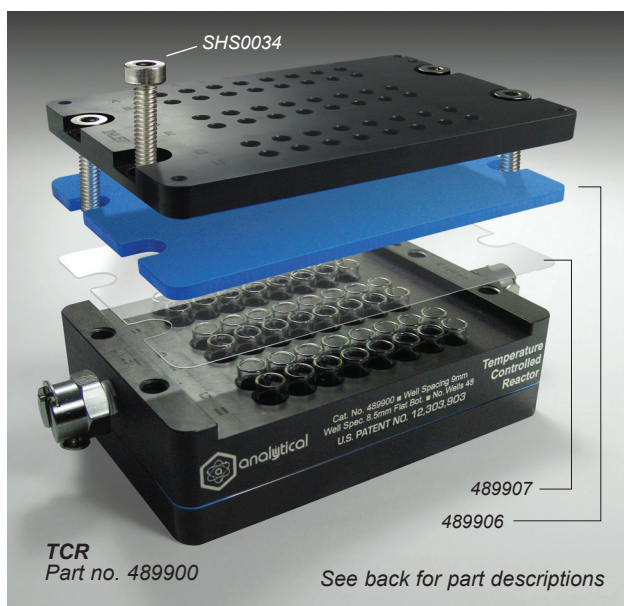


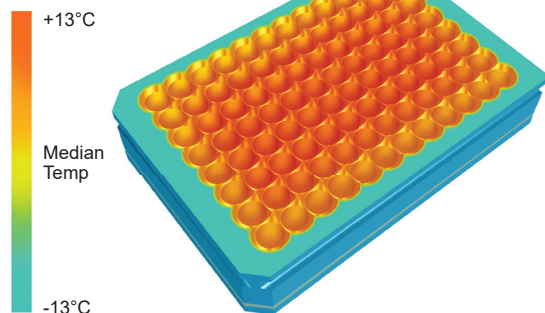
Screen & Scale-up with the Same Precision

Temperature Controlled Reactors (TCRs) for 8x30mm and 1 Dram Vials

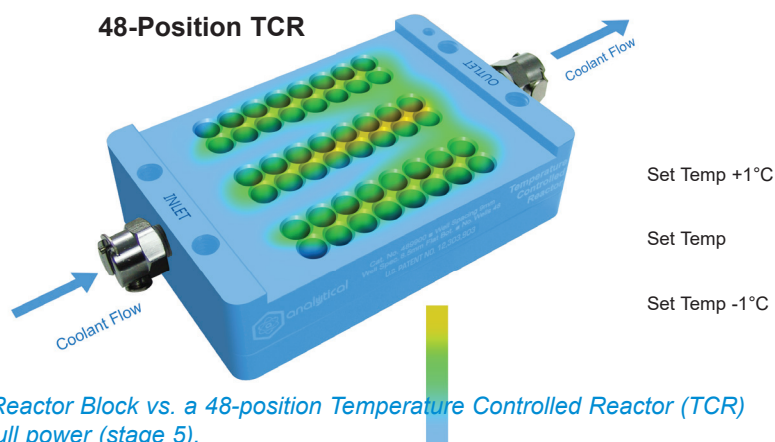


- Provides extremely uniform thermal control for high throughput experimentation (HTE) with a temperature difference of $\pm 1^\circ\text{C}$
- Capable of enhanced reproducibility in heating and cooling applications
- High quality leak-proof CPC fittings for quick and easy tubing connection and removal
- Compatible with a wide range of heat transfer fluids such as water (down to 5°C), ethylene glycol, polypropylene glycol and silicone-based fluids (ie SYLTHERM™)
- Designed to standard SLAS dimensions (127.75mm x 85.5mm) with standard 9mm well-to-well pitch
- Compatible with auto-samplers and other staples of high throughput chemistry
- 4mm holes in lid allow for use with most common autosampler needles
- Threaded holes (6-32) in lid for accessory attachment

First generation Photoredox Reactor (uncooled)



48-Position TCR



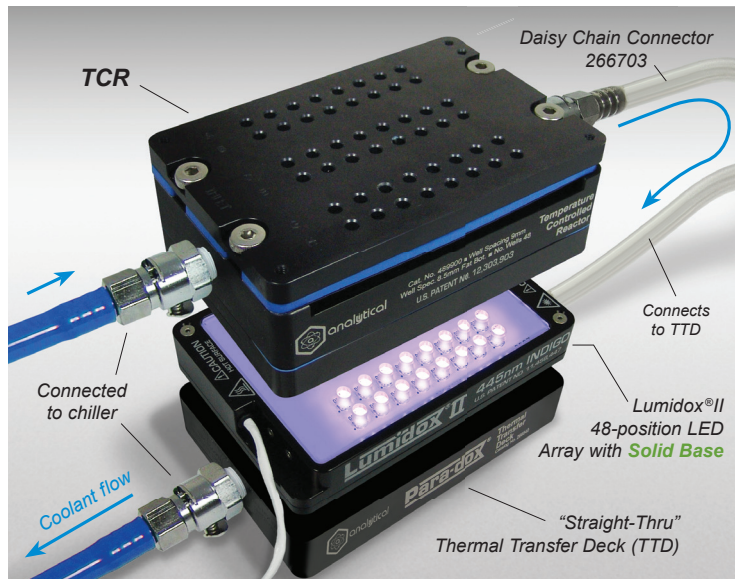
Simulated heat maps of a standard 96-well Photoredox Reactor Block vs. a 48-position Temperature Controlled Reactor (TCR) when used with a Lumidox® II 48 Position LED Array at full power (stage 5).



Standard 8 x 30mm vials, 48-position Photoredox, TCR
Requires Lumidox® II 48-position LED Array (see back page)



1 Dram vials, 24-position Photoredox, TCR
Uses our 24-position LED Array with 18mm spacing (see back page)



Typical configuration: 48-position TCR used in conjunction with a Lumidox®II 48-position **Solid Base** LED Array, a "Straight-Thru" Thermal Transfer Deck (for additional cooling of array) and connected to an external liquid chiller.

48-Position TCR for 8x30mm Vials

• 48 Wells (6 Rows of 8) • 9mm Well Spacing

Cat. No.	Description	Qty
489900	48-position TCR. Includes: PFA Film, Blue Fluorosilicone Rubber Sealing Mat, Rubber Gasket, Silicone O-Rings, CPC Fittings, PUR Tubing, Screws. <i>Vials not included.</i>	Each
489906	1/8" Thick, Blue Fluorosilicone Rubber Sealing Mats for TCR	5
489907	0.005" Thick PFA Sealing Films for TCR	25
489908	9mm OD, 6mm ID, 1.5mm Wide Silicone O-rings for TCR	50
SHS0034	18-8 SS Low-Profile Socket Head Screw w/ Hex Drive, 5/16"-18 Threads, 3/4" Long	5
84001-Case	1mL Clear Glass Shell Vials, 8 x 30mm	1000
488401	Well Tray for TCR, Pre-loaded with 48 8x30 Shell Vials (84001-CASE)	Ea

Lumidox®II 48-position LED Array for TCR with **Solid Base**

- Lens Mat surface
- Requires Thermal Transfer Deck (TTD) connected to chiller

Cat. No.	Wavelength (nm)	Cat. No.	Wavelength (nm)
LUM248LS365	UV365	LUM248LS470	470-BLUE
LUM248LS375	UV375	LUM248LS505	505-CYAN
LUM248LS385	UV385	LUM248LS527	527-GREEN
LUM248LS395	UV395	LUM248LS590	590-AMBER
LUM248LS405	UV405	LUM248LS630	630-RED
LUM248LS420	420-VIOLET	LUM248LSWHT	WHITE
LUM248LS445	445-INDIGO		



24-Position TCR for 1 Dram Vials

• 24 Wells (4 Rows of 6) • 18mm Well Spacing

Cat. No.	Description	Qty
249900	24-position TCR. Includes: PFA Film, Silicone Rubber Sealing Mat, Rubber Gasket, CPC Fittings, PUR Tubing, Screws. <i>Vials not included.</i>	Each
101247	Top Rubber Mats for Gen II 24-Well Reactors (with 18mm Spacing)	25
101248	Top PFA Films for Gen II 24-Well Reactors (with 18mm Spacing)	25
SHS0114	Socket Head Screws for Gen II 24-Well Reactors, 5/16"-18 Threads, 1-1/4" Long	5
31531-Case	13mm, 15 x 45mm, 4mL (1 Dram) Clear Glass Screw Vials	1000
31554-Case	13mm Black PP Solid Screw Caps with PTFE/F217 Liners	1000

Lumidox®II 24-position LED Array with 18mm Spacing, **Solid Base**

- Lens Mat surface
- Requires Thermal Transfer Deck (TTD) connected to chiller

Cat. No.	Wavelength (nm)	Cat. No.	Wavelength (nm)
LUM22418LS365	UV365	LUM22418LS470	470-BLUE
LUM22418LS375	UV375	LUM22418LS505	505-CYAN
LUM22418LS385	UV385	LUM22418LS527	527-GREEN
LUM22418LS395	UV395	LUM22418LS590	590-AMBER
LUM22418LS405	UV405	LUM22418LS630	630-RED
LUM22418LS420	420-VIOLET	LUM22418LSWHT	WHITE
LUM22418LS445	445-INDIGO		

Tech Tip

- **Temperature Controlled Reactor (TCR)*** - cools vials
- **Thermal Transfer Deck (TTD)*** - cools LED Array (solid base)
- **LED Array with solid base** - needs TTD and chiller for cooling
- * Connects to **External Liquid Chiller**, required

Additional Required Parts

Cat. No.	Description	Qty
266550	Para-dox® "Straight-Thru" Thermal Transfer Deck (TTD)	Each
266703	Daisy Chain Connector for TCR and "Straight-Thru" TTD	Each
TCubeEdge	Recirculating Chiller. Operating Range: 0°C - 65°C	Each



Temperature Transfer Cover for Gen II, 24-Well, 18mm Spacing Reactors

Perfect for those who prefer to cap their vials instead of sealing them with the standard aluminum cover, rubber mat and PFA film that come with the block assembly. When used in conjunction with a Thermal Transfer Deck (TTD) and external liquid chiller, the cover helps control excessive heat generated by a Lumidox II LED array.

Cat. No.	Description
249913	Temperature Transfer Cover for Gen II, 24-Well, 18mm Spacing Reactors
249800	24-Position TCR with Temperature Transfer Cover