



IEA-EBC Annex 78: Substituting Ventilation by Gas Phase Air Cleaning. An industry webinar

Monday November 7th, 2022

15:00-16:45 (Brussels, BE)

14:00-15:45 (London, UK)

16:00-17:45 (Athens, GR)

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Registration is required: A link to join the webinar will be included in the email confirmation.

Worldwide, there is an increasing number of publications related to air cleaning and there is an increasing sale of gas phase air cleaning products. This puts a demand for verifying the influence of using air cleaning on indoor air quality, comfort, well-being and health. It is thus important to learn whether air cleaning can supplement ventilation with respect to improving air quality i.e., whether it can partly substitute the ventilation rates required by standards. There is also a need to evaluate the energy impact of using air cleaning as supplement to ventilation.

In many locations in the world, the outdoor air quality is so bad that it is better to avoid supplying outdoor air to the buildings. In such cases, the alternative to use ventilation is to substitute supply of outdoor air with air cleaning. Even when outdoor air is of a good quality, the use of air cleaning substituting ventilation air could reduce the rate of outdoor air supplied indoors. Therefore, it is possible to save energy for pre-heating/cooling the ventilation air and for transporting the air (fan energy).

To verify the performance of gas phase air cleaning technologies there is a need to develop appropriate standard test methods, which will be covered by presentations and discussion in this webinar.

This webinar is organized by the [IEA-EBC Annex 78](#) & the [AIVC](#). The webinar is facilitated by [INIVE](#).

Programme (Brussels time)

- ✚ 15:00 | Introduction to IEA-EBC Annex 78 and the concept of substituting Ventilation by Gas Phase Air Cleaning, *Bjarne W. Olesen, ICIEE/DTU, Denmark*
- ✚ 15:10 | Description of gas phase Air Cleaning Technologies, *Alireza Afshari, AAU, Denmark*
- ✚ 15:20 | Existing standards for testing gas phase air cleaners, *Paolo Tronville, Politecnico di Torino, Italy*
- ✚ 15:30 | Questions and answers
- ✚ 15:40 | Measuring Perceived Air Quality for testing air cleaners, *Pawel Wargocki, ICIEE/DTU, Denmark*
- ✚ 15:55 | Results of a new testing method including perceived air quality, *Fang Lei, ICIEE/DTU, Denmark*
- ✚ 16:15 | Proposed plan for developing a new testing standard, *Bjarne W. Olesen, ICIEE, DTU, Denmark*
- ✚ 16:25 | Questions and answers
- ✚ 16:40 | End of webinar



Cost and registration

Participation to the webinar is free but requires you to register for the event. The webinar will be limited to a maximum of 1000 persons. To register, please click on the "Register now" button above.

What is a webinar?

A webinar is a conference broadcasted on internet. To follow a webinar, you must have a computer with a sound card and speakers or headphones. Once logged in the "webinar room", you will be able to see the slides of the presentation and to hear the panellists' comments. You will also be able to ask written questions to the speakers, and to answer on-line surveys.

Hardware, software

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About IEA EBC Annex 78 - Supplementing Ventilation with Gas-phase Air Cleaning, Implementation and Energy Implications

Annex 78 Supplementing Ventilation with Gas-phase Air Cleaning, Implementation and Energy Implications (<https://annex78.iea-ebc.org/>) is an international research project of the IEA Energy in Buildings and Communities (EBC) programme. The Annex should bring researchers and industry together to investigate the possible energy benefits by using gas phase air cleaners (partial substitute for ventilation) and establish procedures for improving indoor air quality or reduced amount of ventilation by gas phase air cleaning. The project shall also establish a test method for air cleaners that considers the influence on the perceived air quality and substances in the indoor air.

About AIVC

Created in 1979, the Air Infiltration and Ventilation Centre (www.aivc.org) is one of the projects/annexes running under the International Energy Agency's Energy in Buildings and Communities (IEA-EBC) Programme. With the support of its member countries as well as key experts and two associations (REHVA, IBPSA, ISIAQ), the AIVC offers industry and research organisations technical support aimed at better understanding the ventilation challenges and optimising energy efficient ventilation.

The AIVC activities are supported by the following countries: Australia, Belgium, China, Denmark, France, Greece, Italy, Ireland, Japan, Netherlands, New Zealand, Norway, Republic of Korea, Spain, Sweden, UK and USA.

About INIVE

INIVE (International Network for Information on Ventilation and Energy Performance) was created in 2001. The main reason for founding INIVE was to set up a worldwide acting network of excellence in knowledge gathering and dissemination. At present, INIVE has as member organisations BBRI, CETIAT, CSTB, eERG, Ghent University, IBP-Fraunhofer, KU Leuven, NKUA, SINTEF, and TNO (www.inive.org)

INIVE is coordinating and/or facilitating various international projects, e.g. AIVC (www.aivc.org), TightVent Europe (www.tightvent.eu), venticool and Dynastee (www.dynastee.info). INIVE has also coordinated the ASI-EPI project dealing with the evaluation of the implementation and impact of the EU Energy Performance of Buildings Directive, the QUALICHeCK project aiming towards improved compliance and quality of the works for better performing buildings, BUILD UP the European portal on Energy Efficiency and the EPBD feasibility study 19a.