

# HAPSITE® Headspace Sampling System

An accessory for HAPSITE  
Chemical Identification System



## At the Sample—On-Scene, Decision-Quality Data on VOCs in Water, Soils, and Solids

The HAPSITE Headspace Sampling System enhances the capabilities of the HAPSITE Chemical Identification System to provide highly accurate, on-scene analysis of volatile organic compounds (VOCs) in soil or water. With its fast and easy sampling, the system ensures immediate results in the field for occupational and environmental health and safety decisions.

### FAST, ACCURATE RESULTS

The HAPSITE Headspace Sampling System, controlled through the HAPSITE user interface, is ready to analyze samples in minutes. Its rapid sample throughput means no time is lost waiting for reports, enabling immediate decision-making and response, if required. Twenty to 25 samples can easily be analyzed in an eight-hour day.

The system provides results equivalent to running EPA method 8260 in a laboratory, but within minutes and without leaving the site. This virtually eliminates chain-of-custody and sample-contamination/degradation problems.

### PRESERVES SAMPLE INTEGRITY FOR PROMPT, CONFIRMATORY RESULTS

The HAPSITE Headspace Sampling System uses the equilibrium headspace method—the ideal sample introduction technique for VOCs in water or soil. Samples are loaded into glass vials, placed in the oven, and heated to a preselected temperature. When equilibrium has been established, the headspace in the vial is flushed with a



The HAPSITE Headspace Sampling System uses the standard HAPSITE nitrogen canister and NiMH battery.

### ADVANTAGES AT A GLANCE

- the only battery-operated headspace sampler for field use
- results comparable to EPA method 8260
- convenient inlet system for analyzing soil, water, and solid samples
- integrated with the HAPSITE data system
- modular, low-maintenance design for rugged environments
- uses standard VOA vials

VOC-free carrier gas and drawn into the HAPSITE, where any VOCs are identified and measured.

Typical detection limits are in the low parts-per-billion (ppb) to parts-per-trillion (ppt) range. High-concentration samples can be run without dilution.

### ENGINEERED FOR THE FIELD

The complete, durable HAPSITE Headspace Sampling System operates on a rechargeable battery for field use or from a 24-volt converter when external power is available. Developed to withstand harsh conditions, the entire unit is weatherproof and easily decontaminated.

### MAKE THE RIGHT DECISION—FAST

The HAPSITE Headspace Sampling System for the HAPSITE Chemical Identification System provides environmental testing professionals with powerful analysis and confirmatory results, ease of use, and economy under the broad range of field conditions. It saves time and money when used to support waste-site remediation and investigation, testing for worker exposure to toxic compounds in manufacturing facilities, emergency response, or regulatory compliance.



The oven accommodates four standard 40-ml vials. Needle can be easily inserted for withdrawing the sample.

### SPECIFICATIONS

Operating conditions	10–45°C, up to 95% RH non-condensing
Dimensions (W x L x H)	36 x 39.5 x 19 cm (14 x 15.5 x 7.5 in.)
Weight	11 kg. (26 lb.)
Power consumption	24-volts, 30 watts (under normal operating conditions)
Oven temperature range	Ambient to 80°C
Equilibrium stabilization time	20 min.
Practical quantitation limit (toluene)	5µg/liter with loop injection



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