

Occasion en
**EXCELLENT
ETAT**



2 990 € HT Net

Réf. : JO5840

Hotline > 33 (0)4 70 03 73 01
e-mail > interfine@interchim.fr



interchim

211 Avenue J.F. Kennedy - BP 1140
03103 Montluçon cedex - France
Tél 33 (0)4 70 03 88 55 - Fax 33 (0)4 70 03 82 60

SECONDHAND SYSTEM 6 POSITION METZ

1	RR98072/EURO	6 X 57.5MM POSITION METZ 230V
6	RR98073	00ML PARALLEL REFLUX ASSEMBLY FOR RR60008
7	RR99030	Elliptical Stirring Bar 25mm RE

Technical Specifications

Depth 310mm

Width 243mm

Height 135mm

Positions 6

Well Diameter 57.5mm

Stirring Speed 400 to 2000rpm

Temp. Range Ambient +5°C to 150°C

Temp. Stability Better than 0.5°C

Voltage 230/110 VAC

50/60 Hertz

50 Computer Interface None Computer Interface None

Shipping Weight 5 Kg

Heat up to max. 15 mins

Safety Thermal Cut Out

150ml Reaction Vessels



Metz Parallel Reaction Stations™

Multiple position stirred, heated and cooled reaction stations for combi-chem, process development and parallel chemistries





Technical Specifications

Depth	160mm
Width	243mm
Height	135mm
Positions	10
Well Diameter	25mm*
Reducing sleeves for	16, 20 and 24mm
Stirring Speed	400 to 2000rpm
Adjustable Soft Start	0 to 10 mins
Temp. Range	Ambient +5°C to 150°C
Temp. Soft Stability	Better than 0.5°C
Inert Gas Blanket	Option - supplied with Reflux Module
Voltage	230/110 VAC
	50/60 Hertz
Computer Interface	None
Weight	7Kg
Heat up to max.	15 mins
Safety	Thermal Cut Out

10 Position Metz Economy Parallel Reaction Station™

Cost effective parallel synthesis system for 16, 20, 24 and 25mm diameter reaction tubes

Applications Include...

Parallel Chemical Synthesis, Combinatorial Chemistry, Catalyst Development, Sample Incubation, Sample Concentration, Process Development and Optimisation.

Metz Reaction Station Features

- Microprocessor temperature control with LED display to 1°C.
- Temperature range: ambient +5°C to 150°C, with temperature stability better than 0.5°C.
- Microprocessor controlled stirring from 400rpm to 2000rpm, with a magnetic stirring bar for each position. Provides excellent magnetic coupling for stirring even the most viscous samples.
- Features stirring ramp/soft start to ensure stirrer bar coupling.
- Safety temperature cut-out eliminates runaway conditions.
- Insulated heating block keeps surrounding casework cool to the touch.
- Standard wells are 40mm deep (with other depths available on request).
- Standard wells are 25mm* diameter. With reducing sleeves/adaptors for 16mm, 20mm and 24mm diameter tubes available as standard, (other reducing sleeve/adaptor sizes available on request).

Forced Air and Water Cooled Reflux Modules

Optional forced air or water cooled reflux modules, which mount directly on top of the Metz Reaction Station to form a cooled environment for the unheated section of the tube and reduce vapour loss.

Inert Reactions

Both style of reflux module feature an integral hinged lid with holes corresponding to each reaction position. The holes are covered by a replaceable silicone membrane, which can be pierced by autosampler needles for automatic reagent addition under an inert atmosphere.



Cat No	Description	Price
RR60004	24mm x 10 Position Metz Economy Reaction Station, 230V	
RR60005	25mm x 10 Position Metz Economy Reaction Station, 230V	
RR60006	24mm x 10 Position Metz Economy Reaction Station, 110V	
RR60007	25mm x 10 Position Metz Economy Reaction Station, 110V	

*24mm systems feature 25mm wells with reducing adaptors/sleeves for 24mm tubes at no extra cost

Cat No	Description	Price
RR60403	Forced Air Reflux Module, 10 x 24 & 25mm, 230V	
RR60404	Forced Air Reflux Module, 10 x 24 & 25mm, 110V	
RR60409	Liquid Cooled Reflux Module, 10 x 24mm	
RR60410	Liquid Cooled Reflux Module, 10 x 25mm	
RR60222	Replacement Silicone Membrane	

24mm reflux modules feature 25mm holes with reducing adaptors/sleeves for 24mm tubes at no extra cost

A range of glass reaction tubes can be found opposite.

Optional Reflux Modules for 10, 25 and 50 Position Metz™ Stations

Maintain inert conditions and minimise sample loss due to evaporation

Optional forced air or water cooled reflux modules, which mount directly on top of the Reaction Stations to form a cooled environment for the unheated section of the tube and reduce solvent loss due to evaporation (25 and 50 position reflux modules not illustrated).

Forced Air Reflux Modules

Compact, electrically powered unit that uses an integral fan to cool the top of the reaction tubes. Benefits from not requiring a cooled water supply.

Water Cooled Reflux Modules

When combined with a chilled water supply these reflux modules provide superior and precisely controlled refluxing of all solvents. Unit features universal hose barbs for connection to tubing.

Inert Reactions

Both style of reflux module feature an integral hinged lid with holes corresponding to each reaction position. The holes are covered by a replaceable silicone membrane, which can be pierced by autosampler needles for automatic reagent addition under an inert atmosphere.



Cat No	Description	Voltage	Price
Forced Air Reflux Modules			
RR60403	10 Position Forced Air Reflux Module, 24 & 25mm	230V	
RR60404	10 Position Forced Air Reflux Module, 24 & 25mm	110V	
RR60405	25 Position Forced Air Reflux Module, 24 & 25mm	230V	
RR60406	25 Position Forced Air Reflux Module, 24 & 25mm	110V	
RR60407	50 Position Forced Air Reflux Module, 24 & 25mm	230V	
RR60408	50 Position Forced Air Reflux Module, 24 & 25mm	110V	

Liquid Cooled Reflux Modules

RR60409	10 Position Liquid Cooled Reflux Module, 24mm
RR60410	10 Position Liquid Cooled Reflux Module, 25mm
RR60411	25 Position Liquid Cooled Reflux Module, 24mm
RR60412	25 Position Liquid Cooled Reflux Module, 25mm
RR60413	50 Position Liquid Cooled Reflux Module, 24mm
RR60414	50 Position Liquid Cooled Reflux Module, 25mm

24mm reflux modules feature 25mm holes with reducing adaptors/sleeves for 24mm tubes at no extra cost

Reducing Sleeves/Adaptors

		Pk Qty
RR60213	Liquid Reflux Reducing Sleeves/Adaptors 25 to 24mm	10
RR60214	Liquid Reflux Reducing Sleeves/Adaptors 25 to 24mm	25
RR60215	Liquid Reflux Reducing Sleeves/Adaptors 25 to 24mm	50

Silicone Membranes

RR60222	Replacement Silicone Membrane	10
RR60223	Replacement Silicone Membrane	5
RR60224	Replacement Silicone Membrane	5

Metz Reaction Stations™

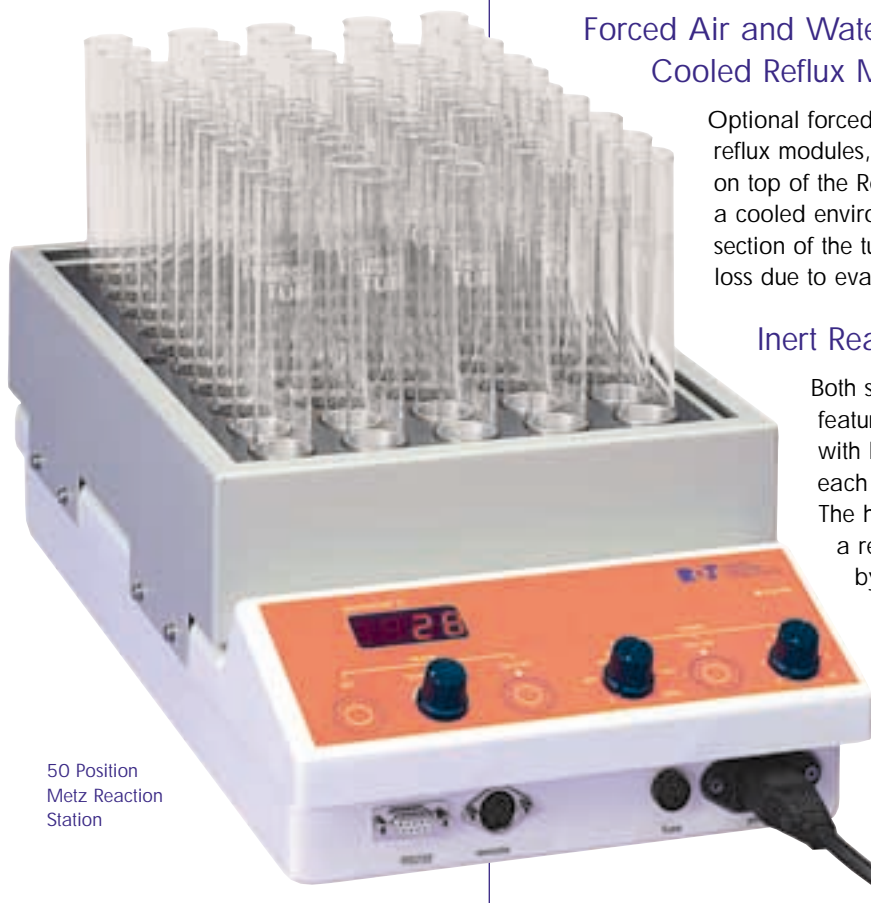
10, 24, 25 and 50 position heated and stirred reaction stations with removable cooling reflux modules and inert gas cover



10 Position Metz Reaction Station



25 Position Metz Reaction Station



50 Position
Metz Reaction
Station

Applications Include...

Parallel Chemical Synthesis, Combinatorial Chemistry, Catalyst Development, Sample Incubation, Sample Concentration, Process Development and Optimisation.

Metz Reaction Station Features

- 10, 24, 25 and 50 position units all with RS232/485 Computer Interface.
- Microprocessor temperature control with LED display to 1°C.
- Heated Units: ambient +5°C to 150°C, with temperature stability +/- 0.5°C.
- High Temperature Reaction Station - Developed with the needs of the process development chemist in mind. Units have 10 positions with an operating range of 50°C to 300°C.
- Microprocessor controlled stirring from 400rpm to 2000rpm, with a magnetic stirring bar for each position. Provides excellent magnetic coupling for stirring even the most viscous samples.
- Features adjustable stirring ramp/soft start to ensure stirrer bar coupling.
- Safety temperature cut-out eliminates runaway conditions.
- Standard wells are 40mm deep (with other depths available on request).
- Standard wells are 25mm * diameter. With reducing sleeves/adaptors for 16mm, 20mm and 24mm diameter tubes available as standard, (other reducing sleeve/adaptor sizes available on request).

Forced Air and Water Cooled Reflux Modules

Optional forced air or water cooled reflux modules, which mount directly on top of the Reaction Stations to form a cooled environment for the unheated section of the tube and reduces solvent loss due to evaporation.

Inert Reactions

Both style of reflux module feature an integral hinged lid with holes corresponding to each reaction position.

The holes are covered by a replaceable silicone membrane, which can be pierced by autosampler needles for automatic reagent addition under an inert atmosphere.



Safety First

The well insulated design of all Metz Reaction Stations ensures that the outer casing is always cool-to-the-touch, whilst a thermal cut-out eliminates runaway conditions. The integral heating block is coated in Teflon to protect from chemical splashes.

Technical Specifications

	50 Position Heated	24/25 Position Heated	10 Position Heated	10 Position High Temp
Depth	455	310	300	300
Width	243	243	80	80
Height	135	135	140	140
Soft Start	Adjustable 0-10	Adjustable 0-10	Fixed	Adjustable 0-10
Temp. Range	+5°C to 150°C	+5°C to 150°C	+5°C to 150°C	50°C to 300°C
Computer Interface	RS232	RS232	RS232/485	RS232/485
Shipping Weight	15Kg	15Kg	4.5Kg	4.5Kg
Heat to max.	30 mins	30 mins	15 mins	25 mins



Metz Reaction Stations are compact and simple to operate with easy integration to robotic systems

Cat No	Description	Voltage	Price
10 Position Heated Metz Reaction Stations			
RR60000	24mm x 10 Position Metz Reaction Station	230V	
RR60001	25mm x 10 Position Metz Reaction Station	230V	
RR60002	24mm x 10 Position Metz Reaction Station	110V	
RR60003	25mm x 10 Position Metz Reaction Station	110V	
10 Position High Temp Metz Reaction Stations			
RR60010	24mm x 10 Position High Temp Metz Reaction Station	230V	
RR60011	25mm x 10 Position High Temp Metz Reaction Station	230V	
RR60012	24mm x 10 Position High Temp Metz Reaction Station	110V	
RR60013	25mm x 10 Position High Temp Metz Reaction Station	110V	
25 Position Heated Metz Reaction Stations			
RR60014	24mm x 25 Position Metz Reaction Station	230V	
RR60015	25mm x 25 Position Metz Reaction Station	230V	
RR60016	24mm x 25 Position Metz Reaction Station	110V	
RR60017	25mm x 25 Position Metz Reaction Station	110V	
24 Position Heated Metz Reaction Stations			
RR60018	24mm x 24 Position Metz Reaction Station	230V	
RR60019	25mm x 24 Position Metz Reaction Station	230V	
RR60020	30mm x 24 Position Metz Reaction Station	230V	
RR60021	24mm x 24 Position Metz Reaction Station	110V	
RR60022	25mm x 24 Position Metz Reaction Station	110V	
RR60023	30mm x 24 Position Metz Reaction Station	110V	
50 Position Heated Metz Reaction Stations			
RR60024	24mm x 50 Position Metz Reaction Station	230V	
RR60025	25mm x 50 Position Metz Reaction Station	230V	
RR60026	24mm x 50 Position Metz Reaction Station	110V	
RR60027	25mm x 50 Position Metz Reaction Station	110V	

*24mm systems feature 25mm wells with reducing adaptors/sleeves for 24mm tubes at no extra cost

Cat No	Description	Voltage	Price
Forced Air Reflux Modules			
RR60403	10 Position Forced Air Reflux Module, 24 & 25mm	230V	
RR60404	10 Position Forced Air Reflux Module, 24 & 25mm	110V	
RR60405	25 Position Forced Air Reflux Module, 24 & 25mm	230V	
RR60406	25 Position Forced Air Reflux Module, 24 & 25mm	110V	
RR60407	50 Position Forced Air Reflux Module, 24 & 25mm	230V	
RR60408	50 Position Forced Air Reflux Module, 24 & 25mm	110V	

Liquid Cooled Reflux Modules

RR60409	10 Position Liquid Cooled Reflux Module, 24mm		
RR60410	10 Position Liquid Cooled Reflux Module, 25mm		
RR60411	25 Position Liquid Cooled Reflux Module, 24mm		
RR60412	25 Position Liquid Cooled Reflux Module, 25mm		
RR60413	50 Position Liquid Cooled Reflux Module, 24mm		
RR60414	50 Position Liquid Cooled Reflux Module, 25mm		

24mm reflux modules feature 25mm holes with reducing adaptors/sleeves for 24mm tubes at no extra cost

Silicone Membranes

RR60222	Replacement Silicone Membrane	10	
RR60223	Replacement Silicone Membrane	5	
RR60224	Replacement Silicone Membrane	5	

Robotics Specifications

- Compact footprint and low profile fit on most robotic beds.
- Uniform well spacing in X-Y array
- RS232 interface allows precise control of heating and stirring cycles via external software as part of a fully automated synthesis system.
- Using RS485 interface up to 10 units can be linked via the RS485 port and then individually controlled allowing for unattended operation, speed variation and temperature ramping over user-defined time periods.

Reducing Sleeves & Adaptors

Aluminium 16mm, 20mm and 24mm diameter reducing sleeves/adaptors allow the standard 25mm diameter wells of the Metz Reaction Stations to be used with a wider selection of reaction tube diameters. Custom reducing sleeve/adaptor sizes available on request.



NEW Disposable PVC Keypad Covers

These disposable covers are available for all of the Metz units. They are made from a chemical resistance clear PVC plastic and fit snugly over the keypad. Designed to protect the keypad and display from dirt, dust and chemical attack. Each cover has self-adhesive tabs to secure it to the unit. For further information please contact your local supplier.



Ideal for synthesising building blocks and process development applications

Technical Specifications

Depth	310mm
Width	243mm
Height	135mm
Positions	6
Well Diameter	57.5mm
Stirring Speed	400 to 2000rpm
Temp. Range	Ambient +5°C to 150°C
Temp. Stability	Better than 0.5°C
Voltage	230/110 VAC
	50/60 Hertz
Computer Interface	None
Shipping Weight	5 Kg
Heat up to max.	15 mins
Safety	Thermal Cut Out



6 Position Metz Parallel Reaction Station™

Unique glass reflux system allows parallel synthesis and refluxing in 6 x 150ml Reaction Vessels



Applications Include...

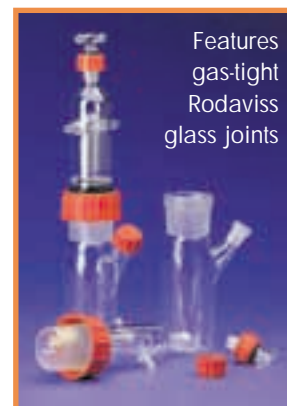
Parallel Chemical Synthesis, Combinatorial Chemistry, Catalyst Development, Process Development and Optimisation.

6 Position Metz Reaction Station Features

- Microprocessor temperature control with LED display to 1°C.
- Temperature range: ambient +5°C to 150°C, with temperature stability better than 0.5°C.
- Microprocessor controlled stirring from 400rpm to 2000rpm, with a magnetic stirrer for each position. Provides excellent magnetic coupling for stirring even the most viscous samples.
- Features stirring ramp/soft start to ensure stirrer bar coupling.
- Standard wells are 60mm deep (other depths available on request).
- Standard wells accept 57.5mm ø vessels. Reducing sleeves for 47mm diameter tubes are available, (other well sizes on request).

Parallel Glass Reaction-Reflux System

- The high efficiency double surface condensers combined with heavy-duty flat-bottomed 150ml reaction vessels allow refluxing reactions to be performed with the minimum of solvent loss.
- Reaction vessels may be connected in series or parallel.
- Each vessel has a Rodaviss septum side-arm allowing additions or aliquots to be performed during synthesis, via the septum or with a pressure equalising funnel.
- Optional stainless steel support bracket, this allows for easy condenser removal after synthesis - POA.



Features gas-tight Rodaviss glass joints

Inert Reactions

- For air sensitive chemistry the glass assembly allows reactions to be performed under an inert atmosphere by applying Argon or Nitrogen across all 6 positions simultaneously.

Cat No	Description	Voltage	Price
RR60008	6 Position Metz Reaction Station	230V	
RR60009	6 Position Metz Reaction Station	110V	
RR60500	150ml Parallel Glass Reflux Assembly		
Recommended Accessories			
RR60216	Reducing Sleeves/Adaptors 57.5 to 47mm, pk 6		
RR98091	17.5 x 17.5mm Rare Earth Medium Cross Shaped Stirring Bar, pk 20		
RR98097	15 x 11mm diameter Large Rare Earth Elliptical Stirring Bar, pk 20		
RR98094	Stirring Bar Retriever, 350mm		

Custom glassware designs/adaptations are easily accommodated.

Metz Reaction Tubes & Accessories

Glass Reaction Tubes

- High quality borosilicate glass reaction tubes.
- 16mm, 20mm, 24mm and 24.5mm (one inch) diameters
- Threaded with caps or plain tops and with round or flat bottoms.

Cat No	Description	Pk Qty	Price
RR320724	24.5mm x 115mm Heavy Duty Flat Bottom, Cap & Septum	12	
RR320824	24.5mm x 115mm Heavy Duty Flat Bottom, Cap & Septum	120	
RR320924	24.5mm x 150mm Heavy Duty Flat Bottom, Cap & Septum	12	
RR321024	24.5mm x 150mm Heavy Duty Flat Bottom, Cap & Septum	120	
RR320324	24mm x 150mm Flat Bottom, Cap & Septum	12	
RR320424	24mm x 150mm Flat Bottom, Cap & Septum	120	
RR320524	24mm x 150mm Round Bottom, Cap & Septum	12	
RR320624	24mm x 150mm Round Bottom, Cap & Septum	120	
RR320124	24mm x 150mm Flat Bottom, Plain Top	12	
RR320224	24mm x 150mm Round Bottom, Plain Top	12	
RR320120	20mm x 150mm Flat Bottom, Plain Top	12	
RR320220	20mm x 150mm Round Bottom, Plain Top	12	
RR320116	16mm x 150mm Flat Bottom, Plain Top	12	
RR320216	16mm x 150mm Round Bottom, Plain Top	12	



Reducing Sleeves & Adaptors

- Aluminium 16mm, 20mm and 24mm diameter reducing sleeves/adaptors allow the standard 25mm diameter wells of the Metz Reaction Stations to be used with a wider selection of reaction tube diameters.
- 57.5mm to 47mm reducing sleeves/adaptors for 6 position Metz.
- Custom reducing sleeve/adaptor sizes available on request.

Cat No	Description	Pk Qty	Price
RR60201	Reducing Sleeves/Adaptors 25 to 20mm	10	
RR60203	Reducing Sleeves/Adaptors 25 to 16mm	10	
RR60204	Reducing Sleeves/Adaptors 25 to 24mm	10	
RR60206	Reducing Sleeves/Adaptors 25 to 20mm	25	
RR60208	Reducing Sleeves/Adaptors 25 to 16mm	25	
RR60210	Reducing Sleeves/Adaptors 25 to 20mm	50	
RR60212	Reducing Sleeves/Adaptors 25 to 16mm	50	
RR60213	Liquid Reflux Reducing Sleeves/Adaptors 25 to 24mm	10	
RR60214	Liquid Reflux Reducing Sleeves/Adaptors 25 to 24mm	25	
RR60215	Liquid Reflux Reducing Sleeves/Adaptors 25 to 24mm	50	
RR60216	Reducing Sleeves/Adaptors 57.5 to 47mm	6	



PTFE Magnetic Stirring Bars

- PTFE Stirring Bar Evaluation Kit - Includes three each of six stirring bar styles.
- Rare Earth Medium Cross Shaped Stirring Bar creates a deep vortex and are ideal for stirring resins and viscous samples.
- Rare Earth Elliptical Stirring Bar - creates a vigorous stirring even for viscous samples.
- Octagonal Stirring Bar - General purpose stirring bars available in two sizes.
- Small Cross Shaped Stirring Bar creates a vortex even at slow speeds.

Cat No	Description	Pk Qty	Price
1	RR98070 13mm x 10mm diameter Large Octagonal Stirring Bar	20	
	RR98071 12mm x 7mm diameter Small Octagonal Stirring Bar	40	
2	RR98075 10mm diameter x 5.5mm Small Cross Shaped Stirring Bar	40	
3	RR98091 17.5 x 17.5mm Rare Earth Medium Cross Shaped Stirring Bar	20	
	RR98094 Stirring Bar Retriever, 350mm	1	
	RR98095 PTFE Stirring Bar Evaluation Kit, 3 of each type	18	
	RR98096 10 x 7mm diameter Small Rare Earth Elliptical Stirring Bar	40	
4	RR98097 15 x 11mm diameter Large Rare Earth Elliptical Stirring Bar	20	





10 Position Metz Reaction Station

24 Position Super Low Temperature Reaction Station chills down to -80°C



10 Position Cooled Metz Reaction Station

Cooled Metz Reaction Stations™

10, 24, 25 and 50 position cooled/heated and stirred reaction stations with optional inert gas covers

Applications Include...

Parallel Chemical Synthesis, Combinatorial Chemistry, Sample Incubation, Sample Concentration, Process Development and Optimisation.

Cooled Metz Reaction Station Features

- 10, 24, 25 and 50 position units all with RS232/485 Computer Interface.
- Microprocessor temperature control with LED display to 1°C.
- Cooled Units: -30°C to 50°C/70°C, with temperature stability +/- 0.5°C.
- 24 Position Super Cooled Unit: -80°C to 50°C, with temperature stability +/- 0.5°C.
- Microprocessor controlled stirring from 400rpm to 2000rpm, with a magnetic stirring bar for each position. Provides excellent magnetic coupling for stirring even the most viscous samples.
- Features adjustable stirring ramp/soft start to ensure stirrer bar coupling.
- Safety temperature cut-out eliminates runaway conditions.
- Standard wells are 40mm deep (with other depths available on request).
- Standard wells are 25mm * diameter. With reducing sleeves/adaptors for 16mm, 20mm and 24mm diameter tubes available as standard, (other reducing sleeve/adaptor sizes available on request).

Cooled Reaction Stations

These specially constructed Reaction Stations are combined with a factory fitted chiller unit. Units are capable of reducing the magnetically stirred samples to -30°C.

The separate chiller unit is connected to the Reaction Station via a flexible tube approximately one metre in length. Chillers use CFC free refrigerant gas to ensure many years of reliable operation.



24 Position Super Low Temperature Metz Cooled Reaction Station

Features improved insulation and a high power chiller unit for operation down to -80°C.

Unique design eliminates problems with ice formation

Ice formation around the reaction block and reaction tubes can be a significant problem at low temperatures, particularly if unattended robotic operation is required. The Metz Cooled Reaction Stations overcome this problem by introducing inert gas through an inlet port just above the cooled chamber, flooding around the reaction tubes and preventing moisture in the air from freezing onto the tubes or block. 10 position and 24 position Super Low units also feature spring loaded flaps which remain closed when any tube position is vacant.

Purge Hood for inert reactions

Optional purge hoods, which mount directly on top of the cooled reaction stations provide an inert atmosphere for reaction tubes. Hoods feature an integral hinged lid with holes corresponding to each reaction position. The holes are covered by a replaceable silicone membrane, which can be pierced by autosampler needles for automatic reagent addition under inert conditions.

Safety First

The well insulated design of all Metz Reaction Stations ensures that the outer casing is always cool-to-the-touch, whilst a thermal cut-out eliminates runaway conditions. The integral heating/cooling block is coated in Teflon to protect from chemical splashes.

Technical Specifications

	50 Position Chilled	25 Position Chilled	10 Position Chilled	24 Position Super Low
Depth	540	360	307	570
Width	360	265	160	340
Height	160	160	170	250
Soft Start	Adjustable 0-10	Adjustable 0-10	Fixed	Adjustable 0-10
Temp. Range	-30°C to +50°C	-30°C to +50°C	-30°C to +70°C	-80°C to +50°C
Interface	RS232	RS232	RS232/485	RS232
Weight - Station	20Kg	17Kg	15Kg	28Kg
Weight - Chiller	20Kg	20Kg	20Kg	43Kg
Heating to max.	60 mins	60 mins	40 mins	70 mins
Cooling to min.	60 mins	60 mins	40 mins	260 mins

Cat No	Description	Voltage	Price
10 Position Cooled Metz Reaction Stations			
RR60100	24mm x 10 Position Cooled Metz Reaction Station	230V	
RR60101	25mm x 10 Position Cooled Metz Reaction Station	230V	
RR60102	24mm x 10 Position Cooled Metz Reaction Station	110V	
RR60103	25mm x 10 Position Cooled Metz Reaction Station	110V	
25 Position Cooled Metz Reaction Stations			
RR60104	24mm x 25 Position Cooled Metz Reaction Station	230V	
RR60105	25mm x 25 Position Cooled Metz Reaction Station	230V	
RR60106	24mm x 25 Position Cooled Metz Reaction Station	110V	
RR60107	25mm x 25 Position Cooled Metz Reaction Station	110V	
24 Position -80°C Super Low Temperature Metz Reaction Stations			
RR60112	24mm x 24 Position -80°C Cooled Metz Reaction Station	230V	
RR60113	25mm x 24 Position -80°C Cooled Metz Reaction Station	230V	
RR60114	24mm x 24 Position -80°C Cooled Metz Reaction Station	110V	
RR60115	25mm x 24 Position -80°C Cooled Metz Reaction Station	110V	
50 Position Cooled Metz Reaction Stations			
RR60116	24mm x 50 Position Cooled Metz Reaction Station	230V	
RR60117	25mm x 50 Position Cooled Metz Reaction Station	230V	
RR60118	24mm x 50 Position Cooled Metz Reaction Station	110V	
RR60119	25mm x 50 Position Cooled Metz Reaction Station	110V	
Purge Hood			
RR60226	Purge Hood for 10 Position Cooled Reaction Stations	230V	
RR60227	Purge Hood for 25 Position Cooled Reaction Stations	230V	
RR60228	Purge Hood for 50 Position Cooled Reaction Stations	230V	

Metz Reaction Stations are compact and simple to operate with easy integration to robotic systems

Robotics Specifications

- Compact footprint and low profile fit on most robotic beds.
- Uniform well spacing in X-Y array
- RS232 interface allows precise control of heating and stirring cycles via external software as part of a fully automated synthesis system.
- Using RS485 interface up to 10 units can be linked via the RS485 port and then individually controlled allowing for unattended operation, speed variation and temperature ramping over user-defined time periods.

Reducing Sleeves & Adaptors

Aluminium 16mm, 20mm and 24mm diameter reducing sleeves/adaptors allow the standard 25mm diameter wells of the Metz Reaction Stations to be used with a wider selection of reaction tube diameters. Custom reducing sleeve/adaptor sizes available on request.



Borosilicate Glass Reaction Tubes & PTFE Stirring Bars

High quality borosilicate glass reaction tubes with caps or plain tops and with round or flat bottoms. 16mm, 20mm, 24mm and 24.5mm (one inch) diameters available.

See Page 6.



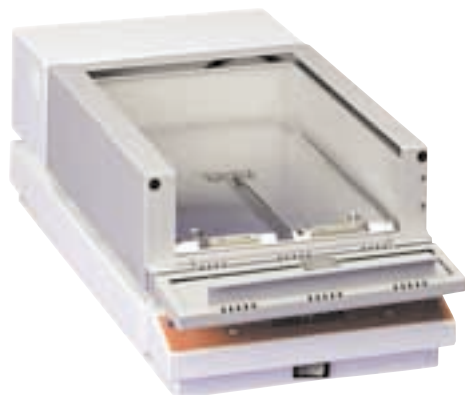
* All 24mm Metz Reaction Stations feature 25mm wells with reducing adaptors/sleeves for 24mm tubes at no extra cost



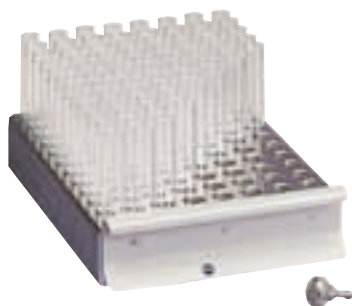
Unique heating shaking action is ideal for solid phase synthesis as it does not damage the resin.

Technical Specifications

Depth	508mm
Width	235mm
Height	165mm
Shaking Speed	100 to 600rpm
Temp. Range	Ambient +5°C to 150°C
Temp. Display	LCD +/-1°C
Temp. Stability	Better than +/-0.5°C
Voltage	230/110 VAC
	50/60 Hertz
Computer Interface	RS232 and RS485
Shipping Weight	14 Kg
Heat up to max.	60 mins
Safety	Thermal Cut Out



Features removable aluminium reaction blocks



Popular 96 position block holds 16mm tubes

Metz Heater-Shaker Reaction Station™

Multiple position heating and shaking reaction station with removable heating blocks for reaction tubes or micro titer plates

Applications Include...

The Metz Heater-Shaker is designed for all aspects of Parallel Synthesis, Combinatorial Chemistry, Optimisation, Process Development as well as Enzyme Reactions, Incubation, DNA Denaturation and HPLC Sample Concentration.

Metz Heater-Shaker Features

- Precise heating control; ambient +5°C to 150°C
- Ramp Rate; +25°C to 80°C in 30 minutes, +25°C to 150°C in only 60 minutes.
- Temperature variation between wells of +/-0.5°C.
- Microprocessor temperature control with LCD temperature display to +/-1°C.
- Microprocessor control of shaking from 100 to 600 RPM with LCD display.
- Soft start or ramping feature to allow slow build-up (from 0-10 minutes) to set speed minimises sample damage.
- Compact orbital motion has a 4mm amplitude.
- Auto-Park Feature - Block always returns to the same X-Y position for accurate alignment with robotic needles.
- Computer interface allows for cycled reactions via RS232 and RS485.
- Economy units - without computer interface and/or limited to 100°C available.

Cat No	Description	Voltage	Price
RR60300	100°C Metz Heater-Shaker Maximum Temp	230v	
RR60301	100°C Metz Heater-Shaker Maximum Temp	110v	
RR60302	150°C Metz Heater-Shaker Maximum Temp	230v	
RR60303	150°C Metz Heater-Shaker Maximum Temp	110v	
RR60304	150°C Metz Heater-Shaker Maximum Temp, with RS232 Interface	230v	
RR60305	150°C Metz Heater-Shaker Maximum Temp, with RS232 Interface	110v	

Wide range of Reaction Block Modules

Removable aluminium reaction block modules allows a single unit to be used with a variety of tube and plate configurations. Choose from six standard reaction blocks;

- RR60306 - 96 position block for 16mm OD reaction tubes
- RR60307 - 40 position block for 24mm OD reaction tubes
- RR60308 - 4 position block for Standard Micro Titer Plates
- RR60309 - 4 position block for Titan PTFE Micro Titer Plates
- RR60310 - block for 2 x Charybdis Calypso systems
- RR60312 - 90 position block for 1.5ml Micro Tubes

96 Position Reaction Block Module for 16mm Reaction Tubes

This popular block holds 96 x 16mm ø tubes (12 rows of 8) gripped by internal 'O' rings. Each tube provides a reaction volume of up to 7ml per tube, with the maximum recommended volume of resin per tube being 200mg.

Custom reaction block modules are available for any size of reaction tube or micro titer plate including most micro titer reaction block systems.

Easy integration with robotic systems

Unique shaking
and heating action
is ideal for solid
and solution
phase parallel
synthesis

Removable
reaction blocks
allow a single unit
to be used with a
variety of tube and
plate configurations.



Robotics Specifications

- Compact footprint 235mm x 508mm deep and low profile 165mm fits neatly on leading robotic and auto-sampler systems.
- Auto-Park Feature - Block always returns to the same X-Y position for accurate alignment with robotic needles.
- RS232 interface allows precise control of heating and stirring cycles via external software as part of a fully automated synthesis system.
- Using RS485 interface up to 10 units can be linked via the RS485 port and then individually controlled allowing for unattended operation, speed variation and temperature ramping over user-defined time periods.

Other Titan® PTFE Micro Titer Plates available

Titan plates are available in a wide range of well formats and volumes. All Titan plates are fabricated from the highest grade PTFE.

PTFE (Polytetrafluoroethylene) is a high performance fluoropolymer offering almost total chemical resistance and outstanding thermal stability up to 300°C. Sample evaporation is reduced during heating and agitation via dedicated PTFE lids.



Cat No	Description	Price
RR60306	96 position reaction block for 16mm OD reaction tubes	
RR60307	40 position reaction block for 24mm OD reaction tubes	
RR60308	4 position reaction block for Standard Micro Titer Plates	
RR60309	4 position reaction block for Titan PTFE Micro Titer Plates	
T-1100F	1.1ml x 96 well Titan PTFE Micro Titer Plate	
T-8L	PTFE Lid for T-1100F Titan PTFE Micro Titer Plate	
RR60310	Reaction block for 2 x Charybdis Calypso systems	
RR60312	90 position reaction block for 1.5ml Micro Tubes	
Reaction Tubes (also see page 6)		Pk Qty
RR320524	24mm x 150mm Round Bottom, Cap & Septum	12
RR320624	24mm x 150mm Round Bottom, Cap & Septum,	120
RR320124	24mm x 150mm Flat Bottom, Plain Top	12
RR320224	24mm x 150mm Round Bottom, Plain Top	12
RR320116	16mm x 150mm Flat Bottom, Plain Top	12
RR320216	16mm x 150mm Round Bottom, Plain Top	12



Titan Resin Loader™

The Titan Resin Loader is designed for the efficient parallel dispensing of resins into a variety of 96 well formats. Developed by chemists at SmithKline Beecham Pharmaceuticals the Titan Resin Loader greatly speeds up the process of loading small amounts of resin into 96 arrays and avoids the use of toxic solvents.



Stacker Parallel Purification System™

The Stacker provides a simple and cost effective technique for the parallel purification of samples in a standard 24 well micro titer plate footprint using filtration, phase separation and SPE techniques. The 24 well micro titer footprint is easily interfaced with the GreenHouse Parallel Synthesiser.

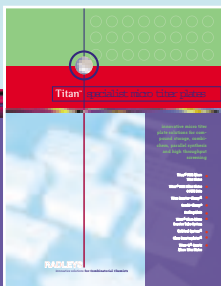


Carousel Reaction Station™

Developed by medicinal chemists at GlaxoWellcome, the patented Carousel is the first multiple parallel synthesis system that is truly designed for personal use. 12 parallel solution phase or solid supported reagent based reactions can be performed with stirring, heating and refluxing under an inert atmosphere. The affordable Carousel is compact and easy to use making it perfect for use by individual chemists in their own fume cupboard.



A 24 position personal parallel synthesiser designed by medicinal chemists at GlaxoWellcome



Innovative micro titer plate solutions for compound storage, combi-chem, parallel synthesis and HTS

Radleys Discovery Technologies are specialists in combi-chem innovation...

As a dynamic organisation Radleys Discovery Technologies are best able to react to the needs of this constantly developing market sector. Radleys Discovery Technologies specific areas of expertise is focused on parallel synthesis and parallel purification consumables and apparatus. The essential products that are the cornerstone of your parallel chemistry program.

© Radleys Discovery Technologies 2000

