

# PRESS INFORMATION

## **Purevento wins first Europe-wide tender for urban air purification**

Pioneer of outdoor air cleaning helps to prevent ban on diesel cars EURO 1 – 5 in Kiel

*Trittau, 26. Mai 2020:* The German state capital Kiel has today decided to install a technical air filtration system from Purevento. Like many cities and municipalities in the EU, the city must comply with the prescribed limits for harmful pollutants in the air - in particular nitrogen dioxide - by the end of this year. Otherwise, there is a risk of heavy fines per day.

### **Technical air purification as the only effective alternative to driving ban**

The Kiel Air Pollution Control Plan of January 2020 describes a technical air filtration system for short-term compliance with the limit value "or, alternatively, a selective closure ... for diesel cars of EURO stages 1 - 5" of one direction of the city motorway. Mayor Ulf Kämpfer is certain that the air filters will bring an important improvement: "The city air purifiers are temporarily on the side of the road until the limit value is met even without this technical remedy. This is better than all driving bans, which would lead to traffic jams and evasive traffic on other, more populated roads and, overall, to more air pollution."

### **Convincing overall concept with model character for metropolises worldwide**

With its tailor-made, technical solution, Purevento was able to prevail in Europe-wide competition with its convincing overall concept against three other suppliers. The scalable concept with modular filter system has been developed for use in metropolitan areas worldwide and is optimally configured for the respective application location and purpose. Thanks to the cleaning capacity of up to 60,000 cubic meters of air per hour, only six filter modules are required at the Theodor-Heuss-Ring, which will be installed in October. The installation effort is minimal, so that the system is ready for use at short notice. The air purifiers are resource-efficient and energy-efficient throughout the entire product life cycle. The needs-based operating and maintenance concept provides residents and passers-by with healthy breathing air alike, and pedestrians and cyclists can continue to pass each other safely on the sidewalk. Purevento is already in talks with several German cities where compliance with the limit values is not guaranteed by the end of the year.

## **Proof of effectiveness provided by means of expert opinions and test status**

Two proofs were required for the effectiveness of the plant offered on the Kiel main traffic axis: a scientific report that simulates the reduction of nitrogen dioxide pollution and a test installation that provides practical proof under real operating conditions. At the beginning of 2019, the pioneer for technical outdoor air purification has already installed a prototype for the practical test at the Theodor-Heuss-Ring in Kiel. Both the State Environment Agency and the city of Kiel have supervised the successful effectiveness test of air purification of pollutants such as nitrogen dioxide and particulate matter.

## **How Purevento's urban air purifiers work**

The patent-pending four-stage filter system sucks in the polluted air directly on the road and frees it from about 90 percent of the fine dusts. Subsequently, gaseous pollutants – especially nitrogen oxides and ozone – are filtered up to 85 percent before the clean air is distributed on the sidewalk and on the front of the house. As soon as the saturation limit of the filter media is reached, these are replaced and disposed of in an environmentally compatible manner.

## **About Purevento**

Purevento GmbH, based in Tritttau, was founded in 2017 by Robert Krüger, Managing Director of trittec AG, an internationally recognized specialist in filter media for the protection against particulate matter, pollen and insects. Purevento's modular air filtration systems clean breathing air from solid and gaseous pollutants such as particulate matter, nitrogen dioxide and ozone and are tailored to the specific application.

We are happy to provide you with further information about Purevento air filtration systems.

## **Pictures:**

<https://www.purevento.com/wp-content/uploads/2020/05/20200526-PI-Purevento-wins-first-tender-for-outdoor-air-purification-at-Kiel.zip>

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