



HEALTHY ENVIRONMENT

AT PRINT ROOM SPACES

This hospital in the Netherlands has 39 medical (sub) specialties, 3,536 employees and 28,988 number of hospitalizations per year. They needed to improve the air quality in the print room because of health problems of their employees.

THE CHALLENGE

The print room of this hospital is located in the basement. It is a space of about 35 square meters. The employees handle 125,000 pieces of A4 plain paper per week! This occurs during a 40-hour workweek.

Various high-quality devices make high volume production possible. The air in this room was a source of nuisance which was the reason for an application to improve air quality.

The inconvenience also concerned unpleasant smell, coughing, irritation to airways and precipitating paper dust.

One of the employees: "Coughing complaints were ultimately the deciding factor for me to submit an application in person. Air quality has improved. Luckily my cough disappeared. What is also very enjoyable, it is no longer necessary to make my glasses dust free again and again. And people who come in here do not complain about the smell."

THE SOLUTION

Euromate has made an inventory of the situation and recommended a VisionAir² ElectroMax air cleaner to build in the ceiling. This air cleaner has a large capacity (air volume and filter surface area) which fits the volume of the space and the amount of paper dust. The ElectroMax filter is, in combination with the pre-filter, very suitable for filtering paper dust. It has high capture efficiency. Moreover, the electrostatic main filter

is not full; The air volume remains constant. As option the OdourFree filter is used as a final filter, behind the electrostatic filter. This option is instead of the normal active carbon filter, and is characterized by an increased return on odours and gases. FreeBreeze cups are also provided in the air cleaner and provide a subtle spreading a pleasant smell. The positive result of the air cleaning is obvious. That shows from both personal experiences as from hard measurement data.





VISIONAIR² CEILING

Euromate's VisionAir air cleaner improves the indoor air quality significantly. In addition, the air is recirculated. Polluted indoor air is purified and clean air is pumped back into the room. This means that no valuable heated or cooled air is lost.

Features of the VisionAir:

- Effective extraction and filtration
- Large range
- Can be assembled anywhere (ceiling, wall, floor)
- Low noise level
- User-friendly, simple operation
- Timeless design
- Energy-saving
- Expandable with options

Thanks to its stylish design, the VisionAir fits in any interior. In addition, the air cleaner has a low noise level and is very user-friendly. As standard the air cleaners of Euromate are equipped with FreeBreeze cups, which add an aromatic freshness to the room.



“
Air quality has improved enormously. My cough disappeared.”

INTERNAL AIR MEASUREMENT SHOWS PERFORMANCE

The Technical Department of this hospital has its own equipment to measure particulate concentrations in the air. To gain more insight into the performance of the VisionAir air cleaner the Technical Department performed two measurements in the print room. In the first measurement, the air cleaner was turned off. In the second measurement, a week later, the air cleaner was turned on.

The results speak for themselves and confirm the experience of the print room staff. The dust concentration in the space is up to 67% lower. This concerns the situation in full operation, in which, during the second reading even more print work was done according to the Technical Department. In the table, the reduction is explained with reference to the different particle sizes (particles).



PRODUCT FACTS

Products

- 1x VisionAir² ElectroMax including the option OdourFree

Application

- Print room

Maintenance

- 6 times per year

Particle size (in microns)	No. without air cleaning	No. with air cleaning	Reduction
5	45	15	67%
1	170	65	62%
0,5	3685	1625	56%

Table: dust reduction in print room full operation 1 micron = 0.001 mm