



# OLM30B Sampler

For Total and Speciated Hg Measurements

Sorbent Trap Sampling System

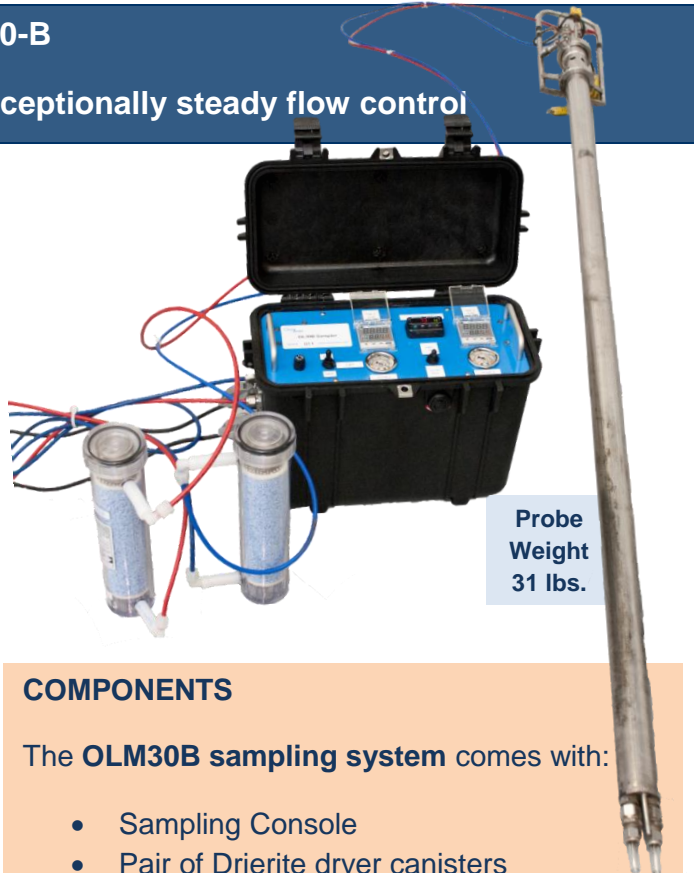


*your partner for mercury testing*

(ES) Equipements Scientifiques SA - Département Bio-tests & Industries - 127 rue de Buzenval BP 26 - 92380 Garches  
Tél. 01 47 95 99 90 - Fax. 01 47 01 16 22 - e-mail: [bio@es-france.com](mailto:bio@es-france.com) - Site Web: [www.es-france.com](http://www.es-france.com)

The **OLM30B console** is a dual train, fully functional sampling system, complete with Mass Flow Controllers, vacuum gauges, a WatLow controller with thermocouple input and probe power port. Due to the Mass Flow Controllers, the system is cable of sampling at extremely low or high flow rates and stack temperatures. The flow rates are also effortlessly adjusted and the total volumes are clearly displayed and easy to reset. The sampling probe accepts 10mm sorbent traps, is heated at full length, and has external cooling capability. A cooling blower provides enough cooling air to use probe in Speciating mode.

- RESOLUTION: 0.01L
- ACCURACY:  $\pm 2\%$  FS Max
- REPEATABILITY:  $\pm 1\%$  FS Max
- FLOW: 0-2 Liters Per Minute (Greater Optional)
- VOLTS: 110/220
- POWER: 500 WATTS
- OPERATING TEMPERATURE:  $-10^{\circ}\text{C}$  ---  $+50^{\circ}\text{C}$



## COMPONENTS

The **OLM30B sampling system** comes with:

- Sampling Console
- Pair of Drierite dryer canisters
- Sampling Probe with cooling port
- Air Lines
- Power Lines/ Thermocouple Line
- Cooling Blower
- Cooling Hose/ Clamp Assembly
- NIST Traceable Calibration Kit (optional)

## Summary of Method 30B

Method 30B is a procedure for measuring total vapor phase mercury (Hg) emissions from coal-fired combustion sources using sorbent trap sampling and a "wet" or thermal analytical technique for analysis. Known volumes of flue gas are sampled from a stack or duct through paired, in-stack sorbent traps at an appropriate flow rate. Mercury is concentrated in the sorbent traps for a predetermined sampling period. The traps are easily transported for analysis. The average mercury concentration for the sampling period is determined by using the sample volumes measured and the results of the sorbent trap analysis.

## KEY ADVANTAGES

- Very **light weight** (approx. 15 lbs and 31lbs for Probe)
- **Water Resistant**
- Provides a **steady flow rate** thanks to mass flow controllers with wide turn-down ratio and high accuracy
- **Modular** and easily transportable
- **Simple** to use
- **"Set It and Forget It,"** No adjustments required during sampling
- Ability to perform **Total and Speciating Hg** using cooling / heated probe
- **Fully Compliant with US EPA Reference Method 30B**



The **OLM30B Sampler** is designed for portability and ease of use to perform short term RATA sampling, CEM performance certifications,

diagnostic studies for mercury control technologies, and baseline testing. This low cost, compact, and field-proven system is easy to learn and use. And it is ideal for sampling mercury emissions based on Reference Method 30B of the U.S. EPA Appendix K, 40CFR, Part 60. The sampler is housed in a rugged, portable case that can withstand even the harshest testing environments. The system extracts two separate flue gas samples through co-located sorbent traps attached to the end of heated or cooled sample probe. It is a dual action probe which has the ability to be both heated and cooled depending on the sampling conditions.



The **dryer unit** is an indicator based Drierite dryer. These appear blue in color while still active, and fade to a pink color when spent. Dryer material is able to be regenerated.

## WARRANTY:

The system is assembled and tested in Twinsburg, Ohio. The system must pass The Factory Acceptance Testing. One year 100% warranty on parts and labor, except consumables (scrubbers.)





## Sorbent Traps

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 doing spiking, analyzing spiking, and maintaining records. Everything is computerized and every trap is triple checked to be of the highest quality.



- Exceptionally low mercury background
- Sorption capacity up to millions of ng
- Thick extra durable glass
- Accurate custom spiking
- Custom made to your stack conditions
- Each trap is individually numbered with High Temperature Ink
- "Chain of custody" accompanies each trap
- Long term storage stability (up to 2 years)



## Our Credo

We base our business values on trust, accuracy and reliability. We strive to meet and exceed our customers' expectations on a professional level to help mitigate the effects of environmental mercury. Our goal is to be recognized as the leader in analytical mercury technology around the world and being a leader means we will effectuate tremendous customer satisfaction, product superiority, and relentless innovation.

**OHIO**  
**LUMEX**