



Association for  
Indoor Climate,  
Process Cooling,  
and Food Cold Chain  
Technologies



# EUROVENT SUMMIT ANTALYA

**25-28 OCT 2022**

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# B u i l d i n g B r i d g e s

[www.eurovent.eu](http://www.eurovent.eu)

# Meeting of the Eurovent Product Group 'Residential Air Handling Units' (PG-RAHU)

Thursday, 27 October 2022, 09:30-16:45, Hanimeli

# 1. Introduction, EUROVENTSUMMIT Open Session

# Good to know

What can you expect today?

# Good to know

## Thursday, 27 October 2022



#BuildingBridges

WHEN?	WHAT?	WHERE?
11:00-11:30h 15:30-16:00h	<b>Coffee Break</b>	Foyer (Floor 1)
12:45-13:45h	<b>Lunch Break</b> (Powered by ABB)	Meeting room Ladin + Foyer (Floor 1)
09:30-12:45h	<b>Fireside Chat:</b> Future of industry exhibitions in the post-pandemic world (Powered by ISK-SODEX)	Side Ballroom (Floor 1)
19:00h	<b>Gathering for Legends of Eurovent</b> (Powered by Baltimore Aircoil Company) <b>PLEASE BE ON TIME</b>	Hotel lobby

# Good to know

## Thursday, 27 October 2022



### **Fireside Chat: Future of industry exhibitions in the post-pandemic world (Powered by ISK-SODEX)**

- Time: 13:45-16:45h
- Location: Side ballroom (floor +1)
- Exhibition organisers, associations, manufacturers and external service providers sit around one table and discuss the future of our exhibitions. What will it be? Online? Offline? Hybrid?
- Find out more in this interactive fireside chat led by our own Markus Lattner, a true exhibition veteran and expert on cross-industry relations.

# Good to know

## Thursday, 27 October 2022



# Building Bridges

### Legends of Eurovent (Powered by Baltimore Aircoil Company)

- Starts at 19:45h
- Gathering at 19:00h in the hotel lobby, bus transport to the venue.
- In the spirit of the ongoing generation change in the Eurovent community and the entire industry, join us in honouring several industry legends for their invaluable contributions and presenting them with life-long recognition.
- Thursday night will see the true Hall of Fame of Eurovent and will be accompanied by interesting anecdotes from the history of the association.

# Thank you to our sponsors and partners

Who made the 2022 Eurovent Summit possible?



# Co-organisier



# Building Bridges



- [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-organisier of the event, as well as organisier 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.

# BridgeBuilding Supporter



- [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.

# BridgeBuilding Supporter



- 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 Siemens Company

- [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



# Building Bridges



- [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.

# BridgeBuilding Contributor



- [Turkish HVACR Exporters Association \(ISIB\)](#) is the only coordinator and exporter association in 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



 **Part of your business**

- [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



- [ISK-SODEX](#) Istanbul is an International HVAC, Refrigeration, Insulation, Pump, Valve, Fitting, Water Treatment, Fire Prevention, Pool and Solar Energy Systems Exhibition.

# 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



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### BRIDGEBUILDING PARTNER



### BRIDGEBUILDING SUPPORTERS



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### OTHER SPONSORS



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### OFFICIAL AIRLINE



# About this Product Group

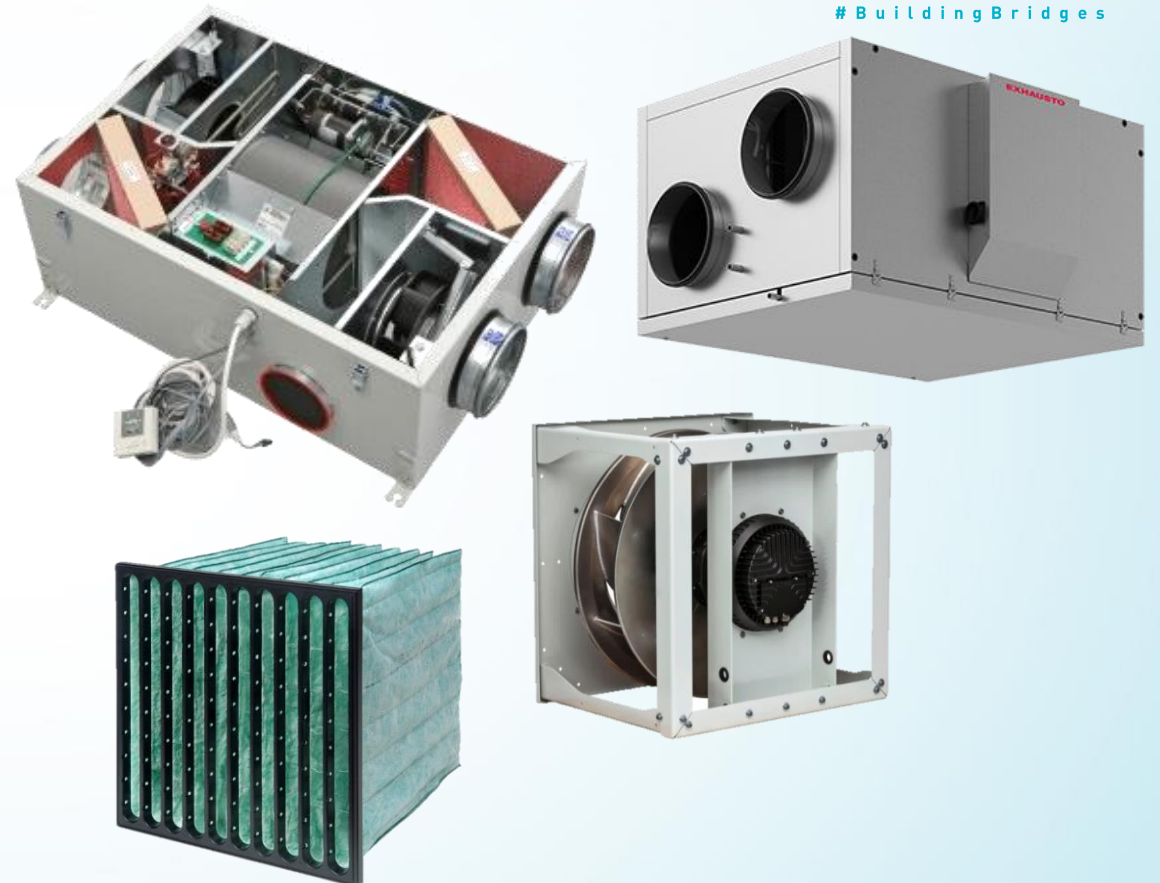
Eurovent Product Group 'Residential Air Handling Units' (PG-RAHU)



# About this Product Group

## Product scope

- Bidirectional Residential Ventilation Units
- Covering the product and its components (e.g. air filters, controls, energy recovery components, fans)





# About this Product Group

## History and basic information



# Building Bridges

- One of the most recent Eurovent Product Groups established in 2016.
- Over 150 participants from 25+ leading European RVU manufactures, 9 Eurovent Member Associations and 4 Associate Members.
- Chaired by Mr Xavier Boulanger (Alde) and Mr Jaroslav Chlup (2VV).

# About this Product Group

## Key tasks



- **Advocacy**

- European Union legislation (specifically Ecodesign, Energy Labeling, EPBD)

- **Technical**

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

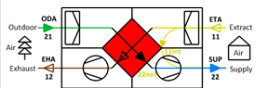
- **Marketing**

- General promotion of the European RAHU industry and their state-of-the-art approaches

# About this Product Group

## Some of the recent activities

- Comments and positions to CEN on the development and revision of RVU-related standards

Template for comments and secretariat observations					
Date: 23.11.2018		Document: N 987		Project: prEN 13142	
MB/ NC <sup>1</sup>	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment <sup>2</sup>	Comments
Euro vent		5.1.4	Table 2	te	<p>In Table 2 there is Temperature ratio correction by Internal leakage <math>w</math> same for non-ducted and ducted units for internal leakages <math>w &gt; 2\%</math> defined as <math>\eta_1 = \eta_0 \times (1 - 0.7 \times (w - 0.02))</math></p> <p>This formula is unclear to understand where it came from.</p> <p>Better technical approach based on physics is available. Based on mixing of net supply flow going directly from heat recovery exchanger with extract leakage flow results in mixed flow measured on supply duct.</p>  <p>Measured thermal efficiency on supply:  <math>\eta_0 = (t_{22} - t_{21}) / (t_{11} - t_{21}) \cdot (q_{m22} \approx q_{m11})</math></p> <p>Internal leakage: <math>q_{m11int} = w \cdot q_{m22}</math></p> <p>Mixing on supply:  <math>t_{22} \cdot q_{m22} = t_{22net} \cdot (q_{m22} - q_{m11int}) + t_{11} \cdot q_{m11int}</math></p> <p>Net supply temperature:  <math>t_{22net} = (t_{22} \cdot q_{m22} - t_{11} \cdot q_{m11int}) / (q_{m22} - q_{m11int})</math></p> <p>Net supply temperature:  <math>y = (t_{22} \cdot q_{m22} + t_{11} \cdot w \cdot q_{m22}) / (q_{m22} - w \cdot q_{m22}) = (t_{22} + t_{11} \cdot w) / (1 - w)</math></p> <p>Mixed supply temperature: <math>t_{22} = \eta_0 \cdot (t_{11} - t_{21}) + t_{21}</math></p> <p>Corrected thermal efficiency:  <math>\eta_1 = (t_{22net} - t_{21}) / (t_{11} - t_{21}) = (t_{22} - t_{11} \cdot w) / (1 - w) - t_{21} / (t_{11} - t_{21}) = ((\eta_0 \cdot (t_{11} - t_{21}) + t_{21}) - t_{11} \cdot w) / (1 - w) - t_{21} / (t_{11} - t_{21}) = (\eta_0 \cdot (t_{11} - t_{21}) + t_{21} - t_{11} \cdot w - t_{21}) / (1 - w) = (\eta_0 \cdot (t_{11} - t_{21}) - t_{11} \cdot w) / (1 - w)</math></p>

Template for comments and secretariat observations					
Date: 23.11.2018		Document: N 985		Project: prEN 13141-7	
MB/ NC <sup>1</sup>	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment <sup>2</sup>	Comments
Euro vent		7.2.1	Leakages	te	<p>In chapter 7.2.1 there is described how to test leakages for different technologies, category I and II with different methods.</p> <p>The different methods are not comparable and it also seems to be very uneven limits between the technologies.</p> <p>Following will give a proposal to how the same method can be used for all types.</p> <p><b>Motivation:</b></p> <p>1. EU No 1253/2014 does not distinguish between the different exchanger types. It says you can use pressure test or tracer gas or even calculate. However when we (producers) report leakages according to No 1253/2014 we report a percentage and the customer does not understand the difference between % from pressure or % from tracer gas.</p> <p>2. The standards EN 13142 use correction of temperature ratio from % leakage that is not consistent.</p> <p>3. The limits to be classified or not classified should be set in an equal way if not the aim is to squeeze one technology out. Measurements with tracer gas and pressure test for same unit can show that limits for method B and C are set much more strict than method A.</p> <p>Method B and C are not consistent either because you can pass method B but not method C (not due to external leakages that in C has a limit of 3% but due to internal leakages, carry-over only is normally above C3 limit of 4%).</p> <p>4. The tracer gas method are complicated and expensive and suitable for lab environment only. This is also a hinder between the different technologies. In addition the limits are not set fair.</p>

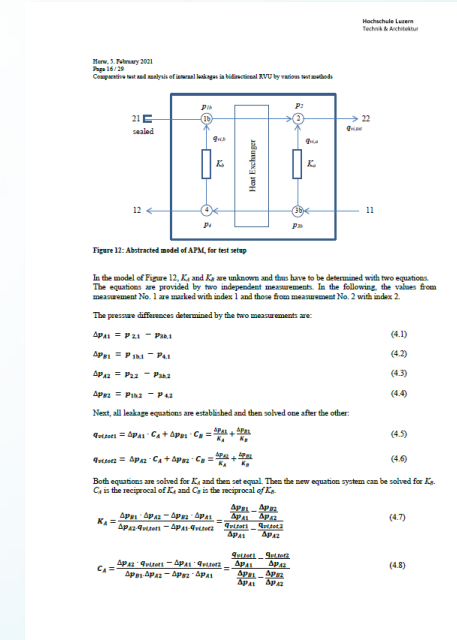
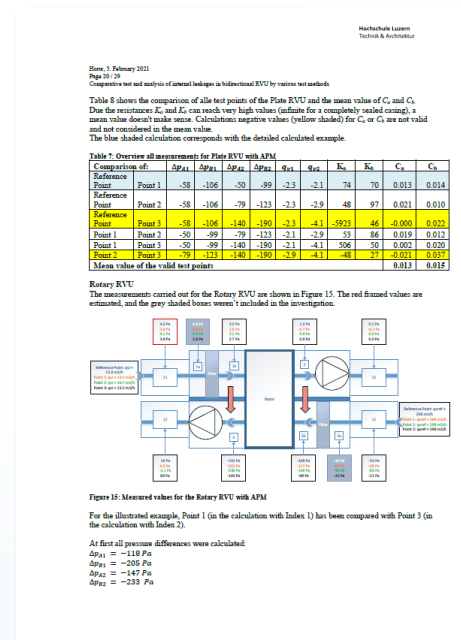
## About this Product Group

### Some of the recent activities (cont.)

- Research study on internal leakage and new testing method in cooperation with Hochschule Luzern



## # Building Bridges



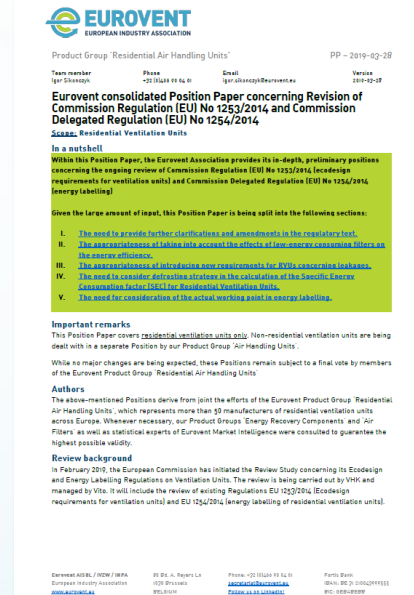
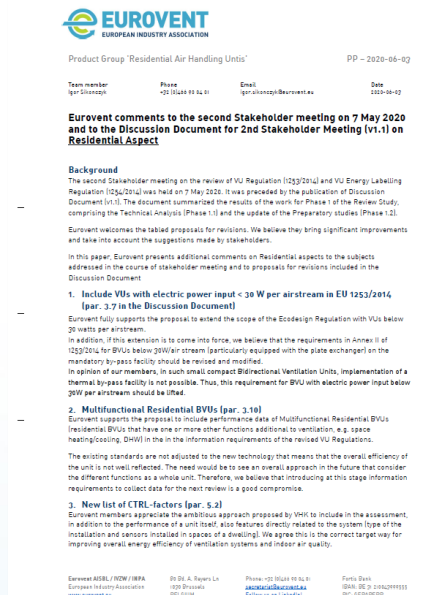
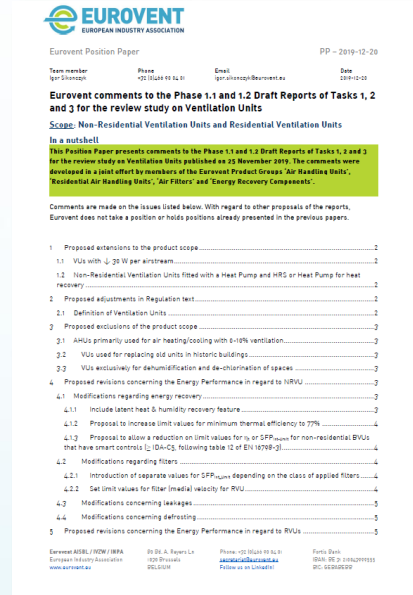
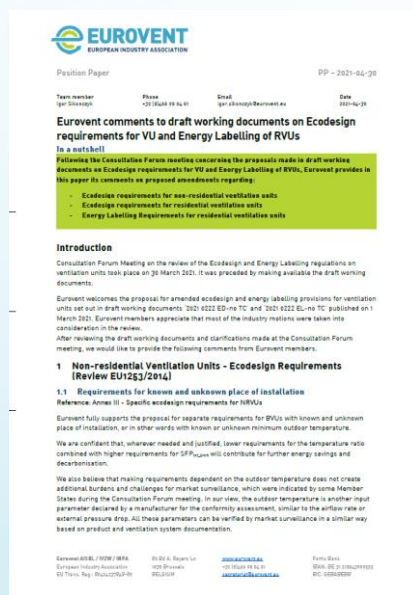
# About this Product Group

## Some of the recent activities (cont.)

- Comprehensive position papers to the European Commission on the review of Regulations (EU) 1253/2014 and 1254/2014



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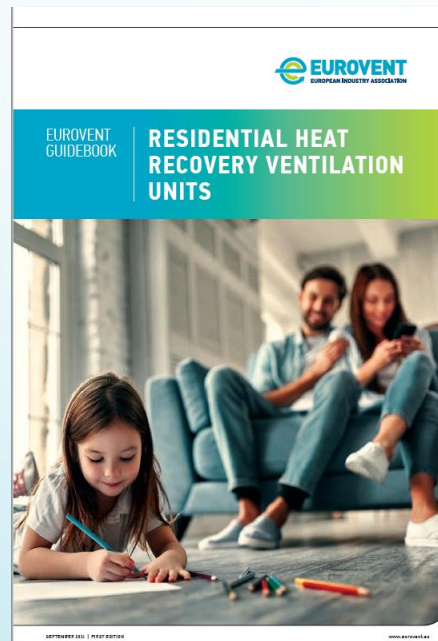
# About this Product Group

## Some of the recent activities (cont.)

- Guidebook on residential heat recovery ventilation in cooperation with REHVA



# BuildingBridges



# Meeting Roadmap



1. Introduction, EUROVENTSUMMIT Open Session
- 2. - 4. Formalities**
5. EPDs, Circular Economy, Sustainability
6. Presentation by the Eurovent Commission Chairman
7. RAHU guidance document for MSA
8. Guest presentation by UL Solution Brexit – updates and next steps
9. Material information and resources efficiency requirements
10. Potential inclusion of UVUs into PG-RAHU
11. 'Air as Food' FB campaign - draft visual concept
12. Update on standards and regulations
13. Upcoming agenda items
14. Announcements
15. 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



# Building Bridges

1. Introduction, EUROVENTSUMMIT Open Session
2. - 4. Formalities
5. EPDs, Circular Economy, Sustainability  

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Coffee 11:00-11:30
6. Presentation by the Eurovent Commission Chairman
7. RAHU guidance document for MSA  

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Lunch 12:45-13:45
8. Guest presentation by UL Solution Brexit – updates and next steps
9. Material information and resources efficiency requirements
10. Potential inclusion of UVUs into PG-RAHU
11. 'Air as Food' FB campaign - draft visual concept  

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Coffee 15:30-16:00
12. Update on standards and regulations
13. Upcoming agenda items
14. Announcements
15. Next meeting(s)

## 4. Approval of the minutes of last meetings

**PG-RAHU meeting  
in Milan  
27 June 2022**

### Action items

Action	Agenda item N°	Deadline	Responsible	Status
Draft a position paper with comments on EPREL to the Commission	6.1	ASAP	Secretariat	Completed
Arrange a separate meeting to discuss a position on the material / resource efficiency requirements in the reviewed VU Regulation	8.2	ASAP	Secretariat	Completed
Arrange a separate meeting to complete review of the MSA guidance document	9.2	ASAP	Secretariat	Completed
Arrange a horizontal meeting on future Eurovent actions regarding EPDs	10	ASAP	Secretariat	Completed

## 4. Approval of the minutes of last meetings

**PG-RAHU meeting  
WebEx  
14 September 2022**

### Action items

Action	Agenda item N°	Deadline	Responsible	Status
Review the updated draft MSA guidance document ( <a href="#">PG-RAHU – 2203.52</a> ) and provide your any comments.	5	Friday, 07 October 2022	Members	Completed
Share the updated draft MSA guidance document draft with EVIA	5	ASAP	Secretariat	Completed
Circulate draft PG-AHU position on material/resource efficiency requirements once available	6	ASAP	Secretariat	Completed

# Meeting Roadmap



# Building Bridges

1. Introduction, EUROVENTSUMMIT Open Session
2. - 4. Formalities
5. **EPDs, Circular Economy, Sustainability**  

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Coffee 11:00-11:30
6. Presentation by the Eurovent Commission Chairman
7. RAHU guidance document for MSA  

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Lunch 12:45-13:45
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Coffee 15:30-16:00
12. Update on standards and regulations
13. Upcoming agenda items
14. Announcements
15. Next meeting(s)

# 5. EPD, Circular Economy, Sustainability

## Potential field of action for Eurovent



## Proposal for a Horizontal Task Force.

### Talk with

- **Mr Lennart Østergaard (Eurovent Commission Chairman)**
- **Mr Christian Nicolaisen (Danish Technological Institute)**

## 5. EPD, Circular Economy, Sustainability 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



# 5. EPD, Circular Economy, Sustainability

## 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).

# 5. EPD, Circular Economy, Sustainability

## 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**

# 5. EPD, Circular Economy, Sustainability

## 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

# 5. EPD, Circular Economy, Sustainability

## 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

# 5. EPD, Circular Economy, Sustainability

## Overview of developments. EPBD perspective.



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### 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).

# 5. EPD, Circular Economy, Sustainability

## Overview of developments. EPBD perspective.



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### **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.....



# 5. EPD, Circular Economy, Sustainability

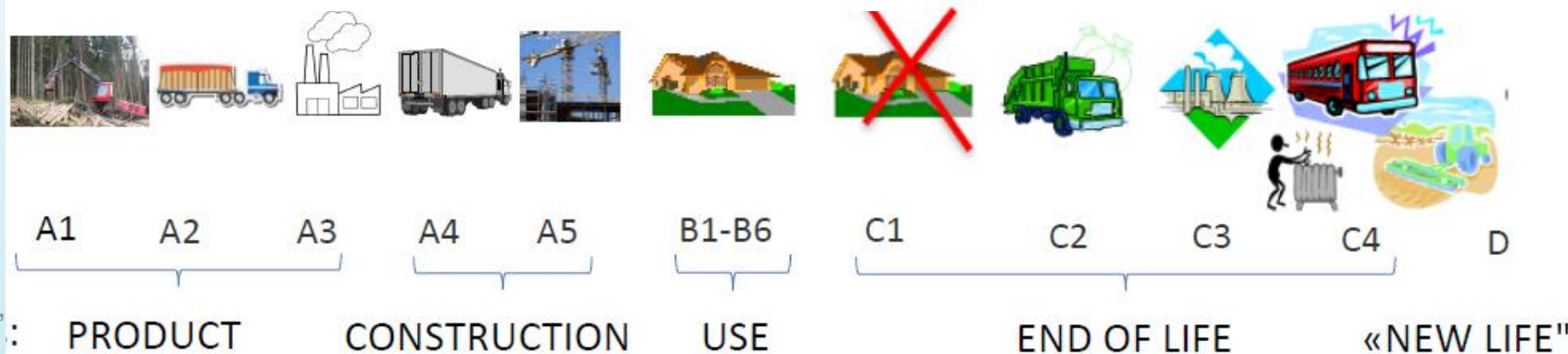
## Overview of developments. EPBD perspective.



### 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)

### Life cycle assessment (LCA)



# 5. EPD, Circular Economy, Sustainability

## Overview of developments. EPBD perspective.



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### 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)

# 5. EPD, Circular Economy, Sustainability Overview of developments. EPBD perspective.



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## Issues with EPDs – proliferation of EPD programme operators

<p>Established ECD EPD PO</p> <p><b>AENOR</b></p> <p>AENOR</p> <p>www.aenor.com</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>Alliance HOE</b></p> <p>Alliance HOE / GBC</p> <p>www.hoe.com</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>Bau-EPD</b></p> <p>Bau-EPD GmbH</p> <p>www.bau-epd.de</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>bre</b></p> <p>BRE Global Ltd</p> <p>www.bre.com</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 30 employees)</p> <p><b>Ecochain</b></p> <p>EcoChain Technologies B.V.</p> <p>www.ecochain.com</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>EPD®</b></p> <p>THE INTERNATIONAL EPD SYSTEM</p> <p>EPD International AB</p> <p>www.epd.com</p> <p>Founding member</p>	<p>Product Manufacturers or Associations representing various</p> <p><b>eurima</b></p> <p>EURIMA – European Insulation Manufacturers Association</p> <p>www.eurima.org</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>IBU</b></p> <p>IBU – Institut Bauen und Umwelt e.V.</p> <p>www.ibu.com</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>MRPI</b></p> <p>Stichting MRPI</p> <p>www.mrpi.nl</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>epd-norge</b></p> <p>The Norwegian EPD Foundation (EPD-norge), legal entity NERINGSUTVETS STIFTELSE FOR MILJØDEKLARASJONER</p> <p>www.epd-norge.no</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>ICMQ</b></p> <p>ICMQ S.p.A.</p> <p>www.icmq.it</p> <p>Founding member</p>	<p>Product Manufacturers or Associations representing various</p> <p><b>Cerame-Unie aisi</b></p> <p>Cerame-Unie aisi</p> <p>www.cerameunie.it</p> <p>Founding member</p>	<p>Other Stakeholders</p> <p><b>EcoQuestor</b></p> <p>EcoQuestor (trade mark of Cooperativa Bioimprovemente U.A.)</p> <p>www.ecoquestor.it</p> <p>since 2016</p>	<p>Sustainability Initiatives or Green Building Rating Schemes</p> <p><b>Green Building Council Italia</b></p> <p>Green Building Council Italia</p> <p>www.gbci.it</p> <p>since 2016</p>	<p>Established ECD EPD PO</p> <p><b>RAKENNUSIETO</b></p> <p>Building Information Ltd</p> <p>www.rakennusieto.fi</p> <p>since 2017</p>	<p>Established ECD EPD PO</p> <p><b>IGBC</b></p> <p>Irish Green Building Council</p> <p>www.igbc.ie</p> <p>since 2017</p>
<p>Established ECD EPD PO</p> <p><b>CAATEB</b></p> <p>CAATEB – Col·legi d'Arquitectes, Arquitectes Tècnics i Enginyers d'Edificació de Barcelona</p> <p>www.caateb.com</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>centroHabitat</b></p> <p>Centro Habitat - Associação Plataforma para a Construção Sustentável</p> <p>www.centrohabitat.pt</p> <p>Founding member</p>	<p>Product Manufacturers or Associations representing various</p> <p><b>CONSTRUCTION PRODUCTS EUROPE AISBL</b></p> <p>Construction Products Europe AISBL</p> <p>www.constructionproducts.eu</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>DANISH TECHNOLOGICAL INSTITUTE</b></p> <p>Danish Technological Institute</p> <p>www.dti.dk</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>ITB</b></p> <p>ITB – Instytut Techniki Budowlanej</p> <p>www.itb.pl</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 30 employees)</p> <p><b>Office for ecological studies</b></p> <p>Office for ecological studies</p> <p>www.ofs.no</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>ZAG</b></p> <p>SLOVENIAN NATIONAL BUILDING AND CIVIL ENGINEERING INSTITUTE</p> <p>www.zag.si</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 30 employees)</p> <p><b>sphera</b></p> <p>Sphera Solutions GmbH</p> <p>www.sphera.com</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 30 employees)</p> <p><b>metlime</b></p> <p>Metlime Sustainability Consulting</p> <p>www.metlime.com</p> <p>Founding member</p>	<p>Product Manufacturers or Associations representing various</p> <p><b>EPPA</b></p> <p>EPPA – European PVC Window Profile and Related Building Products Association EPPA Iziv</p> <p>www.eppa.eu</p> <p>since 2014</p>	<p>LCA Practitioners &amp; Tool Providers (up to 30 employees)</p> <p><b>FORCE</b></p> <p>FORCE Technology</p> <p>www.force-technology.com</p> <p>since 2014</p>	<p>Established ECD EPD PO</p> <p><b>SÜGS</b></p> <p>SÜGS – Schweizerischer Überwachungsverband für Gesteinsbaustoffe</p> <p>www.sugs.ch</p> <p>since 2016</p>	<p>Established ECD EPD PO</p> <p><b>Association P.E.R.</b></p> <p>Association P.E.R.</p> <p>www.per-association.org</p> <p>since 2017</p>	<p>Other Stakeholders</p> <p><b>SURATAM</b></p> <p>SURATAM (EPD Turkey)</p> <p>www.suratam.org</p> <p>since 2018</p>	<p>Emerging ECD EPD PO</p> <p><b>kiwa</b></p> <p>Ecobility Experts – Kiwa GmbH</p> <p>www.kiwa.com</p> <p>since 2018</p>	<p>LCA Practitioners &amp; Tool Providers (up to 30 employees)</p> <p><b>ConstructionLCA</b></p> <p>ConstructionLCA Limited</p> <p>www.constructionlca.co.uk</p> <p>since 2018</p>

not all of them mutually recognize EPDs issued within their systems nor Product Category Rules

# 5. EPD, Circular Economy, Sustainability

## Overview of developments. EPBD perspective.



### Issues with EPDs – proliferation of EPD programme operators



uniclima@uniclima.fr  
www.uniclima.fr



contact@pep-ecopassport.org

### Joint Product Environmental Profile

Bidirectional ventilation unit for dwelling  
with filters

For use in France

Registration N°: UNIC-00009-V01.01-EN	Drafting rules: « PEP-PCR-ed3-EN-2015 04 02 » supplemented by « PSR-0008-ed2.0-EN-2018 02 09 »
Verifier accreditation N°: VH08	Information and reference documents: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 07-2018	Validity period : 5 years
<b>Independent verification of the declaration and data, in compliance with ISO 14025:2010</b> Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by P. Osset (SOLINEN)	
PEP are compliant with XP C08-100-1:2016	
The elements of the present PEP cannot be compared with elements from another program.	



## Environmental Product Declaration

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

air handling units

Programme:	The International EPD® System, <a href="http://www.environdec.com">www.environdec.com</a>
Programme operator:	EPD International AB

Product category rules (PCR): PCR 2019:14 Construction products. Version 1.11, date 2021-05-02.

PCR review was conducted by: The Technical Committee of the International EPD® System. Chair: Claudia A. Peña.  
Contact via [info@environdec.com](mailto:info@environdec.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

Meeting of FG RAHL

# Not mutually recognised

# 5. EPD, Circular Economy, Sustainability

## 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**



# 5. EPD, Circular Economy, Sustainability

## 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



# 5. EPD, Circular Economy, Sustainability

## 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 m<sup>2</sup> as of 2027

# 5. EPD, Circular Economy, Sustainability

## Tentative questions to address



1. Will HVAC-R products subject to ecodesign be expected to have an EPDs for the purpose of the EPBD life-cycle global warming potential assessment?
  - Due to national requirements of individual Member States?
  - Because of market demands and competition?
  - Alternatively, will default LCA input data become a standard in EPBD calculations?

# 5. EPD, Circular Economy, Sustainability

## Tentative questions to address



2. Will the prospective Product Environmental Footprint (PEF) declarations and Product Environmental Footprint Category Rules (PEFCRs) stemming from the ESPR and revised MEERp be compliant with the current EPDs and PCRs?

*(To avoid a double burden for manufacturers to produce two separate environmental declarations or two separate inputs for LCA assessment under the EPBD and Ecodesign)*

# 5. EPD, Circular Economy, Sustainability

## Tentative questions to address



# Building Bridges

3. What can be done to harmonise EPDs issued by various EPD programme operators, make them mutually recognised across all EU Member States and reduce their costs?
  - Extend the scope of a proposal for CEN Preliminary Work Item (PWI) to 'Product Category rules complementary to EN 15804 for ventilation components **and ecodesign HVAC-R units/products**'?
  - Develop a common industry average EPD for NRVU/RVUs?

# Coffee break

Join us in the foyer

**See you again in 30 minutes!**

# Meeting Roadmap



1. Introduction, EUROVENTSUMMIT Open Session
2. - 4. Formalities
5. EPDs, Circular Economy, Sustainability  

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**Coffee 11:00-11:30**
6. **Presentation by the Eurovent Commission Chairman**
7. RAHU guidance document for MSA  

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12. Update on standards and regulations
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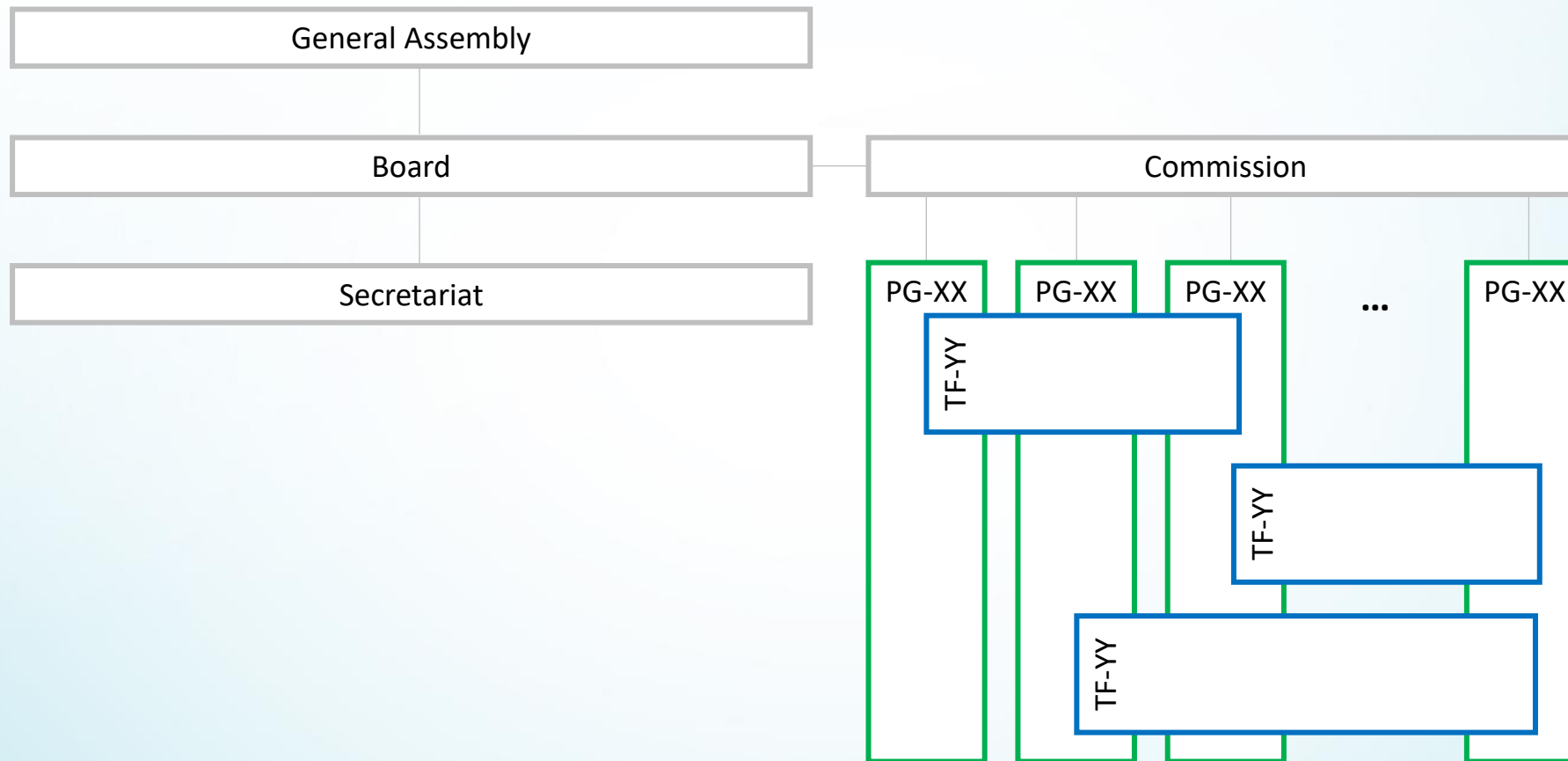
## **5. Presentation by Mr Lennart Østergaard (VELTEK)**

Implementation of statutes in the Eurovent Commissions and its impact on work with horizontal issues in Eurovent Product Groups

# **EUROVENT Commission**

Lennart Østergaard

# The role of the Eurovent Commission



# Our object is settled in our statutes

## Article 23 – Object

1. The object of the Commission is to proactively monitor and where appropriate take positions on behalf of the Association on technical and regulatory affairs of relevance to the Association.
2. The Commission shall coordinate and mediate between the Product Group(s), or any other committee, working group, task force, or project team, and ensure coherence in the monitoring and position-taking of the Association.
3. The Commission serves as a forum for exchange of information and cooperation between Member Associations.
4. The Commission may develop proposals addressed to the Board, to the General Assembly, to the Product Group(s) and to the Secretary General.



# Four important key areas



# The four key areas align well with input from member associations

What is our vision?

Presentations of national associations

Need an overview of PG, TF, issue groups – all EA activities

Roll-call – get input from associations

We need to address the public

More focus on horizontal issues

More information on national developments

Need strategy on IAQ, energy and sustainability

We need to do *our* homework and contribute more

Exchange information at a higher frequency

Better communication from/to board

Do we have the right number of Product Groups?

Too much time wasted on governance and finance

Research to foster awareness?

We need a broad voice on IAQ





# Monitor and take positions

## Monitor

- Produce overview of horizontal issues
- Present summary and updates at COM meetings
- Purpose: Enable COM members to understand issues and contribute
- EA Staff responsible

## Active participation by associations

- Contribute to monitoring from a national perspective
- Respond to monitoring requests from EA
- Participate in discussions in the Commission
- Contribute to Position papers

## Develop positions

- Develop position papers
- Discuss and approve in COM
- EA Staff responsible

## Push the change

- National associations distribute position papers (or their messages) locally/nationally
- Contact local authorities – get help/input from EA Staff
- Inform and engage local members and stakeholders
- EA Staff handle communication and influencing on EU level

# Coordinate and mediate

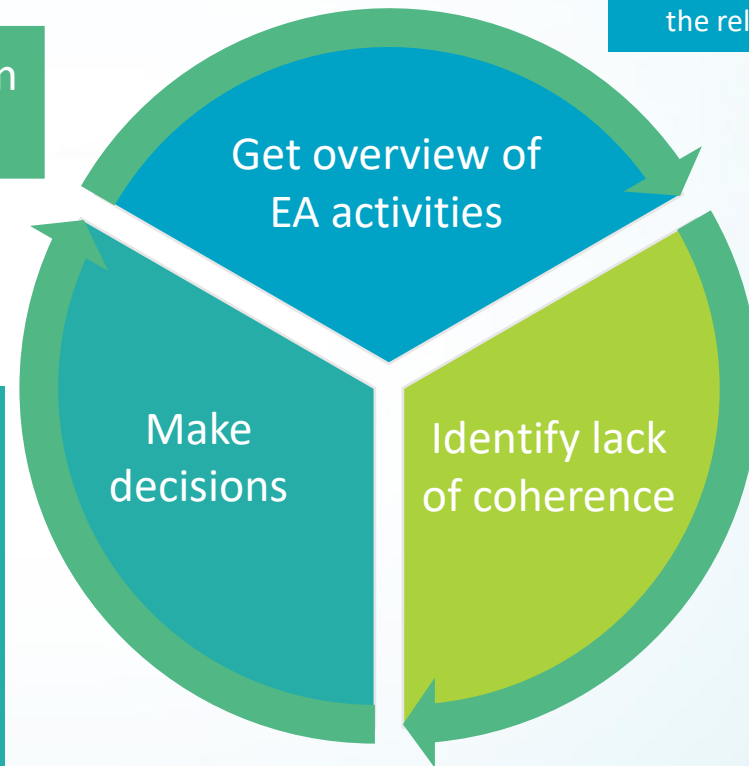


## Take charge on horizontal issues

- EA COM is the owner of horizontal technical and regulatory issues
- These issues are as such coordinated and mediated directly in and by the COM
- EA COM may delegate horizontal issues but maintain the ownership and final approval unless otherwise decided. The COM may also delegate by appointing members of the COM to the relevant group
- Important to communicate to PG's and other EA groups and activities

## Establish procedure on other types of issues

- COM should discuss and mediate acceptable solutions
- Assistance from EA Staff is important
- COM is accountable for the decisions
- COM may decide NOT to intervene in disagreements



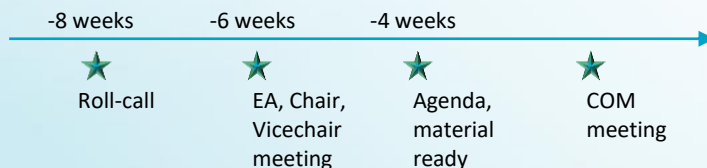
- Develop dashboard with overview of activities in PGs, TFs etc.
- Update ahead of COM meetings
- Prepared by EA Staff and/or chairpersons of the relevant PGs, TFs etc.

- Lack of coherence and disagreements etc. are identified by EA Staff
- Proposals for handling issues are developed and presented for COM

# Exchange information


## Development of COM agenda

- A call for input to the agenda will be made to all associations
- Certain topics will in principle always be on our agenda
- The final agenda is determined in a meeting between EA Staff, Chair and Vicechair



## Principal COM Agenda

1. Governance, administration, mandatory items etc.
2. Update from EA Board
3. Country reports, national developments, positions
4. Horizontal topics
5. Product Groups and Task Forces
6. Initiatives
7. Miscellaneous

 Exchange information

 Monitor and take positions  
 Coordinate and mediate

 Develop initiatives

## Information sharing - at a higher frequency

- All member associations have expressed their interest in learning about developments at national level in other member countries
- We should prepare country reports, insight on national developments and share positions
- Important to listen to all voices in the COM meetings
- Our goal should be to share information at a higher frequency

## Update from EA Board

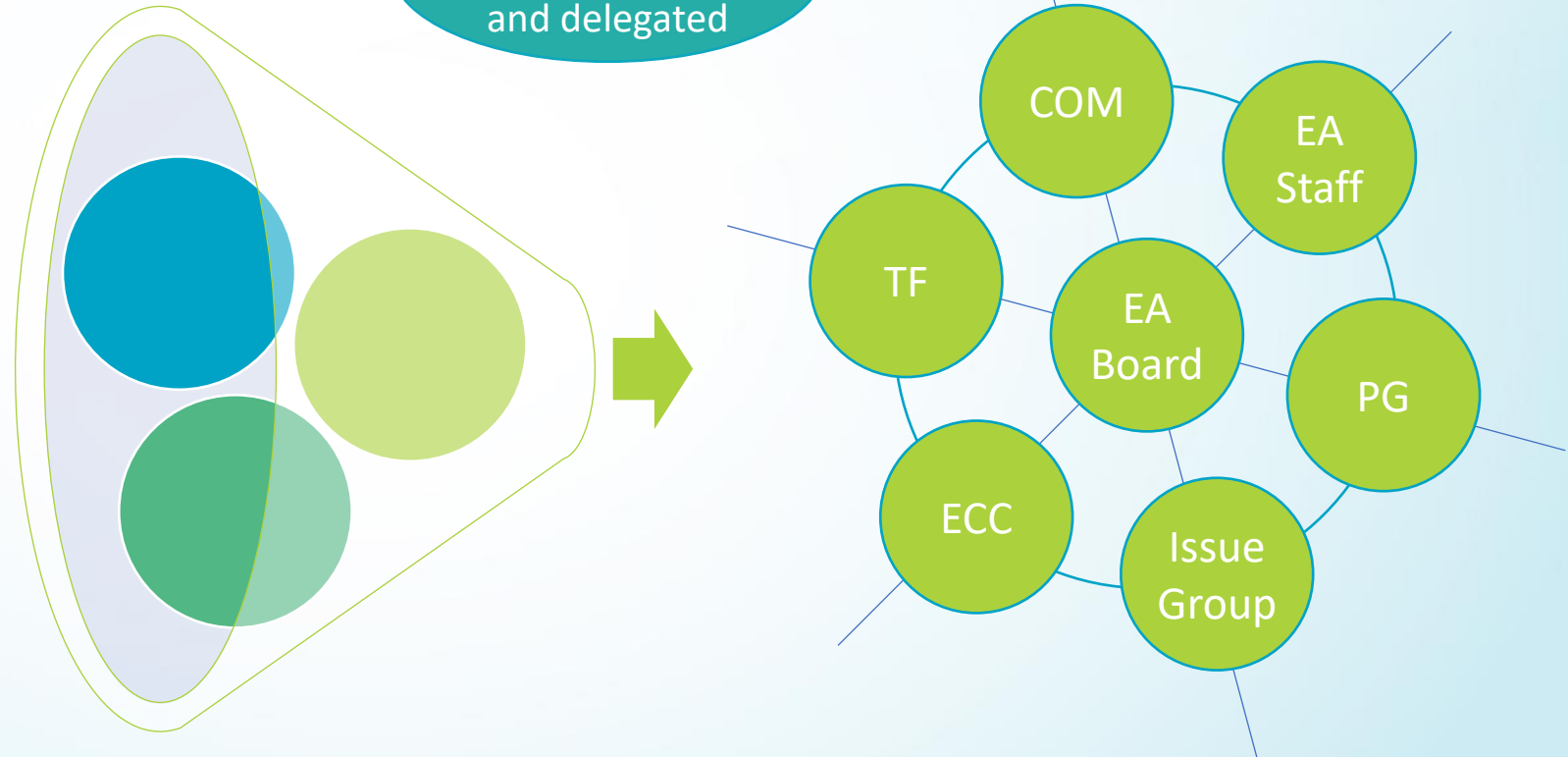
- An update on EA Board issues will be prepared for each COM meeting
- Member associations are encouraged to share their views; to be communicated to the Board by Chair and Vicechair

# Develop initiatives

There are many possible initiatives for COM to discuss

- Sustainability, initiative on Environmental Product Declarations, standards, reduction on costs and mutual acceptance of documentation
- IAQ awareness in the public - benefits of good IAQ, SoMe activities, air-as-food campaign
- Promote IAQ sensors throughout the building stock (IAQ awareness, remote monitoring/service concepts, open and cloud based platforms)
- Information gathering – e.g. what is European status on IAQ in schools?
- Research initiatives (in collaboration with partners)
- Develop our vision?
- Input from member associations

Ideas will need to be prioritized and delegated



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# 7. RAHU guidance document for MSA

## Review final draft and next steps for dissemination



- Final draft including comments received by 7 October
- > **PG-RAHU – 2204.71**
- Decision on publication ?
- Measures for effective dissemination to achieve the expected impact
  - Submission to the European Commission?
  - Translation into national languages?
  - Direct submission to the market surveillance authorities of the Member States?



# Lunch break

Join us in the meeting room Ladin (floor +1) & foyer

**See you again in 1 hour!**

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# Building Bridges

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## 9. Material information and resource efficiency

### Position paper on requirements in the revised VU Regulation

- Development of a position paper on material information and resource efficiency for RVUs in the revised VU Regulation
  - Considering the proposals of PG-AHU members
- > **PG-RAHU – 2204.91**

# Meeting Roadmap



# Building Bridges

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# **11. 'Air as Food' Facebook campaign**

## **Reminder of concept and objectives**

### **Open project initiated by PG-FIL members**

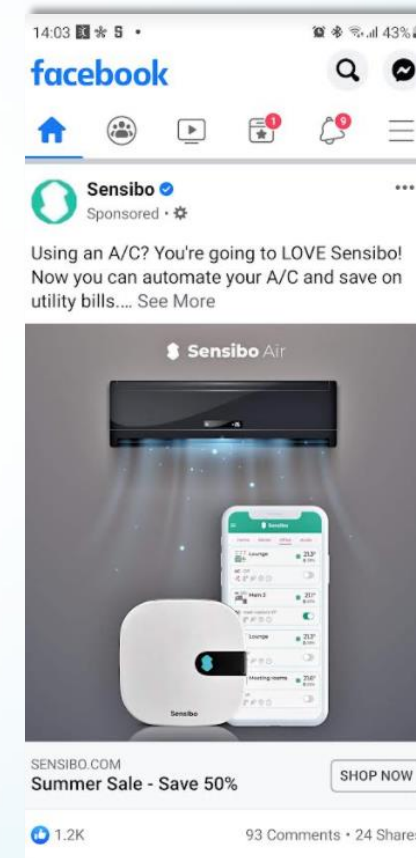
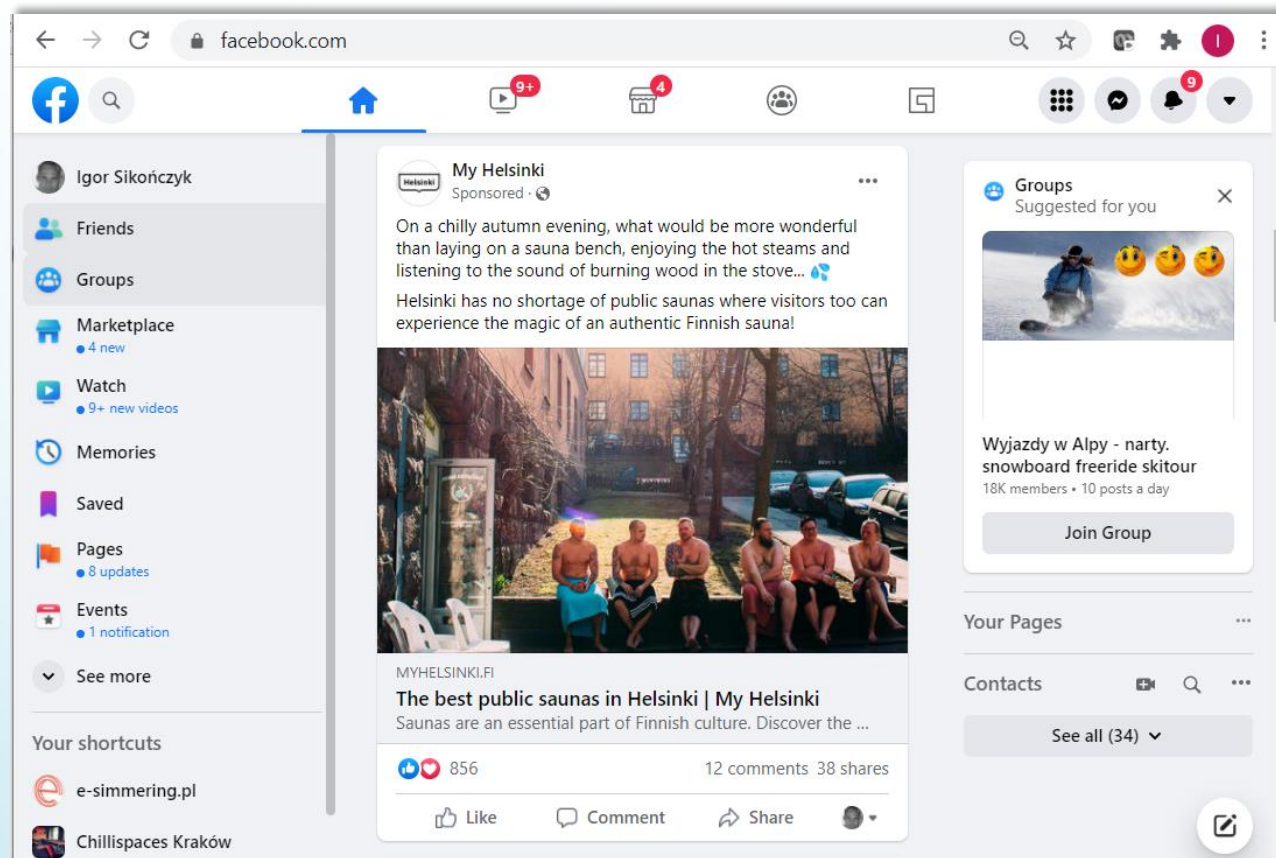
- Raise public awareness of the importance of IAQ
- Strengthen bottom-up demand for IAQ of the aware market

### **PG-FIL developed communications related to filtration**

**Other PGs are welcome to joint the project and develop communications for their field of applications/products**

# 11. 'Air as Food' Facebook campaign

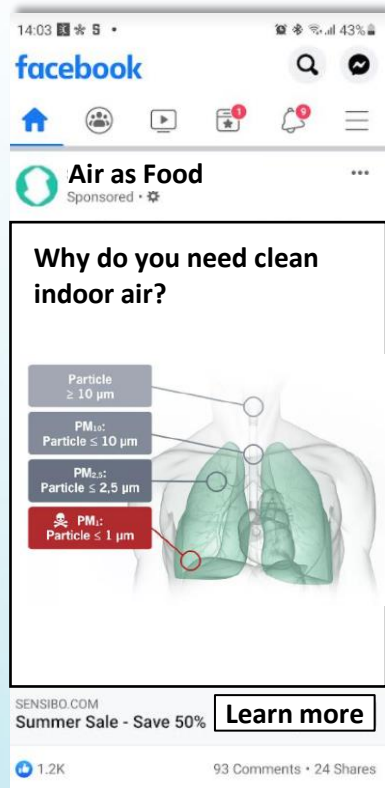
## Paid Facebook campaign – how does it work?



# 11. 'Air as Food' Facebook campaign

## How will our campaign look like?

Slogan 1 ...



... Slogan 6



Landing page – existing IAQmatters (to be updated)



click to campaign page

Just a concept picture



# 11. 'Air as Food' Facebook campaign

## Draft visual concept – First article



We spend 90% of our time indoors, and it's time to make clean, healthy indoor air part of your daily nutritional considerations.

Learn why air is integral to healthy living.



### Clean indoor air is healthy living

Clean air is a part of healthy living. Conversations on clean air need to be part of daily life because the air we breathe has as much impact on our health, productivity, and well-being as the food we eat. We spend 90% of our time indoors, and it's time to make clean, healthy air part of your daily nutritional considerations.

Traditionally, when we speak about healthy life, we mainly address two subjects; healthy food and physical activity.

The COVID-19 pandemic has also added **clean air** to this discussion. In houses, apartment buildings, kindergartens, schools, eldercares, offices, shops, fitness centres, etc. we want to have **clean air**.

We spend 90% of our time indoors, and we will not accept poor air quality. **Clean air** is a part of healthy living.

The discussion about **clean air** is no longer just a discussion about the work environment in factories. It has been added to the healthy living agenda.

During the day, we inhale 8.640-12.960 litres of air, and we will not accept bad substances in the air are transported to the lungs and maybe further to the blood.

### Virus in the air

The Danish Technological Institute performed one of the largest virus experiments. A large room (length 13,9m, width 6,7m, height 7,0m) has been loaded with virus and it hangs in the room for a very long time if no ventilation was applied. After 18 minutes, the virus concentration was still 80%.

It is surprising that the virus hangs in the air for such a long time. Air cleaning and ventilation is the most effective method to reduce virus exposure indoors.

### Filtration of inlet air

More and more people install ventilation systems in private homes. They look at **clean air** as healthy living. Particles from the kitchen are distributed to the living area even if you have an effective exhaust above the cooker. You spend around 7 hours in your bedroom. Children spend around 12-14 hours in their rooms. Families want to have a healthy life and that also includes **clean air**. The solution to this is a ventilation system.

Ventilation systems get installed with an air filtration system. When the inlet air is filtered, you keep the ventilation system clean, but you also get fewer harmful particles added to your home. The inlet air is then cleaner than outside – even at the countryside.

Below is a figure showing particle measurement, where the Danish Technological Institute has analysed the ventilation system in a terraced house. The concentration of particles in the inlet air is smaller than outside.

# Coffee break

Join us in the foyer

**See you again in 30 minutes!**

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# **12. Updates on standards and regulations**

**New prEN 16798-1-3**

**Update by**

**Mr Xavier Boulanger**

**new prEN 16798-1-3 and its impact on the  
revised EPBD**

# **12. Updates on standards and regulations**

## **Revision EN 15665**

**Update by**

**Mr Quentin Liebens (Aereco)**

# 12. Updates on standards and regulations

## CEN/TC 156 WG2 - letter to Mr Davide Polverini

Dear Mr Polverini,

CEN/TC 156/WG 2 "Natural and mechanical powered residential ventilation" met on 2022-10-12 in Paris. During the discussions, questions concerning the applicability of the documents below were raised. We thank you for any help you can give us in resolving this situation.

### Documents/Projects concerned:

- EN 13141-4:2021 "Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 4: Aerodynamic, electrical power and acoustic performance of unidirectional ventilation units" (previous version published in 2011)

- EN 13141-6 (under revision) "Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 6: Exhaust ventilation system packages used in a single dwelling" (current version published in 2014)

- EN 13141-7:2021 "Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 7: Performance testing of ducted mechanical supply and exhaust ventilation units (including heat recovery)" (previous version published in 2010)

- EN 13141-8:2022 "Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 8: Performance testing of non-ducted mechanical supply and exhaust ventilation units (including heat recovery)" (previous version published in 2014)

- EN 13141-11 (under revision) "Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 11: Supply ventilation units" (current version published in 2015)

### Context:

These standards are quoted in the Commission Communication (2016/C 416/06) as a reference for the application of Ecodesign regulation (1253/2014 and 1254/2014). The information given in the database EPREL are based on test methods described in previous version (before 2021).

As EN 13142:2021 "Ventilation for buildings - Components/products for residential ventilation - Required and optional performance characteristics" is not quoted yet in the Official Journal of the European Union (OJEU), the current communication (2016/C 416/06) is still the reference, with a risk of misleading with the version of performance standard to be used.

These standards have been reviewed/are currently being revised to take into account the ecodesign requirements and are now published for some of them. The application of the old and new standards gives conflicting results. We understand that the new standards apply now as their references in the Commission Communication document of the European commission are not dated.

For your information, the standards that are still currently under revision (EN 13141-6 and EN 13141-11) are not any more needed for the Ecodesign regulation, the EN 13141-4:2021 has been adapted for this purpose.

Manufacturers and laboratories need time to proceed to the tests with the revised/new methodology and a transitional period until beginning of 2024 is necessary to allow the market to adapt.

### Questions/Conclusion:

The market needs a clear guidance on which version of the standard shall be applied (old one or new published one?) and what will be the transitional period.

Discrepancies between methods and resulting measured values will lead to market (and market surveillance) confusion and possible unfair competition.

For CEN/TC 156/WG 2, the clearest guidance would be the publication of EN 13142:2021 in the Official Journal of the European Union (harmonization).

### Questions/Conclusion:

The market needs a clear guidance on which version of the standard shall be applied (old one or new published one?) and what will be the transitional period.

Discrepancies between methods and resulting measured values will lead to market (and market surveillance) confusion and possible unfair competition.

For CEN/TC 156/WG 2, the clearest guidance would be the publication of EN 13142:2021 in the Official Journal of the European Union (harmonization).

A transitional solution could be a new Commission Communication providing clear advice on the versions of standards and the timeline for their application.

# 13. Updates on standards and regulations

## Standardisation project - BIM for HVAC sector

CEN TC442 (Building Information Modelling) is launching a BIM standard project dedicated to the HVAC sector, which will consist of defining a dictionary model and an exchange format for HVAC product (prEN ISO 16757-4 and prEN ISO 16757-5).

**Is there a need for Eurovent to get involved?**

- **horizontal task force to liaise with CEN TC442?**

# Meeting Roadmap



# Building Bridges

1. Introduction, EUROVENTSUMMIT Open Session
2. - 4. Formalities
5. EPDs, Circular Economy, Sustainability  

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Coffee 11:00-11:30
6. Presentation by the Eurovent Commission Chairman
7. RAHU guidance document for MSA  

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Lunch 12:45-13:45
8. Guest presentation by UL Solution Brexit – updates and next steps
9. Material information and resources efficiency requirements
10. Potential inclusion of UVUs into PG-RAHU
11. 'Air as Food' FB campaign - draft visual concept  

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Coffee 15:30-16:00
12. Update on standards and regulations
- 13. Upcoming agenda items**
14. Announcements
15. Next meeting(s)

# 13. Upcoming agenda items



#BuildingBridges

**-> to be discussed in the meeting**



# Meeting Roadmap



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# 14. Announcements

## Update on APM

- The informal event on residential ventilation with invited representatives from universities, organisations and standardisation work from Germany, Austria and Switzerland was held on 29 September.
- On this occasion the Advanced Pressure Method (APM) was presented.
- The audience was very interested in the method and some laboratories expressed interest to participate in round robin test.

# 14. Announcements

## New PG-AHU Recommendation



Eurovent 6/18 - 2022

### Quality criteria for Air Handling Units

First Edition

Published on Thursday, 13 October 2022 by  
Eurovent, 80 Bd A. Reyers Ln, 1030 Brussels, Belgium  
[secretariat@eurovent.eu](mailto:secretariat@eurovent.eu)

#### 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.

# 14. Announcements

## New draft recommendation developed by PG-FIL members

- PG-FIL members drafted a new recommendation to include all possible applications (draft to be adopted in November 2022)
- Draft was shared with the Policy Officer to give an indication for the scope of tasks to include in the additional technical study.



Eurovent 4/XX - 2022

### **Energy Consumption Evaluation of Air Filters for General Ventilation in NRVUs in the context of ecodesign requirements**

First Edition

Published on 01 December 2022 by  
Eurovent, 80 Bd A. Reyers Ln, 1030 Brussels, Belgium  
[secretariat@eurovent.eu](mailto:secretariat@eurovent.eu)

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- 15. Next meeting(s)**

# 15. Next meeting(s)

## Spring 2023 meeting

- Venue: Prague
- Date: Week 20 : Wednesday, 17 May 2023

### Events to note

- 05 to 08 March 2023
- 13 to 17 March 2023

HVACR Expo Saudi Arabia

ISH 2023, Frankfurt am Main



# End of meeting

See you soon and enjoy the rest of the **EUROVENTSUMMIT!**



# **EUROVENT SUMMIT ANTALYA**

**25-28 OCT 2022**

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**# B u i l d i n g B r i d g e s**