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*Chromatotec Newsletter*

# Club COV Day

## AirAQ Bordeaux

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**CLUB COV Day  
 AIRAQ Bordeaux, France**

On March, 27<sup>th</sup> 2007, **CHROMATOTEC** organized a “user day” thanks to the French approved air quality monitoring association, AIRAQ. The French representatives of the different air quality monitoring network were invited to participate to this meeting.

This day was the occasion for **CHROMATOTEC** to show users that its **VOC** and **BTEX** analyzers fulfill the requirements of the market, in terms of **normalisation** or **efficiency**, at the national or international level.

The company has presented the different **updating, transformations and improvements** which have been brought to the analyzers in order to facilitate the utilization and to raise their performance.

**CHROMATOTEC** has for the occasion listened carefully to the user’s presentations and remarks.

**Experiences of ATMO network  
 (The French Air Monitoring Network)**

**The French Law on Air and rational use of Energy of December 30<sup>th</sup>, 1996** gives the right for everyone to breathe an air which does not damage health.

In that sense, the French environmental ministry entrusts the Air quality monitoring to approved associations called **AASQA « approved air quality monitoring associations »**.

The group of these AASQA is also the **ATMO** network and the technical coordination is done by the **ADEME**.

The volatile organic compounds **COV** considered as greenhouse gases , **ozone precursors**, are among the most pollutants to be monitored.

These pollutants which are present in weak concentration in ambient air and require high efficient means of on-line detection.



*AirmOZONE cabinet in a van*

**CHROMATOTEC** proposes autonomous analysis systems which are adapted to this type of measures.

The instruments have been made for these users who are continuously confronted with concrete problems for which we are trying to find solutions.

In that sense our instruments of analysis have evolved and we will keep on developing them to become the more efficient and as easy to use as possible (see page 2: **Upgrade analyzers BTX**).

**SALONS 2007**

**INDUSTRIAL ANALYSIS  
 PARIS-LA DEFENSE**  
 January 30 –February 1<sup>st</sup>, 2007  
<http://www.mci-salons.fr/ai/>

**ARAB LAB – Dubai**  
 February 11 – 14, 2007  
[www.arablab.com](http://www.arablab.com)

**ACHEMASIA – Beijing**  
 May 14 – 18, 2007  
[www.achemasia.de](http://www.achemasia.de)

**EURODEUR – Marseille**  
 June 26 – 28, 2007  
[www.eurodeur.com](http://www.eurodeur.com)

**AWMA – Pittsburgh**  
 June 26 – 29, 2007  
[www.awma.org](http://www.awma.org)

**CEM – Zürich (Dübendorf)**  
 September 5 – 6, 2007  
[www.cem.uk.com](http://www.cem.uk.com)

**POLLUTECH 2007  
 Paris Nord Villepinte**  
 November 27 – 30, 2007  
<http://www.pollutech.com/>



**French Air Quality Monitoring Network (ATMO)**

## Continuous and on-line monitoring of BTX

To analyze **BTEX** (Benzene, Toluene, Ethyl-benzene, Xylenes) in continuous, we propose 2 ranges of instruments. The **main difference** between these 2 equipments concerns the **detector** :

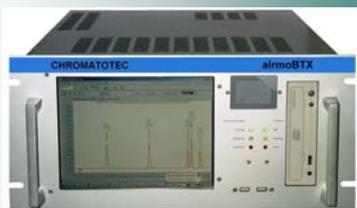
- **AirTOXIC** (ref. A74022), with **PID detector**
- **AirmoBTX 1000** (ref. A31 ou A34) with **FID detector**

	PID	FID
<b>Measurement</b>	Non destructive	Destructive
<b>Drift</b>	yes	no
<b>Gas feed</b>	N <sub>2</sub> , 6 ml/min 3bars	H <sub>2</sub> , 30 ml/min Air, 180 ml/min
<b>Performances</b>	Quantitative : RSD<3% Retention time : RSD<0,3%	
<b>Detection threshold</b>	< 0.01ppb	< 0.050 ppb
<b>Sampling volume</b>	20 to 240 ml	30 to 700ml
<b>Column</b>	Metal 30m, 0.28 id	
<b>Trap</b>	Tenax or Carbotrap ambient temperature	
<b>Analyses</b>	COV except : CCl <sub>4</sub> / 1,2 dichloro propane...	COV / Halogenated agent

### Comparative table of detectors

The analyzer is integrated in a 19" rack (115 or 220V) with or without supervisor. It works with an automation software **VISTACHROM** compatible with Windows.

The new version of the software is now available, 1.44, much more intuitive than the previous 1.34 version, it will allow access to new calculation and data treatment functions.



AirmoBTX A34 - 5U - Integrated computer

## VistaCHROM software Automation module

- Statistics calculation
- Calculation of rolling averages
- Filing
- Alarms monitoring
- I/O monitoring
- G/C monitoring (default analyzer)
- **Auto-calibration** (automatic adjustment of sensivity factor from measurement of one reference gas with a known concentration)



## BTX analyzers Upgrade Comparison between A31 and A34 model

The drum with three tubes and the concentration pre-column are replaced by a new concept based on an injection valve and a single trap.

The column in fused silica is replaced by a new metallic column.

This new model uses an injection valve with **3 bars air necessary for the actuator**.

Our airmoBTX (A34) always respects European Regulations concerning cycle times which are 15, 20 or 30 minutes.



airmoBTX A34 internal view

### Advantages of this new version (A34) :

- the three tubes of the previous version (A31) would grow old at different times ; their replacement by a single trap has solved this problem.
- The drum could meet tightness problems which is not the case with injection valve already used in the airmoVOC C<sub>2</sub>C<sub>6</sub> for years.
- The column in fused silica is replaced by a new metallic column much more sturdy.
- Internal calibration integrated inside the new model allows daily validation of measures and good running of the instrument.

## Certifications, Norms

### CNR official norm



**AirToxic** analyzers have been certified in 2006 by an accredited organisation, the **CNR (Italy)**, for BTEX detection with PID.

### DIN BTX Norms



The **AirmoBTX** analyzers have been certified in 1996 by the **TÜV (Germany)** according to the national reference method.

### NF EN 14662-3 Norm

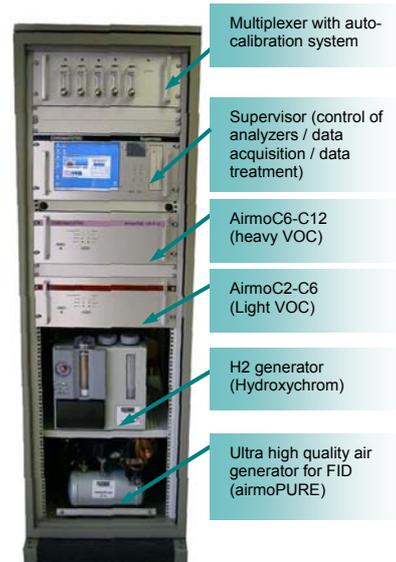
To match the EN 14662-3 norm, we have injected the **10 compounds** which are separated from Benzene ; **so there is no INTERFERENCES**



EN 14662-3

## airmoOZONE

It is a **complete** and **autonomous** system for on-line analysis of **VOC C<sub>2</sub> to C<sub>12</sub>**. These compounds usually of anthropogenic origin are known for being precursors in the tropospheric ozone synthesis.



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