



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 'Energy Recovery Components' (PG-ERC)

Tuesday, 25 October 2022, 13:45-16:45, Palmiye

# 1. Introduction, EUROVENTSUMMIT Open Session

# Good to know

What can you expect today?

# Good to know

## Tuesday, 25 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>	Meeting room Ladin + Foyer (Floor 1)
13:45-17:30h	<b>ISKID/TTMD Seminar:</b> New technologies and trends in HVACR – Part 1 (in Turkish and English) (Powered by Eurovent Certified Performance)	Side Ballroom (Floor 1)
18:30-20:30h	<b>Summit Opening Ceremony by the Eurovent President</b> (Powered by Systemair)	Hotel Garden Terrace
20:30-22:00h	<b>Policy Panel:</b> Vision for the future of product efficiency (Powered by CEIS)	Hotel Garden Terrace

# Good to know

## Tuesday, 25 October 2022



# Building Bridges

### **ISKID/TTMD Seminar: New technologies and trends in HVACR – Part 1 (Powered by Eurovent Certified Performance)**

- Time: 13:45-17:30h
- Location: Side ballroom (floor +1)
- In Turkish and English, with simultaneous translation
- Aimed at architects, consultants, designers, installers, manufacturers and policy makers of the HVACR industry
- This Turkish symposium will discuss hot topics and latest trends of the industry

# Good to know

Tuesday, 25 October 2022



## Summit Opening Ceremony by the Eurovent President (Powered by Systemair)

- Time: Starts at 18:30h at the Akra Hotel Garden Terrace
- A warm welcome from the Eurovent President Raul Corredera Haener (Systemair).
- Enjoy traditional Turkish barbecue while learning more about our activities and recent developments in the industry and the Eurovent world, and listening to welcome remarks by several high-ranking invited guests.

# Good to know

Tuesday, 25 October 2022



#BuildingBridges

## Policy Panel: Vision for the future of product efficiency (Powered by CEIS)

- Time: 20:30h, after Opening Ceremony at the Akra Hotel Garden Terrace
- The panel will discuss the future of global product efficiency policies, such as MEPs, energy labels, and more.
- Features Turkish Ministry of Industry and Technology, VHK, UNEP, CEIS, ECC and Eurovent.



# Thank you to our sponsors and partners

Who made the 2022 Eurovent Summit possible?

# Co-organiser



# iskid

- [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**

- [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



# J2INNOVATIONS

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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# About this Product Group

Eurovent Product Group 'Energy Recovery Components' (PG-ERC)



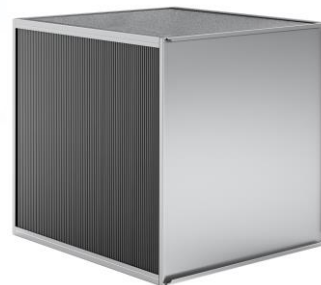
# About this Product Group

## Product scope

- Energy Recovery Components



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# About this Product Group

## Members

- Over 90 participants from 40+ leading European ERC manufactures, Eurovent Member Associations and Associate Members.



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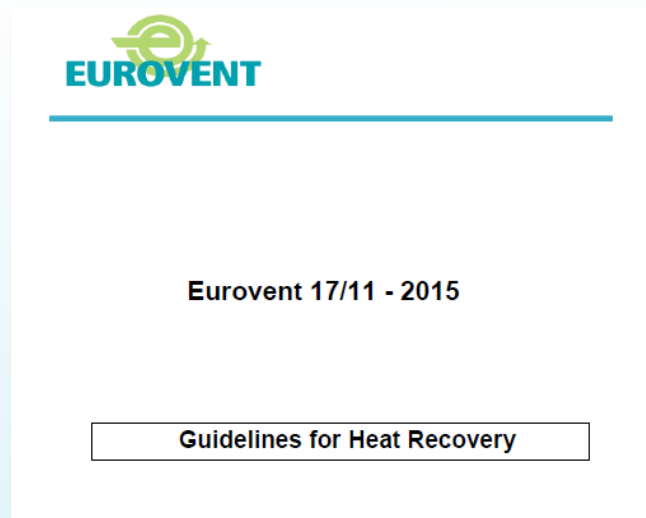
# About this Product Group

## 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

# About this Product Group

## Example technical publications



**In cooperation with  
PG-AHU members**



# About this Product Group

## Examples of Advocacy – EU Legislation

### Contribution to position papers on the review of Regulations (EU) 1253/2014

**EUROVENT**  
EUROPEAN INDUSTRY ASSOCIATION

Position Paper PP – 2021-04-30

Team member: Igr Shonopch Phone: +32 (0)484 89 44 41 Email: igor.shonopch@eurovent.eu Date: 2021-04-30

**Euvent comments to draft working documents on Ecodesign requirements for VU and Energy Labelling of RVUs**  
*In a nutshell*  
Following the Consultation Forum meeting concerning the proposals made in draft working documents on Ecodesign requirements for VU and Energy Labelling of RVUs, Eurovent provides in this paper its comments on proposed amendments regarding:

- Ecodesign requirements for non-residential ventilation units
- Ecodesign requirements for residential ventilation units
- Energy Labelling Requirements for residential ventilation units

**Introduction**  
Consultation Forum Meeting on the review of the Ecodesign and Energy Labelling regulations on ventilation units took place on 26 March 2021. It was preceded by making available the draft working documents.

Euvent welcomes the proposal for amended ecodesign and energy labelling provisions for ventilation units set out in draft working documents 2021-0222 ED-na-TC and 2021-0222 EL-na-TC published on 1 March 2021. Euvent members appreciate that most of the industry motions were taken into consideration in the review.

After reviewing the draft working documents and clarifications made at the Consultation Forum meeting, we would like to provide the following comments from Euvent members:

**1 Non-residential Ventilation Units - Ecodesign Requirements**  
**[Review EUSIS/2014]**

**1.1 Requirements for known and unknown place of installation**  
**Reference Annex III - Specific ecodesign requirements for RVUs**

Euvent fully supports the proposal for separate requirements for RVUs with known and unknown place of installation, or in other words with known or unknown minimum outdoor temperature.

We are confident that, whenever needed and justified, lower requirements for the temperature will be combined with higher requirements for SFP<sub>max</sub> and contribute for further energy savings and decarbonisation.

We also believe that making requirements dependent on the outdoor temperature does not create additional burdens and challenges for market surveillance, which were indicated by some Member States during the Consultation Forum meeting. In our view, the outdoor temperature is another input parameter decided by a manufacturer for the conformity assessment, similar to the airflow rate or external pressure drop. All these parameters can be verified by market surveillance in a similar way based on product and ventilation system documentation.

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**EUROVENT**  
EUROPEAN INDUSTRY ASSOCIATION

Euvent Position Paper PP – 2019-12-20

Team member: Igr Shonopch Phone: +32 (0)484 89 44 41 Email: igor.shonopch@eurovent.eu Date: 2019-12-20

**Euvent comments to the Phase 1.1 and 1.2 Draft Reports of Tasks 1, 2 and 3 for the review study on Ventilation Units**  
**Scope:** Non-Residential Ventilation Units and Residential Ventilation Units  
*In a nutshell*  
This Position Paper presents comments to the Phase 1.1 and 1.2 Draft Reports of Tasks 1, 2 and 3 for the review study on Ventilation Units published on 15 November 2019. The comments were developed in a joint effort by members of the Euvent Product Groups 'Air Handling Units', 'Residential Air Handling Units', 'Air Filtration' and 'Energy Recovery Components'.

Comments are made on the issues listed below. With regard to other proposals of the reports, Euvent does not take a position or holds positions already presented in the previous papers.

- Proposed extensions to the product scope
  - VUUs with < 30 W per airstream
  - Non-Residential Ventilation Units fitted with a Heat Pump and HRS or Heat Pump for heat recovery
- Proposed adjustments in Regulation text
  - Definition of Ventilation Units
- Proposed exclusions of the product scope
  - AHUs primarily used for air heating/cooling with 0-10% ventilation
  - VUUs used for replacing old units in historic buildings
  - VUUs exclusively for dehumidification and de-carbonisation of spaces
- Proposed revisions concerning the Energy Performance in regard to RVU
  - Modifications regarding energy recovery
    - Includes latent heat & humidity recovery feature
    - Proposed to increase limit values for minimum thermal efficiency to 72%
    - Proposed to allow reduction on limit values for SFP<sub>max</sub> for non-residential VUUs that have smart controls (IDA-C5, following table 12 of EN 12098-3)
    - Modifications regarding filters
      - Introduction of separate values for SFP<sub>max</sub> depending on the class of applied filters
      - Set limit values for filter initial velocity for RVU
    - Modifications concerning leakages
    - Modifications concerning de-dusting
  - Proposed revisions concerning the Energy Performance in regard to RVUs

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**EUROVENT**  
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Product Group 'Residential Air Handling Units' PP – 2019-06-02

Team member: Igr Shonopch Phone: +32 (0)484 89 44 41 Email: igor.shonopch@eurovent.eu Date: 2019-06-02

**Euvent comments to the second Stakeholder meeting on 7 May 2020 and to the Discussion Document for 2nd Stakeholder Meeting (v1.1) on Residential Aspect**

**Background**  
The second Stakeholder meeting on the review of VU Regulation (1253/2014) and VU Energy Labelling Regulation (1254/2014) was held on 7 May 2020. It was preceded by the publication of Discussion Document (v1.1). The document summarised the results of the work for Phase 1 of the Review Study, comprising the Technical Analysis (Phase 1.1) and the update of the Preparatory studies (Phase 1.2).

Euvent welcomes the detailed proposals for revisions. We believe they bring significant improvements and take into account the suggestions made by stakeholders.

In this paper, Euvent presents additional comments on Residential aspects to the subjects addressed in the course of stakeholder meeting and to proposals for revisions included in the Discussion Document.

- Include VUUs with electric power input < 30 W per airstream in EU 1253/2014 (par. 3.7 in the Discussion Document)**  
Euvent fully supports the proposal to extend the scope of the Ecodesign Regulation with VUUs below 30 watts per airstream.  
In addition, if this extension is to come into force, we believe that the requirements in Annex I of 1253/2014 for VUUs below 2000 l/s air stream (particularly equipped with the plate exchanger) on the mandatory by-pass facility should be revised and modified.  
In opinion of our members, in such small compact Bi-directional Ventilation Units, implementation of a thermal by-pass facility is not possible. Thus, this requirement for VUUs with electric power input below 30W per airstream should be lifted.
- Multifunctional Residential RVUs (par. 3.10)**  
Euvent supports the proposal to include performance data of Multifunctional Residential RVUs (residential RVUs that have one or more other functions additional to ventilation, e.g. space heating/cooling, DeOH) in the information requirements of the revised VU Regulations.  
The existing standards are not adjusted to the new technology that means that the overall efficiency of the unit is not well reflected. The need would be to see an overall approach in the future that consider the different functions as a whole unit. Therefore, we believe that introducing at this stage information requirements to collect data for the next review is a good compromise.
- New list of CTRL-factors (par. 5.2)**  
Euvent members appreciate the ambitious approach proposed by VHK to include in the assessment, in addition to the performance of a unit itself, also features directly related to the system type of the installation and sensors installed in spaces of a dwelling. We agree this is the correct target way for improving overall energy efficiency of ventilation systems and indoor air quality.

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**EUROVENT**  
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Product Group 'Residential Air Handling Units' PP – 2019-12-20

Team member: Igr Shonopch Phone: +32 (0)484 89 44 41 Email: igor.shonopch@eurovent.eu Date: 2019-12-20

**Euvent consolidated Position Paper concerning Revision of Commission Regulation (EU) No 1253/2014, and Commission Delegated Regulation (EU) No 1254/2014**  
**Scope:** Residential Ventilation Units  
*In a nutshell*  
Within this Position Paper, the Euvent Association provides its in-depth, preliminary positions concerning the ongoing review of Commission Regulation (EU) No 1253/2014, Ecodesign requirements for ventilation units, and Commission Delegated Regulation (EU) No 1254/2014, energy labelling.

Given the large amount of input, this Position Paper is being split into the following sections:

- The need to accelerate further clarifications and amendments in the regulatory text.
- The appropriateness of taking into account the effects of low energy consuming filters on the energy efficiency.
- The appropriateness of introducing new requirements for RVUs concerning leakages.
- The need to consider defrosting strategies in the calculation of the Specific Power Consumption Factor (SFCF) for Residential Ventilation Units.
- The need for consideration of the actual working point in energy labelling.

**Important remarks**  
This Position Paper covers residential ventilation units only. Non-residential ventilation units are being dealt with in a separate Position by our Product Group 'Air Handling Units'.

While no major changes are being expected, these Positions remain subject to a final vote by members of the Euvent Product Group 'Residential Air Handling Units'.

**Authors**  
The above-mentioned Positions derive from joint efforts of the Euvent Product Group 'Residential Air Handling Units', which represents more than 30 manufacturers of residential ventilation units across Europe. Whenever necessary, our Product Groups 'Energy Recovery Components' and 'Air Filtration' as well as statistical experts of Euvent Market Intelligence were consulted to guarantee the highest possible validity.

**Review background**  
In February 2019, the European Commission has initiated the Review Study concerning its Ecodesign and Energy Labelling Regulations on Ventilation Units. The review is being carried out by VHK and managed by VHK. It will include the review of existing Regulations EU 1253/2014 (Ecodesign requirements for ventilation units) and EU 1254/2014 (energy labelling of residential ventilation units).

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# About this Product Group

## Examples of advocacy – European standardisation



Position Paper of the Product Group 'Energy Recovery  
Components'

MAIL – 2019-08-16

CEN/TC 156/WG 5.

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Date  
2019-08-16

### **Eurovent Position Paper concerning new hygienic-related construction requirements for plate exchangers in revised EN 13053:2019**

#### **Preamble**

The Final draft of FprEN 13053 was approved in a Formal Vote by Members of CEN/TC 156 in August 2018. According to the resolution on decisions taken at the CEN/TC 156 Plenary Meeting held on 17 & 18 December 2018 in Delft (N1767), the standard was supposed to be published very soon.

Eurovent holds that technical/product standards are a powerful tool to ensure the level-playing-field and fair competition. In this respect, Eurovent on behalf of its members would like to support the activities of the CEN/TC156/WG5 and provide useful input to the next revision of the EN 13053. Specifically, Eurovent would like to provide a position regarding requirements for construction requirements of plate heat exchangers.

# Meeting Roadmap



1. Introduction,  
EUROVENTSUMMIT Open  
Session
- 2. - 4. Formalities**
5. Standard for interoperability  
between ERC and AHU software
6. Measurement of dynamic ERC  
characteristics
- Coffee Break 15:30 – 16:00
7. Moisture recovery in ventilation  
and air-conditioning systems
8. Update on standards and  
regulations
9. Upcoming agenda items
10. Announcements
11. 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-ERC meeting  
Paris  
15 June 2022**

### Action items

Action	Agenda item N°	Deadline	Responsible	Status
Provide comments on the draft recommended standard for interoperability of AHU/ERC software interfaces.	6	Friday, 15 July 2022	Members	Completed
Consider supporting further development of the APM and, if interested, contact Eurovent Secretariat for details.	7	ASAP	Members	Ongoing

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# 5. ERC/AHU software interoperability standard

## Review and approval of the final draft

- Final draft -> PG-ERC – 2202.52
- Additional substantive amendment proposal by Mr Jaroslav Chlup for discussion:

I have another comment to this document on pages 9 and 10 regarding remarks on calculated parameters  $dp_1$  and  $dp_2$  on plate heat exchangers influenced by pressure difference  $dP_{22-11}$ .

In praxis there is never  $dP_{22-11}=0$  Pa but rather  $dP_{2m-1m}=0$  Pa what means  $dP_{22-11}=200$  Pa and is today basis for deformation test = already known parameter (see Eurovent 17/12 2.1.2 and 3.2.2 and picture below).

So I recommend to change remarks to “Alternatively,  $dp_{1,2}$  can be given at  **$dP_{22-11} = 200$  Pa**, and a  $dp_{1,2}$  deviation due to the actual  $dP_{22-11}$  is reported separately”.

# 5. ERC/AHU software interoperability standard

## Review and approval of the final draft

- Additional substantive amendment proposal by Mr Jaroslav Chlup for discussion:

$\Delta p_1$	Pressure drop on exhaust air side at standard density (1.2 kg/m <sup>3</sup> ) and dry conditions	<ul style="list-style-type: none"> <li>- <math>\Delta p_1</math> shall be given with consideration of the actual <math>\Delta P_{22-11}</math> impact due to the deformation of plates.</li> </ul>
	<p><b>Comment on implementation in AHU software</b></p> <p>This value is used to compute the AHU air flow rate/pressure performance characteristic at standard conditions according to EN 13053</p>	<p><i>Current barrier</i></p> <p>at present, a basis for deformation test is often only 200 Pa but new EN 308:2022 is expecting to test the PHE to its max allowed pressure difference</p> <ul style="list-style-type: none"> <li>- Alternatively, <math>\Delta p_1</math> can be given at <math>\Delta P_{22-11} = 0</math>, and a <math>\Delta p_1</math> deviation due to the actual <math>\Delta P_{22-11}</math> is reported separately</li> </ul>



# 5. ERC/AHU software interoperability standard

## Next steps for dissemination and implementation

- Basic measures
  - Circulation in the Eurovent network (LinkedIn, partner HVAC magazines)
- Next steps to gain publicity
  - Translation into national languages?
  - Articles in HVAC magazines?
- PG-ERC members' support?





# Meeting Roadmap



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## 6. Measurement of dynamic ERC characteristics

### initial discussion to define the issue

- New recommendation uses term 'dynamic characteristics of ERC'
  - Meaning simultaneous measurement of actual values for various parameters and their correlations
- Exact definition of this term and testing method are missing

### Discussion on defining the problem

- Minimum number of measuring points?
- To be brought to CEN TC 110/WG 6 (EN 308)?
- To be resolved only at Certification level?

# Coffee break

Join us in the foyer

**See you again in 30 minutes!**

# Meeting Roadmap



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# 7. Moisture recovery in ventilation systems

## Proposal for a new PG-ERC recommendation

- Lack of comprehensive industry guide on benefits of moisture recovery
- Limited knowledge of benefits determination (energy, freezing, IAQ)
- No recognition of the potential reduction in electricity demand peaks (if any?)
- Concerns about the risk of viruses / germs transmission
- New expected ecodesign requirements (revised VU Regulation)
- HSLU have started a research project in the same area

# 7. Moisture recovery in ventilation systems

## Ideas for the content

- Type of heat and moisture recovery exchangers
- Humidity recovery efficiency as a function of operating parameters - condensation potential.
- Impact of moisture recovery on exchanger freezing
- Estimation of cooling source / humidifier power reduction
- Easy tool (table) for estimating annual energy savings - kWh.a/(m<sup>3</sup>/s)
- Potential reduction of peak electricity consumption and its impact on grid optimisation (case studies?)



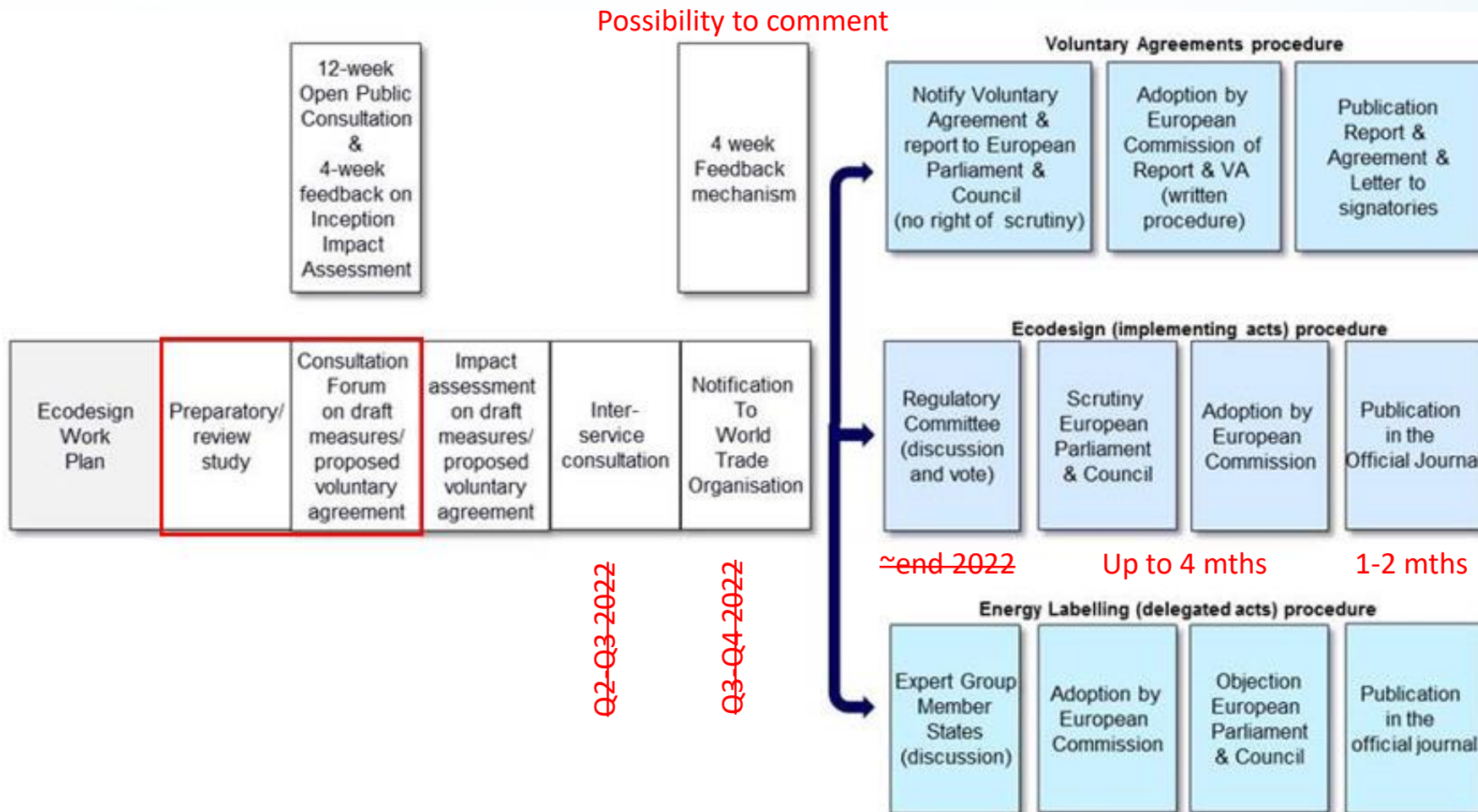
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# 8. Updates on standards and regulations

## Review VU Regulation



Adoption and publication mid-2023

- Stakeholder meeting mid 2023?
- Adoption and publication 2024?

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## 9. Upcoming agenda items



#BuildingBridges

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

# Meeting Roadmap



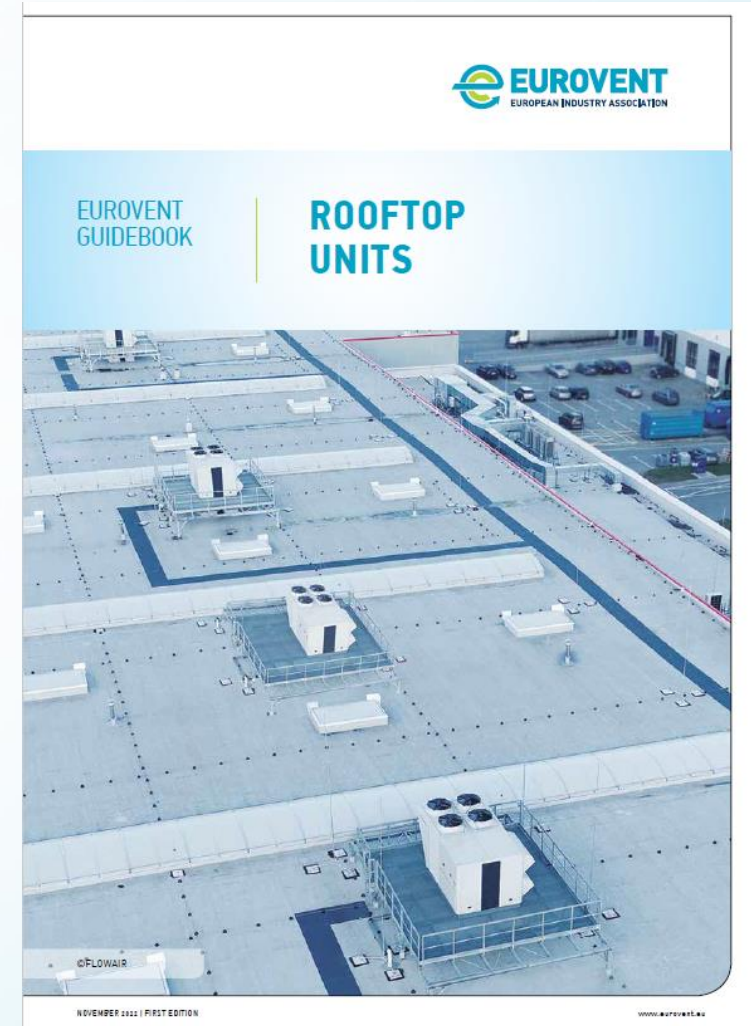
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9. Upcoming agenda items
- 10. Announcements**
11. Next meeting(s)



# 15. Announcements

## New Eurovent Rooftop Units Guidebook

Product Group 'Rooftop Units'  
developes a new Guidebook which  
gives a comprehensive overview of the  
rooftop technology





# 15. Announcements

## New PG-AHU Recommendation



**Eurovent 6/18 - 2022**

### **Quality criteria for Air Handling Units**

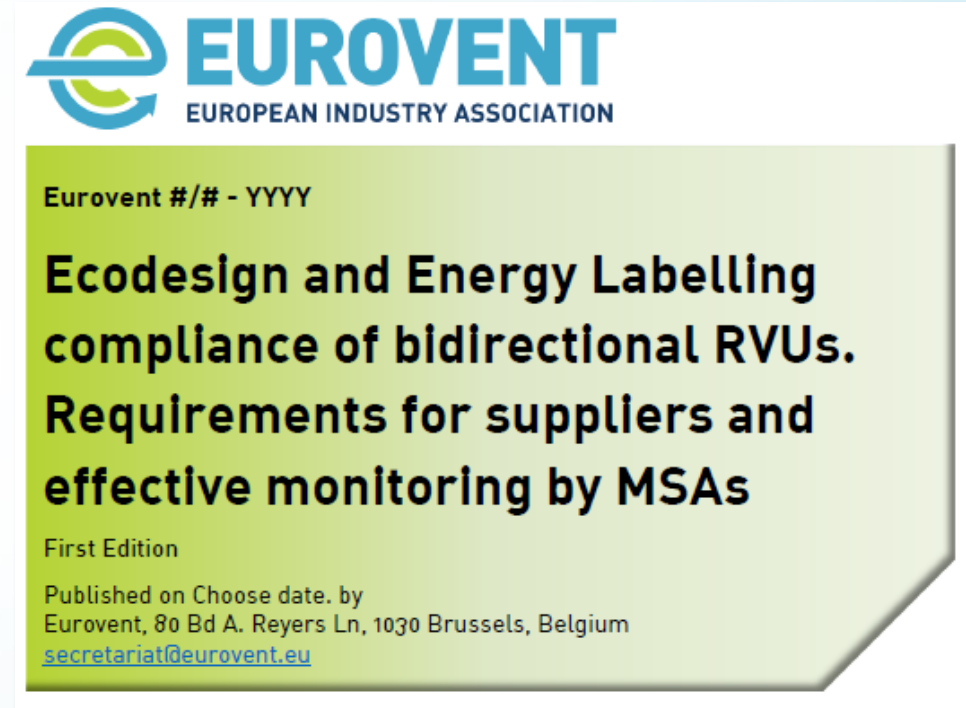
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# 15. Announcements

## 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



# Meeting Roadmap



1. Introduction,  
EUROVENTSUMMIT Open  
Session
  2. - 4. Formalities
  5. Standard for interoperability  
between ERC and AHU software
  6. Measurement of dynamic ERC  
characteristics
  7. Moisture recovery in ventilation  
and air-conditioning systems
  8. Update on standards and  
regulations
  9. Upcoming agenda items
  10. Announcements
  - 11. Next meeting(s)**
- Coffee Break 15:30 – 16:00

# 16. Next meeting(s)

## Spring 2023 meeting

- Venue: ?
- Date: ?

# 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**