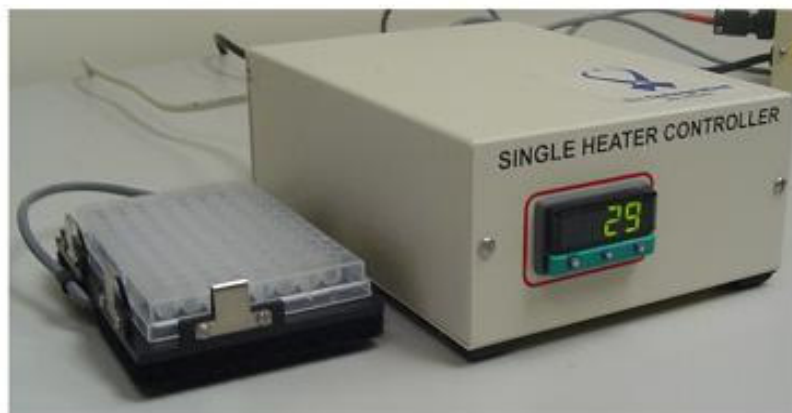


BIS REACTOR BLOCKS™

Optimized for SPE Applications



Personal Reactor Block



Standard Reactor / Peltier Block



Incubator Block



Compact Incubator Block



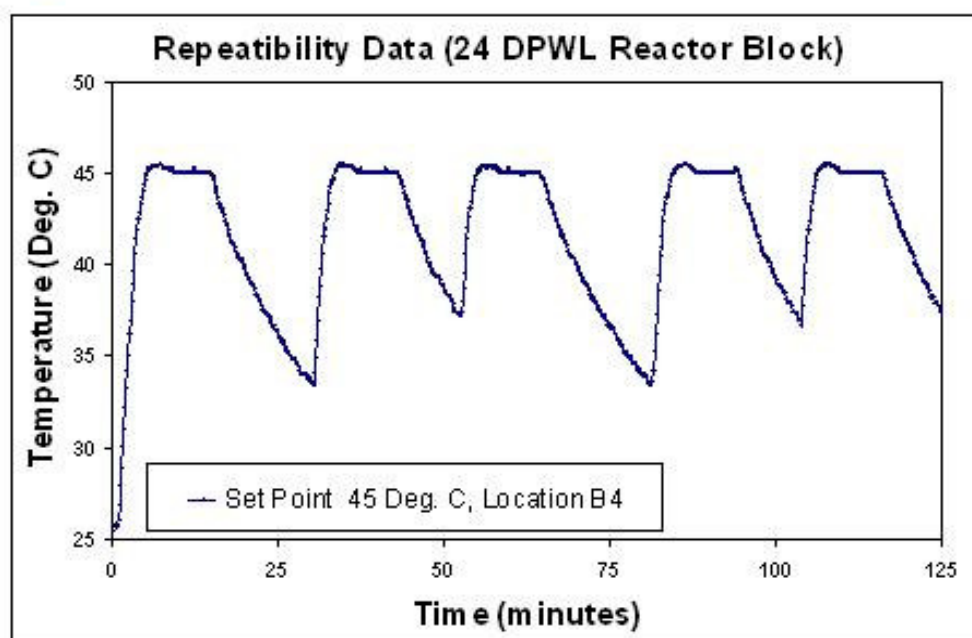
**External Heating / Cooling Block
(Standard / PCR Microplates)**

Bio Integrated Solutions Inc
1299 North Arbor Lane, Palatine IL 60067
(847) 712-3085 ; (815) 642-0975 (FAX)
www.biointsol.com

Key Features

- Fully calibrated for -10°C to 120°C operation
- Microplate footprint allows easy integration into conventional Liquid Handling Systems
- Incorporation of offset temperature accounts for the difference in temperature between the reactor surface and the inside of the plate
- User friendly GUI allows stand-alone use or automated applications using RS 232 communications protocols
- Elimination of edge effects using composite fin structure, oversized heater / cooling surfaces and non uniform heat transfer surface
- Elimination of heat losses and air gaps attained by using self locating springs that provide a downward force to hold the microplate
- Reflux modules prevent condensation of the liquid on the capmat surface
- Elimination of edge effect for low temperature applications
- RS 232 communications provides seamless control and logging of the reactor systems
- 24 VDC power input to the blocks enable incorporation with Liquid Handling Devices
- Timer function allow unattended operation of the reactor blocks

Repeatability Data

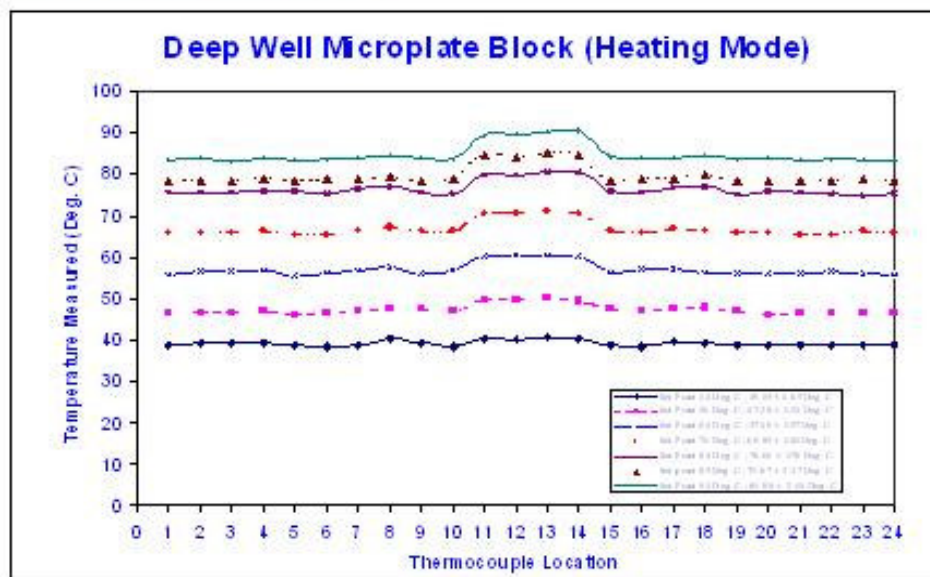




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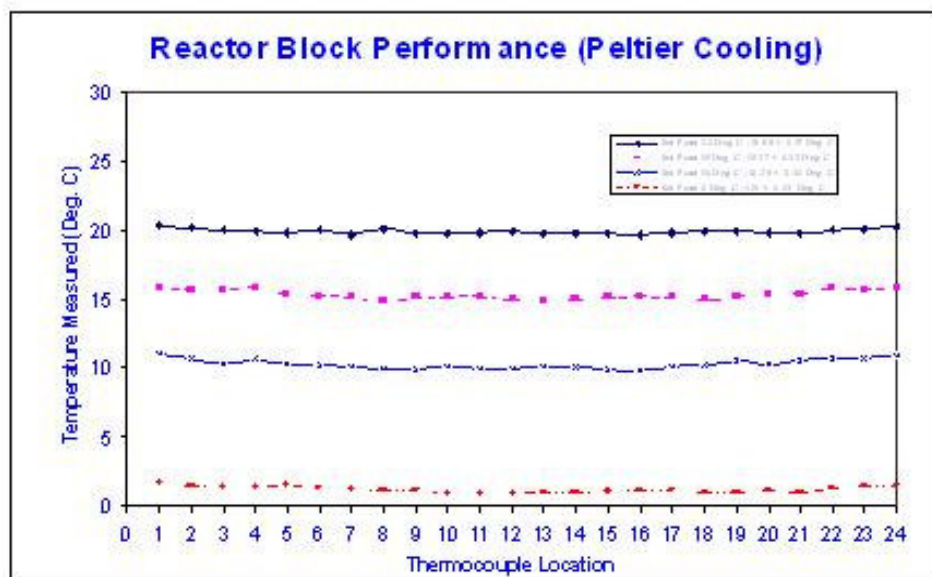
Empowering BioTechnology™

Elimination of Edge Effects



Thermocouple#	1	2	3	4	5	6	7	8	9	10	11	12
Location	A1	G1	B1	H1	A2	G2	B2	H2	A5	D1	D6	D7

Thermocouple#	13	14	15	16	17	18	19	20	21	22	23	24
Location	E6	E7	G6	D12	B11	G11	A11	H11	B12	G12	A12	H12



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Instrument Configuration	Compact Reactor Block	Reactor / Peltier Blocks	Incubator Blocks
Dimensions (Controller) W x D x H	3.500" x 6.000" x 3.000" (9.0 cm x 15.0 cm x 7.5 cm)	5.500" x 8.500" x 5.500" (14.0 cm x 20.0 cm x 14.0 cm)	NO CONTROLLER
Dimensions (Reactor Block) W x D x H	5.500" x 3.500" x 2.000" (14.0 cm x 9.0 cm x 5.0 cm)	5.500" x 3.500" x 5.500" (14.0 cm x 9.0 cm x 14.0 cm)	5.500" x 1.500" x 1.000" (14.0 cm x 9.0 cm x 2.5 cm)
Operating Range	Heating Only Standard Microplates RT—120 °C	Heating / Cooling Standard / Deepwell Plates -10 °C—120 °C	Heating Only Standard Microplates RT—120 °C (PRESET)
Controller Specifications	Manual / RS 232 Control External Universal Power Module	Manual / RS 232 Control 110 / 210 V Operation	NO CONTROLLER
Reactor Specifications	24 VDC Operation	24 VDC Operation	24 VDC Opeartion
Pricing Information	OEM Packages Available (847) 712-3085; info@biointsol.com	OEM Packages Available (847) 712-3085; info@biointsol.com	OEM Packages Available (847) 712-3085; info@biointsol.com

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