

Thermo Scientific STEM Reaction Blocks

Thermo Scientific STEM Omni-Reacto Stations

Thermo Scientific STEM Reaction Blocks

Thermo Scientific STEM Omni-Reacto Stations

Base unit

The heart of the Omni-Reacto Station is its modular design. With its modular design one base unit can accommodate sample volumes ranging from 2 to 1000 ml. All heating blocks, glassware, and reflux heads are interchangeable and the footprint is so compact that you can place the unit into any fume hood or onto any bench space.



STEM Reacto Station Series 1000

– Ten places

The OS1025 10 place unit will allow up to 10 reactors with 2 - 20 ml working volumes.

STEM Reacto Station Series 6000

– Six places

The OS6000 6 place unit will allow up to 6 reactors with 50 - 250 ml working volumes.

STEM Reacto Station Series 10000

– Single place

The OS10000 Single place unit will allow 1 reactor with 250 - 1000 ml working volumes.



Build your own parallel synthesis system in five easy steps:

- Step 1: Order an Omni-Controller
- Step 2: Order an Omni-Heater Cartridge
- Step 3: Order an Omni-Cooling Plug
- Step 4: Order Omni-Reaction Vessels
- Step 5: Order an Omni-Reflux Head



Thermo Scientific STEM Reaction Blocks

Thermo Scientific STEM Omni-Reacto Stations

Omni Temperature Sensor

For fast and more precise temperature control. The temperature probe can be inserted either into a machined pocket in the reaction block or via a thermocouple pocket directly into one of the reaction vessels. The temperature sensor attaches directly into the Omni-Controller.

Omni Gas tight PTFE Caps

By using a simple bi directional open/close lever each reaction vessel can be controlled separately. Each vessel cap has a septum to allow sampling at each vessel position.

Omni Reflux Head

Efficient condensing and refluxing, for samples up to 25 ml is provided through the use of a liquid cooled aluminium reflux head. Cooling is introduced through the inlet/outlet ports. Individual reaction positions are numbered (1-10) for ease of tube and sample identification. A central gas inlet/outlet port combined with the gas-tight PTFE caps allow for a vacuum to be pulled and/or inert (nitrogen) to be ported into each individual tube.

Omni Reaction Vessels

24 mm and 25 mm x 150 mm threaded glass reaction vessels; Can handle volumes from 2-250 ml. Solutions can be added and removed through the top of the reaction vessel.

Omni-Cooling Plug

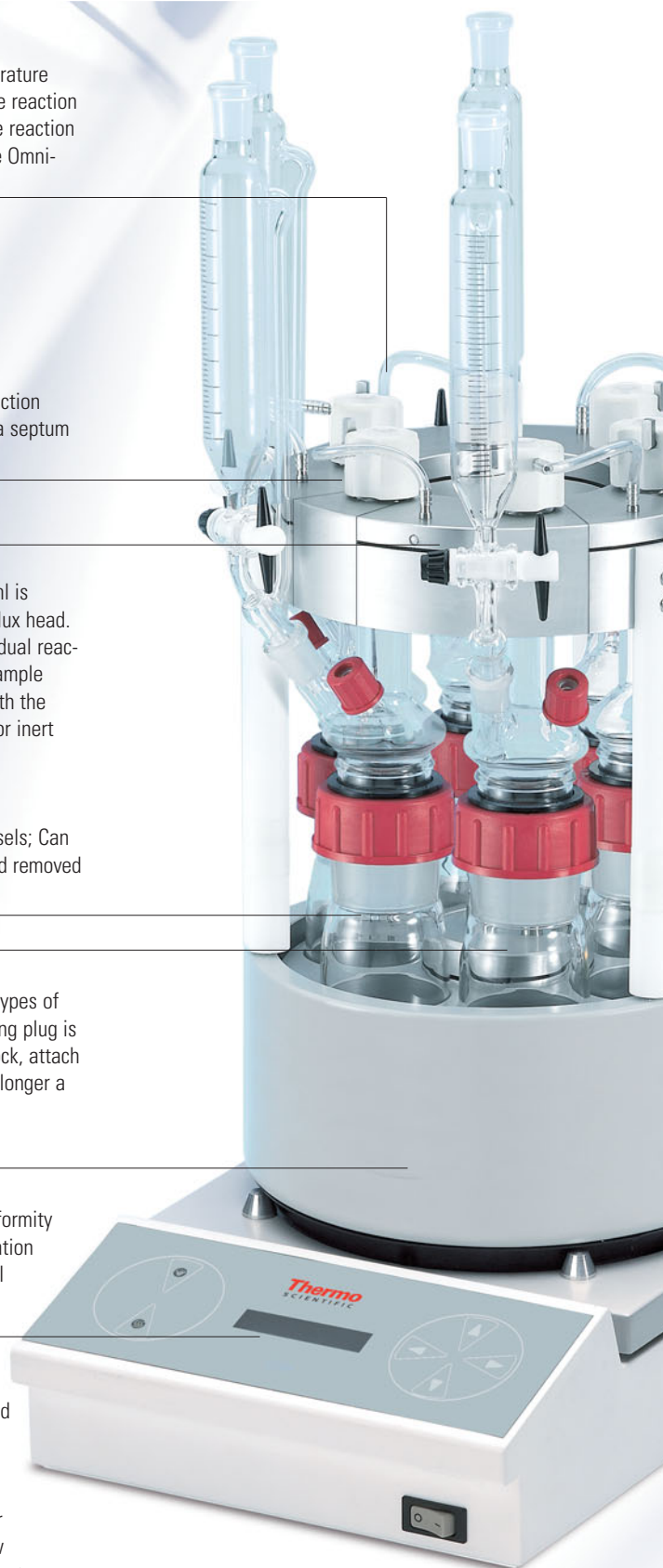
Allows unit to cool down to -30°C greatly expanding the types of chemistry you can perform with this equipment. The cooling plug is simple to use; insert the cooling plug into the reaction block, attach cooling lines to the inlet/outlet via quick disconnects. No longer a mess from melting ice.

Omni-Heater Cartridge

Encased reaction block ensures accurate temperature uniformity across the block. Unique patented air flow through ventilation slots beneath and around the rim of the case ensure a cool case temperature – allowing it to be safe to touch.

Omni-Controller

Used to control both temperature and stirring speed. The Omni-Controller is easy to operate; Temperature and speed can be separately enabled to provide complete control of reactions. Both temperature and speed are individually adjustable by depressing the up/down keys. The control panel (on the controller) has three indicator lights; "Power on", "Heater On" and "Stirrer On" so you can closely view the performance of your system. A three digit display indicates actual temperature from -30°C to 220°C. Stirring speed is reflected by simply touching the stirrer speed knob.



Thermo Scientific STEM Reaction Blocks

Thermo Scientific STEM Omni-Reacto Stations



Product Specifications

MODEL	Series 1025	Series 6050	Series 6100	Series 6250	Series 10250	Series 10500	Series 11000
Catalogue Number	OS1025	OS6050	OS6100	OS6250	OMS10250	OMS10500	OMS11000
V (For 115 Volt add X1 to cat. number)	230	230	230	230	230	230	230
Number of Positions (wells)	10	6	6	6	1	1	1
Well diameter mm (inch)	24.5/25.5 (0.96/1)	40.5 (1.59)	56.5 (2.22)	56.5 (2.22)			
Working Volume ml	2 - 25	5-50	50 - 100	100 - 250	250	500	1000
Controlled Block Temperature Range	Ambient to 220°C ¹	Ambient to 220°C ²	Ambient to 220°C ²	Ambient to 220°C ²	Ambient to 220°C	Ambient to 220°C	Ambient to 220°C
Stir Speed Range rpm	250 - 800	250 - 800	250 - 800	250 - 800	250 - 800	250 - 800	250 - 800
Overall Dimension W x D x H mm	300 x 300 x 300	300 x 300 x 450	300 x 300 x 450	300 x 500 x 550	300 x 300 x 650	300 x 300 x 650	300 x 300 x 650
inch	11.81 x 11.81 x 11.81	11.81 x 11.81 x 17.72	11.81 x 11.81 x 17.72	11.81 x 19.68 x 21.65	11.81 x 11.81 x 25.59	11.81 x 11.81 x 25.59	11.81 x 11.81 x 25.59
Shipping Weights (kit) Kg (Lbs.)	10 (22.05)	10 (22.05)	10 (22.05)	10 (22.05)	4.8 (10.58)	4.8 (10.58)	4.8 (10.58)

¹ -30°C is possible when using the ATS10114 Cooling Plug, ² -30°C is possible when using the ATS10112 Cooling Plug and suitable chiller

Accessories

DESCRIPTIONS			CAT. NO						
			Series1025	Series 6050	Series 6100	Series 6250	Series 10250	Series 10500	Series 11000
CombindedKit			OS1025	OS6050	OS61000	OS6250	OMS-KIT	OMS-KIT	OMS-KIT
Omni-Controller	230V		OMCA	OMCA	OMCA	OMCA	OMCA	OMCA	OMCA
Cartridge Heater Block	10 x 25 mm / 230V		OSD1025	OSD656	OSD656	OSD656	OM0250	OM0500	OM1000
Reflux/Inert Head	10 x 25 mm		ATS10115	ATS10116	ATS10116	ATS10116			
Vessel Cap	Pack of 10		ATS10142	Pack of 6	ATS10141	ATS10141	ATS10141		
Std. Glass Reaction Vessels	24 mm x 150 mm	Pack of 10	ATS10075	Pack of 6	50 ml: ATS10108	100 ml: ATS10092	250 ml: ATS10094		
Stirrer Bars	10 x 6 mm	Pack of 10	AZS4206	Pack of 6	ATS10097	ATS10097	ATS10097		
Sleeve 56-40				Pack of 6	ATS10110				
Reflux Reducer Column				Pack of 6	ATS10096	ATS10096	ATS10096		

Note: For 110 Volt product just add X1 to the catalogue number.

North America: USA/Canada +1 866 984 3766

Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, France +33 2 2803 2000, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 02 95059 434-254, Netherlands +31 76 571 4440, Nordic countries +358 9 329 100, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203
Asia: China +86 21 6865 4588 or +86 10 8419 3588, India +91 22 6716 2200, Japan +81 45 453 9220, Other Asian countries +852 2885 4613
Countries not listed: +49 6184 90 6940 or +33 2 2803 2000

www.thermo.com/stem

© 2008 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

BRO-LESTEMOM-0808

Thermo
SCIENTIFIC