

Sensitive *Post-Column Reactor*

Applications

- ▶ Carbamates by OPA
- ▶ Glyphosates by OPA
- ▶ Aflatoxin by Iodine
- ▶ Amino Acids by OPA
- ▶ Amino Acids by Ninhydrin



System Features

- ▶ Add compact post-column capability to any LC system
- ▶ Independent reagent pump control
- ▶ User-replaceable, disposable reactor coils
- ▶ Fast & easy setup:
 - One inlet connection (from column)
 - One outlet connection (to detector)
 - All connections accessible from front panel
- ▶ Modular:
 - 1 or 2 Reaction Coils (1 heated)
 - 1 or 2 pumps
 - Easy upgrade from single to dual reagent
- ▶ All PEEK fluid path



Modular Pumps

- ▶ Slide out drawer for easy access and maintenance
- ▶ 2,500 p.s.i. upper pressure limit
- ▶ Automatic Piston Wash
- ▶ Interactive front keypad:
 - Flow rate set points
 - Pressure read-out
 - Set upper/lower pressure limit
- ▶ RS-232 Interface
- ▶ Pulsation: $< 0.5\%$
- ▶ Integrated Prime-Purge Valve / Pulse Damper / Outlet Filter, with transducer
- ▶ Back Pressure Coil (for proper PD operation)



“All-In-One” Integrated Fluidics



- ▶ Combination Pulse Damper / Prime Purge Valve / Outlet Filter / Transducer
- ▶ Eliminates Tubing and Fittings between Components
- ▶ Fewer Leak Points
- ▶ Very Low Dead Volume
- ▶ All PEEK Fluid Path

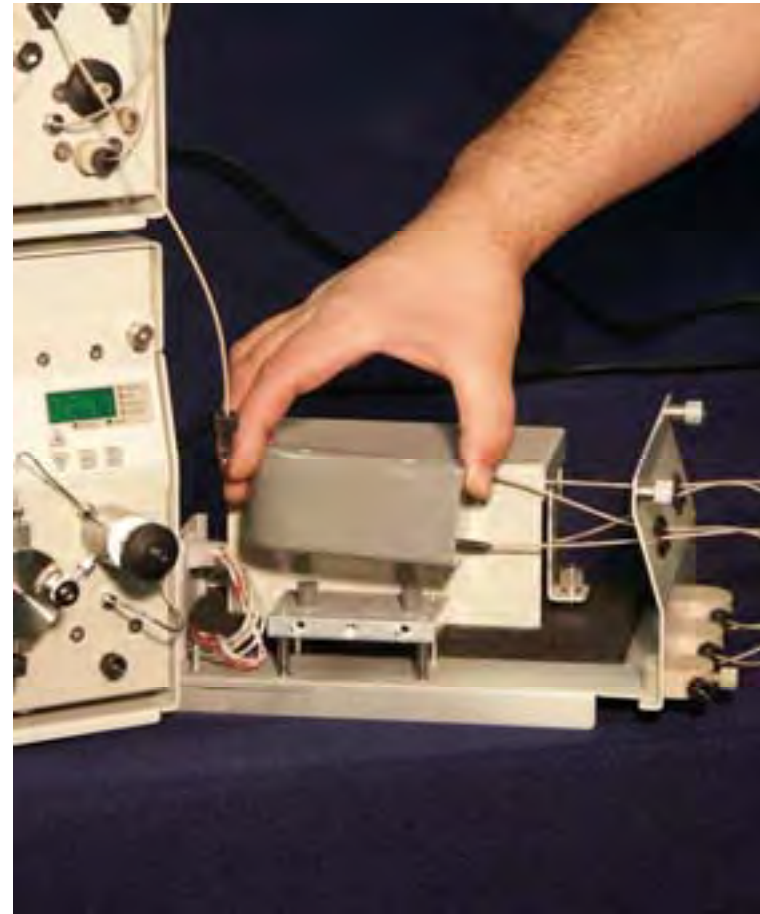
Modular Reactors

- ▶ PEEK loop, sealed
- ▶ Operating Range: 10° C above ambient to 150° C
- ▶ Temp. Accuracy: $\pm 2^{\circ}$ C
- ▶ Temp. Repeatability: $\pm 1^{\circ}$ C.
- ▶ Front keypad control



Easy to Replace Reactors

- ▶ Remove fittings
- ▶ Slide out drawer
- ▶ Lift out reactor
- ▶ Replace with an alternate size reactor or replacement unit



All Fittings On The Outside

- ▶ Easy Set-Up
- ▶ Faster Maintenance
- ▶ Visible Leaks



Available Configurations

P/N	Description	Reactor Specification
PC10AH000	Single Reagent (single pump) system for AAA, OPA, Polyamines & Paraquat/Diquat	0.15 ml reaction volume, heated
PC10BH000	Single Reagent (single pump) system for AAA, Ninhydrin and Formaldehyde	0.50 ml reaction volume, heated
PC10CH000	Single Reagent (single pump) system for Alfatoxins	1.40 ml reaction volume, heated
PC10BH10A	Dual Reagent (two pump) system for Carbamates and Glyphosate	0.50 ml reaction volume, heated 0.15 ml reaction volume, ambient
PC10CH10C	Dual Reagent (two pump) system	1.40 ml reaction volume, heated 1.40 ml reaction volume, ambient



PCR System Applications

Application	Reactor 1	Temp.	Reactor 2
Carbamate	NaOH	100° C	OPA
Glyphosate	NaOCl	40° C	OPA
Aflatoxins	Iodine	40° C	(not used)
Carbohydrates	NaOH	40° C	(not used)
Lipids	Phenacyl	100° C	(not used)
Amino Acids -Ninhydrin	Ninhydrin	140° C	(not used)
Amino Acids - OPA	NaOCl	40° C	OPA
Amino Acids - Primary	OPA	30° C	(not used)

Additional Features

- ▶ High pressure cut-off switch for plugged coil
- ▶ Low pressure cut-off system (with auto reset) for interface with HPLC

