

Brechtel Manufacturing Incorporated

Price Sheet Effective May 8, 2008

Particle-Into-Liquid-Sampler (PILS)

Model	Description	Price
4000	PILS Droplet Growth & Collection Chamber with Steam Generator and Tip Temperature Control Electronics	\$12,800
4002	Integrated PILS System (Model 4000 with syringe pumps, data system, control software & fully automated operation)	\$52,150
<i>Liquid Sample Fraction Collector (only with Model 4002)</i>		
-AC8012R	Auto-collector with 80 1.2 ml polypropylene vials, rack-mount version	\$17,560
-AC8012B	Auto-collector with 80 1.2 ml polypropylene vials, bench-top version	\$17,875
-AC8020R	Auto-collector with 80 2.0 ml glass vials, rack-mount version	\$17,560
-AC8020B	Auto-collector with 80 2.0 ml glass vials, bench-top version	\$17,875
-AC3810R	Auto-collector with 38 10 ml glass vials, rack-mount version	\$16,995
-AC3810B	Auto-collector with 38 10 ml glass vials, bench-top version	\$17,325
-AC3820R	Auto-collector with 38 20 ml glass vials, rack-mount version	\$17,215
-AC3820B	Auto-collector with 38 20 ml glass vials, bench-top version	\$17,545
<i>Additional Vial Carousels & Vials (only with Model 4002)</i>		
-CA8012	80-vial carousel for Auto-Collector with 1.2 ml polypropylene vials	\$715
-CA8020	80-vial carousel for Auto-Collector with 2.0 ml glass vials	\$715
-CA3810	38-vial carousel for Auto-Collector with 10 ml glass vials	\$645
-CA3820	38-vial carousel for Auto-Collector with 20 ml glass vials	\$645
-VS1.2	Package of 1000 1.2 ml volume polypropylene vials and caps	\$465
-VS2.0	Package of 1000 2.0 ml volume glass vials and caps	\$525
-VM10	Package of 1000 10 ml volume glass vials and caps	\$715
-VL20	Package of 1000 20 ml glass vials and caps	\$765
-CR	Crimping tool for 10 and 20 ml volume glass vial aluminum caps	\$275
<i>Denuders, Air Flow Control, Zero Air Check Systems & Other Options</i>		
-DE	Organic gases & Inorganic acid and base gases denuders	\$6,120
-3V	Automated 3-Way Valve zero-air check system	\$3,135
-LFE	Sample air flow rate measurement with Laminar Flow Element (LFE)	\$2,210
-LFEV	Automated sample air flow control with Low Pressure Drop Valve & LFE	\$10,760
-Imp1.0	Particle pre-impactor with 1.0 micrometer cut size	\$1,380
-Imp1.5	Particle pre-impactor with 1.5 micrometer cut size	\$1,380
-Imp2.0	Particle pre-impactor with 2.0 micrometer cut size	\$1,380
-Imp2.5	Particle pre-impactor with 2.5 micrometer cut size	\$1,380
-Rack	Rackmount kit for Model 4002 PILS Systems	\$395
-P115	Air flow vacuum pump for 115 Volt AC operation	\$435
-P230	Air flow vacuum pump for 230 Volt AC operation	\$435
-PWR115	PILS System Operating AC power voltage 115 VAC	No Cost
-PWR230	PILS System Operating AC power voltage 230 VAC	No Cost
<i>Software</i>		
-REM	Remote host control software	\$2,805
-ACS	Software to independently operate Auto-Collector	\$2,830

Sample PN: 4002-AC8012R-DE-3V-LFEV-CA8012-Imp2.5-Rack-PWR115

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Differential Mobility Analyzer (DMA)

Model	Description	Price
2000C	DMA column only with ceramic insulators	\$12,000
<i>DMA options (add to Model 2000C price above):</i>		
-VAFN	High voltage control, automatic flow control, neutralizer body, enclosure, data system, & software to select monodisperse particles	\$17,250
-VE	High voltage supply (user supplies control voltage), filters, & enclosure (user supplies all air flow measurement & control)	\$6,995
-Scan	Scanning size distribution software (Requires -VAFN option)	\$4,800
-Process	Post-processing software to invert raw size distribution data (includes inlet loss module) (Requires -VAFN and -Scan options)	\$1,500
<i>Air Flow Related Options:</i>		
-LFE	Sample, sheath and excess air flow rate measurements with laminar flow elements (user supplies differential pressure sensors and air flow rate control)	\$2,950
-C230	Sheath flow external compressor for 230 volt AC operation	\$435
-C115	Sheath flow external compressor for 115 volt AC operation	\$435
-P230	Excess and Monodisperse flow external pump for 230 volt AC operation	\$435
-P115	Excess and Monodisperse flow external pump for 115 volt AC operation	\$435
<i>Other Options:</i>		
-9000	Aerosol charge neutralizer body (Po-210 strips supplied by user)	\$1,280
-Impx	Particle pre-impactor with user specified cut size (x=particle size in micrometers)	\$1,380
-PWR115	Specify 115 volt AC operating voltage	No Cost
-PWR230	Specify 230 volt AC operating voltage	No Cost

Sample Part Number: 2000C-VAFN-Scan-Process-PWR115

Flow Measurement and Control

Model	Description	Price
7010	Low-Flow Laminar Flow Element (0.03-0.3 lpm)	\$375
7020	Medium-Flow Laminar Flow Element (0.03-0.75 lpm)	\$385
7030	Medium-High-Flow Laminar Flow Element (0.03-2 lpm)	\$395
7040	High-Flow Laminar Flow Element (0.1-6 lpm)	\$675
7050	Very High-Flow Laminar Flow Element (0.1-14 lpm)	\$850
-DP	Add differential pressure sensor and flow calibration to one LFE	\$650
3000	Automated, Low Pressure Drop Flow Control Valve	\$Call
1100	Aerosol Sample 2-Way Flow Splitter (1/4" OD tubing)	\$165
1101	Aerosol Sample 2-Way Flow Splitter (3/8" OD tubing)	\$185
1102	Aerosol Sample 2-Way Flow Splitter (1/2" OD tubing)	\$195
1103	Aerosol Sample 2-Way Flow Splitter (3/4" OD tubing)	\$220
3014	Flow & humidity control system (2 flows; 0.06, 6 lpm; 2-93% RH)	\$10,200

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Aerosol Round-Jet and Counter Flow Virtual Impactors

Model	Description	Price
8000	Round Jet Impactor (1 micron size cut, 5 lpm flow)	\$1,380
8001	Round Jet Impactor (2.5 micron size cut, 5 lpm flow)	\$1,380
8002	Round Jet Impactor (10 micron size cut, 5 lpm flow)	\$1,380
8003	Round Jet Impactor (1 micron size cut, 17 lpm flow)	\$1,580
8004	Round Jet Impactor (2.5 micron size cut, 17 lpm flow)	\$1,580
8005	Round Jet Impactor (10 micron size cut, 17 lpm flow)	\$1,580
-DP	Add differential pressure sensor and flow calibration	\$650
8100	Counter Flow Virtual Impactor (0.3 to 3 micron size cut)	\$2,950
8200	Automated Electron Microscope Grid Impactor/Sampler	\$8,800

Aerosol Inlet Systems

Model	Description	Price
1200	Isokinetic Sampling Inlet System (includes diffusers, manifold, 2 pick-off ports, flow control, & DAQ)	\$45,200
	<i>Inlet system options:</i>	
-SPn	Additional sample pick-off ports (each, specify total number 'n')	\$750
1202	Diffuser pair only for 165 lpm sample flow	\$10,250
1203	Diffuser pair only for 30 lpm sample flow	\$8,200

High Vacuum Components & Systems

Model	Description	Price
VF-9000	Vacuum Brazing and Materials Processing Furnace	\$77,000
LV-1000	High-Vacuum Leak Valve	\$1,250
LV-2000	High-Vacuum Leak Valve	\$1,350

General Terms:
Quotes are FOB Hayward, CA, USA.
Shipment generally within 10 weeks.
One year parts and labor warranty.
Payment terms are Net 30 days.
Other terms may apply.

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