



## CAMCLEANER CITY

### FILTRATION OF FORMALDEHYDE WITH CAMCLEANER CITY

**Location:** ONAC (Organisme National des Anciens Combattants - National Organization for veterans) in Metz (Lorraine - Eastern France)

**Initial situation :** Employees working in the offices are complaining about headaches during their working hours.

**Solution :**

#### 1. Indoor Air Quality (IAQ) diagnosis:

A CityCheck has been installed to check the indoor air quality of 5 offices. 4 out of 5 offices revealed a bad IAQ, due to formaldehyde.

The analysis of the samples was made by an independent lab and showed a formaldehyde concentration around  $40\mu\text{g}/\text{m}^3$ . The comparison of the measuring values with the health guideline limit values shows that this result is 4 times higher

than the air guideline value, defined by the WHO (World Health Organization) ( $10\mu\text{g}/\text{m}^3$ ) for formaldehyde) which is a B index in CityCheck analysis report, linked to a medium indoor air quality.

#### 2. Improving IAQ

Camfil's recommended solution (which was accepted by the client) was the CamCleaner City, perfectly adapted to remove indoor air pollution. In order to filter the air of the room

and, specifically formaldehyde molecules, a first CamCleaner was installed in one of the offices.

In addition to its H13 HEPA filters and to its double molecular filtration stage, CamCleaner City also has many other advantages:

- It's the only air cleaner on the market that can filter any kind of pollutants such as inert particles, micro-organisms, allergens, small and big particles.
- Thanks to its simple and modern design, it can be installed everywhere, indoor.
- It doesn't generate any secondary

pollutant (unlike other technologies used in air cleaners, such as photocatalysis, cold plasma ...)

**Proof:**

- The employee doesn't have headaches or allergic symptoms anymore.
- After the installation of the CamCleaner City, a new analysis showed that the formaldehyde concentration has been cut by half.
- The client is satisfied and plans to equip the other offices with CamCleaner City.

**Testimony by Benoît Bichet, head of the maintenance department:**

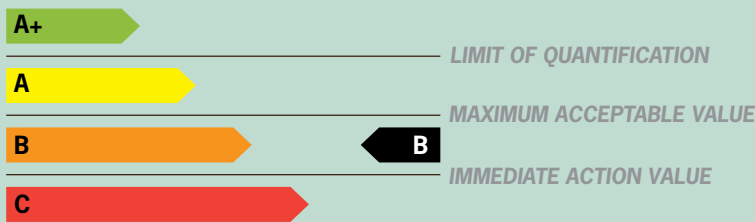
*"The very next day of the CamCleaner City installation, we've noticed that there were no more allergic symptoms. Moreover, we now enjoy a "fresh air feeling" in our offices.*

*The noise level is very much acceptable and CamCleaner City provides a very efficient air cleaning.*

*The situation was well analyzed by our sales representative and the follow-up achieved by Camfil was very efficient."*

**Results of the CityCheck analysis, before the installation of the CamCleaner City**

No pollutant



- A+: Very good indoor air quality
- A: Good indoor air quality
- B: Medium indoor air quality
- C: Bad indoor air quality

High concentration of pollutant

> LQ: 0.21 µg/m³    > MAV: 10 µg/m³    > IAV: 50 µg/m³    > YOUR MESURE: 44.75 µg/m³



**B** Medium indoor air quality



CamCleaner City installed in an office