

# Mercury

## Sorbent Traps



### OHIO LUMEX SORBENT TRAPS

#### UNIQUE TRAP FEATURES

- Exceptionally low mercury background
- Sorption Capacity up to MILLIONS of ng
- Each trap is individually numbered with High Temperature ink
- "Chain of Custody" accompanies each trap
- Easy On/Off "leak check" cap plugs
- Thick extra durable glass
- Tapered glass for convenient and safe use
- Long term storage stability, up to 2 years
- Available in 10mm, 6mm, 2 section, 3 section
- Custom Made to your stack conditions
- Reliable, Extensively Field Tested, PROVEN!
- Now BARCODED!!! Every trap as well as its chain of custody gets an individual barcode

#### ACCURATE CUSTOM SPIKING

- Vapor-spiked with elemental mercury at any level
- Spiking YOU can analyze as low as 10ng
- Strict QAQC through every step
- Available from stock or custom-spiked for you

### INDUSTRY LEADING SORBENT TRAPS FOR MERCURY EMISSION MONITORING

At Ohio Lumex, we have an extensive QAQC process for every step of carbon and sorbent trap manufacturing. There are QAQC procedures in place to qualify all the components going into the sorbent traps as well as in doing spiking, analyzing spiking, and maintaining records. Everything is computerized and every trap is triple checked to be of the highest quality.

Each sorbent trap is made in-house where we have control over the entire manufacturing process. Our manufacturing allows us to customize the traps for you. That way we are certain that our traps are the BEST for your stack conditions. In addition, each trap is spiked at any custom level supplied by the customer. The sorbent traps are spiked with elemental mercury gas using the process of reduction of NIST traceable standards with Stannous Chloride. The process is computerized as well as checked over by a chemist. Then 10% to 20% of all the spiked traps are tested for quality assurance. If they do not pass the test they are all scrapped and the process starts all over again. This allows us to be certain of every trap that is sold. In addition, 100% of all traps are inspected at 3 separate checkpoints as well as entered into our computer system at each step.

#### A TURNKEY SOLUTION FOR Hg MONITORING

Why wait to see IF the Instrumental CEMMS will work when you can be in compliance tomorrow? All it takes is a simple sorbent trap sampling system, a pair of traps, and a laboratory you trust. At Ohio Lumex, we have the expertise, products, and lab services to be your partner in accurate mercury emission measurements. This is certainly the least expensive and convenient route to go! **ASK US HOW WE CAN HELP!**



9263 Ravenna Rd., Unit A-3, Twinsburg, OH 44087

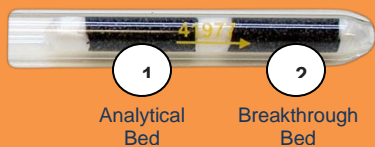
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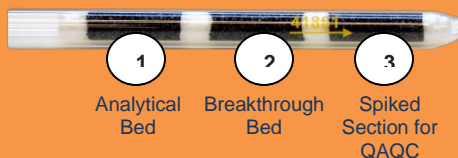
MAIL@OHIOLUMEX.COM

## SORBENT TRAPS AVAILABLE



### 30B RATA SORBENT TRAPS

- The Ohio Lumex 30B Sorbent Trap was specifically designed for Method 30B.
- Large internal diameter and individually packed for high flow which allows a flow rate of up to 4 lpm without experiencing pressure drop or pluggage.
- This higher flow rate places the operator in control of Hg mass loading and makes it easier to target spike levels.
- Carefully sized to fit the Sorbent Trap Analyzer precisely to minimize analysis time.
- Specially made with our "Zero" background carbon which is imperative for low mass emitters.
- Extra durable for the field.
- Can be used in Wet and Dry stacks.
- Individually numbered and accompanied by Chain of Custody.



### PS 12B / APPENDIX K SORBENT TRAPS

- Ohio Lumex Appendix K traps are specially made for long term (7 + days) sampling.
- Third section is pre-spiked with elemental Hg at any customized level.
- Typically customized specifically to the stack conditions of the source.
- More than 30 sources are currently using our Appendix K traps for continuous monitoring and reporting.
- Zero "break-through" and high spike recoveries for extended test periods in "wet" and "dry" stack conditions.

### SPECIATION TRAPS

If you need to know your proportion of Oxidized to Elemental Hg, then speciation traps are the solution. These 5 section traps allow you to separate the Hg into the two species. Give us a Call for more details.

Our traps are now **BARCODED!** You will find the barcodes in the top left hand corner of the Chain of Custody as well as on the sorbent traps themselves! Barcodes make the production process faster, identification better, eliminate transcription errors.



Trap ID: **OL184042**

**OHIO LUMEX**  
Sorbent Trap Chain of Custody

Plant/Source: \_\_\_\_\_ Test Location: \_\_\_\_\_

Trap **A** **B** (City) \_\_\_\_\_

☐ Unspiked ☒ Spiked At: 1000ng QA/QC Signature \_\_\_\_\_  
Certified Accuracy  $\pm$  10%, Traceable to NIST

Spike Date: 6/21/2013 Spike Time: 1440 QA/QC Signature \_\_\_\_\_

Estimated Hg in Section 1: \_\_\_\_\_ ng

☐ High Flow ☐ Static Pre-filter

### CUSTOM MADE SORBENT TRAPS

Whether you run into High Moisture, High Particulate, High Temperature, High Acid Gas, or anything else in the flue gas; we have the traps that will work perfectly for you. We have seen just about everything and have the custom solution that will work best for your stack conditions. AND you won't pay a penny more! Just give us a chance and you won't be disappointed.



### OUR GUARANTEE

What makes us really unique is that we make every part of each sorbent trap in-house. This allows us to be in control of each step of the manufacturing process and to use the most extensive QA/QC procedures. Throughout our years of experience in manufacturing sorbent traps we have run into a multitude of different types of stacks and potential problems for sorbent traps such as pluggage with particulate, breakthrough, and spike loss. However, we have been able to overcome each and every situation with a special trap to solve the problem for each client. We will work with you until the traps work perfectly and we will even custom make and custom spike the traps for your particular stack conditions. The sorbent traps we will provide for you are performance guaranteed!

### LABORATORY ANALYSIS AVAILABLE

- Ohio Lumex is a full staff laboratory capable of doing all of your sorbent trap analysis.
- We analyze Coal and Fly Ash as well.
- Standard Turnaround is 1 week.
- We can do Same Day RUSH analysis!
- We utilize the most extensive QA/QC per Method 30B and PS 12B.
- We have analyzed 1000's of Sorbent Traps.
- Bulk discounts available for Sorbent Trap and Analysis Customers.

