

New standardization projects on ventilative cooling and natural and hybrid ventilation systems

New Work Items (NWI's) relevant to ventilative cooling applications have been approved by the European Committee for Standardization (CEN) and the International Organization for Standardization (ISO) (see also Venticool newsletter June 2017 edition [1]). The scope of this work is to make technical documents focusing on design aspects of ventilative cooling, and natural and hybrid ventilation systems in residential and non-residential buildings.



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The projects are progressing well and have now officially started under CEN/TC 156 (Ventilation for buildings) and ISO/TC 205 (Building environment design). Some of the projects have developed further than others, e.g. the ISO standard (see below) where some of the contents have already been discussed. The others are still in the initial phase of setting up task groups and discussing the scope.

The initiated projects are planned as Technical Specifications (normative documents of lower status than EN Standards), an EN standard under CEN/TC 156, and as an ISO standard under ISO/TC 205.

More specifically, four projects relevant to ventilative cooling applications, have already started:

Ventilative cooling systems

- Main focus: Thermal comfort (prevent overheating)
- Document type: A CEN Technical Specification
- Work started in CEN/TC 156 WG/21

Natural and hybrid ventilation systems in non-residential buildings

- Main focus: Indoor air quality
- Document type: CEN Technical Specification
- Work started in CEN/TC 156 WG/20

Design process of natural ventilation for reducing cooling demand in energy-efficient non-residential buildings

- Main focus: Thermal comfort (design process to prevent overheating)
- Document type: ISO standard
- Work started in ISO/TC 205 WG/2

Expansion of Natural and Hybrid ventilation in residential buildings in upcoming "Revision of EN 15665:2009 and CEN/TR 14788:2006"

- Main focus: Indoor air quality
- Document type: Goal is to merge both documents into one document (e.g. EN standard)
- Work started up in WG/2 in CEN/TC 156

The technical documents are a good opportunity to define design aspects and processes of ventilative cooling and natural and hybrid ventilation systems on the European and International scene e.g. by applying findings from the Venticool platform and the upcoming IEA EBC Annex 62 reports on ventilative cooling due later in 2018 (see also Venticool workshop on ventilative cooling [2]).

Post navigation

New release: Energy Efficiency and Indoor Climate in Buildings.

<http://venticool.eu/new-release-energy-efficiency-and-indoor-climate-in-buildings/>.

IEA EBC Annex 62- Ventilative Cooling- 8th Expert Meeting, Gent, Belgium, October 24-25, 2017.

<http://venticool.eu/iea-ebc-annex-62-ventilative-cooling-8th-expert-meeting-gent-belgium-october-24-25-2017/>

[1] <http://venticool.eu/download/1564/>

[2] <http://venticool.eu/feedback-from-the-ventilative-cooling-workshop-on-october-23-2017-in-brussels/>