Heat Pump KEYMARK: Your only certification scheme for compliance in Europe







Welcome & introduction to EHPA

Danaé Kokkalis Communication Officer (EHPA)







⁽ⁱ⁾ Where are you connecting from?



Agenda

Time	Торіс	Speaker
10:00-10:05	Welcome & Introduction of EHPA	Danaé Kokkalis (EHPA)
10:05-10:25	Introduction to HPK & certification process	Tarik Bellahcene (EHPA)
10:25-10:45	Testing labs: always ready to take over the challenge	Ivan Malenkovic (Fraunhofer ISE)
10:45-11:00	Break	
11:00-11:20	How is Heat Pump KEYMARK linked to Ecodesign and other EU regulations?	Mélanie Auvray (EHPA)
11:20-11:40	The voice of the manufacturer: Benefits and challenges of being certified	Laurent Bénédit (Groupe Atlantic)
11:40-12:00	Q&A session	

Housekeeping rules



A Recording and transcription have started. Let everyone know they're being recorded and transcribed. Privacy policy

Ask your questions in the chat. Don't forget to mention the name of the speaker you would like to address your question to.



Dismiss





Introduction to EHPA





Our vision

In a fully decarbonised Europe, heat pump technologies are the number one heating and cooling solution, and a core enabler for a renewable, sustainable and smart energy system.

Our mission

EHPA is a forward-looking association aiming at putting heat pumps at the centre of the energy system by communicating the benefits of heat pumps, providing relevant information and being a reference point and integrator to all stakeholders.



≈ehpa.

Policy Department

EHPA is the voice of the heat pump sector in the European Union and advocates to raise awareness and create a market. environment that facilitates a faster deployment of heat pumps. to unleash their benefits on a European level. Policy work is naturally at the cornerstone of EHPA's activities.







For more details send us an email policy@ehpa.org

Heat Pump Keymark

The Heat Pump KEYMARK is a voluntary European certification mark (ISO type 5 certification) for all heat pumps, combination heat pumps and hot water heaters. The scheme is owned by the European Committee of Standardization (CEN) and is executed by empowered certification bodies across Europe.









secretariat/Dheatpumpkeymark.com

Our Projects

EHPA is actively involved in several European Funded projects that are part of the H2020, Interreg and Tender programmes, with excellent projects able to apply for the annual Heat Pump Award:

SinHorizor	
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HPSALL

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1888

SunHorizon Coupling Solar PV with Heat Pump Technology

RHC Platform

MultisectorinnovationonRenewable Heating and Cooling

REWARDHeat

Innovating the district heating and cooling sector by developing new technologies and enabling the exploitation of a urban available and sustainable fuel mix

HP4All Heat Pumps Skills for NZEB construction

Tender Overview of Heating and Cooling. Perceptions, Markets and Regulatory Frameworks for Decarbonisation

SuperHomes2030 Up-scaling integrated deep renovation home services for Ireland

Heat Pump Award hpa Technology gets recognised







Where innovative Heat Pump





 \bowtie

These projects have received funding from the European Union integen 2020 research and immediate programme under grant agreements for \$52811 (REMARD-Kolt No. #50912 Superformacion), for #7175 E-PRAID 16. Division (N. C. Pharform): No. 8181278 (Survivorment)

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Introduction to HPK & certification process

Tarik Bellahcene Head of Heat Pump KEYMARK Secretariat (EHPA)







heat pump KEYMARK

Heat Pump KEYMARK

Your only Certification Scheme for Compliance in Europe

Tarik Bellahcene Head of Heat Pump KEYMARK Secretariat Webinar, October 2023







Agenda

- Introduction to KEYMARK
- KEYMARK for Heat Pumps Certification : Key players & Data
- Heat Pumps KEYMARK Certification Process Scheme Recognition
- Heat Pumps KEYMARK Database and Communication
- Heat Pumps KEYMARK Benefits





Introduction to KEYMARK



Introduction to KEYMARK



- The KEYMARK is a voluntary European quality mark for products and services. It is owned by the European standardization organizations CEN and CENELEC
- The KEYMARK quality mark is granted by following a certification process that demonstrates compliance with European Standards and Ecodesign requirements
- The KEYMARK quality mark is issued by empowered certification bodies



KEYMARK quality mark for various types of products



• As a rule, the KEYMARK can be issued for all products and services, that are subject to a European Standard (EN)

• KEYMARK quality mark cover various sectors such solar thermal products, thermal insulation materials, thermostatic radiator valves, ceramic tiles, heat pumps or fire extinguishers





KEYMARK for Heat Pumps

KEYMARK for Heat pumps – Scope



The scope of this KEYMARK scheme encompasses a large variety of heat pumps. This includes:

- Heat pump space heaters providing heat to water-based central heating systems for space heating purposes, with heating capacities up to 400 kW
- Heat pump combination heaters providing heat to water-based central heating systems for space heating purposes and heat to deliver DHW, with heating capacities up to 400 kW
- Heat pump water heaters, which are dedicated to providing DHW, with heating capacities up to 400 kW
- Air/air heat pumps up to 12 kW cooling capacity (or heating capacity for air/air heating only products)



KEYMARK quality mark for Heat pumps - Stakeholders

• The European KEYMARK Certification Scheme and rules for heat pumps were developed by:

- Heat Pump Scheme Group (HPSG)
- Heat Pump Steering Committee (HPSC)
- Heat Pump KEYMARK Secretariat run by European Heat Pump Association (EHPA)
- Involving directly the following stakeholders and interested parties:
 - Manufacturers
 - \circ Testing Laboratories
 - \circ Certification Bodies
 - European Heat Pump Association
- With support and supervision of KEYMARK Management Organisation (KMO) on behalf of CEN









KEYMARK for Heat Pumps – Secretariat Role



KEYMARK RECOGNITION IN ALL MEMBER STATES ESTABLISHED BRAND AWARNESS AND NEW PARTICIPATING BODIES

reat pump KEYMARK IMPROVED DATABASE EXPERIENCE AND IMPROVED INTERACTION WITH EHPA QL DB



KEYMARK for Heat pumps – Verified by a Third Party



- Certification Bodies are accredited for the relevant European standards on the basis of ISO/IEC 17065. CBs are empowered by the Keymark Management Organization (KMO)
- Laboratories having an ISO 17025 accreditation for one or more of the relevant standards and test methods as defined and used in HP KEYMARK and recognized by a certification body



KEYMARK for Heat Pumps - Certification Decision

The KEYMARK quality mark for Heat Pumps remains a strong quality reference for the heat pumps industry

The KEYMARK certification scheme is maintained by



30

HP KEYMARK Certification Bodies

10







KEYMARK for Heat pumps - Certification Bodies







KEYMARK for Heat Pumps - Steady growth

New certificates - 2016-2022





294 new certificates in first semester 2023



KEYMARK for Heat Pumps – Certification Bodies Repartition







KEYMARK quality mark for Heat Pumps Certification Process Scheme Recognition

KEYMARK for Heat pumps - Certification process





- **1.** Application: manufacturers or distributors contact one of the empowered certification bodies of their choice
- 2. Factory inspection and product sampling by an authorized inspector
- 3. Testing of the sampled units by an authorized testing institute chosen by the manufacturer among the ones recognized by the certification body
- **4.** Conformity assessment of all the reports and documents by the certification body
- 5. Annual monitoring



KEYMARK for Heat pumps - Database entry by the manufacturer

The applicant declares the values of the heat pumps in the heat pump KEYMARK database and submit the entries to the certification body for the review.



tome / HP KEYMARK - Manufacturers

HP KEYMARK - Manufacturers

Calendar	Dashboard	New Subtype		
HP KEYMARK - Manufacturers	Downloads	Instructions		
HP KEYMARK – Certification bodies Certificate holders	Listing for Subtype	anced Search		
	Subtype title		Submitting Date	Status
	Happy DIN CERTCO Heat pumps			Data Entry
	heat pump 0815			Data Entry
	test			Data Entry
	Test 1			Data Entry
	test copy			Data Entry



KEYMARK Heat pumps – Extension of KEYMARK certificates (OBL)*

Heat Pump KEYMARK Scheme contains rules for extending HP-KEYMARK certificates to products sold under different brand or/and model name.

The knowledge and following of these rules by the involved parties (manufacturers, testing laboratories, inspection bodies and certification bodies CB) ensures a harmonised procedure

*OBL : Own Brand Labelling

For further details please refer to Heat Pump KEYMARK Scheme Rules (https://keymark.eu/en/products/heatpumps/documents)



KEYMARK for Heat Pumps - Scheme recognition at EU level

EUROPEAN RECOGNITION A single certificate for a single EU market	QUALITY OF PRODUCTS Third-party testing based test points from Ecodesign	
OPEN TO ALL INTERESTED PARTIES and mutually accepted by all participating certification bodies	CONTINUOUS DEVELOPMENT OF THE SCHEME according to the industry needs and flexible approach	



HP KEYMARK is fully recognised

HP KEYMARK recognised - EHPA Quality Label required

No certification is required

HP KEYMARK recognition in progress





KEYMARK quality mark for Heat Pumps Database - Communication



Home > Products > Heat Pumps > Heat Pump KEYMARK

Heat Pump KEYMARK

Why heat pumps?

Where is Heat Pump KEYMARK Recognized?

How to apply



Testing and Certification

Heat Pumps

A Single Certificate for a Single European Market

The Heat Pump KEYMARK is a voluntary, independent European certification mark (ISO type 5 certification) for all heat pumps, combination heat pumps and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013)



FaceBate	
English	is a is
	¥ ¥ 🖉
	Advanced Search
Number of subtypes	1052
Number of models	4363
Certificate Holders	
Advantix S.p.A.	
AERMEC S.p.A.	
Airwell Residential S.A.S.	
ait-deutschland GmbH	
Argoclima S.p.A	
Ariston Thermo Group	
August Brötje GmbH	
BAXI Climatización S.L.U	
BAXI Heating UK Limited	
BAXI Potterton Myson	
BAXI S.p.A.	
BDR THERMEA FR (BRÖTJE)	
BDR Thermea FR (CHAPPEE)	5
BDR Thermea FR (DE DIETRICH)	
BDR Thermea FR (OERTLI)	
BDR THERMEA FR (REMEHA)	
Bosch Termotecnologia S.A.	
Bosch Thermotechnik GmbH	

Home / Certificate holders

Certificate holders

Calendar Addresses Secretariat Manufacturers

Certification bodies Certificate holders



English

SUBTYPE

ECOAIR 1-9 PRO

	Ecoforest Geotermia S.L.	
o	Rúa das Pontes, 25	
Certificate Holder	36350 Nigrán (Pontevedra)	
	Spain	
Reg. No.	011-1W0469	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH	
Subtype title	ecoAIR 1-9 PRO	
Driving energy	Electricity	
Heat Pump Type	Outdoor Air/Water	
Refrigerant	R290	
Mass of Refrigerant	0,850 kg	
Certification Date	03.06.2021	
Testing basis	HP KEYMARK certification scheme rules rev. 8	

Generate PDF Export model CSV

Number of models

MODELS

ecoAIR 1-9 PRO

0

\$



EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.20 kW	4.10 kW	
El input	0.84 kW	1.30 kW	
СОР	4.98	3.15	



EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

CEN heat pump KEYMARK

E

Page 3 of 8 This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	0 dB(A)	0 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825			
	Low temperature	Medium temperature	
ls	218 %	171 %	
21 - 201128			
Heat Pump KEYMARK – Communication strategy



- Social media campaigns: LinkedIn & Twitter
- Events participation (Mostra, ISH, Chillventa, InterClima, HP Summit,...)
- Articles and press releases
- Member engagement
- Advertising campaigns









KEYMARK quality mark for Heat Pumps Benefits

KEYMARK for Heat pumps – Benefits



- A Third-party certification aids the purchasing decision and gives the consumers confidence that they have bought a quality product
- The recognized KEYMARK quality mark can be used to have access to public subsidies in majority of the European countries
- The scheme is open to all interested parties and details of certificate holders and certified products are publicly visible



Any questions?



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Testing labs: always ready to take over the challenge

DI Ivan Malenković Head of Team Test Lab Heat Pumps and Chillers (Fraunhofer Institute for Solar Energy Systems ISE)











Testing labs: always ready to take over the challenge

Ivan Malenković
EHPA HP Keymark Webinar
October 10th 2022

October 10th, 2023

www.ise.fraunhofer.de

Agenda

- 1. Requirements for an accredited laboratory within the HP Keymark scheme
- 2. What does it mean to be an accredited laboratory according to ISO 17025?
- 3. Testing heat pumps according to standards: multitude of possibilities
- 4. Examples of common challenges when testing a heat pump

Requirements for HP Keymark test labs

- Accreditation according to ISO/IEC 17025 for relevant standards
- Positive assessment of one or more empowered certification bodies and signed contracts between the laboratory and the body or bodies
- All recognised testing laboratories must actively participate in the HP Keymark Scheme Group and in relevant network meetings
- Upon request from the HP Keymark Steering Committee, a laboratory has to perform a robin test with another recognised laboratory
- All requirements are stated in Annex H of the HP Keymark Regulation



Accreditation according to ISO/IEC 17025

- General requirements for the competence of testing and calibration laboratories
- Implemented and documented quality management system
- Clear processes following the relevant standards, with traceable changes
- Periodical audits dedicated to specific technical and organisational issues
- Document workflow system including complaints - ensures traceability of all results and processes



HP Keymark: Scope of testing

- Steady-state heating/cooling capacity and COP/EER at standard rating conditions according to EN 14511, EN 15879-1 for E/W and EN 12309 and EN 16905 for GHP
- Steady state heating/cooling capacity and COP/EER at the bivalent point, and one more condition, according to EN 14825 and EN 12309 and EN 16905 for GHP
- Performance parameters for DHW according to EN 16147, EN 13203-5 for Hybrids, EN 14511 for CO₂ DHW heat pumps and EN 13203-6 for GHP
- Sound power level test according to EN 12102-1 and -2
- Operating tests according to EN 14511-4 (no requirement for GHP)
- NO_x emissions according to an appropriate standard (GHP only)

Heat pump standards

Standard	No. pages	Versions
EN 14511 (Parts 1-4)	136	2007, 2013, 2018, 2022
EN 15879-1	28	2011
EN 14825	136	2013, 2016, 2022
EN 16147	50	2011, 2017, 2022
EN 12102 (Parts 1,2)	82	2013, 2017, 2019, 2022
EN 13203-5	40	2018, 2022
EN 12309 (Parts 1-7)	~500	2000, 2014, 2022
EN 13203-6	35	2018, 2022
EN 16905 (Parts 1-5)	268	2017, 2020, 2023
	1275	



Main performance test and evaluation procedures



A large variety of product types and capacity control covered by

standards

Products under test and test methods

- Controllers are getting ever more complex; special equipment, software and support from the manufacturer needed
- Different control strategies, some of which are not explicitly covered by the standards
- New technologies such as hybrid heat pumps
- New appliance configurations
- Standards are being updated / changed often
- New test methods under development

Capacity / COP Measurements



Sound power measurements



- The sound power level of heat pumps is decreasing
- This can impose considerable challenge on testing facilities, especially regarding indoor units
- An increasing number of appliances is equipped with an indoor unit consisting only of a circulating pump, controls, valves and piping

Hybrid heat pumps



- Despite a joint control system, in some products an access to the boiler and/or heat pump controller is needed
- The operation characteristics in bivalent temperature range is often influenced by a variety of parameters
- Depending on the design and declared capacity, the heat pump might operate in on-off mode
- Additional effort for installation, operation and evaluation

Load-based testing



- A new "load-based" test procedure is currently being discussed
- Unlike current testing procedure, it does not exclude appliance's own controls
- In order to establish comparability between test facilities, a building load needs to be specified
- A higher level of test stand automatisation is needed



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de



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Coffee break

see you in 10 minutes





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How is Heat Pump KEYMARK linked to Ecodesign and other EU regulations?

Mélanie Auvray Policy Manager (EHPA)







How is Heat Pump KEYMARK linked to Ecodesign and other EU regulations?

Mélanie Auvray, Brussel, 10 October 2023



Ecodesign & Energy Label









What are Eco-design & Energy Labelling? The context

Eco-design

The **EU legislation on Eco-design** is an effective tool for **improving the environmental performance of products by setting mandatory minimum standards** for their energy efficiency.

This eliminates the least performing products from the market, significantly contributing to the EU's energy and climate targets.

Ecodesign also **supports industrial competitiveness** and **innovation** by promoting better environmental performance of products throughout the internal market.

With a comparative scale from A (most efficient) to G (least efficient) the EU energy label has been a key driver for helping consumers choose products which are more energy efficient. At the same time, it also encourages manufacturers to drive innovation by using more energy efficient technologies.

Energy labelling

Consumers can find detailed information about energy labelled products and models in EPREL. It offers the possibility to identify which products have the best costefficiency ratio for a specific need.

Current label*

YZ

YZ dB

YZ dB

YZ YZ 1.11

IV

Draft updated label**





* For heat pump space heaters (Regulation 811/2013) except low-temperature heat pumps, in seasonal space heating energy efficiency classes A** to G

** Electric heat pump space heaters (draft delegated regulation 2023) thermally driven heat pump space heaters, hybrid space heaters

How does Ecodesign & Energy Labelling work?



Energy-related Products



Ecodesign Regulations & Heat Pumps



Lot 1

Regulation (EU) No. 813/2013 implementing Directive 2009/125/EC with regard to Ecodesign requirements for **space heaters** and **combination heaters**.



Regulation (EU) No. 814/2013 implementing Directive 2009/125/EC with regard to Ecodesign requirements for **water heaters** and **hot water tanks**.



Regulation (EU) No. 206/2012 implementing Directive 2009/125/EC with regard to ecodesign requirements for **air conditioners** and **comfort fans**

What kind of requirements?

ECODESIGN

- Minimum energy efficiency requirements
- Maximum sound power requirements
- Information requirements
- Material Efficiency requirements

ENERGY LABELLING

- Energy Label
- EPREL





'CE' marking & Declaration of conformity

The 'CE' marking: products placed on the market meet high safety, heath and environmental protection requirements. (Including Ecodesign directive)

The manufacturers are responsible to:

- carry out the conformity assessment,
- set up the technical file,
- issue the EU declaration of conformity,
- affix the marking to the product.

The EC declaration of conformity shall contain:

- Name & address of the manufacturer,
- Description of the model,
- Reference of the harmonised standards,
- Other technical standards,
- Reference of other Community legislation providing CE mark,
- Identification and signature of the person





Conformity assessment & Heat Pumps

Lot 1 on space heaters (Regulation 813/2013)

- The conformity assessment procedure shall be the internal design control (Module A)
- The manufacturers establish the product fiche and verify that the products respect all requirements from the Regulation.
- Market surveillance authorities may verify that the product respect the requirements.



Ecodesign & Heat Pump Keymark

Independent 3rd Party Certification

- A **voluntary certification** mark that supports the quality and performance of heat pumps.
- The certification is based on **independent third-party testing** and is compliant with efficiency requirements as set by Ecodesign Lot 1, 2 and 10.
- The quality mark can be used for access to public subsidies in most European countries while creating trust in the marketplace.





Outlook – Ecodesign Review



Impact Assessment / Consultation Space and Water Heaters

Welcome

Study

Documents

Mailing list

Contact

Review Study Space/Combination heaters 2017-2019

Review Study Water Heaters 2017-2019



Commission

This website is dedicated to the follow-up of the review studies for Ecodesign and Labelling regulations for space and water heaters, that were finalised in June 2019.

The aim of this follow-up project is to provide technical support to the European Commission, providing inputs to Working Documents for the revision of the following regulations:

- Space/combination heaters: Commission Regulation (EU) No 813/2013 and Commission Delegated Regulation (EU) No 811/2013
- Water heaters: Commission Regulation (EU) No 814/2013 and Commission Delegated Regulation (EU) No 812/2013

The project is carried out by VHK, for the European Commission, DG Energy. The project has started at the end of October 2019 and will be finalised by November 2021.

- "Study" presents the project structure, Working Groups topics and meeting schedule in more detail.
- "Documents" contains the latest documents available.
- "Mailing List" offers subscription to our mailing list so you can be informed on study updates.

What's new?

Welcome

Date	Subject
29 July 2021	Multiple stakeholders positions/opinions/comments for WG 1-2-3-4 available for download
2 Mar, 16 Apr, 10 May	Multiple stakeholders positions/opinions/comments for WG 1-2-3 available for
2021	download





Review of Lot 1 for space heaters





Draft proposal – still in discussion with the European Commission
Review of Lot 1 for space heaters

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Part 1: Alternative TPCA module options

Taking account of testing costs and considering private certification is in general enough to increase trust in data:

- Module A2 (supervised testing) + accredited lab (independent or company)
- Limited number of test points (+ adapted conformity rules based on these tests), e.g. 2 instead of 5 or 7 would save 60% on testing costs
- Model random checking procedure, tests every X% of all models, X to be adjusted
- Timing: later mandatory introduction (2029?)



Keymark – key role in the fast roll out of heat pump

RePowerEU and cut our dependence on Russian gas



#EUGreenDeal

60 Millions additional hydronic heat pumps **to be sold** in Europe by 2030



EU Project: ComplianceServices





Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor CINEA can be held responsible for them



EU Project: ComplianceServices Concrete outcomes of the Project



A **web-portal** providing the hub for a **self-service platform and a help desk having the aim of** supporting clarification issues of stakeholders in collaboration with the EC.

The portal will have appropriate **sections for the hosting of tools and services** according to the different product groups and target groups.

Tools will include **guidelines**, **FAQs**, **fact sheets concerning EPREL** and related standards for product groups

The focus of the work will be on key technologies of the current Eco-design and labelling working plan of the EC including **heating & cooling technologies, PV** and **selected white goods.**





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Thank you!

Mélanie Auvray melanie.auvray@ehpa.org

@helloheatpumps







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The voice of the manufacturer: Benefits and challenges of being certified

Laurent Bénédit Regulatory Monitoring Manager (Groupe Atlantique)









The voice of the manufacturer

Benefits and challenges of being certified



October, The 10th

Laurent Bénédit, Regulatory Monitoring Manager at Groupe Atlantic

Facts and figures



Groupe ATLANTIC =

- european leader in HVAC sector
- industrial committed to the low-carbon transition
- □ 1968 : Creation in France (Vendée)
- □ 22 brands

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- □ 3.2 billion € turnover in 2022
- 25 internal laboratories
- □ 31 factories (including 13 in France)
- □ 21 training centers (including 10 in France)
- □ 10 million products manufactured each year
- □ 13,000 employees worldwide (including 8400 in France)
- □ 1600 recruitments planned in 2023 (including 1000 in France)

□ In 2022 :

- □ 30% of turnover comes from the heat pump activity
- □ 16,5% of turnover comes from the air/water heat pump activity
- □ For 2030, we aim 50% of turnover coming from the heat pump activity

Why Groupe ATLANTIC is a stakeholder in Heat Pump Keymark ? ATLANTIC



Why a certification for air/water HP ?

- Guarantee the quality of our products
- Promote their performance
- European certification :
 - Prove that our products meet the precise criteria covered by Ecodesign Lot 1, so create trust in the market place
 - Open up new markets within Europe, as soon as the concerned Member State recognizes the european certification at national level

Why Groupe ATLANTIC is a stakeholder in Heat Pump Keymark ? ATLANTIC



Why Heat Pump Keymark (1/2) ?

- Scope of the scheme fully in line with our market
- Aim = a single certificate for all european member states
- A single certificate focused on energy efficiency and sound power level available on-line for all interested parties
- Using test points from Ecodesign

Why Groupe ATLANTIC is a stakeholder in Heat Pump Keymark ? ATLANTIC



Why Heat Pump Keymark (2/2) ?

- Based on independent third party testing
- Certificates granted by independent Certification Bodies
- Mutually accepted by all participating Certification Bodies
- Factory production control (FPC) with physical visits
- HP Keymark scheme is owned by the CEN
- A balanced mode of governance

Which detailed content for the certification Heat Pump Keymark ?

The basis = European Keymark Scheme rules for Heat Pumps

- For space heating :
 - Sound power level indoor/outdoor :
 - Space heating energy efficiency Etas :
 - Bivalent temperature Tbiv :
 - Operation limit temperature TOL :
 - Space heating test according to EN 14511-2 : calculation
 - Psb according to EN 14825 : calculation

Create matrix performance of space heating HP by using certified data from HP Keymark certificates and by following national rules



National EPBD



Validity for the certificate : 10 years

Which detailed content for the certification Heat Pump Keymark ? ATLANTIC

The basis = European Keymark Scheme rules for Heat Pumps

- For water heating :
 - Water heating energy efficiency Etawh : Eta Sign requirements
 - Water heating test according to EN 16147 : Solution National EPBD calculation COP, Heating up time, Standby power input, Reference hot water
 - Create matrix performance of water heating HP by using certified data from HP Keymark certificates and by following national rules

Certified data from HP Keymark Certificate	IdCET : de la NF 16147 à la RT2012 et à l RE2020 Cutil d'identification pour l'eau chaude sanitaire thermodynamicae		Notherlands	HPKEYMARK.DHW data for reforencing in NTA 8800_2022 Recipiter.LeCK0 and the Dudit NP association Author: LecK6 and the Dudit NP association Unesise 1.8 Other Vessise 1.8 Other				
	Informations sur le CET	Résultats de calcul	<u>Certified data</u> <u>for</u>		This descented lists the performance data noticed is perform the M3X MEDD DNC solutions. In the tables, "We react and the data can be found in the HP KNAWK conflictents. Some of the performance requested by PAX 8000 are equal for the rei KNAWK conflictents scheme in the over, other central performances is salt encoded lived in performance the calculation (or ent central performances schellt be performance) by the application.			
	Volume die ballen ()): 190 Température d'eau chaoté de référence (*C) 55	194 UA_S: 428			The decompositions of each the head parents and priority priority priority and the head parent using a instance of exhaut a few the veneficiant and another are a would suggest that are regions as follow: Performance according to EN16147			
	Type da source de chalum: 14/C sur ar extensor - a l'hétenan v Etape C : Durée de chauftage (hinnim) (Cri-45) Etape D : Puisance deschape mesurée étape D/W), 45 Etape E : Cycle dr puisage Cycle L v Coefficient de performance (COP DHW): 3.1	Pabs Plvot : 005 Calcul effectué tast_1ami			NTA designation Teams Fromp Teams Teams Teams Other require For types car	Description Description Desperation rearry performance Desperation reactions for legislandia and the factors accurrence for legislandia and the second second second during the tool Second second second second during the second second second during the second second second during the second	Available in HPICEYMAAVS CREDTrate OE OE NO NO NO NO NO NO NO	Cash take confident Effortency ton Freey conseconded to the encourse food unite Freey 403 Effortence for the second cost of consecond to the second cost of cost



Who is involded in Heat Pump Keymark within Groupe ATLANTIC ? ATLANTIC

R&D department – Production Plants



- Testing, Assessment and Certification
- As manufacturer, we have to maintain a product-related Factory Production Control (FPC) based on EN ISO 9001

Meetings of the Testing Laboratories and Inspectors Peer Group

- Participation as registered testing laboratory for Heat Pumps Contact : Anne-Laure Simon
- Contract with Empowered Certification Body : RISE, SE

Prescription department

HP Keymark certificates used for internal database BART

Marketing department

HP Keymark certificates used for catalogue, brochure, fair exhibition, .





ATLANTIC

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Meetings of the HPSC

Meetings of the HPSG



How many HP Keymark certificates for Groupe ATLANTIC ?

Currently :

Groupe ATLANTIC

- 163 subtypes including 5 certificates for Brine/Water and Water/Water HP and 158 certificates for Outdoor Air/Water HP
- 301 models

GUILLOT INDUSTRIES SAS - Groupe ATLANTIC

- 6 certificates for Outdoor Air/Water HP
- 6 models

GROUP ATLANTIC ESPAÑA - SOLUCIONES CONFORT TÉRMICO S.A.

- 5 certificates for Outdoor Air/Water HP
- 17 models

□ More or less 10% of the total number of certificates in HP Keymark

Tomorrow :

Possible evolution towards hybrid heat pump certificates as hybrid heat pumps could become a new product category in Ecodesign Regulation





Recognition in all european countries









Thanks for your attention !

Agenda

Time	Торіс	Speaker			
10:00-10:05	Welcome & Introduction of EHPA	Danaé Kokkalis (EHPA)			
10:05-10:25	Introduction to HPK & certification process	Tarik Bellahcene (EHPA)			
10:25-10:45	Testing labs: always ready to take over the challenge	Ivan Malenkovic (Fraunhofer ISE)			
10:45-11:00	Coffee break				
11:00-11:20	How is Heat Pump KEYMARK linked to Ecodesign and other EU regulations?	Mélanie Auvray (EHPA)			
11:20-11:40	The voice of the manufacturer: Benefits and challenges of being certified	Laurent Bénédit (Groupe Atlantic)			
11:40-12:00	Q&A session				

Q & A session

Ask your questions in the chat.

Don't forget to mention the name of the speaker you would like to address your question to.





Heat Pump KEYMARK webinar 10.10.23 feedback form







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Thank you

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heat pump KEYMARK

