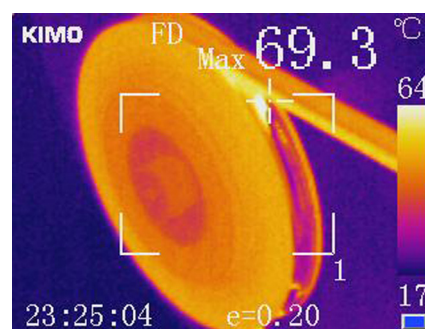




Modification of filter banks



Monitoring motor bearings with a thermal camera

CAMFIL GLOBAL SOLUTION

OPTIMIZING INDOOR AIR QUALITY AND OVERALL OPERATING COSTS

Site :

This industrial site, located in France, includes several plants and bottles different brands of water.

Situation :

Maintenance and filter changes were carried out by the site technicians.

The technicians did not consider these tasks to be a priority thus, they were, because of time constraints, often neglected. The pressure drop was not monitored.

Because of the evolution of the standards in the food industry and because they

were concerned about the importance of IAQ and traceability, this group took interest in Camfil global solution.

Solutions :

2007 : Camfil offers this group to supply, change and monitor filters in the air handling unit (AHU) and in the processes related installations (bottling units, water rooms, etc.)

An initial three-year contract is signed. It includes a progress plan which guarantees the customer that the overall costs of air filtration would be reduced.

The work carried out by the two Camfil

technicians on the site is appreciated by the customer, who has trusted us with new responsibilities. We assist the group with its internal maintenance and are responsible for certain tasks such as cleaning of the filter banks and the casing of the AHU, as well as changing the belts on the motors for these AHUs.

2010: an amendment to the contract extends our services for one year.

2011: a new **Camfil filter management** type contract is signed for a period of three years.

We are striving to reduce overall operating costs, particularly energy costs.

CAMFIL has optimized the filtration equipment and has established a monitoring programme for the installations, to quantify the energy savings realized.

Damages on AHUs engines require heavy maintenance. Camfil has a thermal camera in order to monitor the motor bearing and plan maintenance when it detects a malfunction.

Again, in order to reduce operating cost, Camfil takes care of the rigid ducts and has one third of the network cleaned each year.

Thanks to its expertise in IAQ, Camfil now takes care of the monitoring of all the textile ducts which includes the cleaning of the ducts, the removal and installation of the treated sections and the microbiological analyses.

Since 2012, Camfil has had responsibility for monitoring and exchanging the various filter stages on the air conveyors.

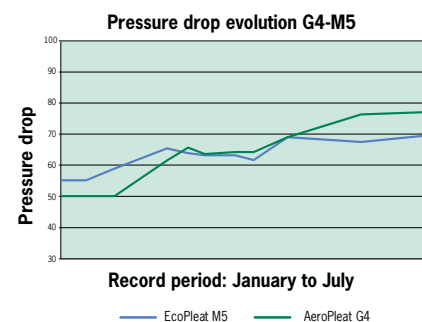
Customer benefits:

Camfil technicians have direct access to the customer's intranet system allowing them to record the details of any repair or maintenance work performed. This access allows greater efficiency of the teams, thanks to the total transparency between the services performed by CAMFIL and those carried out by the customer's internal departments (maintenance, production, quality),

The company benefits from a maximum guarantee of traceability on the actions performed by CAMFIL, providing it with security and allowing it to fulfil the criteria of internal or external audits.

The optimized filtration system meets the desire to reduce overall operating costs and the QAI control requirements of the site.

Filtration optimization study on two bottles conveyors: comparison between 2 pressure drop curves of 2 bottles conveyors, one with AeroPleat G4 and the other with EcoPleat M5.



Bottle conveyor

CONCLUSION :

Establishing a Camfil filter management type contract involves a genuine partnership with the sites of this industrial group.

Camfil is much more than a simple filter supplier. At a process level, we guarantee indoor air quality that meets the needs and constraints of our customers. We provide prevention by reporting any malfunction or any risk of breakdown related to the air handling unit and also provide support to internal maintenance teams.

A similar contract has now been set up with another plant of the group. The same type of services are being performed there.