

MONITORING AIR QUALITY IN A HOSPITAL



ECOMSMART
*Connected outdoor
air measuring station*



ECOMZEN
*Connected indoor
air measuring station*



Measuring air quality in a hospital center is a major health issue regarding VOCs (Volatile Organic Compounds), invisible and odorless particles, which are generated there.

CHU de Québec, a hospital facility in Quebec, Canada, needed to analyze air quality among their infrastructures. ECOMESURE was asked by Consulair, its air quality expert partner, to :

- Continuously monitor emissions of particulate matter and environmental parameters within the hospital,
- Send real-time alerts on pollution peaks
- Rapidly install connected measuring stations.



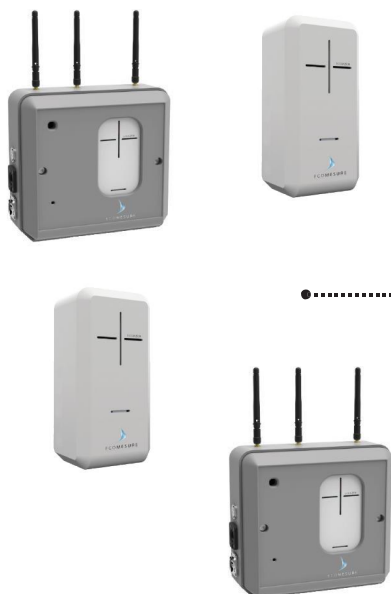
ADVANTAGES



- ⊕ Optimal coverage to check that the filtering system is working properly
- ⊕ Continuous monitoring of sensitive locations (intensive care rooms) and thoroughfares (waiting rooms, reception lobbies, secretarial offices)
- ⊕ Implementation of preventative measures

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Connected multi-parameter
air quality **measuring**
stations



SaaS
web platform **services**



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The technical solution provided involved:

- Installing a mesh of connected stations (**EcomSmart** and **EcomZen**) to check that the filtering system is working properly and continuously monitor the entire hospital center,
- Making available the **EcomSaaS** internet platform services to monitor environmental data via a secure protocol (SSL): data visualization, mapping, storage, downloading, remote control, alarms/alerts, data post-processing, data analysis reports, API link to integrate data with other platforms.

