

DEOS AG case study

DEOS CO₂ indoor air quality indicator SAM: cheaper & more effective than complex air filter units

St. Agatha association of day care centres, Gronau-Epe

A total of 5 day care centres belong to the St. Agatha association in Gronau-Epe, North Rhine-Westphalia, Germany. In the 16 groups, 335 children are cared for every day.

DEOS CO₂ indoor air quality indicators SAM: integrated into the daily routine of a day care centre with a learning effect for children

In order to guarantee a safe care and working environment for the 335 children and the nursery staff, those responsible for making the decisions at the St. Agatha association in Gronau-Epe were faced with a major challenge. Various aspects such as user-friendliness, integration into the day care centre routine as well as costs played a decisive role. Therefore, the responsible persons gathered information about different systems and solutions. In the end, they chose the DEOS CO₂ indoor air quality indicator SAM.

Due to the quick delivery of the devices, 30 indicators could be installed for all premises within a few days. When setting the values for the different alarm levels, the staff relies on the recommendation of the Robert Koch Institute. And so, within a very short time, the indicators have been integrated into the daily routine of the day care centre, both by the staff and the children: When the DEOS indoor air quality indicator turns yellow, then - as the children all know by now - the rooms should be ventilated promptly. And the children also like to point this out to their teachers. In this way, the children learn the necessity and importance of proper ventilation at a young age.

What the users say after 10 weeks:



„It is amazing how quickly the values change when all the children have been back in the room for a while, and it also gives all the staff a feeling of safety,“ reports Silvia Nordholt, head of the St. Josef day care centre from the St. Agatha association. The indicators work extremely reliably. After almost ten weeks of using the devices developed in Rheine, the first conclusion is positive without any compromises.

The children’s parents are also enthusiastic: „The parents notice that something is happening here for the benefit of all children. This is very much appreciated,“ says the head of the association. And also because of the employer’s responsibility for the employees, the acquisition of the indoor air quality indicators was the right decision in Reekers-Wolf’s view.

Cheaper and more effective than complex air filter units

When the day care centre association had to decide on the issue of safe ventilation, the purchase of ventilation units was also under discussion. However, the comparatively high purchase costs and the expensive and time-consuming maintenance work quickly put an end to this consideration. Concerns about the noise level emitted by ventilation units are also an aspect that should not be neglected in day care centres.

DEOS SAM was convincing here from a cost-benefit point of view. The indoor air quality indicators are significantly cheaper than the electrically operated room air filter units. Thanks to the simple plug & play installation and the delivery capability, they are also ready for use immediately and without any technical expertise.

Conclusion: day care centre association continues to rely on DEOS SAM after coronavirus pandemic

The teachers came to a positive conclusion, especially because of their user-friendliness: whereas before the windows were opened briefly at set intervals, now in each group room you know exactly when it's time to let in fresh air - and when they can be closed again, because the levels in the room are good enough again. In this way, the staff can always keep an eye on the indoor air quality, and ventilation can be provided as needed. In addition to the feeling of safety, this also brings a lot of calm back into the day-to-day life of the day care centre.

Overall, the DEOS CO₂ indoor air quality indicators have become an indispensable part of the day care centre's daily routine. That's why we will continue to use them even after the coronavirus pandemic.

