CHROMATOTEC

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E X P E R T S I N G A S A N A L Y S I S

Customer care : From 9 a.m. to 6 p.m., we are at your entire disposal for service gas analyzer / software / computer/ maintenance and calibration.

Chromatotec Bulletin

Issue –June 2006

Visit our booth 325

20 year instrumention in ambient air indoor / outdoor

SUMMARY

EXHIBITIONS 2006

ANALYSE INDUSTRIELLE – PARIS-LA DEFENSE
31 January – 2 February 2006
http://www.mci-salons.fr/ai

ARAB LAB – DUBAI
13 – 16 February 2006
http://www.arablab.com

ACHEMA – FRANKFURT
15 – 19 May 2006 – Booth 10.1K41
http://www.achema.de

AWMA – NEW ORLEANS
20 – 22 June 2006 – Booth 325
http://www.awma.org

GTI – HOUSTON
10 – 13 July 2006
http:// www.Gastechnology.org

POLLUTEC – LYON Eurexpo
27 Nov – 1st Dec
http:// www.pollutec.com

Send your inquiry to info@chromatotec.com

SUCCESS OF OUR BTEX ANALYSERS

Our airTOXIC BTEX PID as well as **our airmoBTX with FID detector** both achieve great success worldwide with increasing market shares in Europe and in the Middle East.

CHROMATOTEC proposes you two **certified models** with **in –built computer and calibration included** for your BTEX measurements based on **two different technologies**:

airTOXIC with **PID detector**
(*CNR Certification)*
- edge of the system: **auto-cleaning of the lamp and 1 gas is needed**

airmoBTX with **FID detector**
(*TÜV certification*)
- Edge of the system: visualisation of a **larger range of hydrocarbons**

Advantages of both instruments:
- High sensitivity
- High linearity
- Hight stability
- Auto-calibration , high precision

Conference held by Mr Amiet at AWMA

AUTOMATED ON-LINE MONITORING OF VOC AT THE PPB LEVEL

Volatile Organic Compounds represent more than 300 identified compounds. Due to their negative impact on human health, they are now considered are first priority pollutants. For these reasons, governmental authorities now recommended the survey of individual VOC.
*In Europe experts agreed on a list of 30 compounds, while in the United States 50 compounds have been retained in the famous PAMS list.
*The airmOzone cabinet offers the possibility to monitor continuously a wide range of ozone precursors down to ppt levels. : the airmoVOC C2-C6 allows the analysis of C2 to C6 VOCs, as the airmoVOC C6-C12 is dedicated to higher compounds.
*The two analysers can be integrated in a cabinet equipped with an Hydrogen generator , a Zero Air generator and a permeation unit making a complete automatic and stand alone system with no need of external cylinder.

airmOzone
VOC detection in the petrochemical field (BTEX included

Application : How to measure the following components **in a Air Quality Monitoring Station** for a **petrochemical complex** ?

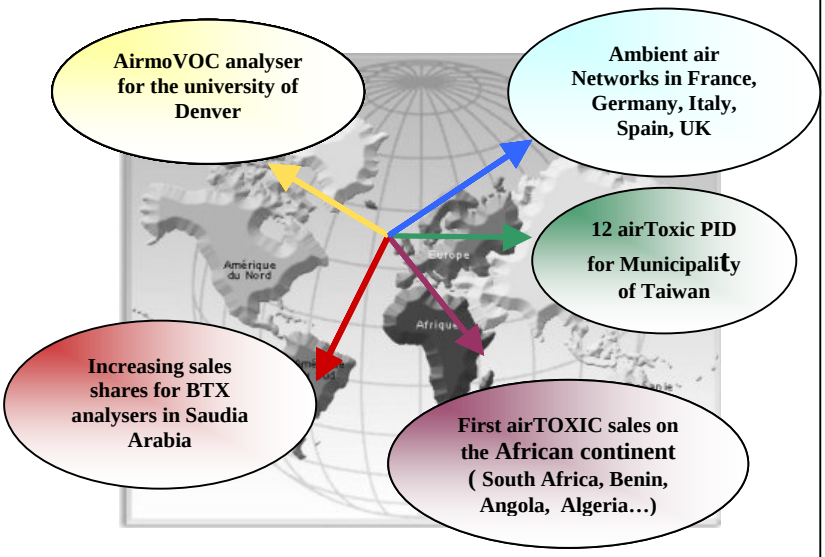
Our AirmOzone with special application can **detect :**
carbon tetrachloride, acrolein, acetaldehyde,
1,2 dichloroethane, chloroform, 1,1,2 Trichloroethane at a **ppb level** with :
- internal permeation calibration
- Rack mounted PC
- Zero air generator & H2 generator

airmOzone with mutiplexer

Application: detection of the **organic solvents in the clean air room** for cleaning up electronic card in a clean air room
Outside the usual VOC component, (BTEX) our airmOzone can also analyse organic solvents: like aldehyde / Alcohol /ketones (special application)

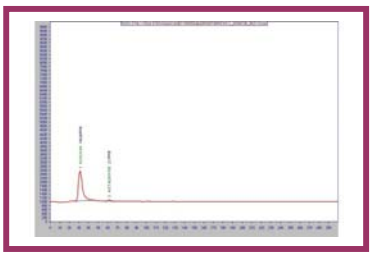
Result: air improved monitoring with a daily result, validation, analysis follow up

BTX in the world ...



Formaldehyde and acetaldehyde application in air and pure gas

- Precise measurement **at low levels (PPB level)** with our **airmo HCHO** with **FID** detector
- Applications :**health and safety monitoring** (CO_2 quality for beverage and food industry), **screening, indoor air quality**
- Analysis after **methanization in PPB range** with **calibration** as recommended option
- Total cycle time : 15 minutes



Formaldehyde and acetaldehyde chromatogramme

Send us your emails to receive our news every two months

Send your inquiry to info@chromatotec.com

airMedor Sulfur detection in the waste water plants

THE PROBLEM : at the entrance of the waste water plants, where the waste water arrives, **strongly smelling and polluted air is captured and neutralised by a chemical cleaning process called ''Stripping''**.
The correct amount of chemical products needed to neutralise the polluted air has to be calculated.

THE SOLUTION BROUGHT BY CHROMATOTEC
with the **air MEDOR system**

- At the arrival of the wastewater at the stripping area of the plant, the polluted air is captured and thereafter passed in a circuit that neutralises it. **These odours are caused by bacteriological fermentation. Successive chemical cleanings in the deodorisation towers neutralise these odours**.
- The bad odours are in large part due to the **transformation of sulphuric acid into H_2S by the bacteria in the fermentation process.**
- Placed at the outlet of the stripping process, the **airMEDOR measures the H_2S concentrations and pilots the adjunction of calcium nitrate,** that the bacteria consume instead of the sulphuric acid.

Analyser for toxicity : H2S/MM at ppm level

Odor analysis at ppb level

RESULTS :

- Automatic regulation of odour neutralisation.
- Time needed to technically pilot the process greatly diminished.
- Cost savings with much less calcium nitrate used

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