

**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

Summary

AirmOzone: atmosphere pollution....p.1

AirmOzone: VOC detection in the petrochemical fieldp.1

AirmOzone with multiplexer: detection of C3 to C12 in the clean air roomp.1

Exhibitionsp.1

AirToxic :BTEX monitoring with a PID..... p.2

Halogen compound detection p.2

AirMedor : Sufur detection in the Waste Water Plants p.2

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

EXHIBITIONS 2005

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

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

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

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 H₂S by the bacteria in the fermentation process.
- o Placed at the outlet of the stripping process, the airMEDOR measures the H₂S 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