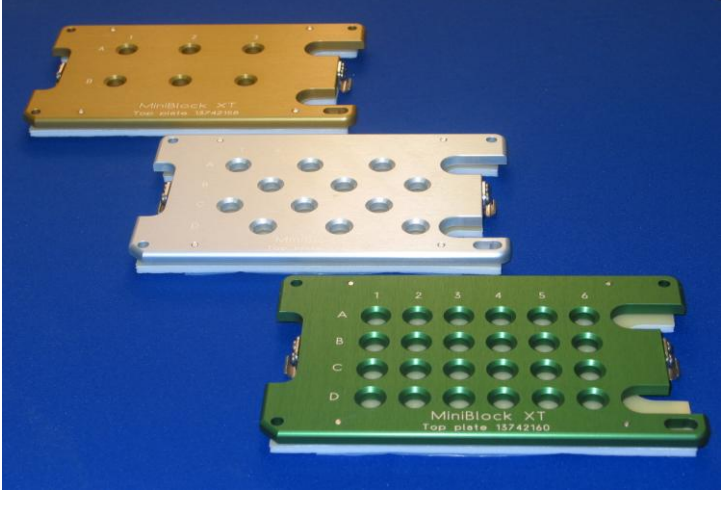
PART NO.	INDIVIDUAL ITEMS																					
	<p>XT Reactor Components</p> <ul style="list-style-type: none"> Proprietary reactor designed for precision heating and refluxing (temperature range: -70°C to 160°C). For use with magnetic stirrer-heater Available in 48, 24, 12, and 6-position arrays 																					
<p>13742123</p> <p>13742124</p> <p>13742125</p> <p>13200991</p>	<p>XT Reactors: 6, 12, 24 or 48-Position</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Reactor Frame</td> </tr> <tr> <td>1</td> <td>Vessel Rack</td> </tr> <tr> <td>1</td> <td>Refluxing Layer</td> </tr> <tr> <td>1</td> <td>Inerting/Purging Manifold</td> </tr> <tr> <td>1</td> <td>Vessel Rack Removal Tool</td> </tr> <tr> <td>5</td> <td>Sealing Gaskets</td> </tr> <tr> <td>5</td> <td>Inner/Piercing Septa</td> </tr> <tr> <td>1</td> <td>Top Plate</td> </tr> <tr> <td>5</td> <td>Multi-Layer Septa, Pre-scored for Top Plate</td> </tr> </tbody> </table> <p>6-Position Includes: 24 Reaction Vessels, 110 mL 8 Magnetic Stir Bars, Cross Type</p> <p>12-Position Includes: 100 Reaction Vessels, 55 mL 15 Magnetic Stir Bars, Cross Type</p> <p>24-Position Includes: 100 Reaction Vessels, 18 mL 30 Magnetic Stir Bars, Cross Type</p> <p>48-Position Includes: 100 Reaction Vessels, 7 mL 50 Magnetic Stir Bars, Oval Type</p> <p>▲ Requires Heat Dispersion Adapter (13742106) for use with IKA heater-stirrer ▲ See p. 8 for other Heat Transfer Accessories</p> <p><input type="checkbox"/> XT Reactor: 6-Position</p> <p><input type="checkbox"/> XT Reactor: 12-Position</p> <p><input type="checkbox"/> XT Reactor: 24-Position</p> <p><input type="checkbox"/> XT Reactor: 48-Position</p>	Quantity	Description	1	Reactor Frame	1	Vessel Rack	1	Refluxing Layer	1	Inerting/Purging Manifold	1	Vessel Rack Removal Tool	5	Sealing Gaskets	5	Inner/Piercing Septa	1	Top Plate	5	Multi-Layer Septa, Pre-scored for Top Plate	
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<p>13742105</p> <p>13742104</p>	<p>Reactor Frames</p> <ul style="list-style-type: none"> Supports all XT Reactor Components <p><input type="checkbox"/> Reactor Frame: 6 and 12 Position (150mm Reaction Vessel Height)</p> <p><input type="checkbox"/> Reactor Frame: 24 and 48 Position (110mm Reaction Vessel Height)</p>																					



XT Individual Items

PART NO.	INDIVIDUAL ITEMS																					
<p>13260547</p> <p>13260546</p> <p>13260545</p> <p>13260544</p> <p>13742151</p>	<p>Vessel Racks</p> <ul style="list-style-type: none"> • Readily interchangeable racks in automation friendly microtiter plate formats • Windows allow viewing of reactions <p><input type="checkbox"/> Vessel Rack: 6-Position</p> <p><input type="checkbox"/> Vessel Rack: 12-Position</p> <p><input type="checkbox"/> Vessel Rack: 24-Position</p> <p><input type="checkbox"/> Vessel Rack: 48-Position</p> <p><input type="checkbox"/> Vessel Rack Removal Tool, All Positions Button actuated handle locks into rack for removal from frame.</p>																					
	<p>XT-Plus Reactor</p> <p>The XT-Plus Reaction Block is a unique reaction block with built-in liquid circulation allowing temperature control using a standard heating and cooling recirculator.</p> <p>The XT-Plus allows:</p> <ul style="list-style-type: none"> • Heating and cooling of reaction vessels in one step, with a single connection. • Allows precise temperature control, while taking advantage of temperature ramp up and other recirculator features. • Small Footprint, making the XT-Plus the most compact and space efficient reaction block in its class. • Temperature Range: -70°C** to 160°C (Recommended: 13200240 Insulation Wrap for XT and MiniBlock) <p>** Requires XT Low Temperature Bath (13742180) or suitable recirculator.</p>																					
	<p>XT-Plus Reactors: 6, 12, 24 or 48-Position</p> <table border="1" data-bbox="351 1467 982 1736"> <thead> <tr> <th>Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Reactor Frame</td> </tr> <tr> <td>1</td> <td>Vessel Rack</td> </tr> <tr> <td>1</td> <td>Refluxing Layer</td> </tr> <tr> <td>1</td> <td>Purge/Evap Manifold</td> </tr> <tr> <td>1</td> <td>Vessel Rack Removal Tool</td> </tr> <tr> <td>5</td> <td>Sealing Gaskets</td> </tr> <tr> <td>5</td> <td>Inner/Piercing Septa</td> </tr> <tr> <td>1</td> <td>Top Plate</td> </tr> <tr> <td>5</td> <td>Multi-Layer Septa, Pre-scored for Top Plate</td> </tr> </tbody> </table> <p>6-Position Includes: 24 Reaction Vessels, 110 mL 8 Magnetic Stir Bars, Cross Type</p> <p>12-Position Includes: 100 Reaction Vessels, 55 mL 15 Magnetic Stir Bars, Cross Type</p> <p>24-Position Includes: 100 Reaction Vessels, 18 mL 30 Magnetic Stir Bars, Cross Type</p> <p>48-Position Includes: 100 Reaction Vessels, 7 mL 50 Magnetic Stir Bars, Oval Type</p> <p>▲ Reaction block base must be drained before using on hot plate.</p> <p>▲ See p. 8 for other Heat Transfer Accessories</p>	Quantity	Description	1	Reactor Frame	1	Vessel Rack	1	Refluxing Layer	1	Purge/Evap Manifold	1	Vessel Rack Removal Tool	5	Sealing Gaskets	5	Inner/Piercing Septa	1	Top Plate	5	Multi-Layer Septa, Pre-scored for Top Plate	
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XT Individual Items

PART NO.	INDIVIDUAL ITEMS	
<p>13200979</p> <p>13200978</p> <p>13200977</p> <p>13200976</p>	<p><input type="checkbox"/> XT-Plus Reactor: 6-Position</p> <p><input type="checkbox"/> XT-Plus Reactor: 12-Position</p> <p><input type="checkbox"/> XT-Plus Reactor: 24-Position</p> <p><input type="checkbox"/> XT-Plus Reactor: 48-Position</p>	
<p>13200688</p> <p>13200980</p> <p>13260547</p> <p>13260546</p> <p>13260545</p> <p>13260544</p> <p>13742151</p>	<p>XT-Plus Reactor Frames</p> <ul style="list-style-type: none"> Supports all XT Reactor Components <p><input type="checkbox"/> XT-Plus Reactor Frame: 6 and 12 Position (150mm Reaction Vessel Height)</p> <p><input type="checkbox"/> XT-Plus Reactor Frame: 24 and 48 Position (110mm Reaction Vessel Height)</p> <p>Vessel Racks</p> <ul style="list-style-type: none"> Readily interchangeable racks in automation friendly microtiter plate formats Windows allow viewing of reactions <p><input type="checkbox"/> Vessel Rack: 6-Position</p> <p><input type="checkbox"/> Vessel Rack: 12-Position</p> <p><input type="checkbox"/> Vessel Rack: 24-Position</p> <p><input type="checkbox"/> Vessel Rack: 48-Position</p> <p><input type="checkbox"/> Vessel Rack Removal Tool, All Positions Button actuated handle locks into rack for removal from frame.</p>	  
<p>13742061</p> <p>13742060</p> <p>13742059</p> <p>13742005</p> <p>13742182</p>	<p>Reflux Layer (MiniBlock Heat Transfer Block)</p> <ul style="list-style-type: none"> Quick install reflux layer block enables efficient condensation. Available in 6, 12, or 24 position arrays. Includes quick-disconnect fittings. <p><input type="checkbox"/> Reflux Layer (Heat Transfer Block): 6-Position</p> <p><input type="checkbox"/> Reflux Layer (Heat Transfer Block): 12-Position</p> <p><input type="checkbox"/> Reflux Layer (Heat Transfer Block): 24-Position</p> <p><input type="checkbox"/> Reflux Layer (Heat Transfer Block): 48-Position</p> <p>Inert/Purge Manifolds</p> <p>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.</p> <p><input type="checkbox"/> Inert/Purge Manifold: 48-Position</p>	 

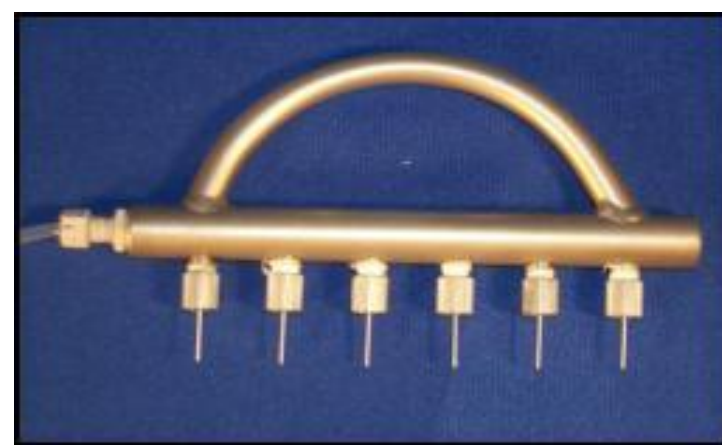

PART NO.	INDIVIDUAL ITEMS	
<p>13200957</p> <p>13200951</p> <p>13200950</p> <p>16004228</p> <p>16004229</p> <p>16004230</p> <p>13742158</p> <p>13742159</p> <p>13742160</p> <p>13742187</p> <p>▲ Requires multi-layered Septum, pre-scored (13742168), page 11.</p>	<p>Purge/Evap Manifolds</p> <p>Provides superior 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.</p> <p><input type="checkbox"/> Purge/Evap Manifold: 6-Position</p> <p><input type="checkbox"/> Purge/Evap Manifold: 12-Position</p> <p><input type="checkbox"/> Purge/Evap Manifold: 24-Position</p> <p>Manifold Upgrade Inert/Purge to Purge Evap</p> <p>Manifold upgrade enables inert/purge manifolds to have blow down evaporation capability. Upgrades contain the evaporation plate and sealing gasket.</p> <p><input type="checkbox"/> Upgrade to Purge/Evap Manifold: 6-Position</p> <p><input type="checkbox"/> Upgrade to Purge/Evap Manifold: 12-Position</p> <p><input type="checkbox"/> Upgrade to Purge/Evap Manifold: 24-Position</p> <p>Top Plate</p> <ul style="list-style-type: none"> Used for XT closure for reactions not requiring inert atmosphere. <p><input type="checkbox"/> Top Plate, 6-position</p> <p><input type="checkbox"/> Top Plate, 12-position</p> <p><input type="checkbox"/> Top Plate, 24-position</p> <p><input type="checkbox"/> Top Plate, 48-position</p>	 

PART NO.	INDIVIDUAL ITEMS	
	<p>Heat Transfer and Mixing</p> <ul style="list-style-type: none"> Components/Accessories for consistent XT temperature control and agitation 	
<p>13511161</p> <p>13511164</p> <p>13742106</p>	<p>IKA Hotplate/Stirrer Components</p> <ul style="list-style-type: none"> High quality magnetic stirrer-heater from IKA provides consistent agitation and heat to XT Requires use of Heat Dispersion Adapter (13742106) for Feedback Control Temperature feedback control options listed below <p><input type="checkbox"/> IKA Hotplate Stirrer, 115V/60 Hz</p> <p><input type="checkbox"/> IKA Hotplate Stirrer, 230V/50/60 Hz</p> <p><input type="checkbox"/> IKA Heat Dispersion Adapter</p> <ul style="list-style-type: none"> Focuses heat from IKA unit to XT reactor for uniform temperature distribution to all reaction vessels. 	 


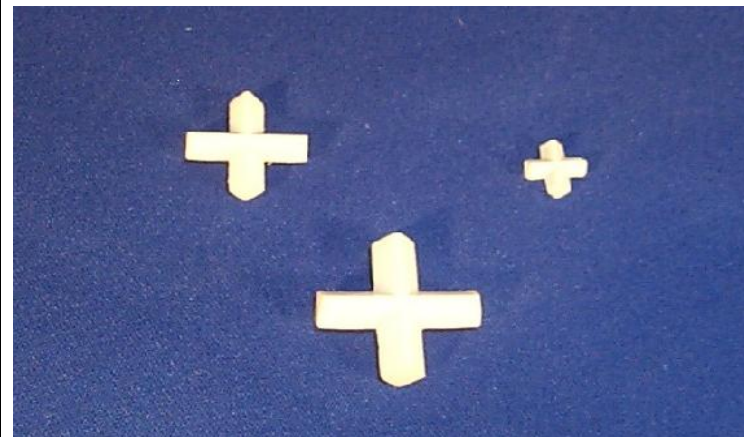
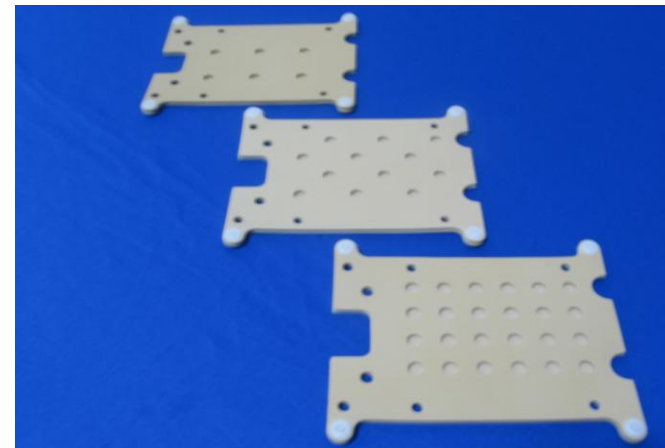
XT Individual Items

PART NO.	INDIVIDUAL ITEMS	
13511162	<input type="checkbox"/> IKA Feedback Control Kit <ul style="list-style-type: none"> Remote LCD Controller, support structure, extension cable, and RTD temperature probe 	
13511163	<input type="checkbox"/> IKA Feedback Control Upgrade Kit <ul style="list-style-type: none"> Extension cable and RTD probe to convert existing IKA units with temperature controller for XT use 	
13742199	<input type="checkbox"/> IKA Recirculating Heat/Cool Base <ul style="list-style-type: none"> Insulated temperature control base enables efficient heat transfer from a chiller/recirculator to XT Reactor Allows temperature controlled cooling and heating For use with XT block and IKA Stirrer <p>▲ Temperature control recirculator and IKA Stirrer sold separately</p>	
13742205	<p>Heidolph Heat Dispersion Adapter (for MR3003 Control S)</p> <ul style="list-style-type: none"> Enables highest safety with consistent XT temperature control and agitation <input type="checkbox"/> Heat Dispersion Adapter, 145mm dia. Hot Plate <p>▲ MR3003 Control S Heater - Stirrer sold by Heidolph and Independent Distributors</p>	
13742180	<input type="checkbox"/> XT Low Temperature Bath <ul style="list-style-type: none"> Insulated tray for sub-ambient temperature control of (1) XT Reactor Insulated tray maintains dry ice/acetone temperature for approximately 4 hours without refilling Tray can be placed on top of magnetic stirrers for mixing reaction components <p>▲ XT Block Sold Separately</p>	
13200240	<input type="checkbox"/> Insulation Wrap for XT and MiniBlock	
13742086	<input type="checkbox"/> 24-Position Resin Dispenser Sliding plate dispensing device for rapid delivery of resins/powders to 24-position XT format. Also for resin dispensing to 24-position MiniBlock solid phase system. <ul style="list-style-type: none"> A. 1- Resin Dispenser Base, 24-position with Quick Release Pin B. 1- Storage Case with Operating Instructions C. 1- Resin Spreader D. 1- Anti-Static Grounding Strap E. 1- Calibration Plate F. 1- Dispensing Plate - 10.0µL, approx. 5mg G. 1- Dispensing Plate - 20.0µL, approx. 10mg H. 1- Dispensing Plate - 40.0µL, approx. 20mg J. 1- Dispensing Plate - 100.0µL, approx. 50mg K. 1- Dispensing Plate - 200.0µL, approx. 100mg 	
13200926	<input type="checkbox"/> Adapter For Resin Dispenser: 24-Position <ul style="list-style-type: none"> Allows Resin Dispenser to be used with Reflux Layer in Place. 	

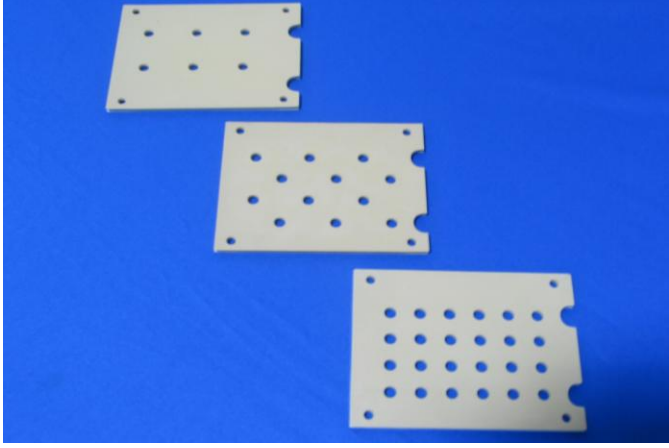
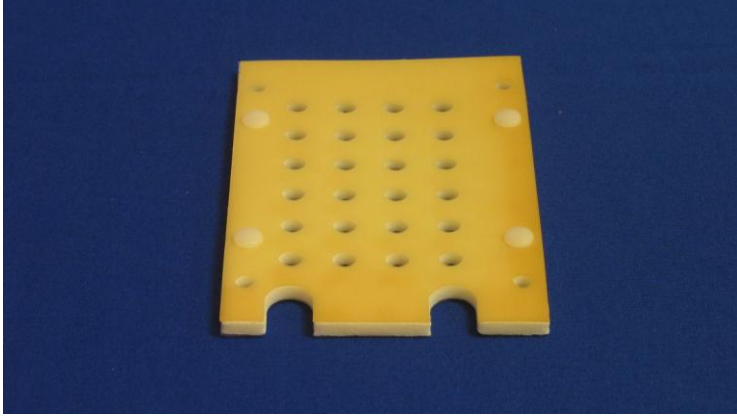
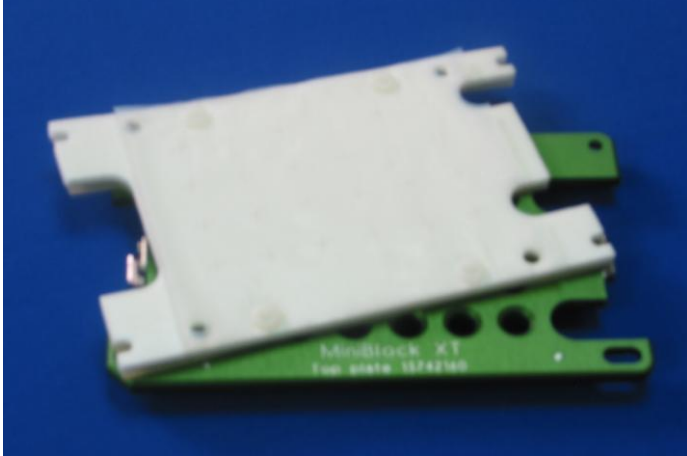

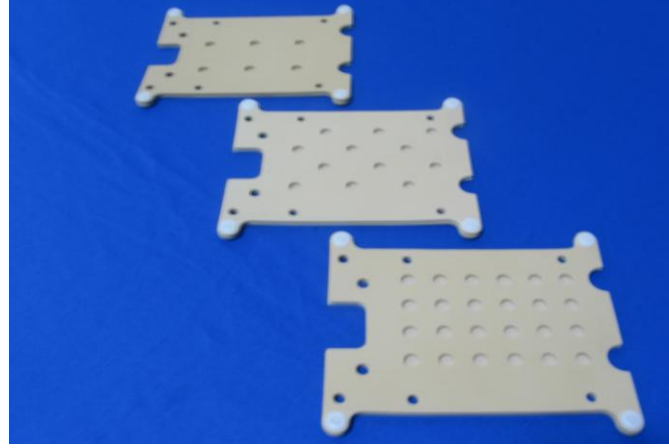
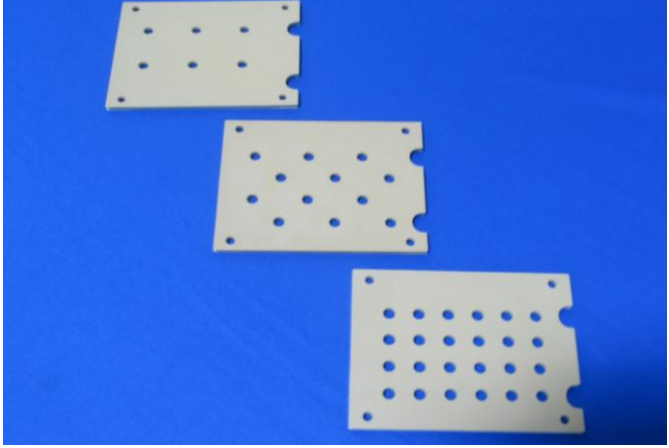
XT Individual Items

PART NO.	INDIVIDUAL ITEMS	
13742195	<input type="checkbox"/> 6-Position Solvent Dispenser <ul style="list-style-type: none"> • Precision solvent dispenser for 48 or 24 position XT (or 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	<input type="checkbox"/> Brinkmann Bottletop Dispensing Pump - 50 ml <ul style="list-style-type: none"> • 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) 	

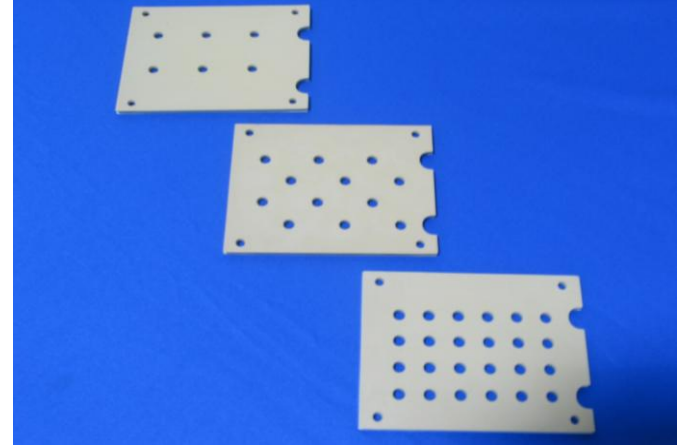

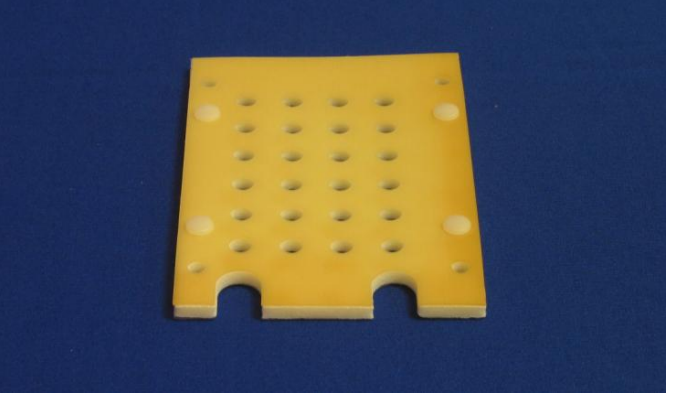
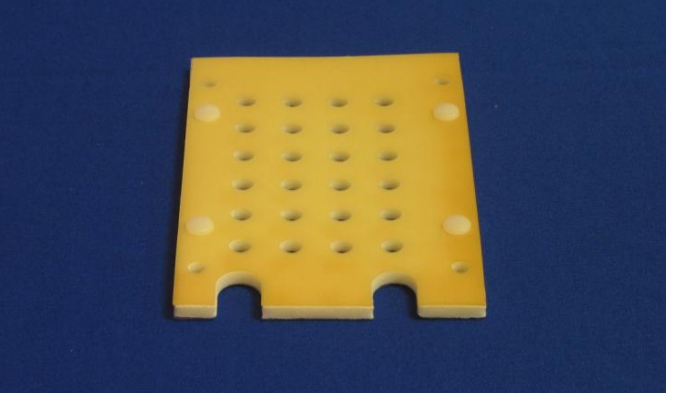
XT Consumables

PART NO.	CONSUMABLES	
	Reaction Vessels <ul style="list-style-type: none"> • Borosilicate Glass reaction vessels for XT 	
13742146	<input type="checkbox"/> 6 Position Reaction Vessel - 34 X 150mm (110 mL) - Qty: 24	
13742145	<input type="checkbox"/> 6 Position Reaction Vessel - 34 X 150mm (110 mL) - Qty: 96	
13742148	<input type="checkbox"/> 12 Position Reaction Vessel - 24 X 150mm (55 mL) - Qty: 100	
13742147	<input type="checkbox"/> 12 Position Reaction Vessel - 24 X 150mm (55 mL) - Qty: 500	
13742149	<input type="checkbox"/> 24 Position Reaction Vessel - 17 X 110mm (18 mL) - Qty: 100	
13742150	<input type="checkbox"/> 24 Position Reaction Vessel - 17 X 110mm (18 mL) - Qty: 1000	
16004001	<input type="checkbox"/> 48 Position Reaction Vessel - 11.5 X 110mm (18 mL) - Qty: 100	
16004000	<input type="checkbox"/> 48 Position Reaction Vessel - 11.5 X 110mm (18 mL) - Qty: 1000	
	Magnetic Stir Bars (Cross Type) <ul style="list-style-type: none"> • Cross configuration provides maximum mixing for reaction mixtures 	
13511157	<input type="checkbox"/> Magnetic Stir Cross (1") for 6 Position Reaction Vessels - Qty: 8	
13511158	<input type="checkbox"/> Magnetic Stir Cross (3/4") for 12 Position Reaction Vessels - Qty: 15	
13511159	<input type="checkbox"/> Magnetic Stir Cross (3/8") for 24 Position Reaction Vessels - Qty: 30	
13511079	<input type="checkbox"/> Magnetic Stir Oval (15mm) for 48 Position Reaction Vessels - Qty: 50	
	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)	

XT Consumables

PART NO.	CONSUMABLES	
<p>13742153</p> <p>13742154</p> <p>13742155</p> <p>13200079</p> <p>13742202</p> <p>13742203</p> <p>13742204</p> <p>13200081</p>	<p>Natural Rubber Sealing Gaskets Ultra-pure Natural Rubber Gaskets Used to firmly seal reaction vessels against the inert/purge manifold</p> <p><input type="checkbox"/> Sealing Gasket, 6-Position (pk of 5)</p> <p><input type="checkbox"/> Sealing Gasket, 12-Position (pk of 5)</p> <p><input type="checkbox"/> Sealing Gasket, 24-Position (pk of 5)</p> <p><input type="checkbox"/> Sealing Gasket, 48-Position (pk of 5)</p> <p>Inert/Purge Manifold Multi-Layered Sealing Gaskets 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> <p><input type="checkbox"/> Multi-Layered Sealing Gasket, 6-Position (Pack of 5)</p> <p><input type="checkbox"/> Multi-Layered Sealing Gasket, 12-Position (Pack of 5)</p> <p><input type="checkbox"/> Multi-Layered Sealing Gasket, 24-Position (Pack of 5)</p> <p><input type="checkbox"/> Multi-Layered Sealing Gasket, 48-Position (Pack of 5)</p>	 
<p>13742168</p> <p>13742080</p>	<p><input type="checkbox"/> Multi-Layered Septum, Pre-scored (pk of 5) for Top Plate</p> <ul style="list-style-type: none"> • For use with top plate (reactions not requiring inert atmosphere) • Provides ready access to reactions and pressure release • Facilitates Automation. Fits 6, 12, or 24-position formats <p><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.</p>	 
<p>13742152</p> <p>13742169</p> <p>13200995</p> <p>13200992</p> <p>13200993</p> <p>13200994</p>	<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> <p><input type="checkbox"/> Inner/Piercing Septa, 6-Position (pk of 5)</p> <p><input type="checkbox"/> Inner/Piercing Septa, 12-Position (pk of 5)</p> <p><input type="checkbox"/> Inner/Piercing Septa, 24-Position (pk of 5)</p> <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> <p><input type="checkbox"/> Sealing Gasket, 6-Position (pk of 5)</p> <p><input type="checkbox"/> Sealing Gasket, 12-Position (pk of 5)</p> <p><input type="checkbox"/> Sealing Gasket, 24-Position (pk of 5)</p>	 

XT Consumables

PART NO.	CONSUMABLES	
13200872	<p>High Temperature Silicone Inner Piercing Septa 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> <p><input type="checkbox"/> High Temperature Septum Silicone: 6, 12 and 24-Position Manifolds</p>	
13200871	<p>High Temperature Silicone Sealing Gasket 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> <p><input type="checkbox"/> High Temperature Silicone Sealing Gasket, 6-Position</p>	
13200870	<p><input type="checkbox"/> High Temperature Silicone Sealing Gasket, 12-Position</p>	
13200869	<p><input type="checkbox"/> High Temperature Silicone Sealing Gasket, 24-Position</p>	
13201040	<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> <p><input type="checkbox"/> Multi-Layered Sealing Gasket, 6-Position (Pack of 5)</p>	
13201041	<p><input type="checkbox"/> Multi-Layered Sealing Gasket, 12-Position (Pack of 5)</p>	
13201042	<p><input type="checkbox"/> Multi-Layered Sealing Gasket, 24-Position (Pack of 5)</p>	

XT User Manual

PART NO.	USER MANUAL
13000018	<p><input type="checkbox"/> XT User Manual Hard Copy Version</p>

XT Procurement

PROCUREMENT

Service and Warranties

Ordering Information:

Mail Orders:
Mettler-Toledo AutoChem, Inc.
7075 Samuel Morse Drive
Columbia, MD 21046

Fax Orders:
(410) 910-8600

Phone Orders:
(866) 333-MTAC
E-Mail Orders:
autochemcustomer@mt.com

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, 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.

Delivery:

Please allow 4 weeks from METTLER TOLEDO's receipt of Purchase Order.

METTLER TOLEDO