

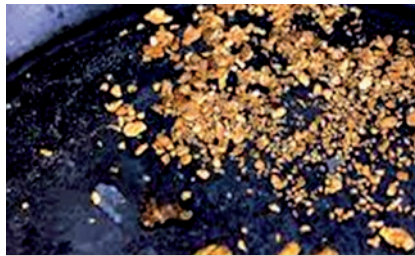


## Expert in the treatment of industrial chemical pollution: **harmful & corrosive gases in CHEMICALS**

John Cockerill Europe Environnement makes available to you the highest performing technologies for **controlling gaseous pollutants** from your processes in **numerous applications**, such as:



Ore processing



Metals purification



Pharmacy



Cosmetics



Glassworks



Fertilizer Depuration

In both heavy and light chemicals, the production and transformation processes call on extensive wide range of chemical elements; resulting in a wide variety of polluting gaseous emissions: our job is to define and set up the optimal treatment solution in line with your requirements and those of the regulations in force.

**Thanks to its know-how and technological skills John Cockerill Europe Environnement helps to:**

- Protect on site operators
- Control your gaseous releases
- Preserve your working environment: buildings and equipment
- Enhance your image among local residents and clients

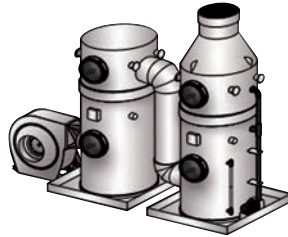
Audit Treatment solution design Manufacture Installation Commissioning Maintenance & After-sales servicing



## Example of a usual issue arising in **light chemicals**

- Treatment of gas on reactors (HCl, SO<sub>2</sub>, etc.)
- Scrubber or safety scrubber (F, Br<sub>2</sub>, Cl<sub>2</sub>, NH<sub>3</sub>)
- Pollutants: CN, HF, HNO<sub>3</sub>, Cl<sub>2</sub>, HCl, SO<sub>2</sub>, NH<sub>3</sub>, VOC, etc.

### Example of typical solution



## Medical application

- Pollutant: NMP between 7 & 9 mg/m<sup>3</sup>
- Airflow: 24 500 m<sup>3</sup>/h at 32°C

## Our solution

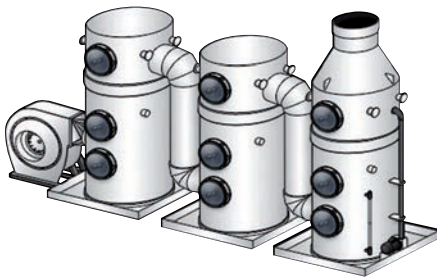
- Packing scrubber
- Ventilation equipment
- Secured access to equipment
- Chimney
- Electric cabinet

**Performance**  
**> 75%**

## Example of a usual issue arising in **heavy chemicals**

- Treatment of process gases
- Pollutants : CN, HF, H<sub>2</sub>S, NH<sub>3</sub>, Cl<sub>2</sub>, SO<sub>2</sub>, HNO<sub>3</sub>, etc.

### Exemple de solution type



## Process client

Traitement de minerais aurifères et lixiviats par cyanuration.

- Polluants : vapeurs alcalines et cyanure d'hydrogène (HCN avec charge polluante à 47 mg/m<sup>3</sup>)
- Débit : 2 400 m<sup>3</sup>/h

## Notre solution : installation clé en main

- Un laveur de gaz à garnissage avec équipements de régulation des solutions de lavage soude et javel
- Equipements de ventilation

**Performance**  
**> 98% for the cyanide**  
**> 90% for the alkalines**



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