Konvekta AG

PRESS RELEASE

KONVEKTA AG

Subject: Air conditioning in "local public transport"

Coronavirus and air conditioning systems

Since the beginning of the year, our world has been turned upside down. Corona predominates in every aspect of our lives. We, Konvekta AG – a manufacturer of air conditioning systems for buses and trains – are also hearing increasing numbers of queries and concerns from vehicle operators and manufacturers. The main question being asked is: How do coronaviruses behave in conjunction with air conditioning systems?

This is a topic that we have been working on very intensively in recent weeks. According to the information available to us, we believe that aerosol transmission (by air) of coronavirus is not the primary transmission route. This has also been confirmed by studies from the Robert Koch Institute, who believes that SARS-CoV-2 transmission via aerosol is unlikely in normal social interactions. Ninety percent of transmissions occur via droplet infection (coughing and sneezing) and nine percent through contact with contaminated surfaces. This means that an infection is much more likely to occur through direct transmission from person to person or by touching handrails, seats etc.
However, aerogenic infections cannot be completely ruled out, as air movement in vehicles may deflect droplets from their trajectory and cause them to be ingested or absorbed.

Higher fresh air content

The number of pathogens can increase considerably in enclosed spaces. Regular ventilation therefore reduces the risk of infection. Ventilation also improves interior climatic conditions and, by increasing

air humidity, prevents dryness in the mucous membranes in the nose and mouth, which in turn gives better protection against pathogens. Providing fresh air or increasing the amount of fresh air is therefore certainly a worthwhile measure. As far as city buses are concerned, the desired air exchange takes place by regularly opening the doors at the bus stops. In the coach sector it is much more difficult to provide this air exchange.

Do air conditioning systems now need extra servicing?
Konvekta air conditioning systems, like any air conditioning system, require regular servicing. This involves inspecting the system for contamination and changing filters or, in the case of metal filters, cleaning them. If the servicing intervals have been adhered to, no extra service is now required.

Konvekta city bus air conditioning systems have been proven to be particularly clean. Their low-maintenance hygiene design, regular servicing and more efficient parts prevent germs and bacteria from breeding. In fact, the air improves because it can only enter a vehicle's interior by passing through filter technology. The number of germs measured at outlets were lower than those at air intakes.

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Contact:
Claudia Mittelstaedt
Email: ClaudiaMittelstaedt@konvekta.com

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