

## Reaction Blocks to be used with Stirring Hotplates

### Brochure 2022 (Excerpt)

#### Digital Stirring Hotplate



- Fast, precise temperature control from 0 to 370 °C
- Accurate stirring from 30 to 1.700 rpm
- Integral timer, 1 minute to 99 hours, 59 minutes, automatically turns heater off after the elapsed time
- Auto-reverse option for enhanced mixing
- Maintains set rpm even with viscosity changes
- Chemical- and scratch-resistant, ceramic-coated top, CerAlTop™, 135 mm diameter, aluminum alloy plate
- Bright white LED display for high-contrast easy reading
- Illuminated icons for heat, probe, setpoint, timer and autoreverse

Cat. No.	Description	Cs.
CG-1997-V-50E	Complete Digital Hotplate Kit with Temperature Probe, Vertical Support Rod, Boss Head and Support / Holding Rod	1
CG-1997-V-10E	Digital Hotplate with Temperature Probe only	1

#### One Size Reaction Blocks for Vials



- Designed to fit directly on 135 mm dia. circular top of a hotplate stirrer
- Aluminum construction offers excellent heat transfer without interfering with magnetic stirring
- Anodized for increased strength, durability and chemical resistance
- A thermowell is provided for insertion of a temperature sensor

Cat. No.	Description	Cs.
CG-1991-01	Reaction Block for 20 ml scintillation vials, 28 mm x 60 mm, black, 17 positions, 24 mm hole depth	1
CG-1991-02	Reaction Block for 30 ml scintillation vials, 28 mm x 73 mm, green, 17 positions, 30 mm hole depth	1
CG-1991-03	Reaction Block for 40 ml scintillation vials, 28 mm x 98 mm, orange, 17 positions, 43 mm hole depth	1
CG-1991-04	Reaction Block for 4 ml vials, 15 mm x 45 mm, gold, 48 positions, 19 mm hole depth	1
CG-1991-05	Reaction Block for 8 ml vials, 17 mm x 60 mm, blue, 34 positions, 25 mm hole depth	1
CG-1991-06	Reaction Block for 16 ml vials, 21 mm x 70 mm, red, 21 positions, 32 mm hole depth	1

#### TRI-Block™, Reaction Block for Vials



- Designed to fit directly on 135 mm dia. circular top of a hotplate stirrer
- Aluminum construction offers excellent heat transfer without interfering with magnetic stirring
- Anodized for increased strength, durability and chemical resistance
- A thermowell is provided for insertion of a temperature sensor

Cat. No.	Description	Cs.
CG-1991-T-10	Tri-Block™ Reaction Block, 11 positions each for 4 ml and 8 ml vials, 7 positions for 20 ml vials	1

## PIE-Blocks, Reaction Blocks for Vials and Flasks



- Designed to fit directly on 135 mm diameter circular top of a hotplate stirrer
- Safety holder allows up to four pie wedges on one hotplate and securely locks them together
- Interchangeable pie wedges and blocks permit various sized vials and flasks on one hotplate
- Aluminum construction offers excellent heat transfer without interfering with magnetic stirring
- Anodized for increased strength, durability and chemical resistance
- Colour coded for quick and easy identification
- A thermowell is provided for insertion of a temperature sensor

Cat. No.	Description	Included in CG-1991-P-01	Cs.
CG-1991-P-01	PIE-Block system, supplied with one safety holder and six pie wedges (including CG-1991-P-05, -P-10 to -P-15)		1
CG-1991-P-05	PIE-Block safety holder only, anodized green	Yes	1
CG-1991-P-10	Pie-Wedge for 20 ml scintillation vials, 28 mm x 60 mm, anodized black, 4 positions, 24 mm hole depth	Yes	1
CG-1991-P-11	Pie-Wedge for 30 ml scintillation vials, 28 mm x 73 mm, anodized green, 4 positions, 30 mm hole depth	Yes	1
CG-1991-P-12	Pie-Wedge for 40 ml scintillation vials, 28 mm x 98 mm, anodized orange, 4 positions, 43 mm hole depth	Yes	1
CG-1991-P-13	Pie-Wedge for 4 ml vials, 15 mm x 45 mm, anodized gold, 9 positions, 19 mm hole depth	Yes	1
CG-1991-P-14	Pie-Wedge for 8 ml vials, 17 mm x 60 mm, anodized blue, 8 positions, 25 mm hole depth	Yes	1
CG-1991-P-15	Pie-Wedge for 16 ml vials, 21 mm x 70 mm, anodized red, 4 positions, 32 mm hole depth	Yes	1
CG-1991-P-19	Pie-Wedge for 2 - 5 ml microwave vials, anodized turquoise, 8 positions	No	1
CG-1991-P-20	Pie-Wedge for 10 - 20 ml microwave vials, anodized berry, 4 positions	No	1
CG-1991-P-23	Pie-Wedge for 0,5 - 2 ml tapered microwave vials, anodized purple, 8 positions	No	1
CG-1991-P-30	Pie-Block for one 10 ml round bottom flask, anodized gold	No	1
CG-1991-P-32	Pie-Block for one 25 ml round bottom flask, anodized blue	No	1
CG-1991-P-34	Pie-Block for one 50 ml round bottom flask, anodized red	No	1
CG-1991-P-36	Pie-Block for one 100 ml round bottom flask, anodized black	No	1

## Reaction Blocks for NMR Tubes



- NMR Reaction Heating Block is designed to rest on a round or square top of a hotplate stirrer
- Offers a clean and safe alternative to heating NMR tubes in oil baths
- Aluminum construction offers excellent heat transfer

Cat. No.	Description	Cs.
CG-1991-N-10	Reaction Heating Block for 5 mm NMR tubes, anodized clear, 10 positions	1

## OPTITHERM® Reaction Blocks for Round Bottom and Recovery Flasks



- Designed to fit directly on 135 mm diameter circular top of a hotplate stirrer
- A safe and cost effective solution for replacing your existing oil bath and heating mantles
- PTFE shield on the unit reduces the exterior exposed surface temperature by as much as 100 °C
- Aluminum construction offers excellent heat transfer without interfering with magnetic stirring
- Anodized inserts for increased strength, durability and chemical resistance
- Colour-coded inserts for quick and easy identification
- Flask inserts must be purchased separately

Cat. No.	Description	For use with	Cs.
CG-1992-10	OPT100 Reaction Block, for 100 ml round bottom flasks or with inserts below		1
CG-1992-50	OPT500 Reaction Block, for 500 ml round bottom flasks or with inserts below		1
CG-1992-60	OPT1000 Reaction Block, for 1000 ml round bottom flasks or with inserts below		1
CG-1992-12	10 ml round bottom flask insert, anodized gold	OPT100	1
CG-1992-14	25 ml round bottom flask insert, anodized blue	OPT100	1
CG-1992-16	50 ml round bottom flask insert, anodized red	OPT100	1
CG-1992-53	200 ml round bottom flask insert, anodized turquoise	OPT500	1
CG-1992-54	250 ml round bottom flask insert, anodized clear	OPT500	1
CG-1992-55	300 ml round bottom flask insert, anodized black	OPT500	1
CG-1992-58	500 ml round bottom flask insert, anodized berry	OPT1000	1
CG-1992-R010	10 ml recovery flask insert, anodized orange	OPT100	1
CG-1992-R025	25 ml recovery flask insert, anodized green	OPT100	1
CG-1992-R050	50 ml recovery flask insert, anodized blue	OPT100	1
CG-1992-R100	100 ml recovery flask insert, anodized yellow	OPT500	1
CG-1992-R200	200 ml recovery flask insert, anodized red	OPT500	1
CG-1992-R500	500 ml recovery flask insert, anodized berry	OPT1000	1

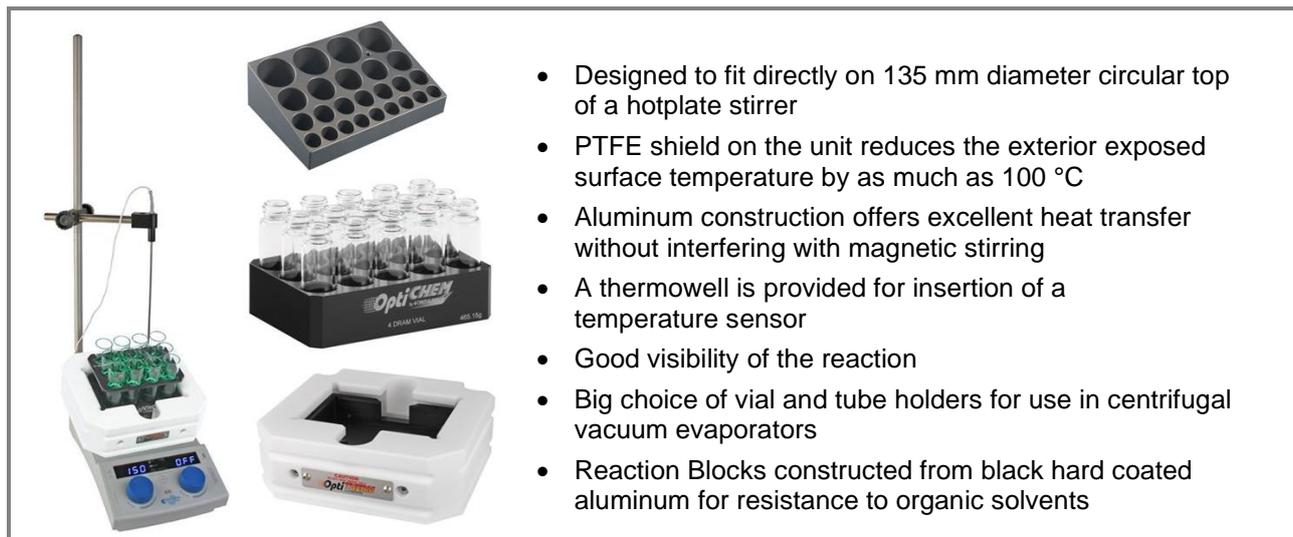
## OptiBlock Reaction Blocks for Parallel Synthesis



- Designed to fit directly on 135 mm diameter circular top of a hotplate stirrer
- Accepts up to eight different vial sizes
- PTFE faced silicone septa pad seals multiple vessels effectively
- Provides syringe access to all vessels
- Withstands aggressive solvents

Cat. No.	Description	Cs.
OP-5000-01	OptiBlock Reaction Block, locking base assembly only	1
OP-5000-09	OptiBlock Reaction Block, top locking plate, 8 x 30 mm, 96-well, green	1
OP-5000-10	OptiBlock Reaction Block, top locking plate, 15 x 45 mm, 4 ml vial, purple	1
OP-5000-12	OptiBlock Reaction Block, top locking plate, 17 x 60 mm, 8 ml vial, gold	1
OP-5000-14	OptiBlock Reaction Block, top locking plate, 21 x 70 mm, 16 ml vial, red	1
OP-5000-16	OptiBlock Reaction Block, top locking plate, 28 x 57 mm, 20 ml vial, blue	1
OP-5000-17	OptiBlock Reaction Block, top locking plate, 28 x 70 mm, 30 ml vial, silver	1
OP-5000-18	OptiBlock Reaction Block, top locking plate, 28 x 95 mm, 40 ml vial, orange	1
OP-5000-19	OptiBlock Reaction Block, top locking plate, 0,5 - 2 ml tapered and 2 - 5 ml round bottom microwave vial, green	1
OP-5000-20	OptiBlock Reaction Block, top locking plate, 10 - 20 ml microwave vial, turquoise	1
OP-5000-60	OptiBlock Reaction Block, PTFE faced silicone septa pads	10
OP-5000-K1	OptiBlock Reaction Block, start up kit, includes: OP-5000-01, -10, -12, -16 (one of each), OP-6600-05, -07, -11 (one of each), and OP-5000-60 (20 pieces)	1

## OPTICHEM® Reaction Blocks for Centrifugal Vacuum Evaporator Blocks



Cat. No.	Description	Cs.
OP-6700-01	Heater Block Adapter	1
OP-6600-04	Reaction Block for 8 x 30 mm Shell vial inserts, 96 positions	1
OP-6600-03	Reaction Block for 12 x 32 mm HPLC flat bottom vials, 48 positions	1
OP-6600-05	Reaction Block for 15 x 45 mm 4 ml flat bottom vials, 24 positions	1
OP-6600-07	Reaction Block for 17 x 60 mm 8 ml flat bottom vials, 24 positions	1
OP-6600-09	Reaction Block for 21 x 70 mm 16 ml flat bottom vials, 15 positions	1
OP-6600-11	Reaction Block for 28 x 57 mm 20 ml scintillation vials and 28 x 70 mm 30 ml scintillation flat bottom vials, 11 positions	1
OP-6600-12	Reaction Block for 28 x 70 mm 40 ml scintillation vials and 28 x 95 mm 60 ml scintillation flat bottom vials, 11 positions, two tier design	1
OP-6600-18	Reaction Block for 14 mm OD haystack sample storage vials, 24 positions	1
OP-6600-20	Reaction Block for 16 x 83 mm 0,5 - 2 ml tapered microwave vials, 24 positions, two tier design	1
OP-6600-21	Reaction Block for 16 x 83 mm 2 - 5 ml round bottom microwave vials, 24 positions, two tier design	1
OP-6600-22	Reaction Block for 28 x 83 mm 10 - 20 ml round bottom microwave vials, 8 positions, two tier design	1
OP-6600-30	Reaction Block for 10 x 75 mm round bottom tubes, 70 positions	1
OP-6600-34	Reaction Block for 12 x 75 mm round bottom tubes, 40 positions	1
OP-6600-36	Reaction Block for 13 x 100 mm round bottom tubes, 24 positions, two tier design	1
OP-6600-38	Reaction Block for 16 x 100 mm round bottom tubes, 24 positions, two tier design	1
OP-6600-40	Reaction Block for 18 x 100 mm round bottom tubes, 24 positions, two tier design	1
OP-6600-42	Reaction Block for 25 x 100 mm round bottom tubes, 12 positions, two tier design	1
OP-6600-90	Multi-Vial Reaction Block, 25 positions 4 positions for 20 - 30 ml vials, 5 positions for 8 ml vials or 2 - 5 ml microwave vials, 7 positions for 4 ml vials, 9 positions for 12 x 32 mm autosampler vials	1