

Ventilative Cooling – Design and examples

Thursday 26th March 2020

15:00-16:30 (Brussels, BE)

14:00-15:30 (London, UK)

16:00-17:30 (Athens, GR)

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

The current development in building energy efficiency towards nZEB buildings represents a number of new challenges to design and construction. One of these major challenges is the increased need for cooling in these highly insulated and airtight buildings, which is not only present in the summer period but also in the shoulder seasons and in offices even in midwinter. Ventilative cooling can be an energy efficient solution to address this cooling challenge in buildings. This webinar presents the main outcomes of IEA EBC Annex 62 on ventilative cooling design as well as give examples of applications and lessons learned.

This webinar is organised by INIVE EEIG (www.inive.org) with the support of the IEA-EBC annex 62 on ventilative cooling (<https://venticool.eu/annex-62-home/>) and the venticool platform (www.venticool.eu), and in cooperation with the Air Infiltration and Ventilation Centre (www.aivc.org).

Programme (Brussels time)

15:00 **INTRODUCTION TO ANNEX 62**
Hilde Breesch, KU Leuven, Belgium

15:10 **VENTILATIVE COOLING DESIGN**
Guilherme Carrilho da Graça, University of Lisbon, Portugal

15:25 **Questions and answers**

15:30 **VENTILATIVE COOLING POTENTIAL & OPERATIONAL STRATEGIES**
Annamaria Belleri, EURAC, Italy

15:45 **Questions and answers**

15:50 **EXAMPLE VENTILATIVE COOLING: CML KINDERGARTEN (PORTUGAL)**
Guilherme Carrilho da Graça, University of Lisbon, Portugal

16:00 **EXAMPLE VENTILATIVE COOLING: UNIVERSITY SEMINAR ROOM (UK)**
Maria Kolokotroni, Brunel University London, UK

16:10 **LESSONS LEARNT FROM VENTILATIVE COOLING CASES**
Paul O' Sullivan, Cork Institute of Technology, Ireland

16:20 **Questions and answers**

16:30 **End of the 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 200 persons. To register, please click on the "Register now" button above or visit inive.webex.com.

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 "conference 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 62

Annex 62 Ventilative Cooling (<https://venticool.eu/annex-62-home/>) was an international research project of the IEA Energy in Buildings and Communities (EBC) programme that aimed to make ventilative cooling an attractive and energy efficient cooling solution to avoid overheating of both new and renovated buildings. Objectives were: to develop and evaluate suitable methods and tools for prediction of cooling need, ventilative cooling performance and risk of overheating in buildings; to develop guidelines for an energy efficient reduction of the risk of overheating by ventilative cooling solutions and for design and operation in both residential and commercial buildings; to develop guidelines for integration of ventilative cooling in energy performance calculation methods and regulations including specification and verification of key performance indicators; to develop instructions for improvement of the ventilative cooling capacity of existing systems and for development of new solutions including their control strategies; and to demonstrate the performance of solutions through analysis and evaluation of well-documented case studies.

About venticool

The international ventilative cooling platform, venticool (<http://venticool.eu/>) supports better guidance for the appropriate implementation of ventilative cooling strategies as well as adequate credit for such strategies in building regulations. The platform philosophy is to pull resources together and to avoid duplicating efforts to maximise the impact of existing and new initiatives. venticool has been initiated by the International Network for Information on Ventilation and Energy Performance (INIVE EEIG) with the financial and/or technical support of the following partners: Agoria-NAVENTA, Velux and WindowMaster.

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 EEIG (International Network for Information on Ventilation and Energy Performance) was created in 2001 as a so-called European Economic Interest Grouping. 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 8 member organisations (BBRI, CETIAT, CSTB, eERG, IBP-Fraunhofer, 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 ASIEPI 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 (<https://www.epbd19a.eu/>).

