

## AirmOzone VOC analyzer (conforms to EN-14662-3)

The Chromatotec group in conjunction with Airmotec manufacturing provide the premier line of ambient Gas Chromatography systems for automated, continuous monitoring of ozone precursors from C2 to C12 in the ambient environment. The AirmOzone system identifies and quantifies more than 50 hydrocarbons with detectable limits in the part per trillion (ppt) range

The systems are manufactured by Airmotec, specialists in ambient air Volatile Organic Compound (VOC) monitoring. Airmotec in Conjunction with the Chromatotec Group provides a worldwide network of distributors, training, service, and support .

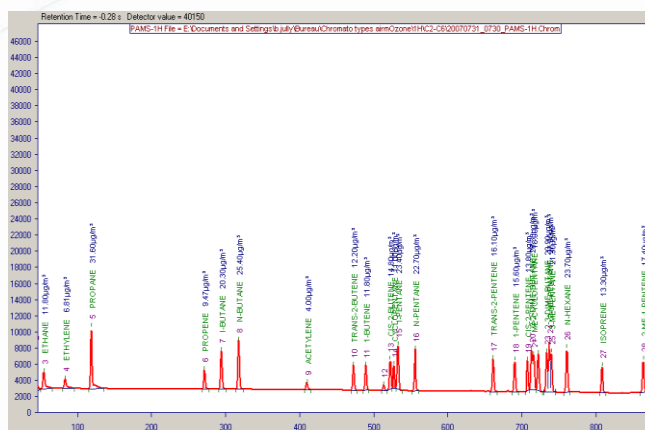
The system consisting of two GCs is engineered to provide superior analytical capability, ease of operation, reliability and minimized maintenance. Qualitative and quantitative measurement of VOC is obtained directly due to optimum analytical product separation with no need for post-calculation. Generation of custom methods based on pre-established compound lists is possible; instrument calibration is achieved with permeation tubes and/or cylinders.

The monitoring system is made up of 2 units one for measurement ,,of C2-C6 and the other one for C6-C12 VOCs. Each unit has one non-breakable column, sampling system, pre-concentration trap, photo-ionization (PID) or flame ionization (FID) detector.

The industrial PC (internal to the C6-C12 GC), with Windows XP embedded platform controls the system. The user friendly VistaChrom software enables chromatogram display in 2D or 3D, data reprocessing, interpretation and hard disk data storage. Information can be transferred via network or modem connection. Communication between the PC and data-logging systems is possible via digital or analogue output. Remote connection and control for service purpose is also available.

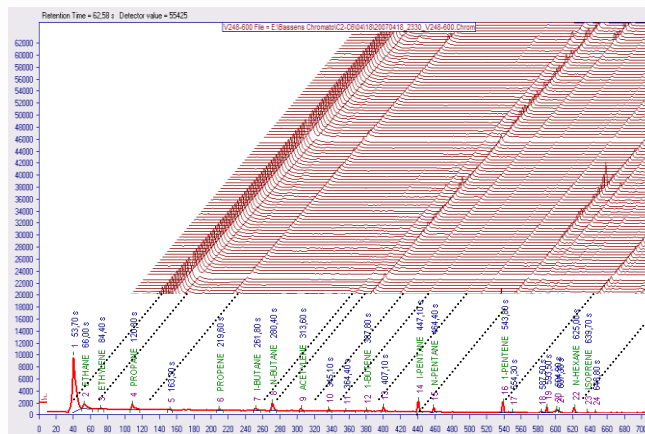


The 4U, C2-C6 GC unit utilizes thermoelectric cooling to -8°C and a three-phase trap. Thanks to low temperature trapping ethane, ethene, and acetylene can be fully sampled without reaching their breakthrough volume. The sampling volume is measured and controlled providing 100% traceability. The analyzer is linear in the 0 to 100 ppb range. Due to optimized gradient, ethane, ethene and heavier compounds are fully separated.



Chromatogram of C2-C6 by FID

The 5U C6-C12 unit is a BTEX+ gas chromatograph. VOC species are concentrated on a single phase trap. The C6-C12 is the only on-line analyzer capable of separating all 10 potential interfering species from benzene according to norm EN-14662-3 (See study by French Central Laboratory LCSQA\*). mCERTS approval will be pursued in 2009.



- TÜV approval for BTEX (1996).
- CNR for airToxic PID ( 2006)
- CNR for airmoBTX (2007)