



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



EUROVENT SUMMIT ANTALYA

25-28 OCT 2022

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

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EUROVENT **SUMMIT** ANTALYA

25-28 OCT 2022

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

Meeting of the Eurovent Product Group 'European Air Curtains' (PG-CUR)

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

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 | Coffee Break | Foyer (Floor 1) |
| 12:45-13:45h | Lunch Break | Meeting room Ladin + Foyer (Floor 1) |
| 13:45-17:30h | ISKID/TTMD Seminar: 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 | Summit Opening Ceremony by the Eurovent President (Powered by Systemair) | Hotel Garden Terrace |
| 20:30-22:00h | Policy Panel: Vision for the future of product efficiency (Powered by CEIS) | Hotel Garden Terrace |

Good to know

Tuesday, 25 October 2022



#BuildingBridges

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](#) 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



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



- [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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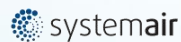
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About this Product Group

Eurovent Product Group 'European Air Curtains' (PG-CUR)



The Eurovent Product Group 'Air Curtains' is the only dedicated committee on air curtain technologies within the EMEA region.



It is the largest group of air curtain unit manufacturers worldwide and is supported by Eurovent Member Associations on a national level.

Key Tasks

Advocacy

European Union legislation (Ecodesign, Energy Labelling, EPBD...)

Technical

EN and ISO standardisation

Development of Eurovent recommendations

Marketing

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

Agenda



1. Introduction, meeting rules
2. Attendances
3. Approval of the Draft Agenda
4. Approval of the Minutes of the last meeting
5. Where we were: PG-CUR Recommendations
6. Extension of the PG-CUR scope
7. Merged labelling regulations
8. Chairman and Vice-Chairman elections
9. Energy Saving in Europe
10. Cooperation with the AMCA Air Curtain Group
11. Guest presentation by UL Solutions Modelling and Simulation for Compliance - An Introduction
12. Next meeting(s)

Coffee
break

1.-4. Formalities



- Introduction
- Rules: Competition law, bribery, corruption and data protection
- Attendances
 - Introduction of participants
 - Remember to sign the attendance list
- Approval of the Draft Agenda
- Approval of the minutes of the last meeting

4. Approval of the minutes of the last meeting

- 24 February 2021, Webex

Formalities

- Draft Agenda unanimously approved.
- Draft Minutes of last meeting unanimously approved.

PG-CUR Scope

- Discussion to be finalised at the next PG-CUR meeting.

Eurovent Recommendation 16/2

- Recommendation has been unanimously approved by the meeting participants.

Sound measurement: Eurovent PP

- Eurovent infographic to be discussed and finalised at the next PG-CUR meeting.

ED/EL Working Plan 2020-2024

- Eurovent Secretariat to attend the next EC online meeting on 26 March 2021.

Guidebook for GCC region

- Members to provide the Eurovent Secretariat with their suggestions (including additional pictures) by 24 March 2021. Secretariat to collect all the suggestions and draft an amended guidebook to be reviewed at the next PG-CUR meeting and published under the EME umbrella.

Announcement

- Milan 'Clean Air Package'.

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break

5. Where we were

Recommendation 16/2: Water Fan Heaters: Interpretation of the Commission Regulation (EU) 2016/2281 and Standard Rating Conditions

- During the last meeting the draft recommendation was unanimously approved with some modifications.
- The document has been finalised and it is ready for official publication. Please refer to the preparatory document [Eurovent REC 16-2 - Recommendation for Air Curtain unit - Water Fan Heaters Rating Conditions – EN \(PG-CUR – 2201.51\)](#) for the approved contents.

5. Where we were

Recommendation 16/2: Water Fan Heaters: Interpretation of the Commission Regulation (EU) 2016/2281 and Standard Rating Conditions

- Possible planning
- The Eurovent Recommendation 16/2 has been already uploaded to the Eurovent website:
<https://eurovent.eu/?q=content/eurovent-162-2022-water-fan-heaters-interpretation-commission-regulation-eu-20162281-and>
- It can be also officially released through a Press Release in November or December.

5. Where we were

Recommendation 16/3: sound measurement

- Is it a recommendation or a position paper?
- The document ([PG-CUR – 2201.52](#)) was discussed at the last meeting in 2021 as a position paper but the minutes at the end state: “It was unanimously agreed to discuss on it at the next PG-CUR meeting and to finalise a Eurovent Recommendation (Recommendation to be customer-friendly, e.g. infographic).”

5. Where we were

Recommendation 16/3: sound measurement

- PG-CUR members were also asked to fill-in the below-proposed table and provide the Secretariat with their input (if any).

| | Example | Systemair | Frico | Company X |
|--|---|-----------------|-----------------|-----------|
| Airflow | (Highest / Lowest Airflow in [m ³ /h]) | In 3 Steps, Yes | In 3 Steps, Yes | |
| Sound level in dB(A) | | Done | Done | |
| Sound power level L _{WA} | | | | |
| Sound power (L _{WA}) measurements according to ISO 27327-2: 2014, Installation type E. | | Possible | Always done | |
| Sound pressure (L _{pA}) | At highest/lowest airflow. | YES | YES | |
| Conditions: Distance to the unit 5 or 3 metres | | 5 m | 5 m | |
| Directional factor: 2. (On the wall) | | Done | done | |
| Equivalent absorption area: 200 m ² . (No change during measurement) | | Done | done | |

5. Where we were

Recommendation 16/3: sound measurement

- How do we want to proceed?

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Coffee
break

6. Extension of the PG-CUR scope

possible inclusion of fan heating products and/or local space heaters

- Intervention of Ms. Inna Collet - EMI



6. Extension of the PG-CUR scope

possible inclusion of fan heating products and/or local space heaters

- During the last meeting, the former chairman, Mr. Schmelzer elaborated on the possible enlargement of the scope of the PG-CUR as well as a possible change of the PG-CUR name.
- The meeting participants suggested to include in the PG-CUR scope other heating/cooling products (for both comfort of human beings as well as industrial applications) having a high airflow volume
- It was agreed to finalise the discussion at the next PG-CUR meeting (this one in Antalya) and then to promote it within a dedicated Eurovent PR.

6. Extension of the PG-CUR scope

possible inclusion of fan heating products and/or local space heaters

First proposal of new name and scope (see also PG-CUR – 2201.60)

- Name of the Group: **European Air Curtains and Fan Heaters**
- Scope: The Eurovent Product Group ‘**European Air Curtains and Fan Heaters**’ is the only dedicated committee on air curtain **and fan heating** technologies within the EMEA region. It covers air curtain units for commercial, industrial and cold storage purposes **and fan-driven heating products such as local space heaters**. It is the largest group of air curtain unit manufacturers worldwide and is supported by Eurovent Member Associations on a national level. This Product Group is involved in advocacy of European and national legislation, EN, ISO and Eurovent standards, general promotion of the industry, export initiatives and diminishing of unfair trade barriers inside and outside Europe. The Group does not deal with certification.

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Coffee
break

7. Merged labelling regulations

for room heaters, room air conditioners and comfort fans: Eurovent position

Background

On 24 June 2022 a Consultation Forum was held by the European Commission to discuss the proposal of possibly merged labelling regulations for room heaters, room air conditioners and comfort fans.

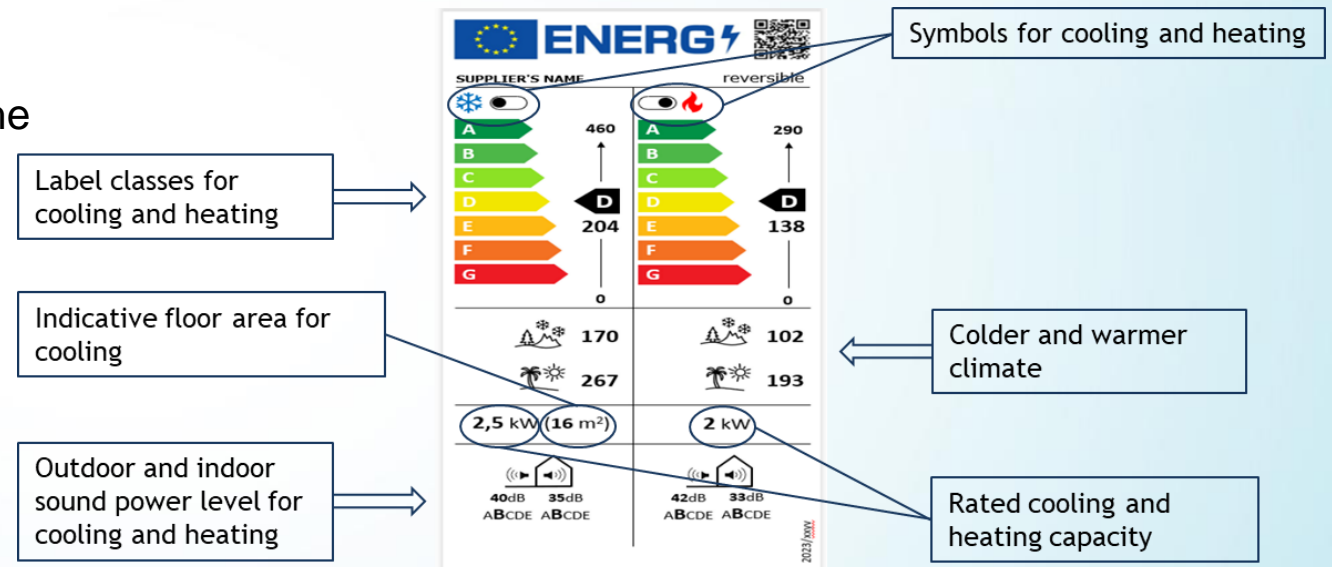
The result of the discussions within PG-AC was a list of speaking points to be voiced during the Consultation Forum and which served as the basis for the Eurovent Position Paper that was developed after the Consultation Forum with the written contributions of Members.

7. Merged labelling regulations

for room heaters, room air conditioners and comfort fans: Eurovent position

Main contents of the proposal

- For room air conditioners the scope is the same as the regulation it replaces (≤ 12 kW).
- The efficiency of all products is expressed in primary energy efficiency (enabling the comparison).
- New design of the Energy Label



7. Merged labelling regulations

for room heaters, room air conditioners and comfort fans: Eurovent position

Main contents of the proposal

- Proposed scales (during the Consultation Forum a threshold value of 330 was proposed for the class A seasonal room heating efficiency):

| Energy label class for room heaters | Seasonal room heating efficiency η_h |
|-------------------------------------|---|
| A | $\eta_h \geq 290$ |
| B | $240 \leq \eta_h < 290$ |
| C | $190 \leq \eta_h < 240$ |
| D | $120 \leq \eta_h < 190$ |
| E | $90 \leq \eta_h < 120$ |
| F | $75 \leq \eta_h < 90$ |
| G | $\eta_h < 75$ |

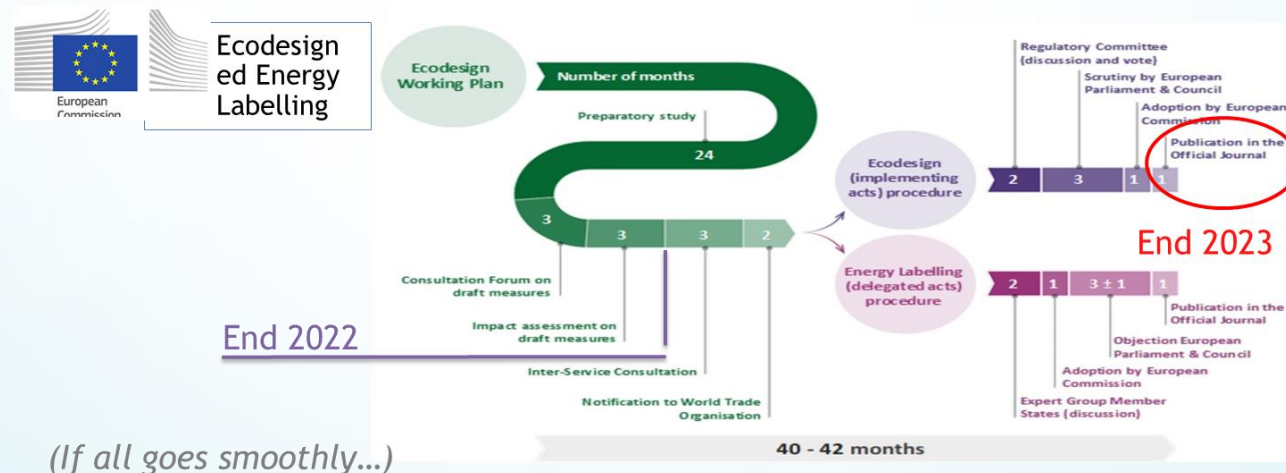
| Energy label class for room air conditioners | Seasonal room cooling efficiency η_c |
|--|---|
| A | $\eta_c \geq 550$ |
| B | $395 \leq \eta_c < 550$ |
| C | $295 \leq \eta_c < 395$ |
| D | $215 \leq \eta_c < 295$ |
| E | $160 \leq \eta_c < 215$ |
| F | $115 \leq \eta_c < 160$ |
| G | $\eta_c < 115$ |

7. Merged labelling regulations

for room heaters, room air conditioners and comfort fans: Eurovent position

Next steps

The impact assessment should be completed by the end of the year. According to the graph, the publication of the new Regulations, Ecodesign and Energy Labelling, could be done within the end of 2023. The policy officer in charge, Mr. Philippe Rivière, stated during the Consultation Forum that the timelines of Energy Labelling and Ecodesign are aligned.



7. Merged labelling regulations

for room heaters, room air conditioners and comfort fans: Eurovent position

Eurovent Position

- Within Eurovent, it has not been possible to have a common view on the proposed merged energy label.
- Eurovent holds that it is of the most importance to ensure the proper granularity for different products both in heating and cooling functions.
- Without considering the layout of the label or the choice of one or multiple labels/scales, the width of the scales should be designed to allow the best products of each technology to reach a higher-class respect than others of the same technology.
- Eurovent would like to stress that the conversion to primary energy (for both cooling and heating function) and the indication of the scale on the label remain essentials.
- Eurovent understood from the Consultation Forum that all the studies conducted so far will be properly taken into account, so we expect that the Ecodesign minimum requirements will be revised accordingly
- Eurovent asks the Commission to align Ecodesign and Energy Labelling formulas, include all the findings from the studies conducted so far into one final draft and circulate it among the stakeholders before the next steps of the Regulations' approval and publication.
- Exclude from the scope units not designed for the comfort of human beings

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Coffee
break

8. Chairman and Vice-Chairman elections

Chairman position candidates

- Mr. Carsten Dittmar (Systemair GmbH)
- Mr. Michael Hims (Carver Climate Systems Ltd)

No candidatures for vice-chairman

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Coffee
break

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

Air curtains support the energy efficiency of a building

- Air Curtains provide comfort and provide a significant energy saving for the building.
- In the past that saving potential had not been taken into consideration in European and only partly in national energy saving regulations / calculation.
- Preventing the entrance of polluted air and keep healthy indoor climate inside.

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

Examples of national/local regulations that don't allow open doors for shops

REGOLAMENTO PER LA QUALITA' DELL'ARIA – Comune di Milano Art.5

- in the city of Milan, starting in 2022, it is mandatory for spaces open to the public to keep the doors close if there is an heating system for winter or cooling system for summer.
- An important exception (when there are no doors) is foreseen where there is an air curtain installed, but only if these requirements are met
 - “2. Air curtain devices, as referred to in paragraph 1 of this Article, must meet the following requirements
 - they must be installed in a workmanlike manner
 - the relevant air flow must not be heated by means of an electrical resistance;
 - they must ensure that the width of the air curtain is not less than the width of the business opening to the outside;
 - they must be designed to ensure an air flow velocity at ground level (determined in accordance with the technical standards in force) of not less than 2 m/s.”

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

Examples of national/local regulations that don't allow open doors for shops

Real Decreto-ley 14/2022, de 1 de agosto, Spain

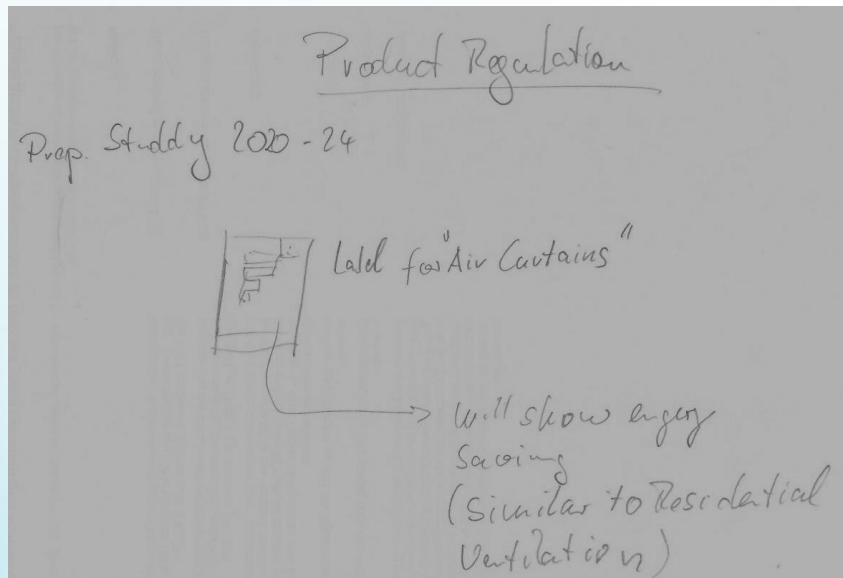
Three. Buildings and premises with access from the street included in the scope of I.T. 3.8 of RITE shall have an appropriate door closing system, which may consist of a simple automatic door-closing arm, to prevent doors from remaining open permanently, preventing the doors from remaining open permanently, with the consequent waste of energy through energy losses to the outside, irrespective of the renewable or non-renewable origin of the energy used for the generation of heating and cooling by the heating and cooling systems.

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

What has been done so far

Preparatory study for the Eco-design and Energy Labelling Working Plan 2020-2024



Result Stakeholder meeting 26/3/2021

- Air curtains were not included among the recommended products to be included in the Working Proposal. The reasons for the inclusion/exclusion of individual products were not shared. During the meeting, Eurovent suggested to include reconsider this decision and include air curtains.

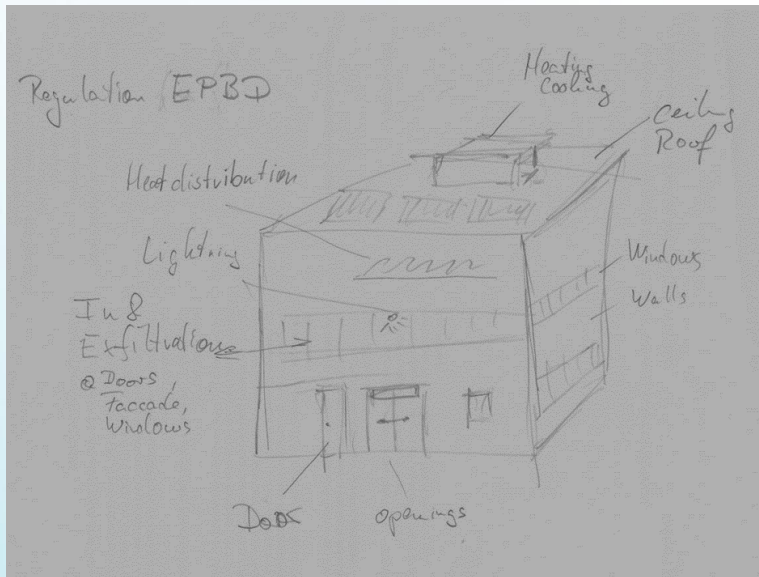
* Labelling Working Plan 2020-2024 as part of the implementation of the Ecodesign Directive 2009/125/EC and Energy Labelling Regulation (EU) 2017/1369.

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

Another way

Integration in the performance calculation of the Energy Performance of Buildings



Basics for Air Curtains to get these in the energy calculation

- Standards for measurements of performance of the Air Curtain
- Calculation of the impact for buildings in general
- Scientific solution on the calculation / Interaction to the building loads

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

Existing tools/studies

- Netherlands: ISSO publication 110 on Air curtains ISBN: 978-90-5044-262-6
Rekentool Energiebesparing Luchtgordijnen <https://www.energiebesparingluchtgordijnen.nl/>
ISSO Publicatie 110 Luchtgordijnen <https://isso.nl/publicatie/isso-publicatie-110-luchtgordijnen/2014>
- Studies from Prof. Leon Wang
Air Curtain effectiveness rating based on aerodynamics
Investigation of the Impact of Building Entrance Air Curtain on Whole Building Energy Use ([AMCA Air Curtain CFD Study Short Summary \(planetaklimata.com.ua\)](#))
Rekentool Energiebesparing Luchtgordijnen <https://www.energiebesparingluchtgordijnen.nl/> 2. ISSO
Publicatie 110 Luchtgordijnen <https://isso.nl/publicatie/isso-publicatie-110-luchtgordijnen/2014>

9. Energy Saving in Europe:

national energy saving plans – Air Curtains and energy efficiency

Next steps

- Recommendations from the air curtains group to achieve an optimal solution, especially installation recommendations, performance and control
 - > use the existing recommendations for Air Curtains
- collect all relevant air curtains studies
- analyze the studies
 - > detailed look at the AMCA studies
- Find a common approach for implementation in regulation
- push to include the air curtains in the EPBD

Coffee break

Join us in the foyer

See you again in 30 minutes!

Agenda



Building Bridges

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Coffee
break

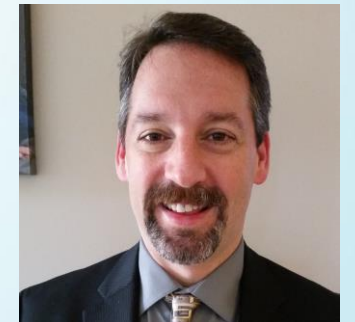
10. Closer cooperation with the AMCA Air Curtain Group

- Speakers:



Mr. Frank Cuaderno (Mars Air Systems) – chairman

- Mr. David Johnson (Berner International)



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12. Next meeting(s)

Coffee
break

11. Modelling and Simulation for Compliance - An Introduction

Guest presentation by UL Solutions

- Speaker: Ms. Heike Thomas, UL Senior Manager, Strategy & Portfolio Innovation



12. Next meeting(s)



#BuildingBridges

2023 CALENDAR

| JANUARY | | | | | | |
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| FEBRUARY | | | | | | |
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| JUNE | | | | | | |
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| JULY | | | | | | |
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| AUGUST | | | | | | |
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| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| SEPTEMBER | | | | | | |
|-----------|----|----|----|----|----|----|
| Su | M | Tu | W | Th | F | Sa |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| OCTOBER | | | | | | |
|---------|----|----|----|----|----|----|
| Su | M | Tu | W | Th | F | Sa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

| NOVEMBER | | | | | | |
|----------|----|----|----|----|----|----|
| Su | M | Tu | W | Th | F | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

| DECEMBER | | | | | | |
|----------|----|----|----|----|----|----|
| Su | M | Tu | W | Th | F | Sa |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

End of meeting

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



EUROVENT **SUMMIT** ANTALYA

25-28 OCT 2022

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