



Eurovent 4/19 - 2018

Industry Recommendation concerning Public Enquiries for Air Filters

Third Edition

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Document history

This Eurovent Industry Recommendation / Code of Good Practice supersedes all of its previous editions, which automatically become obsolete with the publication of this document.

Modifications

This Eurovent publication was modified as against previous editions in the following manner:

Modifications as against	Key changes
Eurovent 4/19 – 2012 (first edition)	Update of references and wordings, removal of classes that are now being dealt within the Operation Manual of the Eurovent Certita Certification performance certification programme for air filters.
Eurovent 4/19 – 2015 (second edition)	Update of references to EN standards and Eurovent Recommendations.

Preface

In a nutshell

Recommendation covering the most important parameters and demands that should be taken into consideration when writing a valid requisition, public tender, or enquiry for air filters.

Authors

This document was published by the Eurovent Association and was prepared in a joint effort by participants of the Product Group 'Air Filters' (PG-FIL).

The more than 30 manufacturers participating within this working group hold a market share on the EMEA market of more than 90% as independently assessed by Eurovent Market Intelligence.

A list of all participants to this Product Group is available on request.

Adoption

It has been approved and adopted through a formal voting procedure by Europe's national member associations from 20+ European countries, which ensures a wide-ranging representativeness based on democratic decision-making procedures. More information on these members can be found at www.eurovent.eu

Important remarks

The Eurovent Association does not grant any certification based on this document. All certification-related issues are managed by the association's independent subunit Eurovent Certita Certification in Paris. For more information, visit www.eurovent-certification.com

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1. Background

Air filters are a very important and significant component of air handling units. They are important to the air handling system with respect to functionality and energy aspects. The most important function of an air filter is to clean the air, protect the air handling equipment, and create a good indoor air quality. They also have to fulfil demands and criteria so that the product fit into the air handling installation. Energy conservation in design and operation is of high importance.

Part of the public enquiry specifications objective is to also keep the energy consumption at a low level. It goes without saying that the filtration efficiency of the filter must never be lowered on behalf of the energy saving. The combination of an efficient particulate air filter, IAQ requirements and low energy consumption put the focus on the correct specification and validation of air filters.

For this purpose, Eurovent has developed a Recommendation covering the most important parameters and demands that should be taken into consideration when writing a valid requisition, public tender or enquiry for air filters. It is important that customers are provided with a tool enabling them to compare the different quotations and filter brands in an unbiased manner.

2. Mandatory demands

2.1 Products

- Third-party certification of the initial pressure drop, filter class, efficiency, minimum efficiency, energy use and energy class
- Incinerable air filter according to national law and regulations
- Eurovent Energy Efficiency Classified and Certified by the Eurovent Certita Certification programme. Eurovent label displayed in documentations and/or on the boxes
- Alternative to the above when a total cost LCC is required:
LCC Eurovent revised REC 10, Calculation of Life Cycle Cost for Air Filters
- Average pressure drop has to be noted and based on initial pressure drop from EN ISO 16890 test report, latest version, and integrated value according to Eurovent Document 4/21 - 2018, based on EN ISO 16890
- Gaskets have to be included with filters, depending on local needs
- Recyclable cardboard boxes (for example: connected/partnership to REPA, Sweden or similar national and European regulations)
- Organisation for education / technical advice regarding improvement of air handling equipment during the period of the contract between customer and supplier
- Terms of Delivery, Incoterms 2010
- All chemical substances used to build a filter shall be in compliance with EU REACH, RoHS and similar legislation
- Plastic bag for disposal of used filters shall be attached in package (national requirements)
- Filters shall fulfil all hygienic requirements according to the standard EN 16798-3 and/or the German Guideline VDI 6022. Design and construction of the air filters and filter frames shall allow for easy and safe assembly, thus causing no damage and ensuring tight fit of the air filters in their frames over the entire time of operation of the air filter.

2.2 Quality / Environment

- Bid Package has to be approved and registered by national recycling system if required by national law
- ISO 9001/14001 certification

2.3 The supplying company

- Sound finances (e.g. a good rating according to Dun and Bradstreet, Moody, Standard & Poor or comparable)
- Certificate from Credit- and Business Information Company. Maximum three months old (national version)
- Certificate of registration (national version)
- Tax certificate (national version)
- Liability insurance

3. Specifications to be included in the enquiry

In addition to the 'mandatory demands', the air filters must be specified in a similar way by all quoting companies to be able to be compared.

State the following:

- Front dimension
- Depth of filter, (in case of bag filters +- 50 mm)
- Quantity required of each filter type
- Filter class according to EN ISO 16890
- Efficiency
- Minimum efficiency
- Energy Efficiency class certified by Eurovent Certita Certification for filters ePM10, ePM2,5 and ePM1
- LCC method and detailed data have to be stated by customer in the enquiry Eurovent Recommendation 10 – Revised LCC. Average pressure drop has to be calculated from Eurovent Document 4/21 – 2018.
- Total purchase value in local currency (e.g. EUR/year or local currency)

4. Definitions of the technical terms

EN ISO 16890

European standard for testing air filters for general ventilation norm

LCC (Life Cycle Cost)

The calculation method for total cost of running an air filter during its life time

Eurovent Certita Certification

Performance certification of air filters, in classes ePM10 - ePM1 that guarantees all figures and values in product sheets, brochures and other marketing materials according to real performance of the product tested by independent laboratories. The method relies on tests according to EN ISO 16890.

Certified companies and products are listed on the Eurovent Certita Certification website

www.eurovent-certification.com

National recycling scheme

Producers are responsible for packages of plastic, metal, paper / card board and corrugated cardboard.

EU REACH

The Registration, Evaluation, Authorisation and Restriction of Chemicals, is the European Chemicals Policy. It introduces major changes in the way chemicals are managed throughout the EU Member States. The EU chemicals legislation, REACH, was formally published at the end of 2006 and entered into force on 1 June 2007. REACH is set to bring major changes both in the global chemicals industry and in any industry that uses or processes chemicals. It will affect organisations at every point of a production chain, from chemical manufacturers to chemical distributors to companies assembling products from component parts.

More information can be found on www.reach.com

Energy Efficiency Classification

Eurovent Certification Programme includes, from January 2019, A+ to E classes for annual energy consumption, calculated according to Eurovent Document 4/21 – 2018 (Energy Efficiency Classification of air filters for General Ventilation Purposes).

Eurovent REC 10, Calculation of Life Cycle Cost for Air Filters

A life cycle cost calculation recommendation by Eurovent, and a tool to minimise the running costs of an air handling installation.

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 organisations, 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.

Our Members

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

The more than 1.000 manufacturers within our network (Eurovent 'Affiliated Manufacturers' and 'Corresponding Members') 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