

**Abstract 5**

Friebe Christian  
Krause Ralph  
Heidenreich Ralf  
Heidenreich Ralf

**X** Institut für Luft- und Kältetechnik gGmbH ~ Dresden ~ Germany  
Institut für Luft- und Kältetechnik gGmbH ~ Dresden ~ Germany  
Institut für Luft- und Kältetechnik gGmbH ~ Dresden ~ Germany  
Institut für Luft- und Kältetechnik gGmbH ~ Dresden ~ Germany

**Topics** HVAC impact on comfort and health of occupants and operators / Impatto dei sistemi di condizionamento sul comfort e la salute di occupanti e operatori

**APPLICATION OF MOBILE AIR CLEANING DEVICES IN DAILY SCHOOL ROUTINES**

The pandemic spread of the SARS-CoV2 viruses in Europe is leading to the use of new ventilation concepts. Schools are considered to be one of the main origins of the spread. Therefore, ways to reduce the possibility of indirect infection in everyday school life are being investigated.

In this paper, the results of field studies are presented. In the course of these studies, different modes of action (filtration, UV-C, photocatalysis) and different room flow concepts (mixed ventilation, displacement ventilation) were considered. The evaluations of the measurements show how the devices influence the sensations of the students (sound pressure level, draught risk, etc.). Furthermore, it shows how the exhaust air capture works and how the room flow is affected. Therefore, ways to reduce the possibility of indirect infection in everyday school life are sought here.