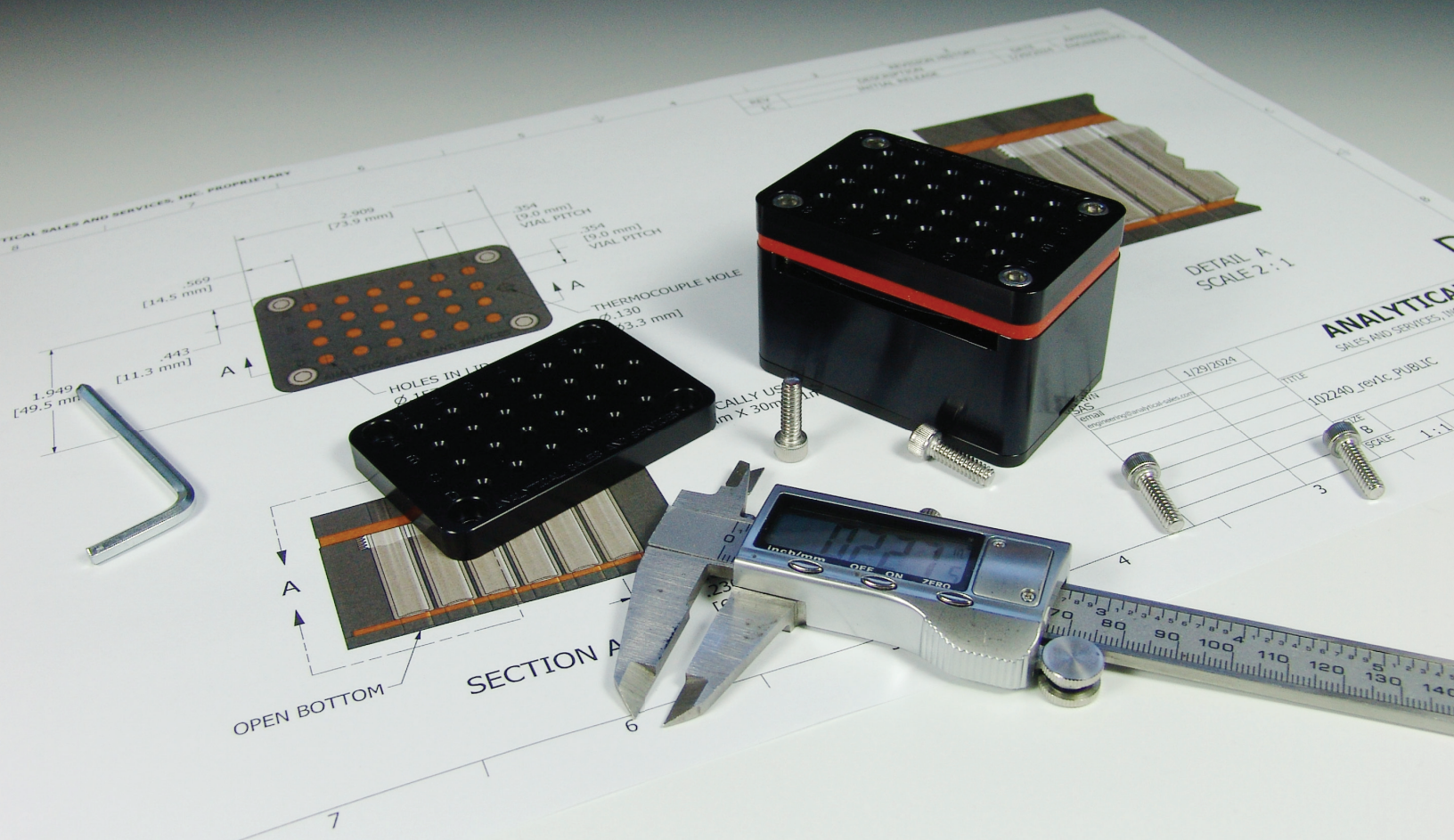




OEM Product Catalog 2024



Analytical OEM Services

Make to stock or make to order available

Aid in creating new products and equipment

- Prototyping
- Testing
- Data gathering
- Research and development

Custom Branded Literature

- Support manuals
- Sales sheets
- Catalogs

Full on-site engineering staff available

Tech support contracts available

Highly competitive cost structures

Domestically sourced and manufactured goods and equipment

Redundant back-end supply chains

Domestic and global logistics available

Shipping

- Drop shipping available
- Aggressively priced global shipping rates

Proven Track Record of Success

Analytical has been paving the way with innovative Research and Development solutions for the pharmaceutical and biotech industries for over 35 years. We use our extensive experience, technical expertise, and determination to better connect you and your team to solutions for tomorrow’s challenges.

Table of Contents

EquaVap® Blowdown Evaporators2

DBS Dried Blood Spot Card Punch4

HPLC & LC/MS Column Heaters6

Para-dox® Aluminum Reaction Blocks.....8
for Photoredox Catalysis and Parallel Synthesis

Lumidox® II10
Photon Generation Devices

Sentinel™ Solvent Safety Alarm System.....12

Flex-Chrom® Flexible Stainless Steel Tubing14

Collection Plates / Thermal Adapter Plates15

Protein Crash Plates16

Infusion Kits.....17



EquaVAP® Blowdown Evaporators

Rapidly evaporates common organic solvents

- **Internal Flow Equalizers** -
Distributes equal output across all needle ports to ensure even and symmetrical evaporation.
- **Stainless Steel Needle Tips** -
Long term robust use, sturdy, wide solvent compatibilities
- **Step-down Height Adjustment** -
Offers positive repeatable height positions
- **Stand Alone** -
Simple to operate, connects to Nitrogen or air supply with a standard socket
- **Small Footprint (8" base)** -
Fits into small glove boxes & standard fume hoods

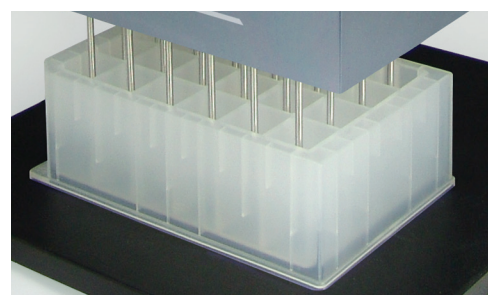
EVAPORATION TIMES

Chemical	Avg Evap Time* (HH:M-M:SS)
Dichloromethane 99.9%	00:00:23
Acetone 100%	00:02:04
Methanol 99.9%	00:06:09
Ethyl Acetate	00:03:04
Acetonitrile	00:06:37
Isopropyl Alcohol 99.0%	00:08:48
Water (DI)	01:23:46

**Conditions: 100 uL of solvent evaporated at
AIR flow of 100 L/min
(using 1mL round deep well plate)**

**Individual results may vary*

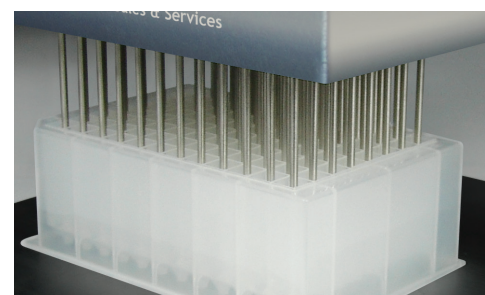
Analytical currently makes blowdown evaporators for 24, 48, 54, 96 and 384 position collection plates and Aluminum Reaction Blocks.



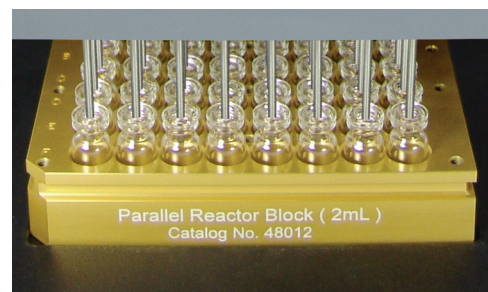
24-position, 18mm spacing



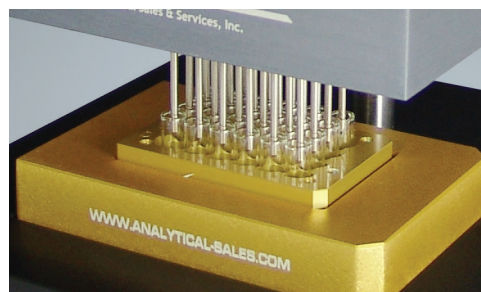
48-position



96-position



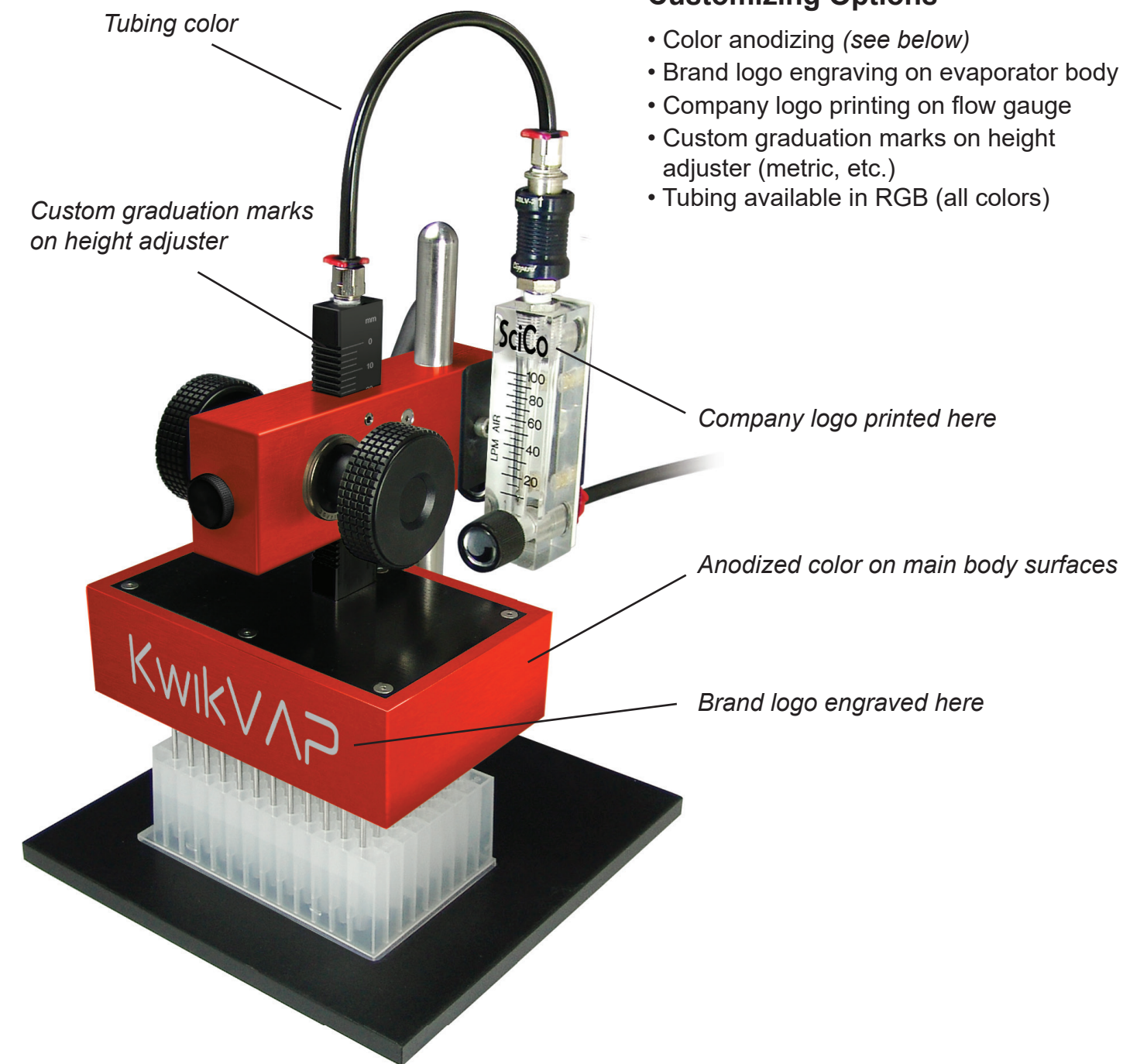
48-position



24-position, 9mm spacing



384-position



Customizing Options

- Color anodizing (see below)
- Brand logo engraving on evaporator body
- Company logo printing on flow gauge
- Custom graduation marks on height adjuster (metric, etc.)
- Tubing available in RGB (all colors)

Tubing color

Custom graduation marks on height adjuster

Company logo printed here

Anodized color on main body surfaces

Brand logo engraved here

Anodizing Colors

RED	GREEN	GOLD
BLUE	COPPER	BLACK
PURPLE	SILVER	TURQUOISE

More Info

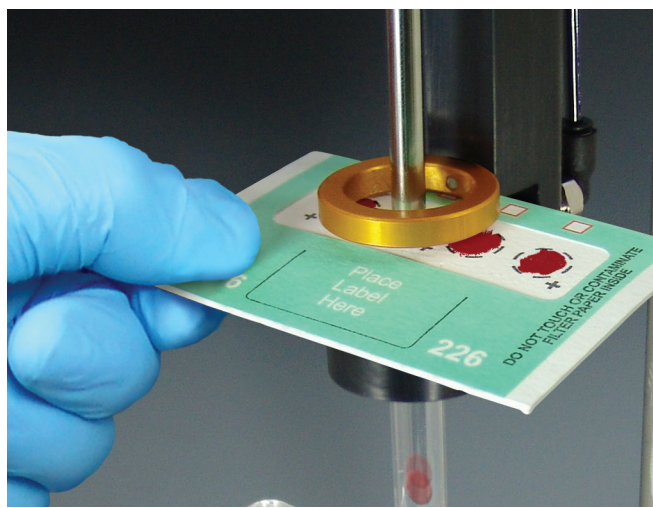
- Standard options:
24, 48, 54, 96 and 384 well positions
- Any color anodizing (Pantone – applies to all our anodized products)
- Stand rod and overall height is also customizable

DBS

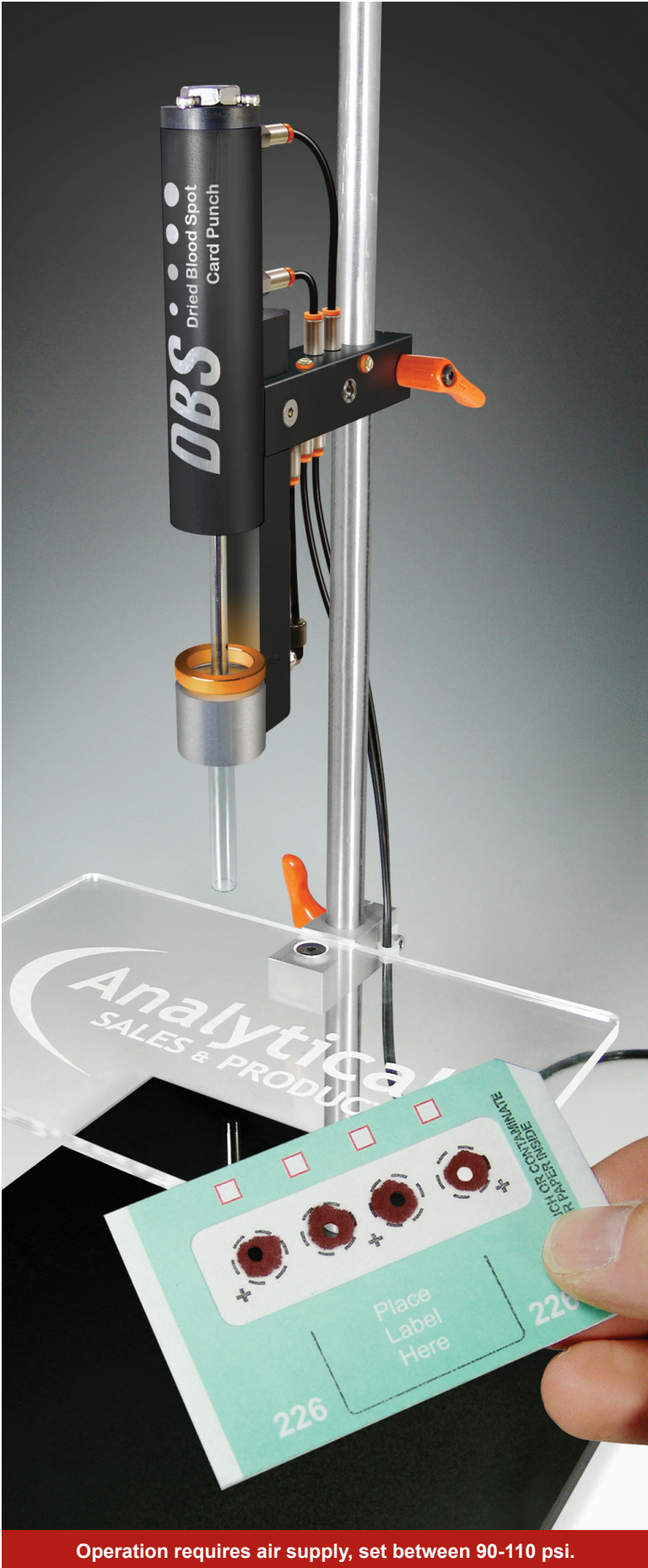
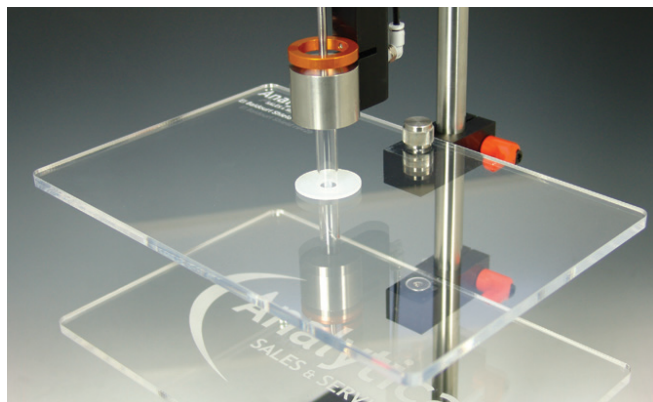
Dried Blood Spot
Card Punch

The DBS Punch eliminates hand fatigue and blistering from the use of hand-held manual card punches. It is a pneumatic foot-controlled “power” punch that increases speed and efficiency when loading dried blood spot samples into collection plates or tubes.

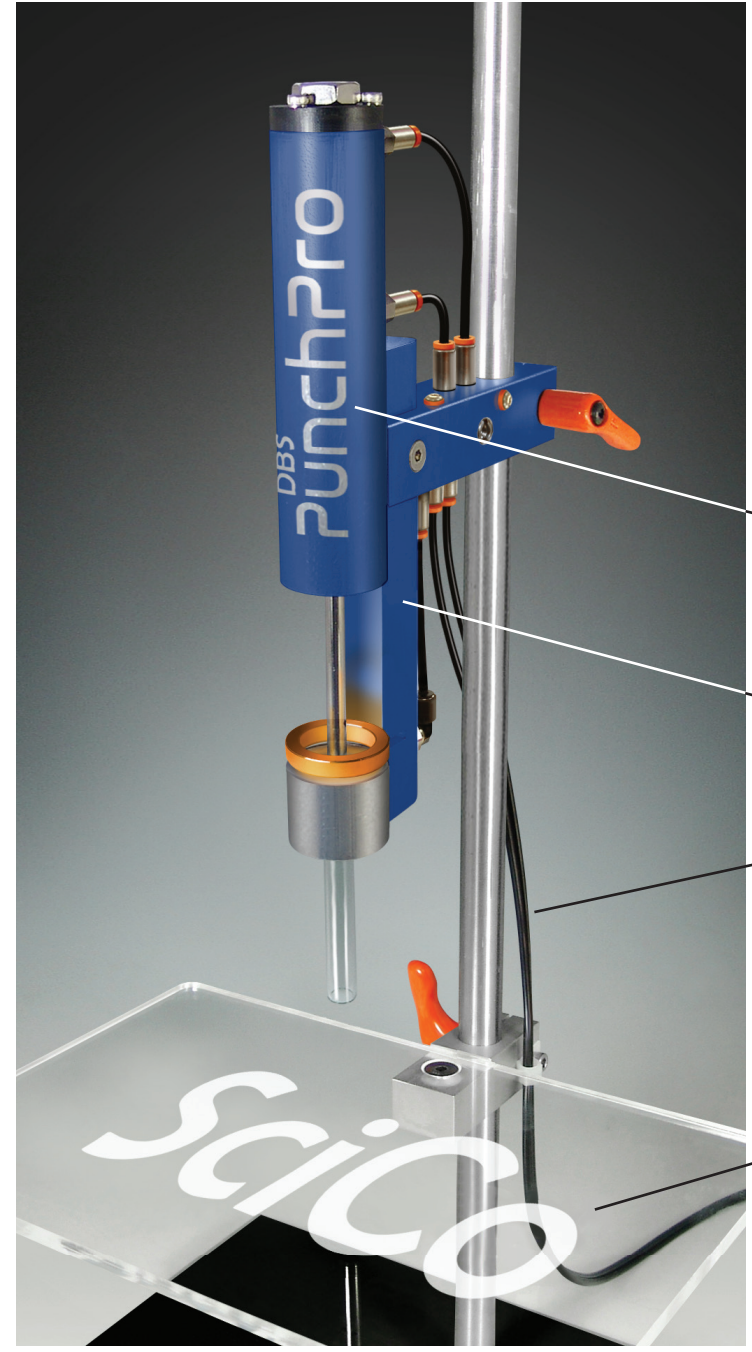
- Easy to Use - Foot Pedal Operation
- No Hand Fatigue or Blistering
- Reduces Processing Time
- Direct Insertion of Punched Disc into Collection Plate Well or Tube
- 3mm, 4mm, 5mm and 6mm Punch Sizes Available



El Baidouri Shield
The El Baidouri Shield is an anti-contamination barrier which can be used when performing highly sensitive work, such as infectious disease research. The shield prevents micro punch-card particles (which may be ejected during operation) from potentially falling into adjacent wells, resulting in undesirable cross-contamination.



Operation requires air supply, set between 90-110 psi.



- ### Customizing Options
- Punch diameter size*
 - Color anodizing (see below)
 - Brand logo engraving on punch pod
 - Company logo etched on clear shelf
 - Handles available in orange or black
 - Tubing available in RGB (all colors)
- *minimum order requirements apply

- Brand logo engraved here
- Anodized color on main body surfaces
- Tubing color
- Company logo printed here

- ### More Info
- Standard punch diameter size options: 3mm, 4mm, 5mm, 6mm
 - Custom punch diameter size is customizable (min. order requirements apply)
 - Any color anodizing (Pantone – applies to all our anodized products)

Anodizing Colors

RED	GREEN	GOLD
BLUE	COPPER	BLACK
PURPLE	SILVER	TURQUOISE

HotSleeve™

Family of Column Heaters



monocon™ Controls 1 Gen II HotSleeve+ column heater*



Controls up to 4 Gen II HotSleeve+ column heaters* **MULTICON**™

* Use with Gen II HotSleeve+ heaters. Gen II AgileSleeve® heaters will be available soon, call for details.



Gen II Column Heater Controllers

The **Monocon**™ and **Multicon**™ are the latest column heater controllers from Analytical. They are the next generation of the original MonoSleeve™ and MultiSleeve™, and control Analytical's **Gen II** HotSleeve+ sleeve column heaters.

Significant new features include:

Touchscreen Interface

- Provides simple and intuitive interaction with the device
- Provides greater utility to operators by allowing for gloved operation
- Tabbed, modern and familiar

Continuous Display of Critical Performance Data, Including:

- Current temperature
- Set point temperature
- Elapsed time or time remaining until automated cutoff
- Activation status of heating unit
- Specifications and parameters of active heaters

High Power Operation

- Support for heaters with a temperature range of 5°C above ambient to 130°C
- Faster heater to-temperature time allowing for decreased downtime
- Supports 250 W heaters allowing for increased performance and higher capacity operation
- Supports Peltier coolers

Screen Lock

- Prevents accidental touches from changing settings

Stacking Enclosures

- Preserves space by allowing multiple devices to share the same 16.5" x 11" vertical footprint

1000 Hour Maximum Timer Limit

- Provides users with the time that they need to collect all necessary data

USB Connectivity

- For PC connection

Modbus RS485

- The controller to be connected as part of a Modbus RS485 chain, allowing up to 31 controllers to be used simultaneously.
- A list of Modbus serial commands is available

Gen II HotSleeve+

The **Gen II HotSleeve+** is the second generation of the HotSleeve+ column heater, and the third iteration of the original Hot Sleeve.

Standard lengths: 5cm, 10cm, 15cm, 25cm, 30cm

IMPORTANT: Gen II HotSleeve+ heaters can only be used with Gen II controllers (Monocon or Multicon)



Heater Sleeve Customizing Options

- Custom diameter, inner and outer
- Custom length
- Sleeve color*
- Foam color*
- NRTL testing may apply

* minimum order requirements



Back Panel

Heater Controller Customizing Options

- Color anodizing of chassis (see below)
- Brand/company logos and custom design printed on front panel
- Company logo/info printed on back panel
- Logo placed on LED screen
- Custom limits min/max, temp, time
- NRTL testing may apply

More Info

- Heater Sleeve standard size options (by length): 5cm, 10cm, 15cm, 25cm, 30cm

Anodizing Colors

RED	GREEN	GOLD
BLUE	COPPER	BLACK
PURPLE	SILVER	TURQUOISE



Para-dox® Gen II Aluminum Reaction Blocks

For **Photoredox Catalysis** and
Parallel Synthesis Applications

Our comprehensive line of Photoredox Catalysis and Parallel Synthesis reaction blocks are designed specifically for high-throughput screening (HTS) applications. The SBS (SLAS/ANSI) format allows for use in any industry standard automation application.

Standard formats: 24, 48 and 96-position

Standard vial sizes:

- 4x21mm (50µL) Flat Bottom Glass Inserts
- 8x30mm (1mL) Clear Glass Shell or Crimp Top Vials
- 12x32mm (2mL) Crimp/Snap Vials
- 15x45mm (4mL) Clear Glass Screw Vials
- 17x60mm (8mL) Clear Glass Screw Vials



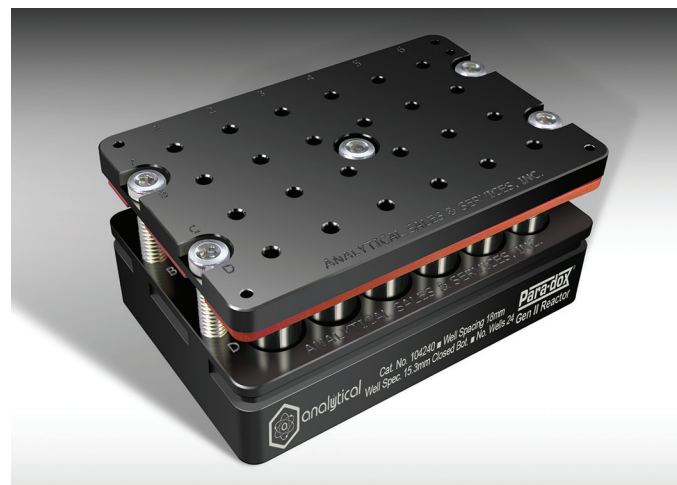
Standard 96-Position, Gen II
For 1mL, 8x30mm Glass Inserts



Micro 24-Position, Gen II
For 4x21mm, 50µL Glass Inserts



HPLC 48-Position, Gen II
For 2mL, 12x32mm Vials



1 DRAM 24-Position, Gen II
For 4mL (1 Dram), 15x45mm Vials

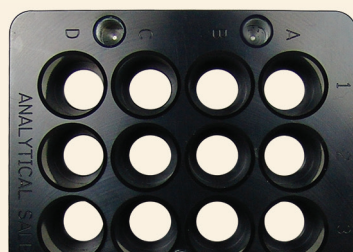
Parallel Synthesis vs. Photoredox Catalysis Reaction Blocks

Reactors for both applications are nearly identical. The difference lies in the base (vial rack) of the block. Reactors for parallel synthesis have wells with closed bottoms, whereas photoredox blocks have wells with open holes in the bottom allowing for light transmission via a **Lumidox®II Array**, as well as to read 2D barcodes.

Parallel Synthesis Block, Gen II

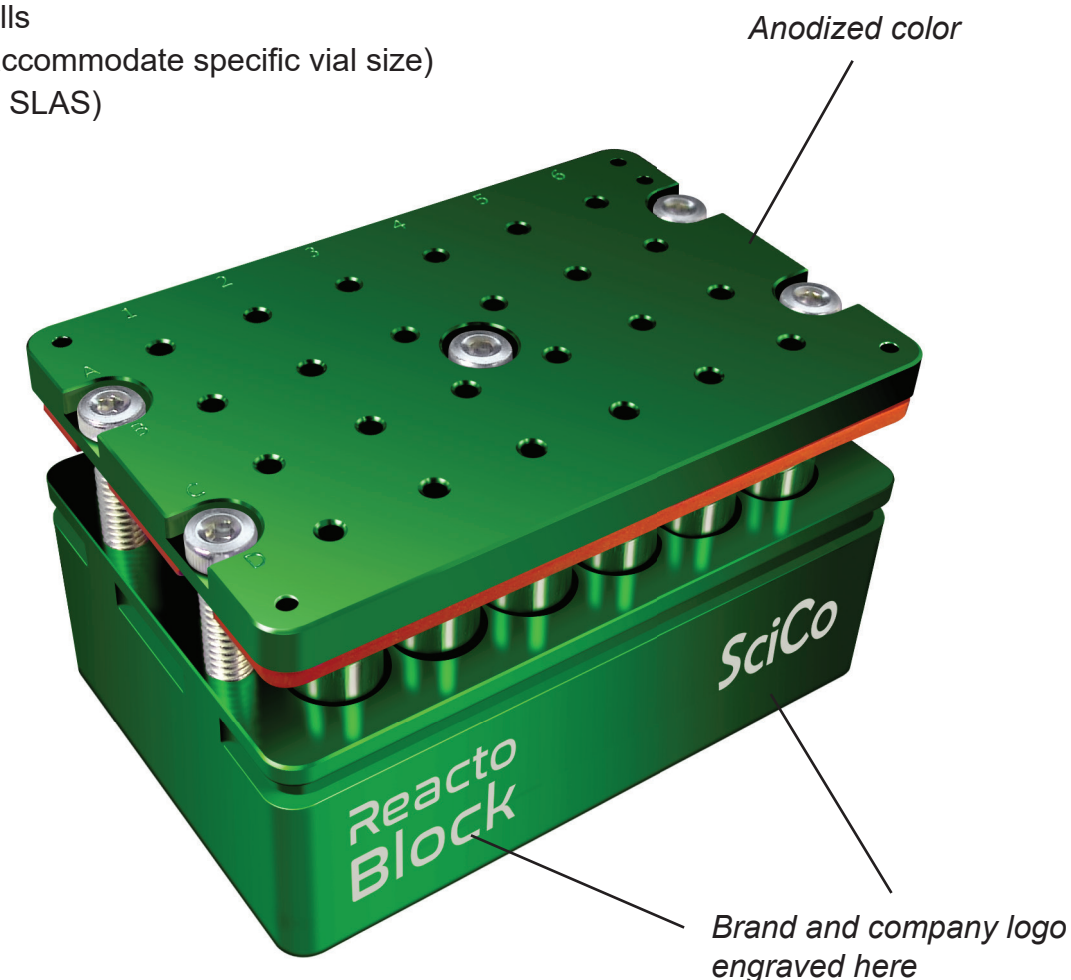


Photoredox Catalysis Block, Gen II



Customizing Options

- Color anodizing (see below)
- Brand and company logo engraving on side of block
- Number of wells
- Well size (to accommodate specific vial size)
- Footprint (non SLAS)
- Pressure
- Solvents



Anodizing Colors

RED	GREEN	GOLD
BLUE	COPPER	BLACK
PURPLE	SILVER	TURQUOISE

More Info

- Create geometries to fit your needs
- Built to experimental requirements – pressure, solvents, weights, safety, cooling and heating (temperature control)



24, 48 and 96-Position LED Arrays and LumLamp for Photoredox Catalysis Applications

Available in up to 15 wavelengths:

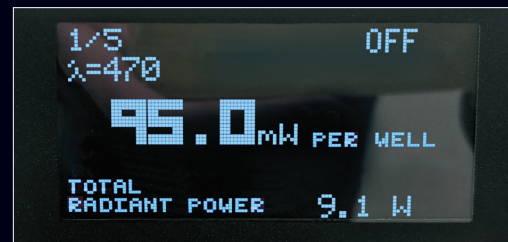
365 (UV365) 405 (UV405) 505 (Cyan) 660 (Deep Red)
 375 (UV375) 420 (Violet) 527 (Green) 730-IR (Infrared)
 385 (UV385) 445 (Indigo) 590 (Amber) White
 395 (UV395) 470 (Blue) 630 (Red)

LED Output STAGES

By default, all Lumidox II devices are factory calibrated with 5 discrete linearly stepped output STAGES. STAGE 1 output is the least radiometric power while STAGE 5 output is the most. STAGES are calibrated to the nearest whole number of radiant flux, and displayed in milliwatts (mW).

Linear Step (default)

STAGE 1 - 50mW
 STAGE 2 - 100mW
 STAGE 3 - 150mW
 STAGE 4 - 200mW
 STAGE 5 - 250mW



Lumidox® II Controller

- Controls the output of a Lumidox Array or LumLamp
- Select one of 5 levels of optical power (STAGES). STAGES are displayed in easy to read, easy to calculate whole numbers.
- Onboard illumination elapsed timer
- Automatic countdown shut-off timer
- USB Enabled API** - for advanced users running their setups remotely



LED Array Customizing Options

- Anodizing color of arrays
- Footprint (non-SLAS)
- Cord lengths
- Number of positions



Controller Customizing Options

- Anodizing color of chassis
- Brand/company logos, layout and design printed of front panel
- Company logo/specs printed on back panel
- Cord lengths
- Custom control schema

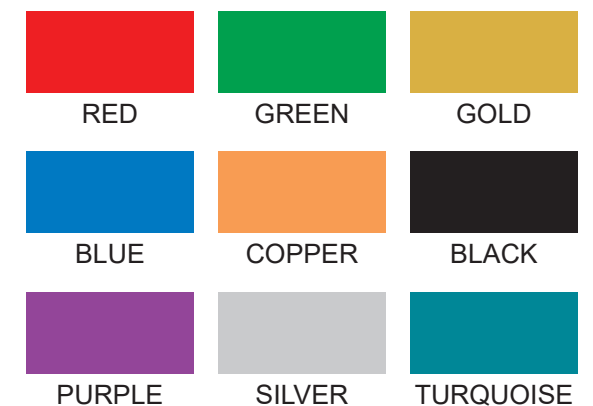


Controller Back Panel

More Info

- Custom wavelengths available
- Calibrate to specific spectral requirements
- Calibrate to radiometric power
- Bandpass and cutoff filter options

Anodizing Colors



LumLamp Customizing Options

- Lens style (clear, diffused, etc.)
- Lens material (polycarbonate, quartz, etc.)



Canary Safe™ SENTINEL™ Level Indicator

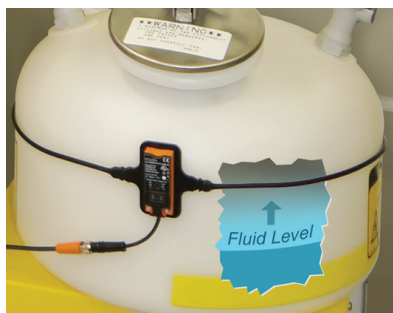


Solvent Safety Alarm System

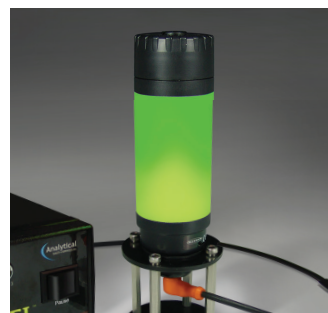
- Monitor up to 3 containers (**Waste and/or Mobile Phase**) at the same time
- Sensors can be set to detect **FULL or EMPTY** fluid levels
- Front panel LEDs indicate which sensor position has been activated
- Beacon light illuminates to signify fluid level status:
Green=Safe, **Red**=Alert!, **Orange**=Alert with audio alarm paused*
- Adjustable audio alert



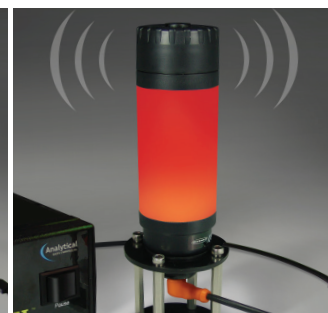
A sensor can be set to detect low fluid level in your mobile phase container.



Another sensor can be set to detect high fluid level in your waste container.



The Beacon turns from **green** to **red** and an audio alert sounds when a level has been reached (full or empty, depending on setup).



Solvent Safety Alarm System

Customizing Options

- Anodizing color of aluminum surfaces
- Brand/company logos, layout and design printed on front/back panels of controller



Anodizing Colors

RED	GREEN	GOLD
BLUE	COPPER	BLACK
PURPLE	SILVER	TURQUOISE

FlexChrom®

Flexible Stainless Steel Tubing

UHPLC, Pre-Finished, One-Piece Flexible Stainless Steel Tubing with Finger Tight Stainless Steel Fittings

Rated to 27,000 psi



Anodizing Colors



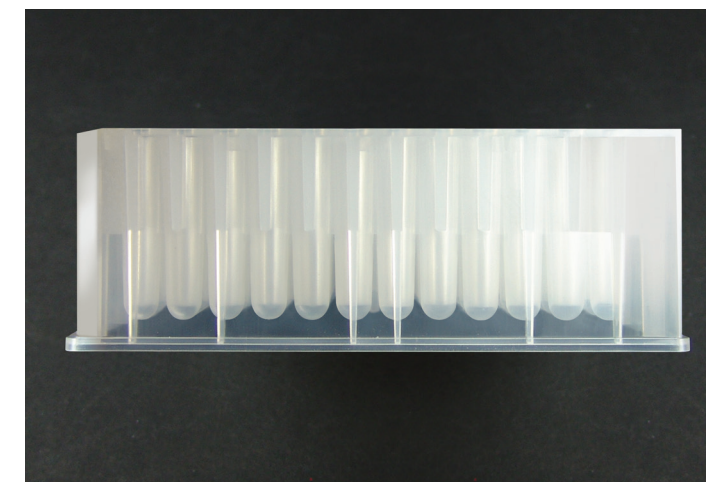
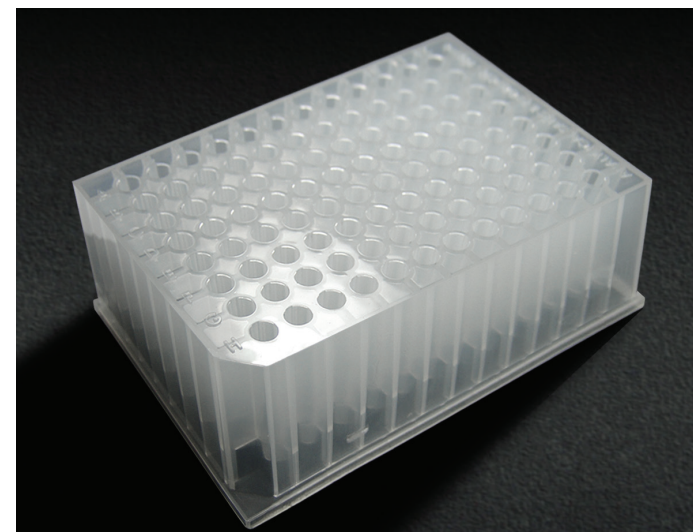
Customizing Options

- Anodizing color of fittings
- Engraving on back of fittings

Collection Plates

Customizing Options

- Apply brand name to plate or sell as "blank"
- Custom packaging design (logo and color)
- Custom clam shell packaging
- Collection plate color
- Custom geometries



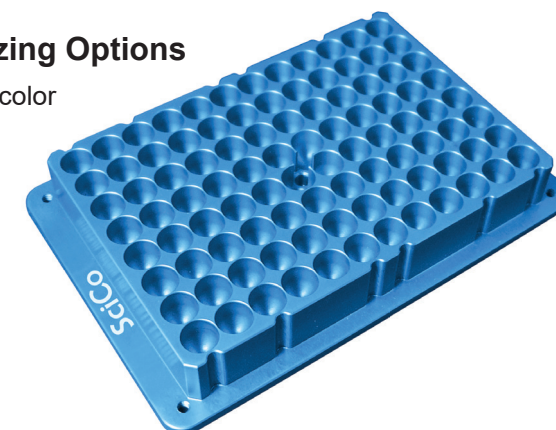
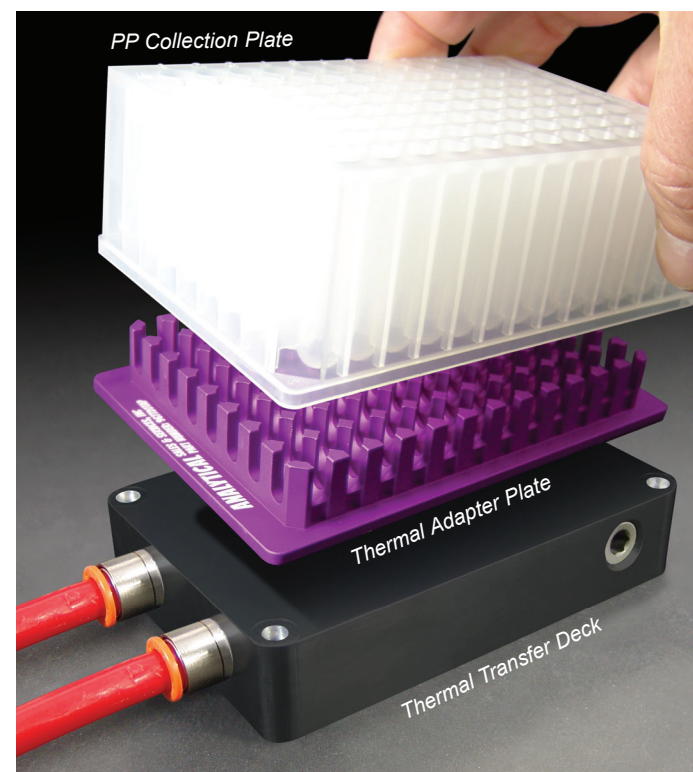
Thermal Adapter Plates

- For improved temperature transfer to samples
- For use with matching polypropylene collection plates
- SLAS footprint

Our Thermal Adapter Plates conform to the well shape of their complementing polypropylene collection plate. They ensure uniform thermal transfer for heating and cooling when used in conjunction with a heating block or chiller (not included). Thermal Adapter Plates can be made to match any shape and style polypropylene collection plate we offer.

Customizing Options

- Anodized color
- Engraving



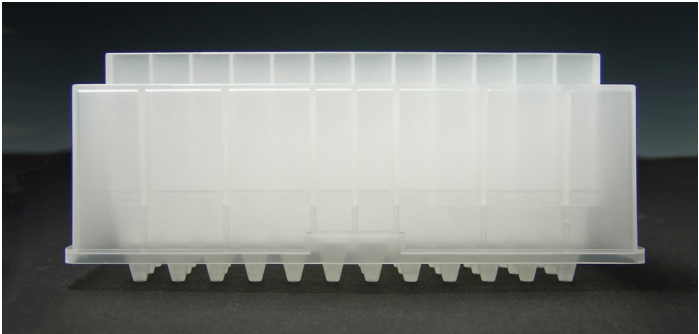
Protein Crash Plates



Advantage™ 1mL 96-Well Protein Crash Plates

Advantage™ Protein Crash Plates
for Protein Precipitation & Hepatocyte Filtration

- Proprietary frits produce optimized Protein Precipitation
- Use for Plasma, Urine, and other bioanalysis samples
- Works on all current manual or automated processing instrumentation

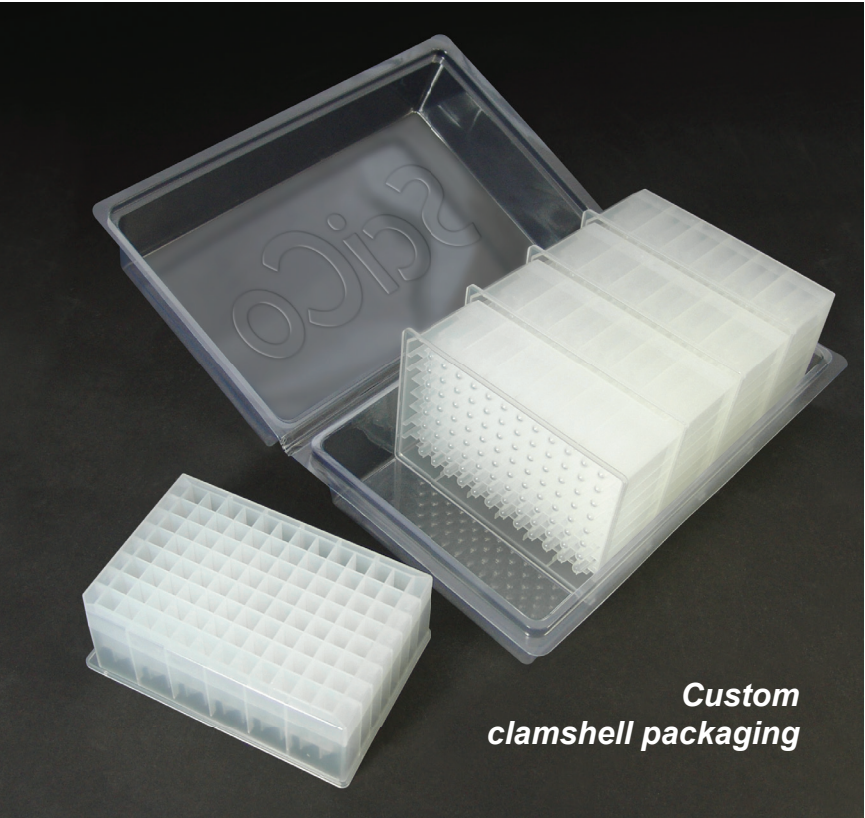


Advantage™ 2mL 96-Well Protein Crash Plates

Advantage™ Protein Crash Plates for protein precipitation provide an extremely simple and rapid method for removing protein compounds from samples prior to downstream analysis. The plate has a unique hydrophobic membrane configuration which retains the acetonitrile/sample mixture during mixing or inoculation steps. The pore size of the filter decreases with the increase in depth so that larger particles and/or macromolecules are trapped on the surface and throughout the interior of the filter. The components are all medical grade polypropylene. The ending filtrate is ready for HPLC or MS analysis.

Customizing Options

- Custom filter membranes
- Color logo on each plate
- Custom clamshell packaging



Custom clamshell packaging

Infusion Kits

Each Kit contains one Syringe, Adapter, Fittings, Tubing, PEEK™ Tee Connection, and one standard replacement Needle.

Size options (by volume):
50µL, 100µL, 250µL, 500µL, 1.0mL, 2.5mL, 10mL, 25mL



Customizing Options

- Custom labeling
- Custom set of components



Proud Makers of:



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