

CASE STUDY

VINK INSTALLATION GROUP - CONCERT HALL ORCHESTRA

OPTIMAL AIR QUALITY INSIDE THE CONCERT HALL ORCHESTRA

Vink Installation Group is a full-service installation company based in Roelofarendsveen, offering services ranging from climate and sanitary installations to electrical engineering, as well as service and maintenance. Vink is responsible for the maintenance of the Royal Concertgebouw Orchestra in Amsterdam. The Royal Concertgebouw Orchestra is a symphony orchestra founded in 1888. The building consists of one concert hall and 10 studios where the orchestra's staff works and where musicians can rehearse. Therefore, the air quality in these spaces is of great importance. "We want to welcome all guests in clean air and are curious about what can potentially be optimized," says the Royal Concertgebouw Orchestra.

Indoor Air Quality at the Royal Concertgebouw Orchestra

Peter van der Zwet, Service Manager at Vink Installation Group, and long-time partner Interfilter, investigated this question. Together, they conducted a study into the air quality within the building and the potential for optimizing indoor air quality. The results showed that the concentrations of fine particulate matter (PM0.3, PM1.0, PM2.5, and PM10) in the indoor air are at a very good level.

Clean Air in the Concert Halls

Before Interfilter carried out the air quality study, the NW95 filters were installed in the air handling units of the Concertgebouw, based on the advice of Interfilter and in consultation with Vink Installation Group. Thanks to the ISO ePM1-70% filter class, the NW95 filters far exceed the guidelines set by Eurovent 4/23 and the WHO (World Health Organization). In addition, the filter reduces energy consumption by 30% compared to the previous filters, leading to savings on energy costs and CO₂ emissions. Finally, the NW95 filters have a longer lifespan due to their increased dust-holding capacity compared to previously used filters.

"After the research, we are proud to share that, together with Vink Installation Group, we have optimized the air quality inside the Royal Concertgebouw Orchestra and created clean air for all employees and guests," says Jaco Meijer, Area Sales Manager at Interfilter Group.

FACTS AND FIGURES



NW95 ePM1-70% filters meet the guidelines of Eurovent 4/23 and the WHO



30% less energy consumption and costs



Savings in CO₂ emissions of approximately 1200 kg per year



50% more dust-holding capacity and longer lifespan



Reduced waste due to longer filter lifespan