

HAP Metals Sorbent Trap

Trace metals measurements

Developed through EPA's Small Business Innovation and Research (SBIR) program, this sorbent trap provides an alternative to EPA Method 29 for determining the concentration of a broad range of metals in stack gas.

Benefits include:

- ▶ Easy to use
- ▶ No hazardous shipping
- ▶ Significant cost savings compared to EPA Method 29
- ▶ Improved data quality, due to performance criteria based on EPA Method 30B and Performance Specification 12B

Features

- ▶ Small, lightweight, and easy to use
- ▶ Sample extremely stable for long periods of time
- ▶ Improved data quality compared to Method 29
- ▶ No hazardous shipping required
- ▶ Improved Turnaround Times (TAT) and expediting options
- ▶ In-trap filtration system to differentiate between filterable and gas-phase metals
- ▶ Two versions of the sorbent trap available: two-section (for intermittent stack testing over short durations) and three-section (for sampling up to 7 days)



Typical Applications

- ▶ Coal-fired power plants
- ▶ Incinerators
- ▶ Cement production plants
- ▶ Lead-acid battery recycling plants
- ▶ Metal smelters
- ▶ Vitrification processes

Available Measurements

- ▶ Antimony (Sb)
- ▶ Arsenic (As)
- ▶ Beryllium (Be)
- ▶ Cadmium (Cd)
- ▶ Chromium (Cr)
- ▶ Cobalt (Co)
- ▶ Lead (Pb)
- ▶ Manganese (Mn)
- ▶ Nickel (Ni)
- ▶ Selenium (Se)

* Other metals may be available upon request, depending on application and expected concentration