



ENTECH
INSTRUMENTS

See What's Really There™



2022 CATALOG

Solutions for Chemical Monitoring & Analysis

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President's Letter



Entech Instruments is continuing its tradition of providing the most advanced and accurate sample preparations systems available for headspace and gas sample analysis by GC and GCMS. Our new Multi-Capillary Column Trapping Systems (MCCTS) are transforming the way that gas phase sample preconcentration is performed prior to GC injection, all without the use of liquid nitrogen or even electronic cooling systems. These "fan cooled", extremely robust and reliable multi-stage capillary column traps manage water and CO₂ hundreds of times better than any packed trap system. This means much faster release for better chromatography, supporting "faster" GC methods, while also demonstrating far better immunity to contamination when exposed to high concentration

samples. Our MCCTS traps have been implemented in a full cryogen free TO15 solution with much faster GC injections and shorter run times than other TO15 systems on the market. Other applications using this revolutionary capillary trapping technology will also soon be announced.

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Entech's patent pending Sorbent Pen™ technology takes SPME to the next level by providing enhanced sensitivity, improved quantitation, and greater robustness than its fiber-based predecessor. Sorbent Pens utilize a unique flow through cartridge that forms a seal on a vial allowing a vacuum to be created within the vial. This new technique called VASE (Vacuum Assisted Sorbent Extraction) has been demonstrated to cover the entire range of analytes from the lightest volatile compounds (Freon 12/Vinyl Chloride and others) to very heavy 5-6 ring PAH compounds, while remaining in the headspace to avoid actual contact with the sample matrix. With 50-150x higher phase loading and the use of traditional adsorbents with thousands of times more surface area than SPME, the Sorbent Pen™ can fully extract difficult compounds from complex matrices providing superior sensitivity and reproducibility. Sorbent Pens are also available for performing Diffusive and Active air monitoring, making the Sorbent Pen technique extremely versatile. Our newly released SPR40 -Sample Preparation Rail promises to be a game changer for headspace sample preparation and general thermal desorption methods. Rather than desorbing a TD tube into a completely different instrument with separate traps, transfer lines, and rotary valves to have to clean and maintain, the SPR40 allows thermal desorption of Sorbent Pens directly into a GC or GCMS to allow dramatically improved recovery, consistency, and easy of maintenance. Watch for a new wave of applications coming out in 2019-2020 using the SPR40 Robotic inlet.

Our unmatched Silonite™ surface coatings continue to be perfected, resulting in the most consistent, durable, and inert coatings available for GC inlet systems and for mercury vapor handling without surface interactions. Silonite™ surface treatments play a vital role in achieving our ultimate goal; to provide our customers with complete solutions for "analytical grade" VOC and SVOC handling and inlet systems that can sample, store, and recover virtually all GCMS compatible compounds.

Finally, for US EPA Method TO-15 and China HJ-759, Entech is proud to be the only supplier that manufacturers and supports the complete solution for sampling and analysis of airborne contaminants using Silonite™ coated stainless steel canisters. Entech has assembled an extraordinary and talented team of Chemists and Service Engineers with a combined knowledge of over 200 years of laboratory and field experience – to provide our clients with premier customer service and on-site support. To our valued customers we would like to say thank you for your patronage through the years and we look forward to servicing your analytical needs for many years to come.

Sincerely,
Daniel B. Cardin – President



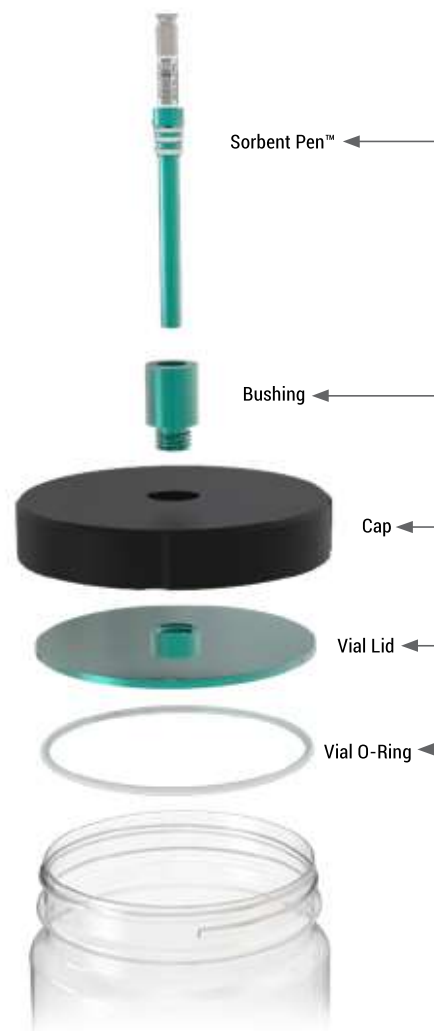
Entech Instruments is a leading developer and manufacturer of analytical instrumentation that supports professionals around the world in the Environmental, Industrial Hygiene, Food & Beverage, Product Testing, Forensics, and Clinical Analysis markets.

To provide solutions for such a diverse set of industry applications, Entech has assembled an extraordinary and talented team – a combined knowledge of over 200 years of laboratory and field experience – to provide our clients with premier customer service and on-site support. We invite you to share your application challenges and requirements so we can create a customized solution just for you.

~ The Entech Team

Glassware, Caps, Lids, & Misc Parts

Description	Unit	Qty. Incl.	Part #
Headspace Vials (vial caps and lids sold separately)			
20mL Clear Vials	Pack	72	39-75020
20mL Amber Vials	Pack	72	39-75020A
40mL Clear Vials	Pack	72	39-75040
40mL Amber Vials	Pack	72	39-75040A
60mL Clear Vials	Pack	72	39-75060
60mL Amber Vials	Pack	72	39-75060A
125mL LVSH Vials	Pack	12	39-75125BW
250mL LVSH Vials	Pack	24	39-75250BW
500mL LVSH Vials	Pack	12	39-75500W
1L LVSH Vials	Pack	12	39-75L1W
Headspace Bottles			
125mL Amber Bottles, deactivated*	Pack	24	39-75125AD
250mL Amber Bottles, deactivated*	Pack	12	39-75250AD
500mL Amber Bottles, deactivated	Pack	12	39-75500AD
Sorbent Pen Bushing for 125 / 250 / 500 / 1L Vials			
Bushing	EA	1	SP-L100S
Vial Caps			
Plastic Vial Caps for 20 / 40 / 60mL Vials	Pack	144	39-76044B
High Temp Vial Cap for 125mL Vials	EA	1	39-76812HS
High Temp Vial Cap for 250mL Vials	EA	1	39-76825HS
High Temp Vial Cap for 500mL Vials	EA	1	39-76850HS
High Temp Vial Cap for 1L Vials	EA	1	39-76894HS
Vial Lids			
Silonite Coated Sorbent Pen Receiver Lid for 20 / 40 / 60mL Vials + All Bottle-Vac Sizes	EA	1	SP-L024S
125mL Silonite™ Lid for Micro-QT Valve	EA	1	HS-76012S
250mL Silonite™ Lid for Micro-QT Valve	EA	1	HS-76025S
500mL Silonite™ Lid for Micro-QT Valve	EA	1	HS-76050S
1L Silonite™ Lid for Micro-QT Valve	EA	1	HS-76100S
Individual O-Rings			
White Viton O-Rings for 20 / 40 / 60mL vials (10 ct)	Pack	1	SP-OR-L024
Viton O-Rings for 125mL Vials	EA	1	39-20629
Viton O-Rings for 250mL Vials	EA	1	39-26M02-48
Viton O-Rings for 500mL Vials	EA	1	39-76508V
Viton O-Rings for 1L Vials	EA	1	39-26151
Viton O-Rings for Sorbent Pen Bushing	EA	1	39-26012



SPR

Sample Preparation Rail

VASE & Sorbent Pen™ Automation

Take productivity to a whole new level by combining the award winning VASE & Sorbent Pen™ extraction solution with Entech's new Sample Preparation Rail (SPR). The SPR40 delivers unattended sample prep options and unattended desorption of up to 120 pre-extracted Sorbent Pens.

