



THE REPRESENTATIVE OF EUROVENT MEMBERS BASED
AND/OR ACTIVE IN THE MIDDLE EAST REGION

STATEMENT OF PRINCIPLES

EUROVENT MIDDLE EAST

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1.1 AN ISSUE GROUP WITHIN THE EUROVENT ASSOCIATION

Eurovent Middle East is a dedicated Issue Group within the Eurovent Association, representing member companies who are based in/or active in the Middle East. Its participants constitute leading manufacturers of Indoor Climate (HVAC), Process Cooling, Food Cold Chain, and Industrial Ventilation Technologies, as well as sector associations and national industry initiatives active in this field.

By thinking 'Beyond HVACR', contributing manufacturers fulfil the highest requirements in terms of product quality and sustainability. They are united in their aim to work

towards a lower energy demand, an improved food safety, and a better indoor air quality in the Middle East. Together, they employ thousands of people locally, supporting a more diversified economy throughout countries in the region.

Considering the Middle East's different ambient conditions and diversity of regulations, Eurovent Middle East aims to provide guidance, education and advise on state-of-the-art technologies to the region's HVACR industry as well as authorities, engineers, consultants, specifiers, project planners and the like.



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1.1 MISSION

The Eurovent Association is a fully service-oriented, not-for-profit organisation — admiring its members and their innovative, energy-efficient and sustainable solutions that enable a better quality of life to people across the globe. As a cross-regional association, we value and understand regional diversity, but also recognise a global environment that reinforces the need for an ever-stronger cooperation and the ability to speak with one voice based on democratic decision-making processes. Eurovent constantly encourages a level-playing field for the entire industry, ranging from many small and medium-sized enterprises to international corporations.

1.2 FAIRNESS AND TRANSPARENCY

The structure of the Eurovent Association rests upon achieving a consensus. Where this is not possible, By-Laws define democratic decision-making procedures. Eurovent represents more than 1.000 companies of all sizes spread widely across 20+ European and Middle Eastern countries, which are all treated equally.



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TECHNOLOGIES

Our members are active within one or more of the following four key technology areas:

- › Indoor Climate (HVAC),
- › Process Cooling,
- › Food Cold Chain,
- › Industrial Ventilation.

The technologies provided by our members enable a better quality of life to people around the globe. While these innovations are often taken for granted and not directly visible, it needs to be reinforced that many essential processes would not function without them. They are in fact a necessity without which our many societal achievements would not be conceivable.



Indoor Climate (HVAC)



Process Cooling



Food Cold Chain



Industrial Ventilation



CORE ISSUES

THROUGHOUT THE ACTIVITIES OF EUROVENT MIDDLE EAST, SEVERAL CORE ISSUES PREVAIL THAT RECEIVE PARTICULAR ATTENTION.

3.1 INDOOR AIR QUALITY (IAQ)



We regularly highlight the importance of ensuring a good indoor air and the central role state-of-the-art ventilation and filtration technologies play in this respect. Eurovent does so in close cooperation with REHVA as well as leading universities and research institutes from Europe and the Middle East.

Throughout the past decades, there has been a wide-ranging scientific debate on IAQ. Private and public organisations have tackled this issue through various initiatives and reports. While energy efficiency receives a strong attention of the public and policy-makers, IAQ is not yet there.

Given that people spend around 90 percent of their time indoors, we believe that this situation should be changed. This is also being supported by the following arguments — to name just a few:

- › The short, mid and long-term cost savings and health-related benefits through providing. Healthy indoor air are unneglectable and have been proven through multiple academic contributions.
- › Reducing the energy demand of a building or product saves costs on the energy side.
- › Providing a healthy indoor air results in positive impacts on, for example, human health or work performance. These effects deserve more attention in life cycle cost calculations and legislation.

- › We see ourselves confronted with a growing world population that has a longer life expectancy. The global costs for healthcare are projected to increase exponentially. Ensuring healthy indoor spaces can slow down this increase.

It is our joint aim to raise awareness on the importance of a healthy indoor air among the public and policy makers. We emphasise that #IAQmatters, which constitutes the hashtag of an awareness raising campaign our members have initiated. Eurovent Middle East and its members work towards IAQ finding its way into standards and legislation throughout the region.



3.2 ENERGY EFFICIENCY



Manufacturers within the Eurovent network set global benchmarks in the development of highly energy efficient Indoor Climate (HVAC), Process Cooling, Food Cold Chain and Industrial Ventilation technologies. They are supported by a forward-thinking framework of European and international legislation and standards, in whose development Eurovent and its members play an important and proactive role.

Accordingly, energy efficiency is and will remain one of our core issues. Throughout our activities, we support measures that, for instance,

- › Help countries to reach their energy efficiency targets,
- › Make old and new buildings more energy efficient,

- › Ensure a validity of energy efficiency levels stated by manufacturers,
- › Act as a driver for our industry to maintain the leadership in terms of energy efficiency,
- › Advocate our energy efficiency ideals internationally.

Eurovent Middle East closely follows the development and evolution of standards and legislation throughout the Middle East, which require manufacturers to decrease the energy consumption of their products by establishing minimum energy efficiency requirements.

3.2.1 ECODESIGN



Ecodesign is a forward-thinking concept implemented by the European Union. Eurovent Middle East and its members regard Ecodesign as one of the most forward-thinking approaches worldwide to increase the energy efficiency of products.

Through establishing minimum energy efficiency requirements, Ecodesign regulations require manufacturers to decrease the energy consumption of their products. By setting these requirements at an international level, manufacturers do not have to navigate through multiple national regulations when placing their products on the market. Customers are provided with an effective tool to choose the right product in a comparative manner.

3.2.2 ENERGY PERFORMANCE OF BUILDINGS



The Energy Performance of Buildings Directive (EPBD) is changing the way in which Europe looks at new buildings and renovations. It marks a key policy area of high relevance to our industry. Eurovent and its members share the ambitious goals to improve energy efficiency in the building sector, which, in the Middle East even more than Europe, accounts for a significant percentage of the total energy consumption of countries.

The EPBD, for example, requires all new buildings to be nearly zero-energy by the end of 2020. This is not an illusion, but becomes reality. It demands efforts along the entire value-chain of a building, ranging from insulation, through retrofitting

of HVACR equipment, to renewable energy sources such as solar-based cooling in Southern Europe. Essential to achieve targets is a proper enforcement of the law and market surveillance.

Eurovent Middle East members support this state-of-the-art framework and advocate its various measures such as 'Nearly zero-energy buildings' throughout the region. They do so considering the different temperature conditions and environmental characteristics of the Middle East.

3.3 MAINTENANCE AND DURABILITY



Operating state-of-the-art HVACR systems without a proper maintenance diminishes the energy efficiency and health benefits that can be gained through high quality components. It is thus of utmost importance that maintenance procedures are defined and followed by operators. Adequate training, education and certification of personnel entrusted with operating and maintaining HVACR systems is required to secure the benefits of technological advancements.

Eurovent Middle East also strongly encourages the use of high-quality components in HVACR systems. We advise specifiers to account for durability, product safety and total costs of ownership within their project specifications. The use of cheap equipment usually leads to a higher price in the mid- and long-term. Higher energy consumption, maintenance costs and the need for early replacements outtake the initial savings gained, which furthermore poses a higher risk in terms of safety.

3.4 REFRIGERANTS (F-GASES)



The reduction of emissions from fluorinated greenhouse gases (F-Gases) constitutes another major and widely debated policy area affecting our industry. At Eurovent Middle East, we see ourselves as a representative of refrigerant users. We prepare our members for upcoming realities related to the phase-down of refrigerants with a high global warming potential.

3.4.1 BACKGROUND

The low-carbon roadmap developed by the European Union sets out the strong ambition to cut greenhouse gas emissions by 2050 by 80-95% compared with the levels from 1990. The aim of the 'EU F-Gas Regulation' is to achieve the objectives by cutting the EU's F-Gases emissions to one-fifth of 2014 sales levels by 2030. This will be the main driver of the move towards more climate-friendly technologies.

3.4.2 ALTERNATIVES ARE ALREADY IN PLACE

The 'EU F-Gas Regulation' was the first of its kind and has meanwhile received a wide-ranging recognition throughout the globe. Members of Eurovent Middle East fully support this forward-thinking legislation and encourage its implementation throughout the region.

We hold that the responsible freedom of choice of refrigerants can contribute to innovation and

sustainable growth over time. Already today, Indoor Climate (HVAC), Process Cooling, Food Cold Chain, and Industrial Ventilation Technologies can make use of a wide range of available refrigerant solutions that fulfil the 2030 requirements. Eurovent holds that training and certification of persons working with refrigerants is an essential part for safe and responsible handling of refrigerants both in production plants and on-site.

3.5 ENVIRONMENTAL CHALLENGES

The world sees itself confronted with various 'environmental challenges' such as

- > Climate Change (Global Warming),
- > Emissions that contaminate the atmosphere,
- > Indoor and outdoor air pollution,
- > Food safety,
- > Water shortages.

Eurovent and its members are fully aware of these challenges. In fact, we acknowledge that our technologies, as a major consumer of energy and fluorinated gases, play an essential role in tackling them.

We do not regard this as a burden, but a motivation to further innovate while contributing to a green thinking throughout all sectors of our industry and the end-users. It thus goes without saying that our association network supports measures such as

- > The global phase-down of refrigerants with a high Global Warming Potential (GWP), a move towards low-GWP alternatives including natural refrigerants.
- > The implementation and development of credible minimum energy performance requirements such as the Ecodesign framework.

- > Legislation that incorporates credible air quality requirements.
- > Global advocacy efforts that carry on these environmental ideals in an effective manner.

For decades, Eurovent and its members have been developing codes of good practice (so-called 'Eurovent Recommendations') to meet environmental challenges. These are being regularly updated to reflect the state-of-the-art and are being used across the globe.

3.6 MARKET SURVEILLANCE

3.6.1 MARKET SURVEILLANCE IS NECESSARY

To Eurovent and its members, market surveillance constitutes a key tool to verify the coherence from what is declared by manufacturers and what is sold. Market surveillance is necessary to guarantee a level-playing field. We thus encourage a

stronger and more visible market surveillance and inspection by authorities in the Middle East, and support them in doing so.

3.6.2 ACCREDITED THIRD PARTY CERTIFICATION AND VERIFICATION

Voluntary and mandatory third-party certification and verification does

not replace market surveillance. However, Eurovent and its members hold that proven certified and verified product information can provide a support to market surveillance activities — in particular where this information can be publicly accessed and results from accredited testing processes.



4 INTERNATIONALISATION

4.1 SECURING AND EXPANDING BUSINESS

A clear majority of the more than 1.000 organisations within our network manufacture their technologies in Europe and/or the Middle East. By doing so, they create sustainable, highly-skilled jobs in important areas of the secondary and primary sector. These companies are significant contributors to national public accounts and play an important role for the development of the regions they are based in.

At Eurovent Middle East, we want to contribute to an environment that enables these manufacturers to secure and expand their business not only in their home country, but also on an international level. To ensure this, Eurovent and its members stand for a sensitively regulated market that enables manufacturers to act in a true level-playing field. Hand in hand, we work towards diminishing unfair and indirect trade barriers caused

through, for example, different interpretations of international standards on a national level, or various types of certificates required to enter certain markets.

4.2 THE IMPORTANCE OF STANDARDS

Standards are key for the internationalisation of our industry, ensuring the safety and quality of products and services, facilitating international trade and improving the environment in which we live in. The many EN and ISO standards applicable to our industry draw on international expertise and experience and are therefore a vital resource for governments when developing

public policy. ISO standards can also remove barriers to world trade by providing the technical basis on which political trade agreements can be put into practice, whether they are at the regional or international level.

As an industry, we have been and are involved in the development of hundreds of EN and ISO standards. We support the wide-spread

implementation of the latter around the globe, and strongly oppose the bi-lateral promotion of non-ISO standards as technical trade barriers. We also encourage the homogenisation of standards across the Middle East to achieve more transparency, easier implementation and higher compliance throughout the industry.

4.3 LEARNING FROM ONE ANOTHER

Our members are based in or active in the Middle East, with their own factories or distribution offices, often looking back at decades of experience in coping with high-ambient conditions. We also count regional manufacturers as members, which play an active role not only within Eurovent Middle East, but also within the Eurovent Association in Brussels. The experiences made in the Middle East are of high value to Europe and

vice-versa. Eurovent Middle East is committed to improve and further substantiate technological exchange.

Capacity building is one of the biggest challenges for the region, as the economic development constantly outgrows the number of skilled staff available. Our members do their best in training their own people. Yet, we believe that it requires a more coordinated effort of authorities and

other industry sectors to cope with future demands. Eurovent Middle East is committed to support each initiative in this area in close cooperation with partners across the region.

4.4 SUSTAINABLE DEVELOPMENT INITIATIVES

Our members in Europe look back at long-term experiences with strategies such as 'EU 2020' or 'EU 2030', which aim to help the EU achieve a more competitive, secure and sustainable energy system and to meet its long-term 2050 greenhouse gas reductions target. Measures introduced since 2009 such as the minimum energy efficiency standards for HVACR products within the so-called

Ecodesign framework, or the Energy Performance of Buildings Directive (EPBD), constitute key measures in helping to achieve these strict strategic targets.

While the EU strategies might not be one on one the same as, for example, the 2021 and 2030 strategies of Middle Eastern countries, our extensive experiences made could

help the region to achieve its targets. Each country aims to be the best, diversifying its economy while creating a sustainable future for their citizens. Eurovent Middle East and its members want to offer practical solutions to Middle East leaders that allow them to achieve exactly this without a need to reinvent the wheel.

EUROVENT CERTIFIED PERFORMANCE

MEMBERS OF EUROVENT MIDDLE EAST SUPPORT THE DISTRIBUTION AND RECOGNITION OF THE 'EUROVENT CERTIFIED PERFORMANCE' MARK IN THE MIDDLE EAST. THIS SECTION PROVIDES FUNDAMENTALS ON THIS WELL-KNOWN QUALITY MARK.

5.1 ASSOCIATION ≠ CERTIFICATION

Eurovent Middle East as part of an association does not issue any type of certification

The globally known 'Eurovent Certified Performance' mark is provided exclusively by Eurovent Certita Certification, which runs fully independently from our association activities.



5.2 THE VALUE OF ACCREDITED CERTIFICATION

Eurovent Certita Certification is EN ISO/IEC 17065:2012 accredited. As a third-party certification body, it verifies HVACR product performance data for the benefit of contractors, designers, specifiers, and manufacturers.

Businesses are generating significant benefits and added value from Eurovent Certita Certification's accredited third party certification programmes as they

- › Help to meet the requirements of regulators and compliance with standards.
- › Allow for a fair comparison of the best energy-efficient solutions.
- › Provide the knowledge, tools, and strategies to effectively set investment objectives, evaluate and select HVACR products, and manage an investment portfolio.
- › Deliver internal business improvements.



CONNECT WITH US

If you have any questions or remarks, please do not hesitate to contact the Project Secretariat of Eurovent Middle East.

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