



Introduction: context of the webinar



Arnold Janssens –
Chair of AIVC WG
COVID-19

- Increased evidence that airborne transmission by aerosols plays important role in spreading COVID-19 in indoor spaces
- Many organisations are working on this topic and have produced guidelines:
 - REHVA
 - ASHRAE
 - CIBSE
 - IEQ-GA
 - ...
- AIVC-project ‘Ventilation, airtightness and COVID-19’
 - Collect, discuss and disseminate information about COVID-19 in relation to ventilation and airtightness
 - Working group defining project deliverables

AIVC-newsletter, FAQ website



Editorial

We hope you are keeping safe and healthy during this challenging period. The COVID-19 pandemic has an unprecedented impact on all of us, both personally and professionally. As researchers and practitioners we also have a role to play in developing solutions to provide healthy indoor spaces to reduce disease transmission, and in informing the public. Based on developing scientific knowledge it has become clear that, although close contact transmission is the dominant transmission route, long-range airborne transmission through small size infected aerosols plays an important role in spreading COVID-19 in indoor spaces. As a consequence, increasing outdoor air change rates, or applying other technical measures to remove infected aerosols are necessary to avoid infection hotspots.

The AIVC board decided in their last (online) meeting of September 2020 to start a project to collect, discuss and disseminate information about COVID-19 in relation to ventilation and airtightness. A working group was created to define the activities and outputs of the project with the title ‘ventilation, airtightness and COVID-19’. The working group members are listed at the last page of this newsletter.

This newsletter is a first outcome of the project. It presents a number of questions and answers developed and reviewed by working group members. The collection of relevant questions and the development of clear answers in line with most recent scientific understanding is a continuing process, to which we also invite you, as a reader, to participate. Let us know if you have a question that the working group should look into. This way we hope to expand the knowledge, also on the AIVC website. Many other international organizations in the domain of HVAC, health care or prevention have developed information and guidance documents to support decision makers and public about the COVID-19 pandemic. This newsletter therefore contains an overview of frequently asked questions in relation to COVID-19 and building ventilation, developed by a number of those organizations. The ventilation related guidelines by REHVA and ASHRAE will receive specific attention during the upcoming AIVC webinar to be held on November 20th, 2020. The webinar is a second outcome of the project, and is announced in more detail in this newsletter and on the AIVC website. We wish you a pleasant reading and look forward to seeing you in future events.

Arnold Janssens, chair of AIVC working group on COVID-19



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Call to readers

The AIVC’s COVID-19 Working Group members searched and provided responses to the frequently asked questions (FAQ), in this special issue. Have a question for the FAQ? Email us at info@aicv.org

- Introduction, Arnold Janssens, chair of AIVC WG COVID-19
 - REHVA guidance regarding ventilation, David Rasmussen – Chair of REHVA COVID-19 task force
 - ASHRAE guidance regarding ventilation, William P. Balashoff, chair of ASHRAE’s epidemic task force
 - Similarities and differences between REHVA’s & ASHRAE’s guidance, Volker Leppner, member AIVC COVID-19 working group & ASHRAE’s epidemic task force
- Participation to the webinar is FREE but requires you to REGISTER for the event. For further information please visit our website.

Frequently Asked Questions

[AIVC Publications](#) | [Bibliographic database Airbase](#) | [News](#) | [Newsletters](#) | [FAQ](#) | [Collections of publications](#)

This section answers some frequently asked questions for those

As an additional reading, the AIVC suggests its’ handbook, “A I context of achieving energy efficiency and good indoor quality.

Filter options

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Are COVID-19 recommendations of REHVA and ASHRAE and ASHRAE agree on their main recommendations, at covid-19 | REHVA | ASHRAE | ventilation

Can a measured CO2 concentration show a build-up
An indoor CO2 concentration is commonly used as an indicator concentration depends on the number, demographics, and air flow, the air renewal rate, and the outdoor concentration.

covid-19 | CO2 concentration | SARS-CoV-2

Can portable air cleaners prevent the spread of CC
There are various measures to reduce the risk of exposure to it into three main categories: source control, ventilation control, a people in the enclosed space (1). This enables social distancing person in the enclosed space) and provides more outdoor air p by infectious human pathogens.

covid-19 | air cleaners

What is smart ventilation?

The definition given by AIVC for smart ventilation in buildings is...

Call to readers

Do you have a question about COVID-19 and ventilation?

Let us know and the AIVC COVID-19 Working Group will try to provide an answer.

Email us at info@aicv.org



IAQ 2020: Indoor Environmental Quality Performance Approaches

Transitioning from IAQ to IEQ

September 13-15, 2021 |
Athens, Greece

New call for abstracts (December 21, 2020):

- Role of ventilation and building airtightness in epidemic preparedness
- Filtration and disinfection options to control COVID19
- Face-covering impacts on indoor air quality
- HVAC and IEQ in a post-COVID world

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COVID-19 Ventilation related guidance by ASHRAE & REHVA

webinar
2020.11.20

Objectives:

- to present COVID-19 related **guidelines by REHVA and ASHRAE**,
- to understand the **reasons** behind differences,
- to determine **research** needed to move forward

16:00 | **Introduction**, *Arnold Janssens – chair of AIVC WG COVID-19*

16:05 | **REHVA guidance regarding ventilation**,
Jarek Kurnitski – chair of REHVA COVID-19 task force

16:20 | **Questions & Answers**

16:30 | **ASHRAE guidance regarding ventilation**,
William P. Bahnfleth – chair of ASHRAE's Epidemic task force

16:45 | **Questions & Answers**

16:55 | **Similarities and differences between REHVA's & ASHRAE's guidance**,
Valérie Leprince – member AIVC COVID-19 working group & ASHRAE's Epidemic task force

17:05 | **Questions & Answers**

17:15 | **End of webinar**

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COVID-19 Ventilation related guidance by ASHRAE & REHVA: speakers



Jarek Kurnitski –
chair of REHVA
COVID-19 task
force



William P.
Bahnfleth – chair
of ASHRAE's
Epidemic task
force



Valérie Leprince –
member AIVC
COVID-19 working
group & ASHRAE's
Epidemic task force

Webinar management



Maria Kapsalaki
(INIVE, BE)

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How to ask questions during the webinar

Locate the **Q&A** box

Select **All Panelists** | Type your question | Click on Send

Note: Please **DO NOT**
use the chat box to ask
your questions!

Q&A ×

All (0)

Ask:

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