camfil

Camfil IAQ journey

Leading the IAQ revolution by example

BACKGROUND

The unpleasant truth

is that every year, exposure to ambient air pollution is estimated to cause around 4.5 million premature deaths globally, and indoor air pollution causes a further 2.3 million.*

The WHO Air Quality Guideline (AQG) states that annual average concentrations of PM2.5 should not exceed 5 µg/m^3.

PM2.5, fine particulate matter of 2.5 micrometres or less in diameter, is the most dangerous pollutant because it can penetrate the lung barrier and enter the blood system, causing cardiovascular and respiratory disease and cancers. It affects more people than other pollutants and has health impacts even at very low concentrations.

*https://www.c40knowledgehub.org/s/article/WHO-Air-Quality-Guidelines?language=en_US

WHAT WE DID

Camfil's 3-step approach to cleaner indoor air

1. MEASURE WHAT MATTERS

We created full visibility of our indoor air by installing **185 Camfil AirImage sensors** across our global locations. These continuously measure fine particulate matter (PM), including the smallest particles such as dust, mould spores, bacteria and virus-carrying aerosols — allowing us to identify where and when indoor air quality is at risk.

2. ACT WHERE IT COUNTS

Using the sensor data, we pinpointed pollution sources and critical exposure zones. We then:

- Upgraded the HVAC systems by installing higher-efficiency filters.
- Installed air cleaners in high-risk and high-traffic areas.
- In our production areas, we strengthened dust-collection systems and introduced several measures to effectively control pollution at the source.

This targeted approach removes contaminants at the source and prevents them from spreading through the building.

3. MONITOR, OPTIMISE, REPEAT

Indoor air quality is not a one-off project – it is a continuous process. We use real-time data from our sensor network to:

- Track performance across all sites
- Detect deviations early
- Validate that solutions are working
- Drive ongoing improvements

This ensures most of our workplaces consistently meet – and in many cases exceed – **WHO air quality guidelines**, keeping our people protected every day.

THE RESULTS

At Camfil, in our offices, production, warehouses and reception areas, we measured an average of 3,7 µg/m³

versus the WHO air quality guideline that states annual average concentrations of PM2.5 should not exceed 5 µg/m³.

A global program with data from more than 185 air quality sensors

In this project, we used sensors to make the invisible visible, turning unseen issues into insights we can improve. By upgrading HVAC systems, adding air purifiers, and tackling pollution sources, we achieved clear improvements. Continuous Indoor Air Quality (IAQ) monitoring confirmed the impact.

Improving IAQ to create a better environment for our people, processes, and products is truly rewarding. I'm proud of the progress and excited to keep developing innovative, future-ready IAQ solutions.

Clean greetings,
Matthias Jerosch
Gobal Product Manager

Take the next step – we're here to help

Together, let's tackle IAQ in the most sustainable, clear-cut way to protect people and our planet. Take the first step and book a free consultation with Camfil's clean air experts.

Visit **camfil.com/healthiertogether** or email us at **info@camfil.com**

Camfil – a global leader in air filters and clean air solutions.

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimize energy use, and benefit human health and the environment.

To discover how Camfil can help you to protect people, processes and the environment, visit us at camfil.com.