Meeting of the Eurovent Product Group ‘European Fan Technology’ (PG-FANS)

Friday, 28 October 2022, 10:00-13:30, Sedir
1. Introduction, EUROVENTSUMMIT Open Session
Good to know

What can you expect today?
Good to know
Friday, 28 October 2022

<table>
<thead>
<tr>
<th>WHEN?</th>
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<td>11:30-12:00h</td>
<td>Coffee Break</td>
<td>Foyer (Floor 1)</td>
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<td>13:30-14:30h</td>
<td>Farewell Lunch</td>
<td>Meeting room Ladin + Foyer (Floor 1)</td>
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Thank you to our sponsors and partners

Who made the 2022 Eurovent Summit possible?
Co-organiser

- **ISKID** is the Turkish Air Conditioning and Refrigeration Manufacturers’ Association. ISKID was established in 1992 with the contributions of prominent companies in the air conditioning and refrigeration sector, to conduct work towards making the HVACR Industry development healthier and faster. Over 100 member companies are gathering under ISKID's roof to conduct activities for the development of the sector and to stay in high-quality standards. As this edition of the Eurovent Summit takes place in Turkey, the association has become co-organiser of the event, as well as organiser of a Turkish-English seminar programme.
BridgeBuilding Partner

- **UL Solutions** is a global leader in applied safety science.
- UL Solutions transforms safety, security and sustainability challenges into opportunities for customers in more than 100 countries.

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Baltimore Aircoil Company develops, manufactures and distributes evaporative cooling products, offering innovative and sustainable cooling solutions for saving water and energy in air conditioning, refrigeration and industrial process applications.
CEIS is a Spanish testing, innovation and service centre offering well-recognised testing programmes for air conditioning and heat pump appliances. This year, CEIS has become a proud supporter of the Eurovent Summit for the third time in a row.
BridgeBuilding Supporter

J2 Innovations, a subsidiary of Siemens, is a provider of control and management software for HVAC and refrigeration equipment.

J2 Innovations created FIN Framework; the next generation software platform for building automation and IoT applications in buildings.
BridgeBuilding Contributor

- **ABB** is a leading manufacturer of drives, motors and controls for HVACR applications with a global footprint, supporting the industry across the world with products and services.
Turkish HVACR Exporters Association (ISIB) is the only coordinator and exporter association in the Turkish HVACR sector. Established in 2012, ISIB works towards bringing together all the exporter companies active in the Turkish HVACR sector under one roof and increasing the export potential of the sector.
Other Sponsor

- **Boreas Technology** engages in manufacturing and sales of DC Master Adia Mechanic Cooler and CRAC/CRAH models which are specially designed for data centres as well DC Pro units, air conditioning units distinguished for their authentic design, and central air-conditioning equipment. With its know-how of more than 20 years, it offers state-of-the-art solutions for critical buildings such as hospitals, malls and hotels as well as industrial buildings and data centres in various countries in the world. As the choice of leading global brands, the company is dedicated to offering technology solutions for a sustainable world with high efficiency, customised products thanks to its R&D investments and engineering know-how.
Other Sponsor

- **FRITERM** is one of Europe’s leading manufacturers of heat exchangers, providing solutions for industrial applications throughout the EMEA region.
Other Sponsor

Systemair is a leading ventilation company with operations in 50 countries globally, manufacturing and market high-quality ventilation products.
Other Sponsor

WIKA is a global market leader in pressure, temperature and level measurement technology. Working together with our customers, we develop comprehensive solutions based on our high-quality measurement technology components, with the solutions ultimately being integrated in their business processes. We deliver 50 million quality products to over 100 countries every year. Worldwide, approximately 600 million WIKA measuring instruments are in use. WIKA employs around 10,000 people and owns over 40 subsidiaries worldwide. For the third time in a row, WIKA is proud to support the Eurovent Summit.
Exhibition Partner

Exhibition Partner

- Climatización y Refrigeración (C&R), an international exhibition in Spain in HVAC and Refrigeration, is one of the most important events which showcases the technological innovation and commitment to sustainability and energy efficiency of this industry.
Thank you to our partners
Meet them in the foyer
About this Product Group

Eurovent Product Group ‘European Fan Technology’ (PG-FANS)
About this Product Group

Product scope

• Fans for HVAC-R industry
About this Product Group

Members

• Over 90 participants from 40+ leading European manufactures, Eurovent Member Associations and Associate Members.
About this Product Group

Key tasks

• Advocacy
  • European Union legislation

• Technical
  • EN and ISO standardisation
  • Development of Eurovent standards (codes of good practice)

• Marketing
  • General promotion of the European ERC industry and their state-of-the-art approaches
Meeting Roadmap

1. Introduction, EUROVENTSUMMIT Open Session

2. - 4. Formalities

5. Update on the revision of Regulation (EU) 327/2011

6. EVIA’s System Efficiency Task Force

• Coffee Break 11:30 – 12:00

7. Sustainable Product Initiative news

8. Discussion on the future of PG-FANS

9. Update on standards and regulations

10. Upcoming agenda items

11. Announcements

12. Next meeting(s)
2.- 4. Formalities

• Competition Law Rules, Bribery and corruption, Data protection
• Attendances and introduction of participants
• Approval of the Draft Agenda
• Approval of the minutes of the last meeting
2. Attendances and introduction of participants

• Remember to sign the attendance list
3. Approval of the Draft Agenda
Draft Agenda

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4. Approval of the minutes of last meetings

PG-FANS meeting Webex on 22 April 2022
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5. Review of Regulation (EU) 327/2011 Consultation Forum in April 2022

• Additional Consultation Forum on 1 April 2022
  • To discuss draft elements of possible Fans Regulation
  • Attended by Eurovent

• Eurovent position paper of 29 April with agreed comments from PG-FANS members
5. Review of Regulation (EU) 327/2011
Follow-up Commission’s questions to the EU fan industry

- After analysing inputs from stakeholders, NGOs and Member States, the Policy Officer, Ronald Piers, asked the industry about their views on several items where stakeholder opinions diverge.

- 15 specific Commission’s questions were circulated to PG-FANS members for feedback.

- Review of received comments and discussion on the Eurovent response.

-> see PG-FAN – 2202.57
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6. EVIA’s System Efficiency Task Force Update

- EVIA’s initiative to make a proposal for a European Commission standardisation request (sReq) on a future energy efficiency standard for fans.
- Eurovent and AMCA Europe were invited to and supported the project.
- Recommendation by the European Fan Industry submitted to the European Commission.
- EVIA’s TF continues its work. Last meeting (Sept.) focused on changes to prEN 17166.
- Any ideas and needs for contribution from PG-FANS members?
Coffee break

Join us in the foyer

See you again in 30 minutes!
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7. Sustainable Product Initiative
Overview of developments. Ecodesign perspective.

Circular Economy plan (2019) and the Sustainable Product initiative

• improve product durability, upgradability and reparability,
• increase products’ energy and resource efficiency,
• reduce carbon and environmental footprints – product environmental declarations
• address presence of hazardous chemicals in products
• increasing recycled content in products
7. Sustainable Product Initiative
Overview of developments. Ecodesign perspective.

Circular Economy plan (2019)

• Many Circular Economy aspects were already addressed in existing ecodesign legislation.

• The Commission takes action to make the current ecodesign framework more effective.

Effect -> elements of circular economy implemented in ecodesign regulations (ongoing)

• New material information and resource efficiency requirements in the working documents of product-specific ecodesign regulations under review (including the VU and Fans Regulation).
7. Sustainable Product Initiative
Overview of developments. Ecodesign perspective.

Ecodesign for Sustainable Products Regulation (2022)

Proposal for a general framework to set future ecodesign requirements for specific product groups to improve their circularity, energy performance and other environmental sustainability aspects.

- product durability, reusability, upgradability and reparability
- energy and resource efficiency
- carbon and environmental footprints
- information requirements, including a Digital Product Passport
7. Sustainable Product Initiative
Overview of developments. Ecodesign perspective.

Revision of the Methodology of Ecodesign for Energy-related Products (working plan 2022-2024)

Introduce a more systematic way of covering circular economy aspects when performing preparatory or review studies on specific product groups. One of the considered issues:

- Development of the **Product Environmental Footprint (PEF)** method and related **Product Environmental Footprint Category Rules** to the MEErP
7. Sustainable Product Initiative
Overview of developments. Ecodesign perspective.

Future impact of ESPR and revised MEErP on VU Regulation

• No impact on the ongoing review of VU Regulation

• Provisions of the new ESPR and MEErP will only affect the subsequent systematic review of VU Regulation (in 6 – 8 years?)

BUT

• a new horizontal regulation(s) to implement circular economy requirements for a wide range of products subject to ecodesign may be developed sooner
7. Sustainable Product Initiative
Overview of developments. **EPBD perspective.**

**Environmental Product Declaration (EPD)**

- EPD which is an ISO type III Environmental Declaration according to ISO 14025 standard verified by an independent third-party.
- EPDs are not mandatory (but recommended) for products covered by the Construction Product Regulation (CPR).
- In the light of the current EU legislation, **EPDs do not apply to ErP products subject to Ecodesign** (including VUs).
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

HVAC manufacturers may be indirectly forced to draw up EPDs for their products due to

- Ongoing developments in many Member States related to the integration of LCA calculations in the national Building Codes.
  - French RE2020 building regulation (in force since July 2022)
  - Danish building regulation (as of next year?)
- Several voluntary schemes for assessing the sustainability and environmental performance of buildings
  - DGNB, BREEM, LEED.....
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

Issues with EPDs – no harmonised approach to energy use

- EPDs are developed based on ISO 14025 and EN 15804.
- EN 15804 gives generic Product Category Rules (PCR) for construction products (no use phase & energy consumption)
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

Issues with EPDs – no harmonised approach to energy use

• Energy use in the EPD for a VU can be included and based on a scenario or complementary product category rules defined individually by a EPD programme operator

• Complementary Product Category Rules provide guidance on preparation of EPDs for a specific product group (e.g. ventilation components)
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

Issues with EPDs – proliferation of EPD programme operators

not all of them mutually recognize EPDs issued within their systems nor **Product Category Rules**
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

Issues with EPDs – proliferation of EPD programme operators

Environmental Product Declaration
In accordance with ISO 14025 and EN 15804:2012 + A2:2019 for:

- Air handling units

Programme: The International EPD® System; www.environdec.com
Programme operator: EPD International AB

PCR review was conducted by: The Technical Committee of the International EPD® System. Chair: Claudia A. Peña. Contact via info@virondec.com
Independent third-party verification of the declaration and data, according to ISO 14025:2006:
- EPD process certification
- EPD verification
Third party verifier: Camilla Landén from Bureau Veritas Sweden
Approved by: The International EPD® System

Not mutually recognised
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

CEN proposal for a harmonisation of c-PCRs

CEN/TC 156 plenary meeting
12 May 2022

Agenda item 5.2 – Proposal for a PWI

Environmental product declarations – Product Category rules complementary to EN 15804 for ventilation components
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

Issues with EPDs – high cost

• ISO 14025 requires that an EPD must be independently verified

• In practice data are verified by a third party licensed by an EPD programme operator, and the EPD is registered in the system of the EPD programme operator

• Cost of the EPD development ranges 17.000 to 50.000+ EUR

• Annual fee for registration in EPD libraries: 1.000 - 3.000 EUR
7. Sustainable Product Initiative
Overview of developments. EPBD perspective.

Anticipated changes to the building legislation

• Construction Product Regulation (CPR) review
  • Gradually introduce mandatory environmental declarations in the construction product family

• Proposal for a revised EPBD
  • Life-cycle Global Warming Potential (GWP) is calculated for
    • all new buildings as of 2030,
    • for new buildings with floor area > 2000 m² as of 2027
7. Sustainable Product Initiative
Potential field of action for Eurovent

Proposal for a Eurovent Horizontal Task Force.
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-> to be discussed in the meeting
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15. Announcements
New PG-AHU Recommendation

In a nutshell
The purpose of this recommendation is to provide a comprehensive overview of features that determine highly efficient operation and correct service of air handling units, which in other words are a measure of the AHU quality. The document addresses a wide range of aspects, such as properties of the casing and individual components, energy efficiency and controls requirements, maintainability, and the content of technical documentation. Detailed recommendations based on the expertise and many years of experience of Eurovent members indicate what distinguishes a good air handling unit. The guidelines in this document are intended to help investors, designers and end-users to assess whether the unit meets all practical expectations and requirements.
15. Announcements
New PG-RAHU Recommendation

• Enhance the enforcement of Ecodesign and Energy Labelling requirements for bidirectional residential ventilation

• Aimed at market surveillance to presents practical tips to facilitate effective compliance monitoring
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Spring 2023 meeting

• Venue: ?
• Date: ?
End of meeting

See you soon and enjoy the rest of the EUROVENTSUMMIT!