

09:00-18:00 | @ DIVANI CARAVEL HOTEL, ATHENS

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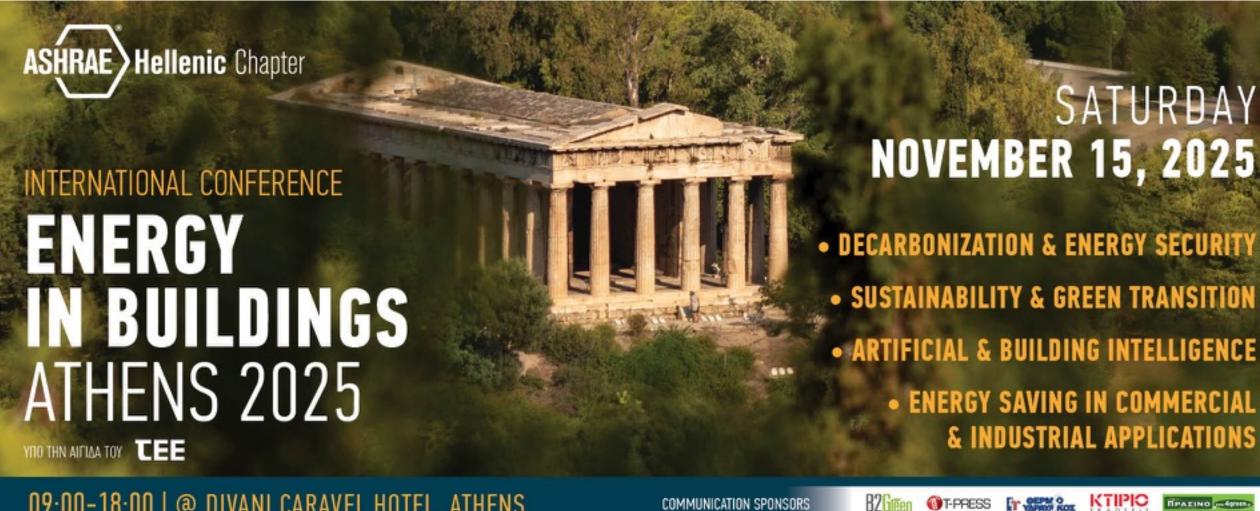












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A fragmented opportunity:

Unlocking the potential of HVAC in Europe's building legislation





Today's content

1) New EU requirements for buildings What are the opportunities for HVAC?



2) Reality of self-inflicted market fragmentation What are the risks for HVAC?

3) Your role in optimising HVAC opportunities

How can the HVAC sector cover for a lack of market harmonisation?

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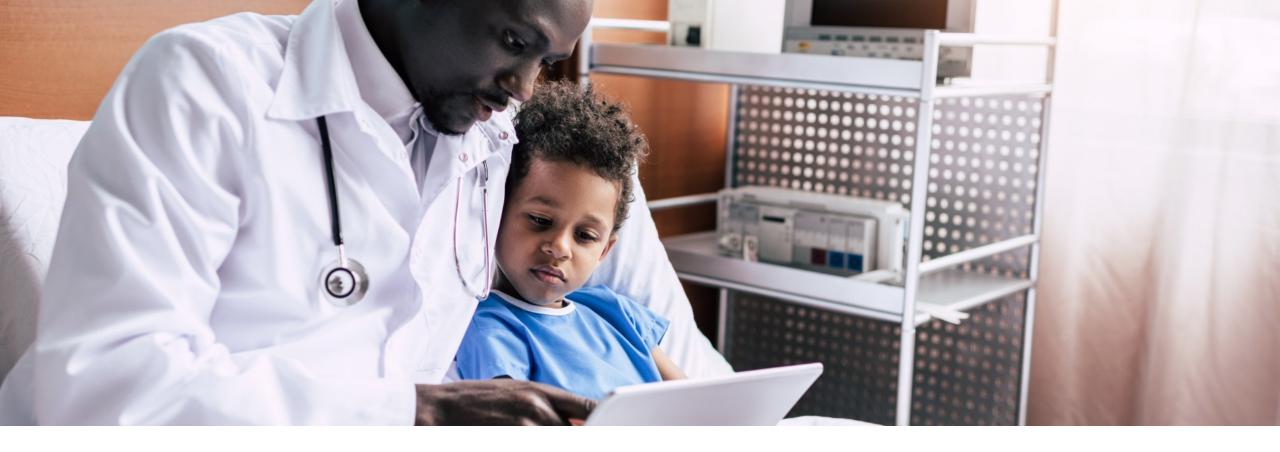
3) Your role in optimising HVAC opportunities
How can the HVAC sector cover for a lack of market harmonisation?

1) EU's Energy Performance of Buildings Directive

Introducing new energy efficiency limits & mandatory IAQ standards







Consequences of bad IAQ?



Sickness → 150,000/y premature deaths



Absence & Productivity → € 260 B/y GDP loss



Energy → up to 26 % savings unutilised



Continued focus on sustainability of buildings

New EU Energy Performance of Buildings Directive 2024/1275 (EPBD)

- > Introducing Renovation Passports
- National Building Renovation Plans (NBRPs)
- > Mandatory Smart Readiness Indicator (SRI)
- > Mandatory Environmental Product Declarations (EPDs)
- > Member State implementation deadline: 29 May 2026



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EPBD's new tools for building sustainability

NBRP	SRI	EPD
> What: comprehensive plan by each Member State outlining its plan to decarbonise and renovate its building stock	 What: metric for a building's potential to be equipped with smart technologies: optimising energy efficiency adapting to occupant needs demand/response with grid 	> What: document verifying a product's Life Cycle Assessment (LCA) in accordance with EN 15978 (and ISO 14000-series and EN 15804 for HVAC)
> How : policies, investments, with milestones in 2030, 2040, and 2050	> How: separate SRI regulation on non-residential buildings (rated output HVAC >290 kW)	> How : standards on calculating LCA expressed as kgCO ₂ eq/m ² for a reference period of 50 yrs
 When & deadline: - 31 Dec 2025 for draft versions - 31 Dec 2026 for final NBRP 	> When & deadline: - 30 Jun 2027	 When & deadline: only applying to new buildings 1 Jan 2028: >1000 m² 1 Jan 2030: all new buildings



... with comfort, health, and wellbeing

New in EPBD: mandatory Indoor Environmental Quality (IEQ):

- > Member States must ensure adequate IEQ standards for healthy indoor climate
- > EPCs must include recommendations for optimal IEQ
- > BACS must have minimum IEQ functions:
 - >290 kW buildings from 2024 and >70 kW buildings from 2029
- > SRI with focus on IEQ: mandatory from 30 September 2029

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Does that mean we have **Healthy Building** now?

Several pitfalls must first be overcome to reach the potential of HVAC

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Internal division: worse than tariffs

Europe is faced with a need for increased competitiveness, economic & geopolitical challenges, and an energy & environmental transition

- > EU's Apr 2024 Letta Report: we need a true Single Market for growth
- > EU's Sep 2024 Draghi Report: different admin burdens are too high
- > IMF's Oct 2024 EU assessment: internal market fragmentation costs are equal to 44 % tariff on goods and 110 % on services

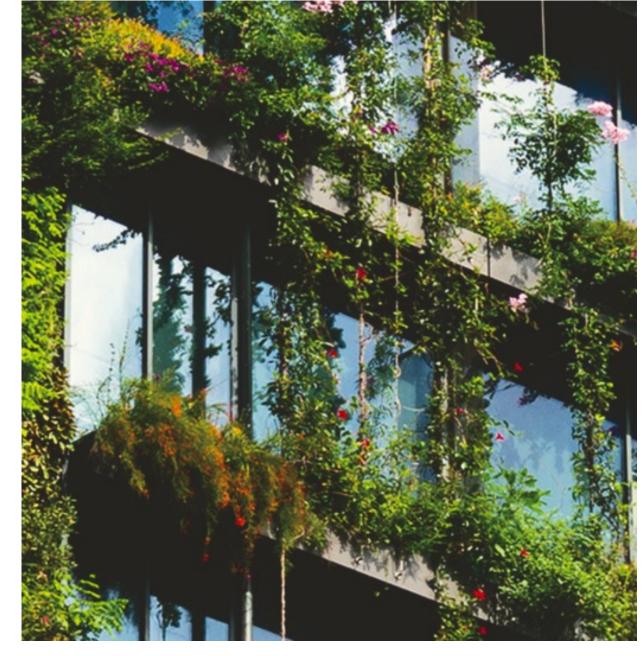
And Europe risks fragmenting the EPBD's opportunities as well...



Responsibility of EU's Member States

- > Transposition deadline29 May 2026
- > This includes IAQ measures
- > For EPDs, deadline is 1 Jan 2028

Will Member States do it right?



IEQ: what even is it?



'indoor environmental quality' means the result of an assessment of the conditions inside a building that influence the health and wellbeing of its occupants, based upon parameters such as those relating to the temperature, humidity, ventilation rate and presence of contaminants.



- What kind of assessment?
- Influence how?
- Which parameters?
- 'Such as' is non-exhaustive?



Everything is so vague: are Member States good with that?

This is tricky: opportunities for some (such as lighting and **ventilation**), but also, a possible cause of deviation between Member States



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IEQ: 27 different EU requirements?

Member States now must decide on:

- Which 'adequate IEQ standards'?
- What is a 'healthy indoor climate'?
- What recommendations in EPCs?

- For the first time ever, the EPBD sets mandatory IEQ requirements: Member States obliged to ensure adequate IEQ standards for a
- EPCs must include recommendations for optimal IEQ BACS must have minimum IEQ functions: >290 kW buildings from 2024 and >70 kW buildings from 2029
- SRI with focus on IEQ: mandatory from 30 September 2029

Risk of further market fragmentation, slowing down IEQ uptake!

- BACS: focus on non-residential, and what are 'minimum functions'?
- SRI: potential for IEQ but with many uncertainties

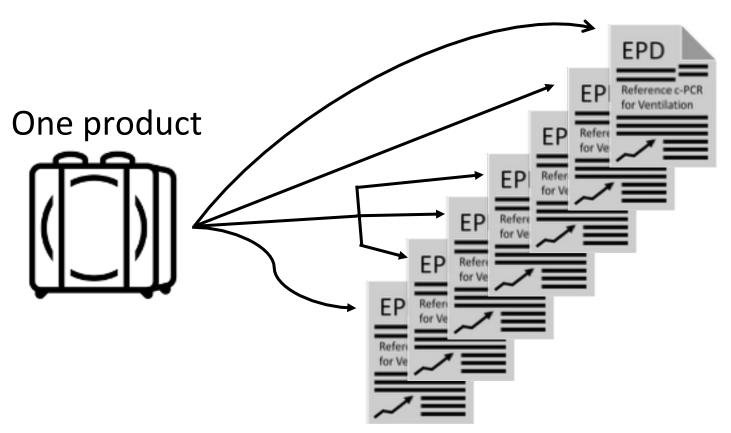
Note: EU Commission's FAQ (C/2025/4143) provides guidelines of possible IAQ measures, but no clear harmonisation of instructions on how to align Member State legislation



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EPDs: missing level playing field in Europe

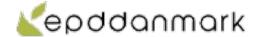
Different EPDs for Member State, region, etc.



















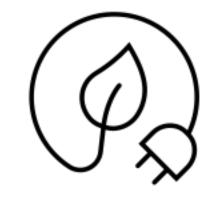


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Existing tools ensuring EPBD compliance

Two widely existing tools independently assessing HVAC performance in buildings: Passive House Institute (PHI) and Eurovent Certified Performance (ECP)

	PHI	Eurovent
> Focus	Component in Passive House Planning Package (PHPP) for Passivhaus buildings	Independent product performance and data verification: compliance with rules
> Frequency & process	Once: assess performance via PHPP	Every 2 yrs, incl. factory audits
> Range certification	No: manufacturers choose models	Yes: all models in range must be certified within 3 yrs
> EN 13141-7:2021	Used to calculate building's energy use	Used to assess alignment with EU Ecodesign legislation
> Legislative assessment	Supports PHI building standard	Assesses compliance with EU Ecodesign and EPBD requirements
> Application	Ideal for use in PHI-certified buildings	HVAC used in all residential and non- residential applications



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Fostering a healthier world through a

Model Indoor Environmental Quality

regulation aligning with new provisions of the 2024 EPBD recast

common IAQ understanding

Need for a harmonised application of IAQ to foster level playing field and competition

1) Eurovent Recommendation on IAQ

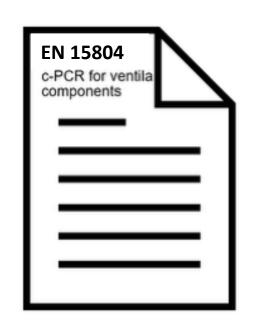
Simple metric based on CO₂ and airflow (based on EN 16798-1)

Level	CO ₂ concentration	Min. outdoor airflow per person
Recommended	< 900 ppm	> 36 m³/h (10 l/s)
Acceptable**	900-1200 ppm	25-36 m³/h (7-10 l/s)
Poor	> 1200 ppm	< 25 m³/h (7 l/s)



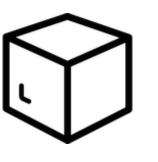


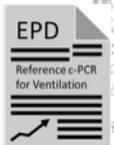
Supporting a European approach for EPDs



One product







Valid across Europe

Reminder: mandatory EPDs as of 1 Jan 2028



Together, we can make IAQ and sustainability a reality

> Eurovent Certified Performance and PHI: Established assessments of compliance with EPBD requirements

- > Eurovent and REHVA: Sector consensus on IAQ application
- > CEN/TC156 WG26 (EN 15804): Efforts to **standardise cPCRs for EPDs in Europe**



Q&A





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