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Система для анализа VOC OI Analytical

Save hours of searching for GC-based solutions with OI Analytical's preconfigured systems for analysis of Volatile Organic Compounds (VOCs) in water, soil, and solids based on USEPA methods. Use our expertise to customize an instrument that will meet your laboratory needs.



The System VOC is the complete GC package, incorporating our new 4760 Eclipse Purge-and-Trap Sample Concentrator, Low-Dead-Volume Injector, Agilent® Technologies 6890 GC, and your choice of our optional autosamplers. The System VOC is also configured with a tandem PID/ELCD for analyzing halogenated and aromatic species found in USEPA Methods 601/602 and 502.2

Principal applications for the System VOC include: USEPA Methods 502.2, 503.1, 601, 602, 8010, and 8021; ISO 15009 and 15680; standard methods 6200C; halocarbons; aromatics and olefins; solvents; and hazardous wastes.

VOC Analysis System Features:

Preconfigured packages include all necessary hardware for analysis: Agilent GC, OI Analytical Model 4760 Purge-and-Trap Sample Concentrator, Model 5350 Tandem PID/ELCD, columns, and standards

Sample Concentrator provides built-in Cyclone Water Management, rapid trap heating and cooling, Silcosteel sample pathway, unique protective sparge filter design, and optional Infra-Sparge Sample Heater for improving sample recoveries

Tandem PID/ELCD uses only one detector port, allows mounting of up to four detectors

ELCD features rapid release reactor design, quick-change disposable resin cartridges, and digital control

PID exhibits extremely low baseline noise

MS systems include current Agilent GC/MS hardware with a 6890 Plus GC

Choice of capillary columns

Choice of autosamplers to fully automate the analysis process

Optional automated pH measurement

Includes installation and startup using appropriate standards or methods for systems delivered in the U.S.

Standard System VOC Hardware

Eclipse Purge-and-Trap Sample Concentrator

Model 5350 Tandem PID/ELCD System

Agilent GC

OI Analytical low-dead-volume injector

Performance Specifications**Trap**

>1,000 °C/minute heating rate to 300 °C; 450 °C maximum
>240 °C/minute cooling rate (200 °C to 30 °C in <50 sec)

Water Management

Water removal at level equivalent to condensation at 4.8 °C

Eliminates all but ~0.25 µL (0.063 µL/minute) of trapped desorb water
(>96% water removed)

Operates at ambient temperature

ELCD

Minimum Detectable Mass Halogen: 1 pg lindane

Maximum Detectable Mass Halogen: 5 µg lindane

PID

Dynamic Range Greater than 10⁶

Sensitivity <40 picograms benzene

Communication Interface Ethernet/LAN connection to the sample concentrator

Detector Output 1V full-scale analog voltage

Requirements

Power Requirements 115 VAC (±10%), 60 Hz
230 VAC (±10%), 50 Hz

Requirements

Benchspace Requirements

105.4 linear cm (41.5 inches) for total basic system

Gas Requirements

Ultrahigh purity H₂ , and He (99.999% purity or better)

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