CAMBRIDGE | Enterprise

Aetosense

Aetosense

Meeting the regulatory need for ultrafine particle monitoring

WEBSITE

Overview

Aetosense is on a mission to provide a data-based solution of air quality improvements as well as meeting the need for regulations in 2027. Their focus is on the critical impact of airborne particles on health their innovative solutions are designed to address these challenges head-on.

Aetosense is led by Dr. Molly Haugen and is addressing an immediate market in air quality monitoring in forward thinking industries, but long term, is looking towards the regulatory space.

The Challenge

The Aetosense technology counts ultrafine particles, which will be a regulatory requirement for occupied spaces in 2027. Their technology, coming from the Engineering Department of Cambridge University is built for integration into air handling unit systems, and to be able to feed data back to building management systems to ensure occupied spaces comply with regulations. The technology also has the capability to reduce unnecessary air purification in un-occupied spaces, which could save energy consumption on a building-wide level.

The Solution

The technology built by Aetosense approaches the theoretical limitations of how small this type of technology can be. Their technology is an order of magnitude lower in cost and size, which allows it to be integrated into spaces other particle counters cannot. Additionally, this technology uses water, rather than carcinogenic butanol, to grow nanoparticles to a detectable size, which allows them to be built with air handling systems.

The size, cost and ultimate accuracy of their sensor enables Aetosense to meet the demand within the regulated space that competitors will not be able to capitalise on.

Patents and Publications

Patent pending

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