

Air Toxics

using Gas Chromatography

American Ecotech is proud to offer a line of field proven gas chromatographs (GC) for real-time ambient Air Toxics analysis. Continuous GC monitors have many advantages over conventional canister sampling methods, eliminating the costly laboratory analysis, shipping and handling of samples and reducing operator time and effort, all resulting in maximum data capture at minimal cost.

Real-time gas chromatography monitoring systems enable users to continuously monitor and analyze a vast number of Air Toxics through simple, intuitive instrument operation, automatic calibration cycles, low maintenance and powerful analytical capabilities measuring low ambient levels of air toxics. Sampling and analysis cycles are user selectable to generate data every 15-30 minutes 24 hours a day. In a standard 1 in 12 sampling schedule, the GC performs 576 analyses compared to one canister sample collection.

All generated data is conveniently logged for onsite or remote user access and control of the GC system.

Available GC configurations:

AirmOzone: an all inclusive 58 compound monitoring system specifically suited for PAMS,
AirToxic: selected compounds of interest focusing on BTEX and 1,3 Butadiene well suited for near-road monitoring, emission monitoring,
ChromaTHC: methane and non-methane total hydrocarbon gas chromatograph suited for

ambient air monitoring, industrial hygiene or process emissions.

The GC is controlled with powerful software enabling users to conduct immediate data analysis and post process calculations often used in modeling and special studies.

American Ecotech GC system features:

- Fully autonomous system
- Automatic calibrations using permeation tubes
- Detector types: FID or PID
- Full range of analysis: ppt to ppm
- Unbreakable Metallic Columns
- Entire system mounts in one 19" rack
- Intuitive operation without the need of chemical background to operate
- No use of cryogenic components

Air Toxics Monitoring using continuous Gas Chromatographs will assure maximum data collection, reduction in monitoring costs and will be an enhancement of any monitoring network.

Please contact American Ecotech for more information regarding our line of field-ready continuous GC Monitoring Systems.



AIRMOZONE SYSTEM COMPOUNDS

- ETHANE
- ETHENE / ETHYLENE
- PROPANE
- PROPENE
- ISOBUTANE
- N-BUTANE
- ACETYLENE
- TRANS-2-BUTENE
- 1-BUTENE
- CIS-2-BUTENE
- CYCLOPENTANE
- ISOPENTANE
- N-PENTANE
- TRANS-2-PENTENE
- 1-PENTENE
- CIS-2-PENTENE
- 2,2-DIMETHYLBUTANE
- METHYL CYPLOPENTANE
- 2,3-DIMETHYLBUTANE
- 2-METHYLPENTANE
- 3-METHYLPENTANE
- N-HEXANE
- ISOPRENE
- 2-METHYL 1-PENTENE
- 2,4-DIMETHYLPENTANE
- BENZENE
- CYCLOHEXANE
- 2-METHYLHEXANE
- 2,3-DIMETHYLPENTANE
- 3-METHYLHEXANE
- 2,2,4-TRIMETHYLPENTANE
- N-HEPTANE
- METHYLCYCLOHEXANE
- 2,3,4-TRIMETHYLPENTANE
- TOLUENE
- 2-METHYLHEPTANE
- 3-METHYLHEPTANE
- N-OCTANE
- ETHYLBENZENE
- M-XYLENE
- P-XYLENE
- STYRENE
- O-XYLENE
- N-NONANE
- ISOPROPYLBENZENE
- N-PROPYLBENZENE
- M-ETHYLTOLUENE
- P-ETHYLTOLUENE
- 1,3,5-TRIMETHYLBENZENE
- O-ETHYLTOLUENE
- 1,2,4-TRIMETHYLBENZENE
- DECANE
- 1,2,3-TRIMETHYLBENZENE
- M-DIETHYLBENZENE
- P-DIETHYLBENZENE
- UNDECANE
- 1,3 BUTADIENE
- ALPHA PINENE
- BETA PINENE

AIRTOXIC SYSTEM COMPOUNDS

- 1,3 BUTADIENE
- BENZENE
- TOLUENE
- ETHYLBENZENE
- M-XYLENE
- P-XYLENE
- O-XYLENE
- STYRENE

CHROMA THC SYSTEM COMPOUNDS

- METHANE / NON-METHANE THC
- TOTAL HYDROCARBONS
- UNBURNED HYDROCARBONS
- VOLATILE ORGANIC COMPOUNDS

