

How to select EN ISO 16890 rated air filter classes for general ventilation applications?

Eurovent Recommendation 4/23 constitutes a comprehensive guideline, which supports a swift transition away from EN 779 while making full use of potential EN ISO 16890 offers in terms of Indoor Air Quality

Brussels, 14 December 2017. The Eurovent Association has officially released the first edition of its long-awaited code of good practice Eurovent 4/23 (2017) on the “Selection of EN ISO 16890 rated air filter classes for general ventilation applications”. The publication is addressed to all HVAC professionals dealing with ventilation systems, particularly design consultants, facility managers and manufacturers of equipment incorporating air filters. It was jointly developed by participants of the Product Group ‘Air Filters’ (PG-FIL).

To provide a general overview of how classifications correspond to each other, Eurovent has prepared a comparison of EN 779 and EN ISO 16890 rated classes of the same filters, based on real test data. The comparison reflects an actual overlapping of respective classes and was developed using data from the ‘Eurovent Certified Performance’ programme for air filters for general ventilation operated by Eurovent Certita Certification. This programme includes both full EN 779 and EN ISO 16890 tests performed in accredited third-party laboratories. Manufacturers participating in this programme represent a cumulative 70% share of the European market.

Jan Andersson, Chairman of the Eurovent Product Group ‘Air Filters’ states: “The efficiency classification established in EN ISO 16890 differs fundamentally from the efficiency definition of EN 779. Substantial differences in the approach to the classification definition, but also to test methods, brought us to the fact that filter classes rated according to EN ISO 16890 and EN 779 cannot be directly compared or converted by means of any calculation method. If done so, it would nullify the large potential the ISO standards has to offer in terms of Indoor Air Quality.”

Thomas Caesar, Vice-Chairman of the Product Group, added: “Although the ISO 16890 classification establishes an effective Indoor Air Quality design tool for engineers and maintenance staff, at the time of publication of our document, there are no available corresponding European guidelines on correct filter class selection for various applications taking a sufficient Indoor Air Quality into account. With our new Eurovent Recommendation 4/23, we aim to fill this gap. The document reflects a deep technical understanding and the combined know-how of the many filtration experts within the Eurovent Association, and particularly our Product Group.”

The Recommendation Eurovent 4/23 (2017) can be downloaded free-of-charge at www.eurovent.eu. It is also attached to the online version of this Press Release. Although a standard by nature, the document was published in a guidebook style, allowing engineers on the road to easily carry it with them. A printed version can be requested at all filter manufacturers that are members of the Eurovent Association. The Recommendation will be regularly updated once new testing data become available.

Enclosed documents

Eurovent Association logo files

Press images

PDF version of the Press Release

About Eurovent

Eurovent is Europe's Industry Association for Indoor Climate (HVAC), Process Cooling, and Food Cold Chain Technologies. Its members from throughout Europe, the Middle East and Africa represent more than 1.000 companies, the majority small and medium-sized manufacturers. Based on objective and verifiable data, these account for a combined annual turnover of more than 30bn Euros, employing around 150.000 people within the association's geographic area. This makes Eurovent one of the largest cross-regional industry committees of its kind. The organisation's activities are based on highly valued democratic decision-making principles, ensuring a level-playing field for the entire industry independent from organisation sizes or membership fees.

Eurovent's roots date back to 1958. Over the years, the Brussels-based organisation has become a well-respected and known stakeholder that builds bridges between manufacturers it represents, associations, legislators and standardisation bodies on a national, regional and international level. While Eurovent strongly supports energy-efficient and sustainable technologies, it advocates a holistic approach that also integrates health, life and work quality as well as safety aspects. Eurovent holds in-depth relations with partner associations around the globe. It is a founding member of the ICARHMA network, supporter of REHVA, and contributor to various EU and UN initiatives.

Our Members and 'Affiliated Manufacturers'



Our Members are national associations from Europe, the Middle East and Africa that are representing manufacturers in the area of Indoor Climate, Process Cooling, and Food Cold Chain technologies.



The more than 1000 companies within their networks (Eurovent 'Affiliated Manufacturers') can directly participate in Eurovent activities in a democratic and transparent manner.

For in-depth information and a list of all our members, visit www.eurovent.eu

Democratic decision-making



DEMOCRATIC DECISION-MAKING

 Activities rest upon democratic decision-making procedures between members and their representatives

 'Umbrella association' structure ensures broad and truly credible representation of our industry vis-à-vis policy makers

 Voting rights independent from amount of membership contributions or company sizes

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