

Take a deep breath before every game

Handball Bundesliga team MT Melsungen uses the Resp-Aer-Meter from Palas GmbH

Melsungen, March 2021 - Handball Bundesliga team MT Melsungen is relying on a comprehensive and innovative concept to provide players and staff with the best possible protection against corona infection. The Resp-Aer-Meter from Palas GmbH in Karlsruhe is used for this purpose.

Before each match, the players take a deep breath and "blow" into the Resp-Aer-Meter. In this way, the aerosol concentration of the air breathed by the participants is measured.

Why? Researches have shown that the Corona virus is transmitted via the air we breathe - through so-called aerosols. Aerosols are formed in the lungs, among other places. Viruses, such as the Corona virus itself can attach themselves to these suspended tiny particles and are exhaled with them. People who are in the proximity of an infected person can inhale these aerosols and become infected.

"The amount of aerosols exhaled varies from person to person," explains Dr.-Ing. Frederik Weis, Head of Development at Palas GmbH. "It also means that people are contagious in different ways". The risk of infection is further influenced by whether people are indoors, how large a room is and how many people are in the proximity.

The MT Melsungen players breathe into the device. The evaluation takes place immediately: the device shows how many particles of which size exist in the breath. This serves as an indicator for a possible illness. If a certain value is exceeded, the person concerned is considered potentially infectious and can be isolated from the group before infecting others and taking further tests.

"The use of the Resp-Aer-Meter provides us with an additional safety feature to the mandatory swab testing, which we continue to do on a regular basis as per league regulations. Resp-Aer testing is a valuable, as it is a preventive measure to minimise the risk of infection from the very beginning. I will therefore present this innovative method in the league to the club general managers and report on our positive experiences," explains MT board member Axel Geerken.

Palas GmbH contributed their long-standing expertise in the measurement of aerosol particles to the development of the Resp-Aer-Meter. During the development of the device, Palas GmbH was scientifically advised and supported by the well-known expert Dr. Gerhard Scheuch, who is also involved in the project with MT Melsungen. He knows: "Wherever people are relatively close together in indoor places with limited fresh air exchange over a longer period of time, there is a very high risk that they will become infected if anyone who is infectious is among them. In this case, infection with aerosols containing disease-causing viruses occurs via the air we breathe."

[More Information can be read on the MT Melsungen Website \(German\)](#)

About Palas:

The Palas GmbH is a leading developer and manufacturer of high-precision devices for the generation, measurement and characterization of particles in the air. With numerous active patents Palas® develops technologically leading and certified fine dust and nanoparticle measuring devices, aerosol spectrometers, generators and sensors as well as associated systems and software solutions. Palas® was founded in 1983 and employs about 70 employees at the company headquarters in Karlsruhe. Palas GmbH is a subsidiary of Brockhaus Capital Management AG, which is listed in the Prime Standard at the Frankfurt Stock Exchange (BKHT, ISIN: DE000A2GSU42).

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Pictures (by Alibek Käsler)



