

**Customer care : from 9 am to 6 pm, we are at your disposal for service gas analyser / software / computer/ maintenance and calibration.  
For having our news send your email to info@chromatotec.com**

Issue – June 2005

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### EXHIBITIONS 2005

**CIEPEC BEIJING**  
7<sup>th</sup> – 10<sup>th</sup> June 2005  
CHINA INTERNATIONAL  
EXHIBITION CENTER  
<http://www.chinaenvironment.com/ciepec2005>

**IGT CHICAGO**  
25 – 27<sup>th</sup> July 2005  
<http://www.Gastechnology.org>

**POLLUTEC –PARIS VILLEPINTE**  
29 November – 2 December 2005  
<http://www.Pollutec.com>

## Chromatotec Bulletin

### airmOzone Atmosphere pollution

**Application** : analysis of the ozone precursors VOC

- Our system airmOzone C2 – C12 allows to analyse the VOC thanks - the **calibration system** with a bottle or permeation,
- a **H2 generator**,
- **Integrated LCD computer** with our own operation software **Vistachrom**
- **Airmopump sampling**
- **Pelletier effect**: instead of the Vortex system with the compressor (noise and bulky); we set up the Effet Pelletier that allows cooling t the trap for light components

### 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, Formaldehyde, Acetaldehyde, 1,2 dichloroethane, chloroform, 1,1,2 Trichloroethane** at a ppb level with :

- internal permeation calibration
- Methaniser
- Rack mounted PC
- Zero air generator
- H2 generator



### airmOzone with multiplexer Detection of C3 to C12 in the clean air room

**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



**AirmOzone System with its supervisor in 5 U rack and its multiplexer**

## AirToxic : BTEX monitoring with a PID

With the approval of the Taiwanese Environmental Protection Agency, we **sold 12 airToxic PID systems** to the Taiwanese Air Monitoring Networks for monitoring air quality from 1 spot into 12 towns.

Our airToxic PID with the **communication protocol Modbus** allows transferring the results of the 12 instruments to a central room

Main qualities of our system

- PID high stability
- Completely autonomous
- Only N2 as carrier gas
- Autocalibration with permeation tube or cylinder
- Integrated computer with LCD display



Taiwanese Air Monitoring Network

## Halogen compound detection

**Application :** analysis of the VOC and the **halogen compounds** at the same time in a waste water plant.

Thanks to our system **ELCD and FID**, we can analyse the Volatile Organic and the halogen compounds in the **same sampling with 1 column and two detectors**.

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## 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**

- o 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.
- o The bad odours are in large part due to the transformation of sulphuric acid into H<sub>2</sub>S by the bacteria in the fermentation process.
- o Placed at the outlet of the stripping process, the airMEDOR measures the H<sub>2</sub>S concentrations and pilots the adjunction of calcium nitrate, that the bacteria consume instead of the sulphuric acid.

### Results :

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



AirMedor system with multiplexer



AirMedor 4 U (ref M11000) and its supervisor 5U (Ref XXX015) in two rack