

FEATURES

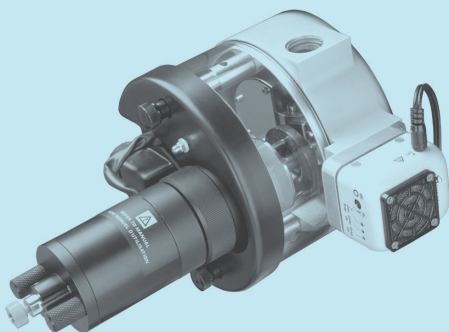
NEW - S.I.S.™ All-In-One Vacuum Pump Exhaust Filter Kit4

A two stage filter kit that has an Oil Mist Eliminator and Activated Charcoal Filter, but in a smaller package (6.25" tall).

NEW - New Objective Products8

We are proud to carry the complete line of New Objective Products. In this issue we highlight the new Trap'n Tip™ and NuTip™ Sample Prep Tips and the Nanospray Sources.

Sygen APPI Sources for Legacy LC/MS Instruments



SIS is proud to offer APPI Sources from Sygen. APPI has become the method of choice for many applications because of advantages over the more conventional methods of APCI and ESI. **See the back cover of this newsletter for additional details.**

Correction! WE GOOFED!! . . .2

In our 2008-2009 Catalog we incorrectly listed our 7T01 o-rings as PTFE encapsulated. See pg. 2 for details

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For Mass Spectrometry and Chromatography

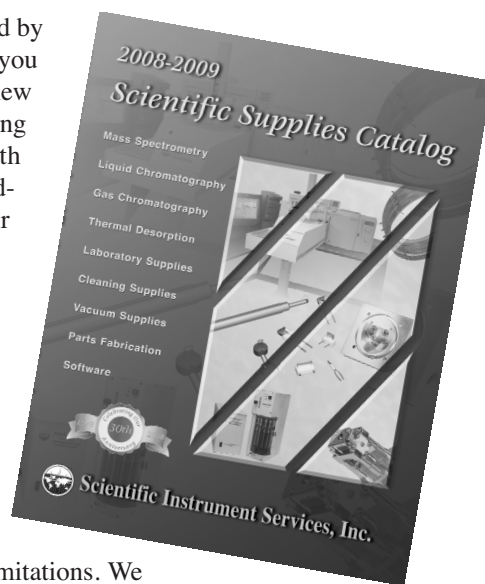
NEWS FROM SIS

SIS Announces Our 30th Anniversary Catalog 2008-2009

Our new catalog is now available and by the time you get this newsletter you will be hard pressed to put the new catalog down! We have many new and exciting product additions included in the 30th Anniversary addition. Some of our new product lines will be discussed in more detail later in the newsletter.

If you have not received your catalog please take a moment and complete our mailing list form on our website at www.sisweb.com/maillist.htm so we can get you our latest catalog.

There are also many additional products available on our website that are not published in our catalog because of space limitations. We currently offer over 20,000 different products for the scientific community.



Scientific Instrument Services Has Expanded Machining Capabilities

Scientific Instrument Services has recently purchased a 10,000 SF facility for housing our machine shop operations. We now have over 20 CNC lathes, Swiss screw machines and mills to manufacture just about anything that our customers desire. Scientific Instrument Services has been in the scientific instrument business since 1978, serving the needs of the scientific instrument and medical markets to both end users and to OEM's. Since we are a manufacturing company with a scientific instrument background, we are proficient in the manufacture of precision parts to high tolerances with good finishes, cleaned and ready for use in vacuum environments. We specialize in small to mid size production runs including prototype development utilizing state-of-the-art computer controlled turning centers and milling machines. We seek to develop strategic partnerships with OEM's. Our capabilities include CNC machining, electropolishing, tumbling, sandblasting, cleaning, parts assembly, micro spot-welding, vacuum welding, leak testing, component testing and quality control.

New Machine Shop In Plumsteadville, Pa



Areas of Specialization

- Small to mid-volume production runs
- Strategic partnerships with OEM's
- Machining of small parts for scientific and medical instruments
- Scientific instrument filament design and manufacture
- Ion Source manufacture and assembly
- CNC machining in all materials including Stainless Steel, other metal alloys and plastic polymers
- Precision machining to high tolerances
- Ultra finishes on machined parts
- High cleanliness of finished parts
- Electropolishing, tumbling and sandblasting capabilities
- Quality Control utilizing state-of-the-art computer inspection equipment
- Assembly and testing of components into completed assemblies

Capacity

- Diameters from 0.010" to 6.00"
- Tolerances to 0.0001"
- Finishes to 3 Ra
- Prototype and production runs

Machining Capabilities

- CNC Swiss Screw machining
- CNC Turning
- CNC Milling



Vacuum Flanges



Parts machined utilizing the CNC Turning Centers and Milling Centers in the SIS Machine Shop

Correction! We Goofed!!

In our 2008-2009 Catalog our 7TO1 o-rings were incorrectly listed as PTFE-encapsulated. They are a perfluoroelastomer that have outstanding properties as seen in the table below.

NEW - 7TO1 - Perfluoroelastomer (FFKM) O-rings. 7TO1 has been designed for very demanding sealing applications in aggressive chemical environments. "7TO1" resists attack by nearly all chemical reagents, including organic and inorganic acids, alkalines, ketones, esters, alcohols, fuels, and hot water. **In our catalog see pages F75-F78**

O-Ring Properties-* use this prefix in front of the size number when ordering O-Rings, i.e. V-110 for Viton size 3/8" O-Ring.

Property	Buna-N	Viton	Silicone	Teflon	Kalrez	7TO1*
Part No. Prefix	B-	V-	S-	T-	K-	-TV
Tear Resistance	Fair	Good	Poor	Excellent	Good	Excellent
Abrasive Resistance	Good	Good	Poor	Excellent	Good	Good
Ozone Resistance	Poor	Excellent	Excellent	Good	Excellent	Excellent
Weather Resistance	Fair	Excellent	Excellent	Good	Excellent	Excellent
Heat Resistance	Fair	Excellent	Excellent	Good	Excellent	Excellent
Chemical Resistance	Fair	Excellent	Good	Excellent	Excellent	Excellent
Oil Resistance	Excellent	Excellent	Poor	Good	Excellent	Excellent
Acid Resistance	Fair	Excellent	Good	Excellent	Excellent	Excellent
Alkali Resistance	Good	Good	Fair	Excellent	Excellent	Excellent
Steam Resistance	Fair	Fair	Poor	Good	Excellent	Excellent
Minimum Usable Temp	-65°F -54°C	-65° F -54°C	-120°F -85°C	-110°F -79°C	-35°F -37°C	-35°F -37°C
Maximum Usable Temp.	300° F 150°C	500° F 260°C	450° F 232°C	500° F 260° C	550° F 288°C	560°F 293°C
Color	Black	Black	Red	White	Black	

SGE GC Columns



Premium performance plus endurance. Experience premium chromatographic performance with SGE's forte range of GC Capillary Columns. Engineered with advanced levels of robustness and endurance, the forte columns feature increased tolerance to adverse conditions and samples, while continuing to return optimum analytical results. Highly inert for the most demanding analysis, the forte columns are manufactured to exacting specifications to ensure column-to-column reproducibility.

**For more information on the forte range of
GC Capillary Columns,
contact:**



Scientific Instrument Services, Inc.

1027 Old York Rd, Ringoes, NJ 08551-1039

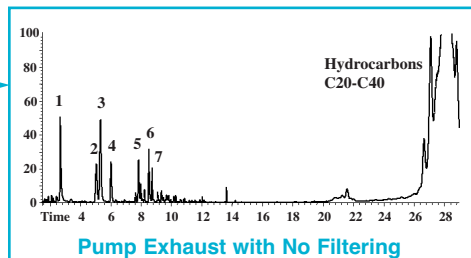
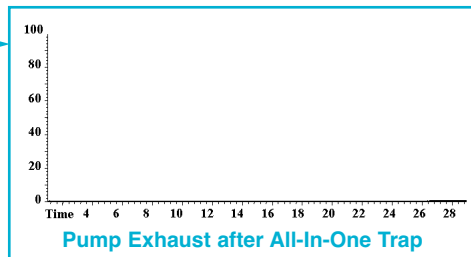
Phone: 908-788-5550 FAX: 908-806-6631 Web: <http://www.sisweb.com>

FEATURE

Introducing the S.I.S.™ All-In-One Vacuum Pump Exhaust Filter Kit

A Two Stage Filter System to Prevent Vacuum Pump Exhaust From Contaminating Indoor Air - ONLY 6.25" TALL

SIS is proud to introduce a new combination Oil mist eliminator and activated charcoal filter. It combines all of the properties of the popular SIS filter kits that have an Oil mist eliminator and activated charcoal filter, but in a smaller package (6.25 inches tall). In addition the charcoal element and oil mist eliminator element are replaceable at a more economical price than in previous filters. The chromatograms to the right show that the air leaving the All-In-One is cleaner than the laboratory air itself. The filter stops particles down to 0.3 μm.



The Following Kits are Available for Your Vacuum Pumps

Part No.	Description	Price
FK101B	SIS All-In-One Exhaust Filter Kit for Alcatel Vacuum Pumps	
FK201B	SIS All-In-One Exhaust Filter Kit for BOC Edwards Pumps Models E1M5/8/12, E2M2/3/5/8/12, RV3/5/8/12	
FK251B	SIS All-In-One Exhaust Filter Kit for BOC Edwards Pumps Models E2M0.7, E2M1, E2M1.5	
12473EE01	SIS All-In-One Exhaust Filter, NW25 Fittings, no clamps or o-rings	
AC-10S	Replacement Charcoal Filter Element	
GL-915R	Replacement Coalescing Filter (Oil Mist Eliminator)	
C10501014	1/2" BSP to NW25 Adapter	
SISC10501213	3/8" BSP to NW25 Adapter	

New Activated Carbon Filter

The activated charcoal filter housing is composed of carbon steel construction and comes with 1/2 inch male NPT fittings on each end. The housing separates exactly like the oil mist unit to expose a replaceable hockey puck style filter. The unit has a twist off feature so replacing the inner filter is easy as 1, 2, 3. The replaceable element is more economical and leaves less waste than competitor's activated carbon filters.



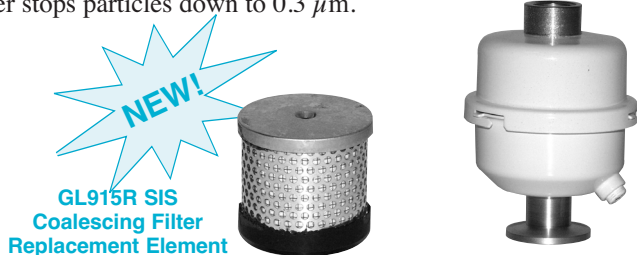
CSS-RC10-050 SIS Air Purifier with 1/2" NPT

AC-10S SIS Activated Carbon Replacement Element

Part No.	Description	Price
CSS-AC10-050	SIS Vacuum Exhaust Filter	
AC-10S	Activated Carbon Replacement Element	
QF25XSP50	1/2" NPT to NW25 Adapter	

New Oil Mist Eliminator

We have also introduced a more rugged and economical line of stand alone oil mist eliminators and activated charcoal filters. The oil mist eliminator comes with a QF25 flange on the pump side and a 0.5 inch female NPT fitting on the exhaust side. The housing is steel, so breaking the plastic housing of most oil mist eliminators is a thing of the past. The filter stops particles down to 0.3 μm.



GL915R SIS Coalescing Filter Replacement Element

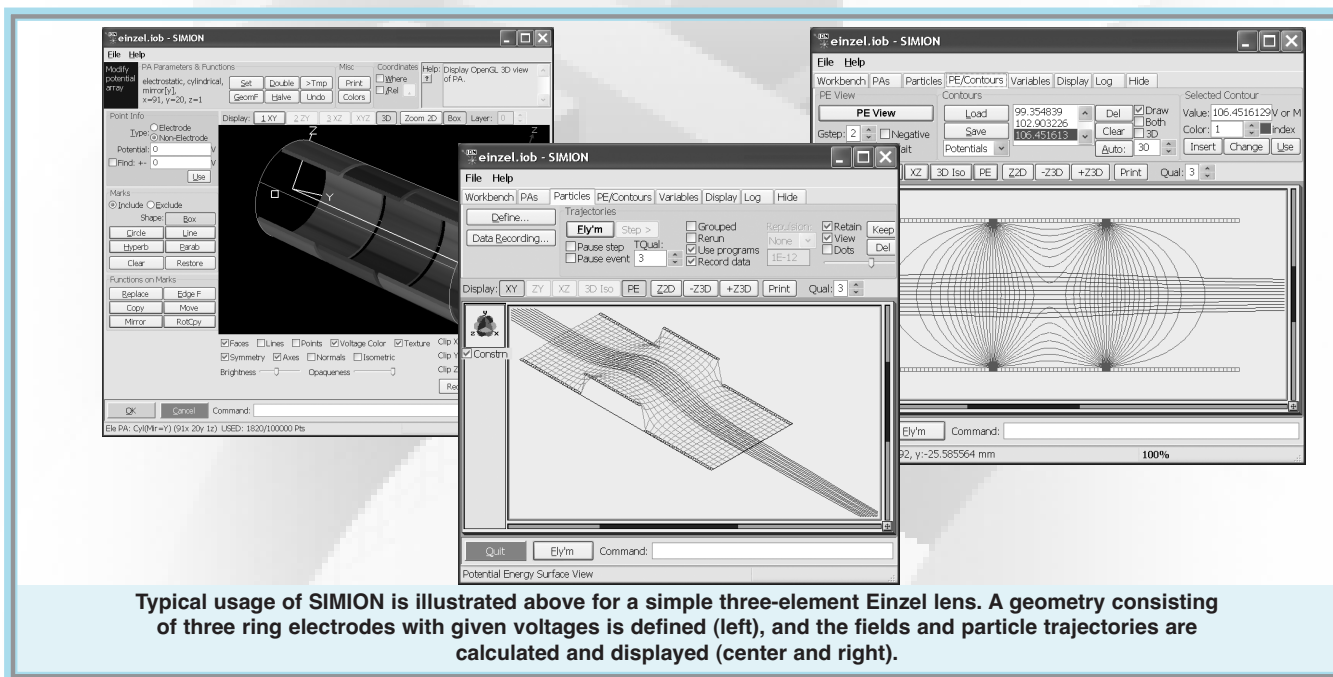
EE-GL915-NW25 SIS Oil Mist Eliminator

Part No.	Description	Price
EE-GL915-NW25	SIS Oil Mist Eliminator	
GL-915R	Coalescing Filter Replacement Element	

SIMION™ Version 8

The Industry Standard in 3D Ion and Electron Optics Simulations

Scientific Instrument Services™ has recently announced the release of SIMION version 8.0. SIMION is an award-winning Windows PC based ion/electron optics simulation program, originally developed by Idaho National Laboratory employee David Dahl and widely used by manufacturers and designers of mass spectrometers, electron microscopes, electron multipliers and other scientific instruments to study the optics of charged particles through electric and magnetic fields in two and three dimensions. SIMION is designed to provide direct, flexible, and highly interactive methods, balancing ease-of-use, speed, accuracy, and affordability in order to simulate a wide variety of real-world ion optics problems.



Typical usage of SIMION is illustrated above for a simple three-element Einzel lens. A geometry consisting of three ring electrodes with given voltages is defined (left), and the fields and particle trajectories are calculated and displayed (center and right).

SIMION 8.0 enhancements include a new updated Windows graphical user interface, importation of CAD files, new particle definition capabilities (FLY2), updated user programming interfaces (Lua/C/C++), batch mode operation (e.g. for geometry optimization), increased limits, higher performance, new examples, collision models, and the incorporation of the SL Toolkit and other tools requested by customers. Details are available at www.simion.com.

In 2005 the U.S. Department of Energy's Idaho National Laboratory (INL) licensed Scientific Instrument Services Inc.™ of Ringoes, NJ the rights to develop and maintain the software code for the SIMION suite of ion optics modeling software. S.I.S.™ has also established a SIMION web site (www.simion.com) to provide customers with information and support on SIMION.

Part No.	Description	Price
SIMION8	SIMION 8.0	
SIMION8A	SIMION 8.0 for US Academic or US Government Only	
SIMION8U	SIMION 8.0 Upgrade from SIMION 7.0	
SIMION8U2	SIMION 8.0 Upgrade from SIMION 7.0 +SIMION SL Toolkit	
SIMION8LK	SIMION 8.0 Lab Kit - For Universities Use Only - Up to 30 seats	
SIMIONV	Virtual Device Accessory Package for SIMION 6,7, or 8 (standard version)	

www.simion.com

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Scientific Instrument Services, Inc.™



BARGAIN BASEMENT

Scientific Instrument Services™ has a number of new/old stock items that we must move to make room for our new line of products offered in the 2008-2009 catalog. These are in limited supply so hurry and get a terrific deal.

Buy 10 or more items and get an additional 10% off of the purchase price. If you need additional information or descriptions regarding these items please let us know. **Please reference "Bargain Basement" when ordering.**

Item #	Description	Original Price	Bargain Price	Qty
209165	30 ml star bottle narrow mouth			3
W216800	1 oz. clear glass wheaton boston round w/ polyvinyl lined cap			2
W216921	Clear jar glass 8 oz. w/o cap Wheaton			3
221144	60 ml narrow mouth bottle boston PE liner LDPE cap.			1
221145	125 ml bottle narrow mouth Boston PE liner LDPE cap			1
223738	5 ml serum bottle glass cs/288			1
223764	50 ml bottle serum amber cs/288			1
W240596	20 mm septa TFE/R			3
240216	20400 phenolic cap w/ rubber liner cs/500			1
224124	Rubber Stopper cs/1000			2
224842	4 ml sample vial minifile clr Wheaton			1
22418201	13 mm seal ctr/te all natural unlined			1
225002	4 ml dilution vial file clear			1
225142	4 ml culture vial clear rubber liner			2
B451	Buna o-ring 11" ID 0.25" Cross-section			65
BE2	Beryllium oxide ceramic spacer TSQ or SSQ			22
CE2	Ceramic spacer Thermo #40005-20070			57
CO2PF	CO2 Filter assembly			75
EXC1	Ceramic Extrel #PMC16			110
EX1V	VespeL Insulator			210
CB2	Foredom cotton bluff			2
C3H	Foredom unmounted felt bob			5
C3M	Foredom unmounted felt bob Medium			5
C3RH	Foredom unmounted felt bob Rock Hard			3
ER103	Foredom Pencil Eraser			1
W304	Foredom Bench Access nylon brush			1
M12	Foredom access 1/8" shank			1
M3	Foredom access 3/32" shank			1
M9	Foredom access 1/8" shank			9
SD200C	Foredom sanding drum coarse			15
SD200F	Foredom sanding drum fine			7
SD200M	Foredom sanding drum Medium			4
SD300C	Foredom sanding drum coarse			8
UB20	Foredom wire brush			1
GIPL4	Injector Port Liner glass			402
GIPL7	Injection Port Liner Agilent #18740-80220			324
GIPL8	Injection Port Liner			400
E350	PEEK Finger tight			139
HP4	Ceramic insulator Agilent #05985-20139			384
NC18	Nermag insulator #1.8			18

Item #	Description	Original Price	Bargain Price	Qty
NC19	Nermag Insulator #1.9			82
NC144	Nermag insulator #1.14			40
NC121	Nermag insulator #1.21			5226
NC122	Nermag insulator #1.22			50
NC129	Nermag Insulator #1.29			55
NC1311	Nermag Insulator #13.11			1
NC1314	Nermag Insulator #13.14			27
NC1315	Nermag Insulator #13.15			20
NC1344	Nermag Insulator #13.44			34
NC1346	Nermag Insulator #13.46			111
NC24	Nermag Insulator #2.4			56
NC27	Nermag Insulator #2.7			8
NC211	Nermag Insulator #2.11			10
NC213	Nermag Insulator #2.13			82
NC34	Nermag Insulator #3.4			
OTF410	PTFE ferrules 1/4" Thermo #95001-20310			4970
OTF810	PTFE ferrules 1/8"			7350
QIPL3	Inj. Port liner quartz			413
QIPL6	Inj. Port liner Agilent #1874080200			231
R1611	Ceramic spacer			159
VG392	VG 3S100392AD1			327
VG704	VG #7021704			352
VG12	VG #7020302			1
VG16	VG #6490104			9
VG18	VG#7029404			53
VG110	VG#7020319			42
VG111	VG#7029402			43
VG112	Ceramic Spacer			38
VG113	Ceramic Spacer			39
VG115	VG #M448123AD1			7
VG117	VG#3001573			6
VG119	VG#3001542			25
VG120	VG#3001575			33
VG121	VG#1036056			37
VG122	VG#3001541			46
VG123	VG#3001572			33
VG125	VG#7022709			25
VG126	VG#S10009AD7			609
VG128	Ceramic Spacer			18
VG131	VG# S100105AD3			57
VG141	Ceramic Spacer			38
VG142	Ceramic Spacer			22
VG143	Ceramic Spacer			72
VG144	Ceramic Spacer			56
VG145	VG#ML80115AD1			74
VG147	VG#M700267AD5			89
VG148	VG# S100435AD1			39
VG149	Ceramic Spacer			29
VG150	VG#7029408			5
VG151	VG#7029409			7
Z20	Ceramic Spacer			390
Z3	Ceramic Spacer			694
4SPDX	4 outlet strip			1
6SPDX	6 outlet strip			3

ENT CLEARANCE

Item #	Description	Original Price	Bargain Price	Qty
28SP	2' power outlet strip			3
DG315S	6 Outlet 16" Strip			2
51834491	2 ml clear wide vial pk/100			2
51834598	HCGPS 1/8" single cartridge system			1
51831907	1/8" high capacity GPS			1
19091L111	HP50 15 m x 0.32 mm 0.5 µm film			1
19091L436	HP50 60m x 0.25 mm 0.25 µm film			1
19091S936	HP1-MS			1
051834780P	HP Flow Tracer			1
054071	BP-1 0.32mm x 25 m column			1
0151422	hydrocarbon trap 200 cc 1/8"			1
0161300	moisture trap 100 cc 1/8"			2
0161302	moisture trap 100 cc 1/4"			3
0161350	moisture trap 250 cc 1/8"			3
0161400	moisture trap 100 cc 1/8"			1
0161450	moisture trap 250 cc 1/8"			1
0161402	moisture trap 100 cc 1/4"			2
0171340	moisture trap 400 cc 1/8" refillable			1
0171400	moisture trap 200 cc 1/8" refillable			1
0171440	moisture trap 400 cc 1/8" refillable			1
0181500	moisture trap adsorbant 1 pint			2
G131660007	Heat Exchange Left			1
7052020	J&W syringe 10 µl cemented needle			3
7052032	J&W syringe 500 µl removable needle			2
7052070	J&W syringe 1.0 µl removable needle			2
51818810	Agilent syringe 5 µl tapered needle 5/pk			1
7052071	J&W syringe 1.0 µl removable needle			3
7052072	J&W syringe w/chaney adapter 1.0 µl			3
518345546	Manual syringe LC 250 µl RN			5
51811267	10 µl syringe tapered			1
51829610	100 µl fixed needle Gas tight 25 GA			1
7052204	Removable needle rep. 7052052			2
7052200	Removable needle rep. 7052050			1
7052202	Removable needle rep. 7052051			1
5002054	Graphite Ferrule 10/pk			2
5002014	Graphite Ferrule 10/pk			4
5002010	Graphite Ferrule 10/pk 0.8 mm			1
5002008	Graphite Ferrule 10/pk			3
5002005	Graphite Ferrule 10/pk			8
7010040	replace with 701-0077			1
7010042	hi temp blue septa 1/2" pk/100			2
7010077	med temp blue septa 3/8" pk/50			2
50808728	24/pk 9.5 mm septa			18
7050734	3 way union megabore 0.32 mm			1
7050735	3 way union megabore 0.25 mm			1
7050736	3 way union			1
7010080	General purpose septa 3/8" pk/50			1
7010084	pk/50 med. Temp. septa Shimadzu			2

Item #	Description	Original Price	Bargain Price	Qty
7010090	Premium gold septa 11 mm pk/50			2
51820714	Screw cap clear AS pk/100			4
51820551	4 ml wash/waste vial 25/pk			1
51813375	2 ml clear wide mouth crimp 100/pk			8
51813377	insert 500/pk			2
51820553	screw cap & clear vial			1
51834474	round bottom crimp vial 20 ml			1
51811270	vial insert wide opening			1
93010977	vials 0.1 ml 100/pk			6
51834478	1 piece 20 mm crimp cap			5
51811211	11 mm crimp cap ptfe/s/ptfe			1
51811210	11 mm aluminum cap			3
51820550	Snap Cap red rubber Septa			3
16022501	Fused Silica undeactivated			18
16026101	FS Undeact. 0.180 mm x 1 m			3
16022551	FS Deact. 0.25 mm x 1 m			1
16026151	FS Deact. 0.180 mm x 1m			4
16025351	FS Deact. 0.530 mm x 1 m			13
16026341	FS undeact. 0.1 mm x 1 m			10
16023251	FS Deact. 0.32 mm x 1 m			7
1602641	MS transfer tubing			1
16026551	FS Deact. 0.5 mm x 1 m			3
51813397	Quartz y splitter			2
51818818	Splitless inj. Liner 2 mm id			21
51832037	PTV liner multiple baffle			1
1874080200	direct inj liner			2
1874080220	inj port liner splitless			2
51834647	split/splitless liner low pressure			2
4800001	Flame detector cleaning kit			2
51834599	HCGPS single cartridge 1/4"			1
7991903584	Synchropak C18 HPLC col.			1
0589061260	Chem filter 5890			1
1010379	Sample vial 100/pk 100 ul			1
7985368741	79853C std flow cell			1
G235061090	Discharge tube kit G2350			3
G160060210	Alignment interface			2
G2431A	ESI tuning mix			1
1882920	SPE 3 ml 200 mg Evidex 50/pk			1
820675124	Guard cartridge 2 pk			1
840140901	Prep guard hardware kit			1
0598560243	exhaust hose			1
1923980505	CO2 cryo weldment			1
880995206	HPLC column 300 SB-C8			1
0599060019	PDR-REM Cable			1
0597060046	5890 gland assembly			1
31500617	0.5 UM Water Filter Element			1
31600209	HP/Fan Assembly			1
G153060560	Signal cable			2
0598520431	Spring			2
51813395	column connector 5/pk			6
0598520593	DIP cup assembly			3
0598520139	ceramic tube			2
5150964	max mounting screw 0.7			2
0599020261	key hex gold cap screw			1
0599000188	spring contact left			1
1874020880	SS seal			5
93011421	solvent res. 1 L w/cap			2
6000003	Replacement glass buretter low flow			2

NEW PRODUCTS CORNER

FROM SCIENTIFIC INSTRUMENT SERVICES

New Objective Products

We are proud to carry the complete line of New Objective Products. These great products include:

- Electrospray tips
- PicoFrit Columns
- PicoClear Unions
- Nanospray Sources
- Trap'n Tip Sample Prep Tips

We will highlight a few of the new products with each newsletter; we will showcase Trap'n Tip, NuTip and the Nanospray sources in this edition.

Items to be featured in future Newsletters include:

- ASI Products including Variable & fixed flowrate splitters, & mixers.
- KD Scientific Syringe Pumps

Other new product lines will be featured in the next newsletter scheduled for Fall 2007 release.

Items to be included are:

- ASI Products
- Splitters
 - △ Variable
 - △ Fixed
- Mixers
 - △ Gradient
- KD Scientific Syringe Pumps

- Optimize Product Line
 - △ Columns
 - △ Filters
 - △ Deuterium Lamps
 - △ Check Valves
- New Micro Mesh Products
- New Dry Vacuum Pumps

- New ULRIC Vacuum Fittings
- New O-Rings
- New Vacuum Gauges and Controllers
- New HPLC columns: Optimize, SGE, & New Objective
- New lower cost ferrules
- New Computer controlled stand alone cryotrap

TRAP'N TIP™ SAMPLE PREP TIPS

Trap'n Tip ready-made, disposable pipette tips with micro-chromatography columns are perfect for sensitive, fast, and convenient purification of peptide mixtures and proteins. Chromatography material is directly attached to the inner surface of the tip without the use of any polymers or glue.

- One time use
- Excellent sensitivity: For use in the low-femtomole to high-attomole range
- High reproducibility: No tip variation, very reliable methods, and superb ease of use
- High throughput: Load, wash and elute at high flow rates (>300 $\mu\text{L}/\text{min}$) using low back pressure

Part Number	Sorbent	Qty. /box	Price
NOTNTC18	C18	96	
NOTNTCAR	Carbon	96	
NOTNTMC18	C18/Carbon	96	
NOTNTTI	Titanium	96	
NOTNTZR	Zirconium	96	



NuTip™ Sample Prep Tips



Ready-made, disposable pipette tips with C18 micro-columns for fast, simple purification of peptide mixtures and proteins. Perfect for MALDI and offline applications.

Part Number	Description	Qty. /box	Price
NONT1C18	NuTip Sample Prep Tips	96	

NEW OBJECTIVE PICOVIEW® NANOSPRAY SOURCES

High-Sensitivity Nanospray Sources

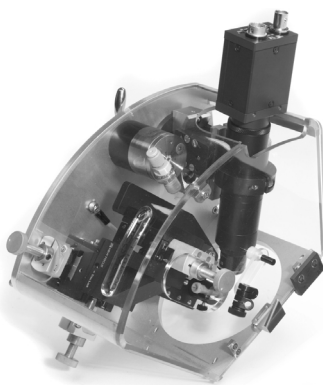
The PicoView nanospray source increases sensitivity while providing the ultimate in flexibility and control over your experiment. Designed specifically to maximize the PicoFrit® technology, PicoView enables subfemtomole proteomics and biomolecule analysis at flow rates from <math><10\text{ ml/min}</math> to

Go to our website at: <http://www.sisweb.com/lc/new-objective/picoview.htm> for more complete details on the PicoView Nanospray Sources.



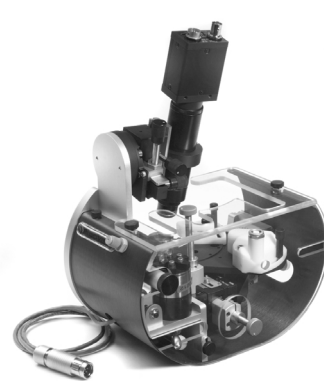
PV150

For Thermo Finnigan LCQ™ Classic, Deca



PV200

For Bruker Esquire™/HCT, Agilent LC-MSD/Trap XCT



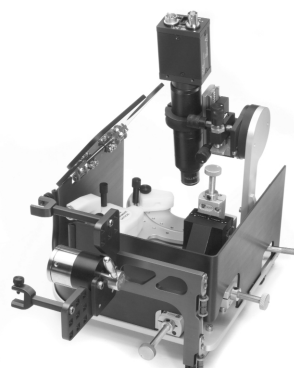
PV300

For MicroMass® Q-ToF™ and ZSpray™ equipped systems



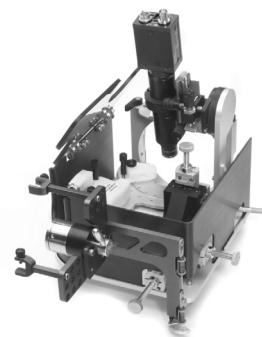
PV400

For ABI QSTAR®



PV500

For Thermo Finnigan LCQ™ Deca XP and Deca XP Plus



PV550

For Thermo Finnigan LTQ™/LTQ-FT™ and Deca XP Max™

PicoView® Source Ordering Information

Part Number	Mass Spectrometer Type	Price
PV-200-A	Agilent LC/MSD-Trap	
PV-400-Q	Applied Biosystems QSTAR®	
PV-200-E	Bruker Esquire™ Series	
Micromass (Waters)		
PV-300-Q	Q-ToF® Series	
PV-300-L	LCT™ Series	
Thermo Finnigan		
PV-150-C	LCQ™ Classic	
PV-150-D	LCQ™ Deca	
PV-500-X	LCQ™ Deca XP/XP Plus	
PV-500-L	LCQ™ Deca XP Max™	
PV-550-L	LTQ™ / LTQ-FT™	

When ordering please indicate if 220V system is required

High Magnification Kit

Add Taylor cone visualization capability to your PV150, PV400, or PV500/PV550 with this lens kit. 4x and 6.5x objective lenses provide very high magnification imaging for emitter tip and cone.

Part Number	Description	Price
HMK001	High Magnification Kit	

High-Voltage Contact Upgrade for PV-100

This gold-plated spring bellows replacement assembly provides optional long-term reliability and durability to PicoView® 100 system voltage modules. Easy assembly instruction included.

Part Number	Description	Price
CTU001	High Voltage Contact Upgrade for PV-100	

MATRICAL™ MICROWELL PLATES

MatriPlate™ - Microwell Assay and Storage Plates

The unique, patented MatriPlate microwell design optimizes liquid handling and robotics integration to provide unmatched results for high throughput assays of all types, including fluorescence, luminescence, and chemiluminescence. MatriPlates feature an inverted, cropped-pyramid well design which allows light to both enter and exit the well in the most efficient manner.

MatriLids™

Storage Plate Lids

Maximize the value of a compound collection through preservation of sample integrity. MatriLids are robotics friendly and provide unlimited plate access without damaging the plates.

Part No.	Description	Color	Price ea.	Price/ Case of 120
ML121-0	Plate Lids	Clear		
ML121-1	Plate Lids	Black		

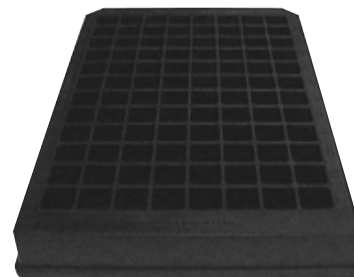
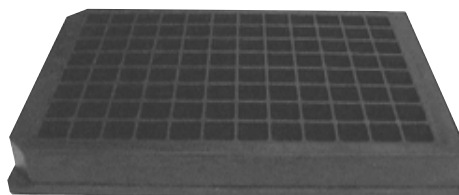


96-well Microplates

Standard and Low Volume MatriPlates™

Features:

- MP096 series offers 100-630 μ l working volume. A constant surface-area-to-volume and plastic-area-to-volume allows direct miniaturization to 384 or 1536-well format without requiring that you reformat your assay.
- Are optimized for fluorescence, luminescence, fluorescence polarization and time resolved fluorescence.
- Ensure strict adherence to ANSI/ SBS tolerances, including plate flatness. Polypropylene parts tend to change shape over time, which is detrimental to pipetting. MatriCal polypropylene microwell plates contain a 2 micron ceramic glass bead filler to provide additional structural rigidity. Because polypropylene fully coats any additive included in the molding process, the samples will not be exposed to the glass bead.
- Are ideal for detectors using CCD or PMT technology including LeadSeeker™, ViewLux™, Victor™, Fusion™, Envision™, Analyst™, Acquest™, Ultra™ and more.
- Offer a wide variety of options, including: black, white or clear; polystyrene or polypropylene; low-binding Teflon-filled polypropylene; sterile; and special surface treatments, including tissue culture, poly D-lysine, fibronectin, collagen and more.



Applications:

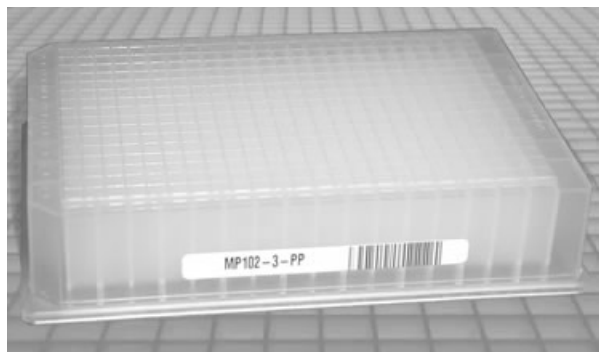
- High Throughput LC/MS
- Chemiluminescence assays
- Fluorescence assays
- Colorimetric assay
- Cell based assays

Part No.	Description	Color	Price ea.	Price/ Case of 100
MP096-X-PS-W	100-630 μ l well plate, Polystyrene	White		
MP096-X-PS-B	100-630 μ l well plate, Polystyrene	Black		
MP096-X-PS-C	100-630 μ l well plate, Polystyrene	Clear		
MP096-X-PP-W	100-630 μ l well plate, Polypropylene	White		
MP096-X-PP-B	100-630 μ l well plate, Polypropylene	Black		
MP096-X-PP-C	100-630 μ l well plate, Polypropylene	Clear		

DeepWell - 384 well MatriPlate™

Features:

- Provides an ideal footprint for automated 96 and 384 channel pipettors.
- Constructed from virgin polypropylene.
- Offers a 225µl working volume with less than 2µl dead volume.
- Highly rigid side walls ensure robotic compatibility.
- Superior well bottom flatness ensures uniform pipetting and extremely low dead volume
- Raised rim around each well provides a reliable sealing edge.
- Designed in collaboration with MatriCal's pharmaceutical partners.



MATRICAL™ MICROWELL PLATES

Applications of Interest

- Compound Storage
- Dilution or Daughter plate

Part No.	Volume	Material	Color	Qty./Case	Price
MP102-3-PP	225µl	Polypropylene	Natural	50	

Chemically Resistant - 384-well and 1536-well MatriPlate

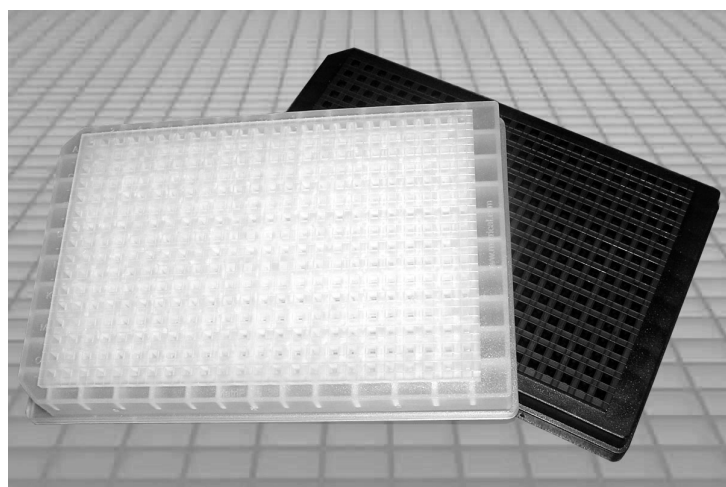
Features:

- Constructed of high-grade polypropylene for superior chemical resistance with added rigidity.
- Made in 10, 20 and 30µl volumes to allow for minimal head space during storage.
- Unique inverted, cropped-pyramid well design enhances assay signal through better light transfer, directs automated 96 or 384 pipettor tips into sample wells, eliminates vapor lock bubble formation, and ensures easier scaling.
- Well geometry ensures a dead volume of less than 0.5µl.
- Strict adherence to Society of Biomolecular Screening (SBS) and ANSI standards for all dimensions with superior surface and well-bottom flatness.
- Double ridges around sample well ensure liquid-tight seals with the MatriPress compression stacker and gasketed lids (patent pending) or heat seal.
- Available in black or natural, non-sterile or sterile. MatriCal's beveled well walls ensure automated pipettor tips are precisely directed into the bottom of the wells.

Applications of Interest

- Chemiluminescence assays
- Fluorescence assays
- Compound storage

Part No.	Volume	Material	Color	Qty./Case	Price
384-well MatriPlate™					
MCR101-1-1	10µl	Polypropylene	Black	100	
MCR101-1-2	20µl	Polypropylene		100	
MCR101-1-3	30µl	Polypropylene		100	
MCR101-3-1	10µl	Polypropylene	Natural	100	
MCR101-3-2	20µl	Polypropylene	Natural	100	
MCR101-3-3	30µl	Polypropylene	Natural	100	
1536-well MatriPlate™					
MCR111-1-1	6µl	Polypropylene	Black	100	
MCR111-3-1	6µl	Polypropylene	Natural	100	



More information is
available on our website at:

www.sisweb.com/catalog/08/E60

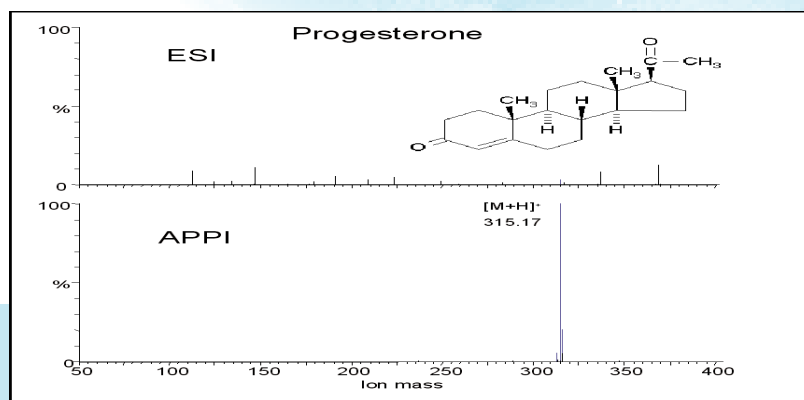
SIS™ is proud to offer APPI Sources from Syagen for Legacy LC/MS Instruments

Syagen's Atmospheric Pressure Photoionization source has been developed specifically for the Waters Micromass ZMD, LCT, Quattro Ultima, Quattro Ultima Platinum, Quattro II, QToF I & II "Fishbowl" Z Spray design and Thermo LCQ and Quantum instruments.

APPI has become the method of choice for many applications because of important advantages over the conventional methods of atmospheric pressure chemical ionization (APCI) and electrospray ionization (ESI). The latter methods are based on the charge affinity of analyte molecule (e.g., protonation for positive ionization). Because the affinity for charge can vary widely for different molecules, the ionization efficiencies can likewise vary widely. Competition for charge can also lead to ion suppression. Photoionization works on a different principle. The excitation of a molecule by a photon can directly eject an electron if the photon energy exceeds the ionization potential of the molecule. This process is independent of the surrounding molecules, thereby reducing ion suppression effects. APPI is also a soft ionization method that minimizes ion fragmentation.

APPI is an important complement to ESI and APCI by expanding the range and classes of compounds that can be analyzed, including nonpolar molecules that are not easily ionized by ESI or APCI.

Experience the benefits of APPI and expand the capabilities of your LC/MS systems.



Part Number	Mass Spectrometer Type
00402	Thermo LCQ APPI
00437	Thermo Quantum APPI
00669	Water Micromass "fishbowl" APPI
01010	Photoionization Lamp APPI,VUV (10.6 eVkr)

More information is
available on our website at:

<http://www.sisweb.com/lc/syagen/appisource.htm>

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