



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 '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



#BuildingBridges

WHEN?	WHAT?	WHERE?
11:30-12:00h	Coffee Break	Foyer (Floor 1)
13:30-14:30h	Farewell Lunch	Meeting room Ladin + Foyer (Floor 1)

# 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.



# 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



# Building Bridges



- [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



#BuildingBridges

### BRIDGEBUILDING PARTNER



### BRIDGEBUILDING SUPPORTERS



### BRIDGEBUILDING CONTRIBUTORS



### OTHER SPONSORS



### GLOBAL SUPPORTERS



### ORGANISERS



### OFFICIAL AIRLINE



# 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**

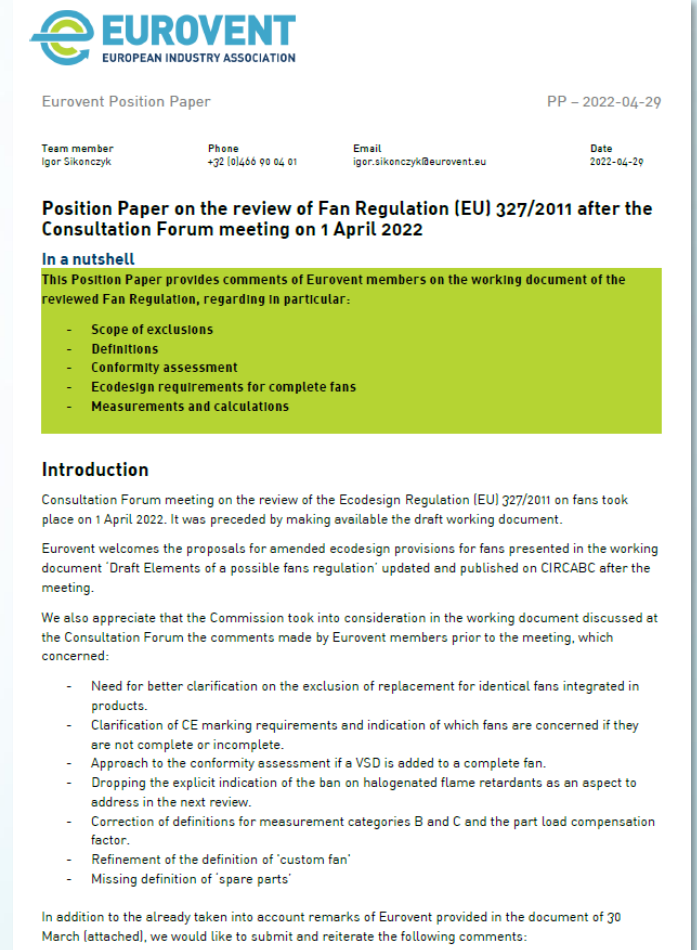
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## 5. Review of Regulation (EU) 327/2011 Consultation Forum in April 2022

- 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



**EUROVENT**  
EUROPEAN INDUSTRY ASSOCIATION

Eurovent Position Paper PP – 2022-04-29

Team member Igor Sikenczyk	Phone +32 (0)466 90 04 01	Email igor.sikenczyk@eurovent.eu	Date 2022-04-29
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**Position Paper on the review of Fan Regulation (EU) 327/2011 after the Consultation Forum meeting on 1 April 2022**

**In a nutshell**  
This Position Paper provides comments of Eurovent members on the working document of the reviewed Fan Regulation, regarding in particular:

- Scope of exclusions
- Definitions
- Conformity assessment
- Ecodesign requirements for complete fans
- Measurements and calculations

**Introduction**  
Consultation Forum meeting on the review of the Ecodesign Regulation [EU] 327/2011 on fans took place on 1 April 2022. It was preceded by making available the draft working document.  
Eurovent welcomes the proposals for amended codesign provisions for fans presented in the working document 'Draft Elements of a possible fans regulation' updated and published on CIRCABC after the meeting.  
We also appreciate that the Commission took into consideration in the working document discussed at the Consultation Forum the comments made by Eurovent members prior to the meeting, which concerned:

- Need for better clarification on the exclusion of replacement for identical fans integrated in products.
- Clarification of CE marking requirements and indication of which fans are concerned if they are not complete or incomplete.
- Approach to the conformity assessment if a VSD is added to a complete fan.
- Dropping the explicit indication of the ban on halogenated flame retardants as an aspect to address in the next review.
- Correction of definitions for measurement categories B and C and the part load compensation factor.
- Refinement of the definition of 'custom fan'
- Missing definition of 'spare parts'

In addition to the already taken into account remarks of Eurovent provided in the document of 30 March [attached], we would like to submit and reiterate the following comments:



## 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?**



Standardisation request to the European  
Committee for Standardisation as regards  
fans driven by motors in support of Regulation  
(EU) 327/2011

Brussels, 15 February 2022

# 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.



# Building Bridges

### 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

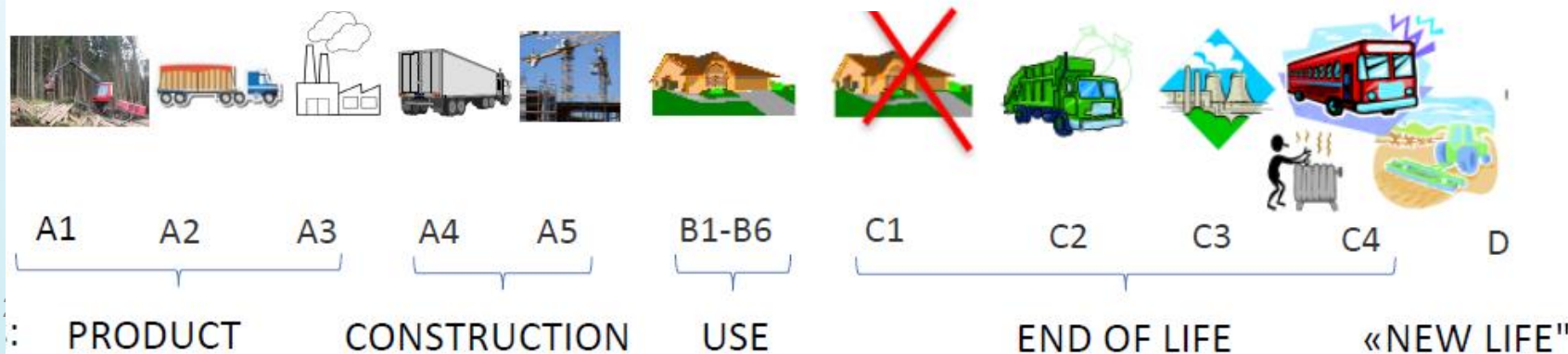
## Overview of developments. EPBD perspective.



### 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)

### Life cycle assessment (LCA)



# 7. Sustainable Product Initiative

## Overview of developments. EPBD perspective.



# Building Bridges

### 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

<p>Established ECD EPD PO</p> <p><b>AENOR</b></p> <p>AENOR</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>Alliance HOE</b></p> <p>Alliance HOE / GBC</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>Bau-EPD</b></p> <p>Bau-EPD GmbH</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>bre</b></p> <p>BRE Global Ltd</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 10 employees)</p> <p><b>Ecochain</b></p> <p>EcoChain Technologies B.V.</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>EPD®</b></p> <p>THE INTERNATIONAL EPD SYSTEM</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>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>IBU</b></p> <p>IBU – Institut Bauen und Umwelt e.V.</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>MRPI</b></p> <p>Stichting MRPI</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 MILJØKLARASJONER</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>ICMQ</b></p> <p>ICMQ S.p.A.</p> <p>Founding member</p>	<p>Product Manufacturers or Associations representing various</p> <p><b>Cerame-Unie aisi</b></p> <p>Founding member</p>	<p>Other Stakeholders</p> <p><b>EcoQuaestor</b></p> <p>EcoQuaestor (trade mark of Cooperativa Boverprogettazione U.A.)</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>since 2016</p>	<p>Established ECD EPD PO</p> <p><b>RAKENNUSIETO</b></p> <p>Building Information Ltd</p> <p>since 2017</p>	<p>Established ECD EPD PO</p> <p><b>IGBC</b></p> <p>Irish Green Building Council</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>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>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>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>DANISH TECHNOLOGICAL INSTITUTE</b></p> <p>Danish Technological Institute</p> <p>Founding member</p>	<p>Established ECD EPD PO</p> <p><b>ITB</b></p> <p>ITB – Instytut Techniki Budowlanej</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 10 employees)</p> <p><b>Office for ecological studies</b></p> <p>Office for ecological studies</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>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 10 employees)</p> <p><b>sphera</b></p> <p>Sphera Solutions GmbH</p> <p>Founding member</p>	<p>LCA Practitioners &amp; Tool Providers (up to 10 employees)</p> <p><b>metlime</b></p> <p>Metlime Sustainability Consulting</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>since 2014</p>	<p>LCA Practitioners &amp; Tool Providers (up to 10 employees)</p> <p><b>FORCE</b></p> <p>FORCE Technology</p> <p>since 2014</p>	<p>Established ECD EPD PO</p> <p><b>SÜB</b></p> <p>SÜB – Schweizerischer Überwachungsverband für Gesteinsbaustoffe</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>since 2017</p>	<p>Other Stakeholders</p> <p><b>SURATAM</b></p> <p>SURATAM (EPD Turkey)</p> <p>since 2018</p>	<p>Emerging ECD EPD PO</p> <p><b>kiwa</b></p> <p>Ecoliberty Experts – Kiwa GmbH</p> <p>since 2018</p>	<p>LCA Practitioners &amp; Tool Providers (up to 10 employees)</p> <p><b>ConstructionLCA</b></p> <p>ConstructionLCA Limited</p> <p>since 2018</p>

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



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
Independant verification of the declaration and data, in compliance with ISO 14025:2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conduct by a panel of experts chaired by P. Osset (SOLINNEN)	
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 FANS

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

# 7. Sustainable Product Initiative

## Potential field of action for Eurovent



## Proposal for a Eurovent Horizontal Task Force.

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# 10. Upcoming agenda items



#BuildingBridges

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

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# 15. 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)

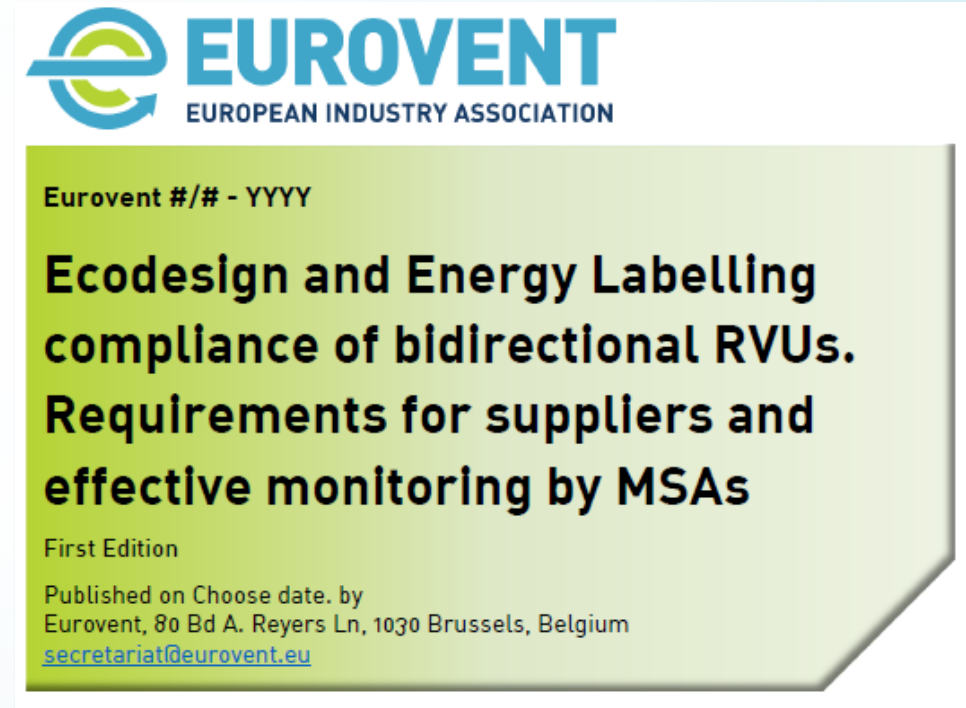
#### In a nutshell

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.

# 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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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)**

# 12. Next meeting(s)

## Spring 2023 meeting

- Venue: ?
- Date: ?





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#BuildingBridges

# 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**