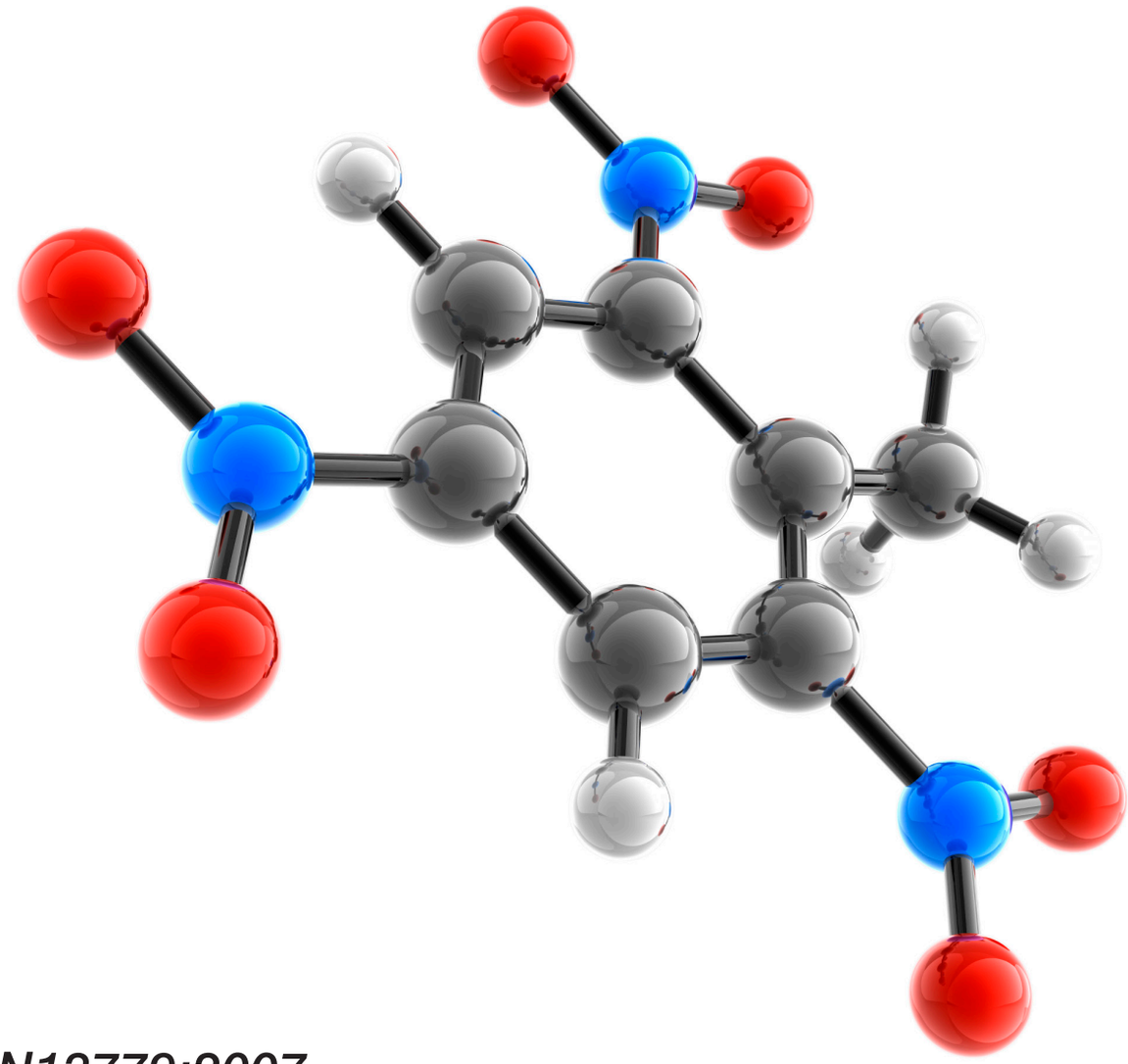
Manufacturing Air Filters in the UK for Over 40 Years



Eurovent EN13779:2007

Achieving Optimal Indoor Air Quality (IAQ)

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

JASUN ENVIROCARE PLC

Technical Bulletin 3: 2012

What is Eurovent EN13779:2007 ?

Eurovent Certification is the official European association that certifies the performance of air conditioning and refrigeration products according to European and international standards.

Filter Recommendation for Achieving Optimal IAQ (Indoor Air Quality)

EN13779:2007 is the nearest thing to an IAQ standard, with built-in recommendations for outdoor air and indoor air which can include particulate and molecular filtration.

EN13779:2007 is a new standard for ventilation and room conditioning systems in non-residential buildings. It is now an accepted legal standard across all European Union countries.

The standard sets out to achieve a comfortable and healthy IAQ in all seasons of the year - at acceptable installation and operating cost - taking outside air quality into consideration. It represents a major step forward in recognising the importance of external air quality in achieving better indoor air quality... and a healthier environment.

Categories of Outdoor Air According to EN13779:2007

According to the EN13779:2007 standard, outdoor air may be described in three categories, from ODA 1 (pure air which may be only temporarily dusty) to ODA 3 (very high concentrations of gaseous pollutants and particulate matter).

Category	Description	Location Type
ODA 1	Pure air which may be only temporarily dusty e.g. pollen	Rural areas or sparsely populated villages
ODA 2	Outdoor air with high concentrations of particulate matter and/or gaseous pollutants	Larger town with industry and polluted city center
ODA 3	Outdoor air with very high concentrations of particulate matter and/or gaseous pollutants.	Larger town with industry and polluted city center

The application of the classifications above will depend on the criteria that are being used, since there is currently no uniform global guideline that covers all pollutants. However, it is clear that the potential impact of mixtures of pollutants, rather than just individual pollutants, should be considered in determining the ODA classification. As a reference point, the following approach is suggested:

- **ODA 1**: applies where the WHO (1999) guidelines or any national air quality standards or regulations are fulfilled.
- **ODA 2**: applies where pollutant concentrations exceed the WHO (1999) or any national air quality standards or regulations for outdoor air by a factor up to 1.5.
- **ODA 3**: applies where pollutant concentrations exceed the WHO (1999) or any national air quality standards or regulations for outdoor air by a factor greater than 1.5.

Typical gaseous pollutants to be considered in the evaluation of ODA are carbon monoxide, carbon dioxide, sulphur dioxide, oxides of nitrogen and volatile organic compounds (VOCs).

The indoor impact of such outdoor pollutants will depend on how reactive they are.

Particulate matter refers to the total amount of solid or liquid particles in the air, from visible dust to submicron particles. Most outdoor air guidelines refer to PM10 (particulate matter with an aerodynamic diameter up to 10 μm) but there is growing acceptance that, for the purpose of health protection, greater emphasis should be placed on smaller particles.

Categories of Indoor Air According to EN13779:2007

Category	Description	CO2 Level ppm	Outside Air m³/h per Person
IDA 1	High Indoor Air Quality	<400	>54
IDA 2	Medium Indoor Air Quality	400-600	36-54
IDA 3	Moderate indoor Air Quality	600-1000	22-36
IDA 4	Low indoor Air Quality	>1000	<22

Filter Recommendations According to EN13779:2007

When the pollution level of the outdoor air is classified, EN13779:2007 recommends the right air filtration solution for the preferred indoor air quality, as summarised in the table below (definition of filter classes according to EN779:2012).

Outdoor Air Quality	IDA 1	IDA 2	IDA 3	IDA 4
ODA 1 (Pure Air)	F9	F8	F7	F5
ODA 2 (Dusty)	F7 + F9	F6 + F8	F5 + F7	F5 + F6
ODA 3 (Very high concentrations of dust and/or gases)	F7 + F9 + GF Gas Phase e.g. carbon	F7 + F8 + GF Gas Phase e.g. carbon	F5 + F7	F5 + F6

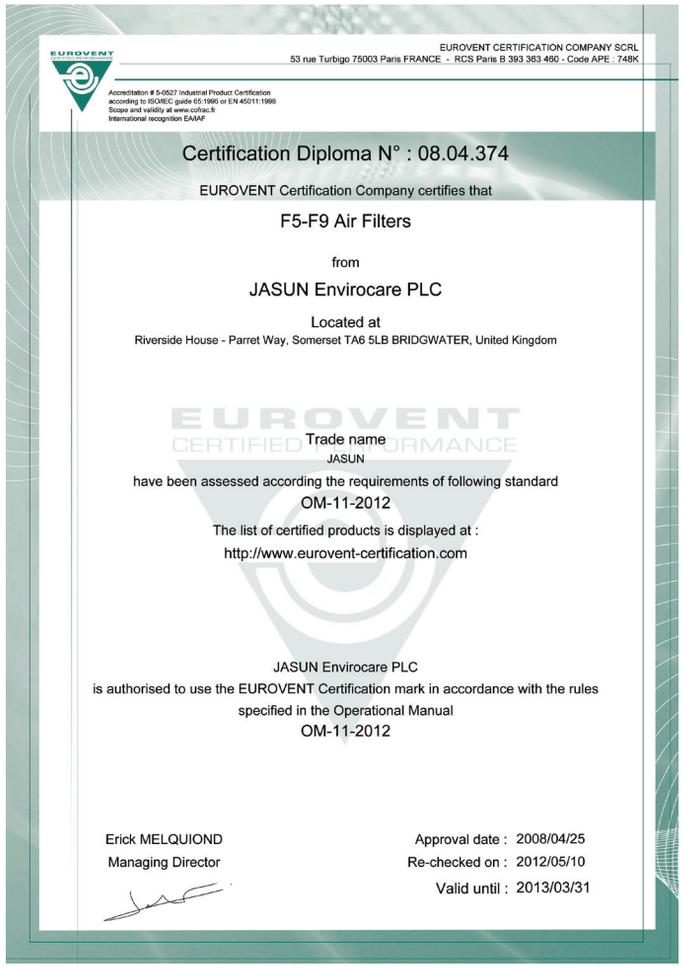
EN13779:2007 Audits

Jasun Envirocare Plc can carry out EN13779:2007 audits. We issue a certificate of compliance on sucessful completition.

For information about our Eurovent EN13779:2007 IAQ audits, please contact us on: 01278 452277

What does our Eurovent Certificate mean for our customers?

- The Eurovent Certificate that Jasun Envirocare Plc has been awarded proves that our air filters deliver on promised performance.
- Customers should be requesting a Eurovent Certificate (as shown here) as proof of compliancy or should be asking for sight of an EN779:2012 product certificate.
- Our M5 to F9 filters are compliant with the new Eurovent standard and deliver better IAQ (Indoor Air Quality) throughout filter service.
- Participants in the Eurovent Scheme must undergo stringent testing criteria, resulting in guaranteed filter performance.



EUROVENT CERTIFICATION COMPANY SCRL
53 rue Turbigo 75003 Paris FRANCE - RCS Paris B 393 383 460 - Code APE : 748K

Accreditation # 5-0527 Industrial Product Certification according to ISO/IEC guide 65:1996 or EN 45011:1998
Scope and validity at www.cofrac.fr
International recognition EAIAF

Certification Diploma N° : 08.04.374

EUROVENT Certification Company certifies that

F5-F9 Air Filters

from

JASUN Envirocare PLC

Located at

Riverside House - Parret Way, Somerset TA6 5LB BRIDGWATER, United Kingdom

Trade name

JASUN

have been assessed according the requirements of following standard

OM-11-2012

The list of certified products is displayed at :

http://www.eurovent-certification.com

JASUN Envirocare PLC

is authorised to use the EUROVENT Certification mark in accordance with the rules specified in the Operational Manual

OM-11-2012

Erick MELQUIOND
Managing Director

Approval date : 2008/04/25
Re-checked on : 2012/05/10
Valid until : 2013/03/31

Our Commitment

We recognise the need for sustainable clean air solutions that contribute to improved air quality at beneficial life cycle costs. Our ongoing commitment is to develop and manufacture air filters that are at the forefront of energy cost/filtration efficiency performance ratios.

QUALITY
ISO 9001: 2008
FM29257

ENVIRONMENTAL
ISO 14001: 2004
EMS 81914

HEALTH & SAFETY
OHSAS 18001: 2007
OHS 557342

We are accredited by BSI to ISO 9001, ISO 14001and to OHSAS 18001.

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FREE Energy Filter Audit - Contact our Service Division

Online Services - Our Energy Rated products are available online at www.jfilters.com and at www.jasunfiltration.com