

## CASE STUDY

# ZOVATEC - CULTURAL CENTER CASCADE

## CASCADE FOUNDATION RE-OPENS SAFELY

### Ventilation High on the Agenda

Since February 2022, theaters across the Netherlands have been open to the public again. This means that the Cascade Cultural Center can once again open its doors for room rentals and, happily, resume organizing various cultural activities. As in many buildings, proper ventilation and optimizing the indoor climate are top priorities. How is air exchange regulated? How can we provide our employees and guests with optimal protection against (ultra)fine dust, and how can we reduce the spread of pathogens through the ventilation system? This is the question that Erik Bakker of ZovaTEC received from Henk Kooiman (Cultural Center Cascade) and Henk Verheij (Municipality of Hendrik-Ido-Ambacht).

### Challenge of Air Management

Erik Bakker, together with his long-time partner Interfilter, is working on answering this question. In collaboration with representative Mats Verbrugge, a study was conducted into the air quality within the Cascade Foundation and the possible optimization of its air management system. The study revealed a high concentration of fine dust in the outdoor air (PM0.3, PM1.0, and PM2.5). Additionally, both mechanical supply air and recirculated air are present within the cultural center. It is therefore crucial to apply a filter that meets the WHO's fine dust filtration standards and guidelines for air recirculation, in order to create a healthy environment for all visitors and employees at Cascade.

### Clean and Safe Air

Following advice from Interfilter and in consultation with ZovaTEC and Henk Verheij, Public Space Building Manager at the Municipality of Hendrik-Ido-Ambacht, the virus-killing NWES98 PLUS filter was installed in the air handling units of the Cascade Foundation. Thanks to its ISO ePM1-90% filter class, the NWES98 PLUS far exceeds the minimum requirement of ISO ePM1-80% for recirculation as recommended by REHVA. Additionally, the filter medium is coated with a virucidal (citric acid) layer to deactivate any potential viruses present in the filter. *"In this way, we ensure that Cascade can fulfill its intended role: a welcoming space with a warm atmosphere; a meeting place and dynamic event venue for everyone."*

## FACTS AND FIGURES



Optimal protection against fine dust through PM1-90% filters



Air recirculation possible thanks to virucidal action



Energy label A+



20% longer lifespan



Guests can be welcomed in clean air again