

P R E S S I N F O R M A T I O N

Purevento hands over air filtration plant to the city of Kiel

Six city air purifiers in use at Theodor-Heuss-Ring

Trittau, October, 15 2020: Even though traffic on the city ring road is not yet flowing again in all lanes, Robert Krüger, Managing Director of Purevento, is handing over the air filter system to Lord Mayor Ulf Kämpfer on schedule today. Both will officially commission the Purevento system, which consists of six City Air Cleaners, at noon after a successful one-week test run. "I am pleased that we can now make an active contribution to the air quality and health management of the city of Kiel on Theodor-Heuss-Ring with our air filtration plant," says Robert Krüger. Lord Mayor Ulf Kämpfer is convinced that the air filtration plant will bring about an important improvement: "The city air cleaners are better than all driving bans, which would lead to traffic jams and evasive traffic in other, more heavily populated streets and overall to more air pollution".

Successful trial operation with significant reduction of local NO₂ concentration

The six type S-60 City Air Cleaners with a cleaning capacity of up to 60,000 cubic metres per hour were installed last week. During the one-week trial operation, real measurements were carried out on site in the presence of representatives of the state capital, as was the case during the test installation last year, in order to verify the predicted effectiveness. The measurement results from the official air monitoring station of the Schleswig-Holstein State Environmental Agency confirmed the expected reduction in nitrogen dioxide concentrations on the relevant road section.

The operating period agreed between the city of Kiel and Purevento, including maintenance service, is three years with a two-year option to extend this period by one year each time. The performance data of the filter system are continuously telemetrically monitored, recorded, and analysed for demand-oriented control. As soon as the saturation limit of the filter media is reached, they are replaced and disposed of in an environmentally friendly manner, together with all pollutants.

The City Air Cleaner - Purevento's pioneering work made marketable

When the need for technical outdoor air purification arose in 2017 in the wake of tightened European air quality legislation, Robert Krüger immediately recognised the potential. In view of the increasing air pollution and urbanisation worldwide, he and his powerful team developed an effective air filter solution for the complex requirements of air filtration in urban areas. He used proven technologies and was able to develop a mobile prototype within a short time. This prototype convinced the city of Kiel and the State Environmental Agency of the effectiveness of technical outdoor air cleaning in test operation on the main

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inner city traffic axe. Then this method was included in the new air pollution control plan as a measure to reduce the excessive nitrogen concentration at this local pollution hotspot.

Last May, Purevento successfully won the first Europe-wide tender for technical outdoor air cleaning with its air filter solution. The four-stage filter system draws in the polluted air directly at the street and filters up to 85 percent of gaseous pollutants - especially nitrogen dioxide and ozone - from the air flow before distributing the clean air on the adjacent pavement and at the front of the building.

Purevento GmbH

Purevento GmbH, based in Trittau, Germany, specialises in innovative solutions for air quality management. It was founded in 2017 by Robert Krüger, the managing director of trittec AG, an internationally recognised specialist for filter media for protection of private and public buildings against fine dust, pollen and insects. Purevento's air filter systems clean breathing air in polluted city centres from solid and gaseous emissions harmful to health such as particulate matter, nitrogen dioxide, and ozone. The modular and scalable filter systems are tailor-made for the respective application area using digital models and simulations of the operating conditions.

We would be pleased to provide you with further information about Purevento air filtration systems.

Pictures:

https://www.purevento.com/wp-content/uploads/2020/10/Pressebilder_Kiel_Theodor-Heuss-Ring.zip

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