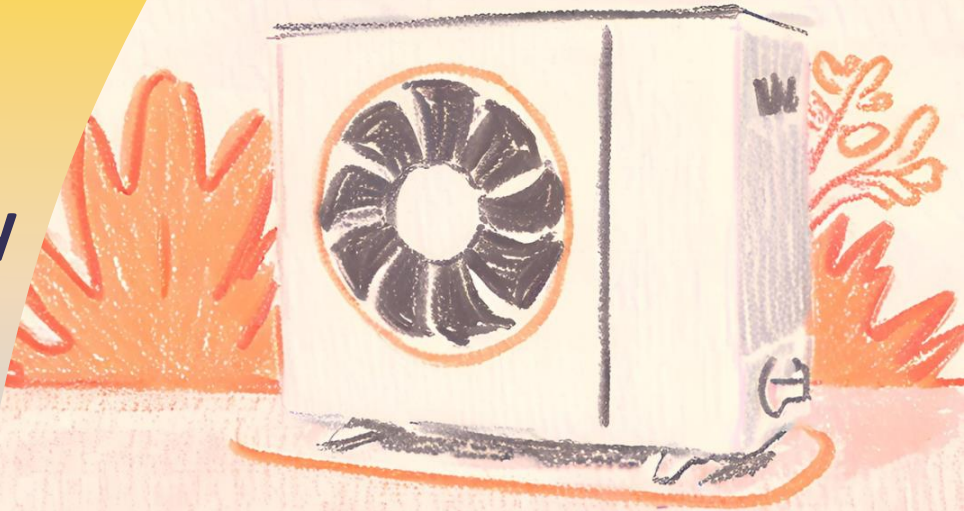
EHPA Quality Label & Heat Pump KEYMARK: a singular complementarity

Common points and differences

24 October 2024



Danaé Kokkalis

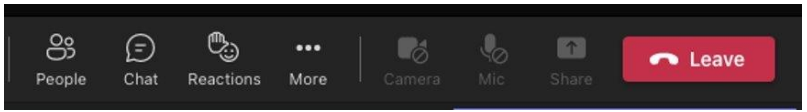
Senior Communication Officer

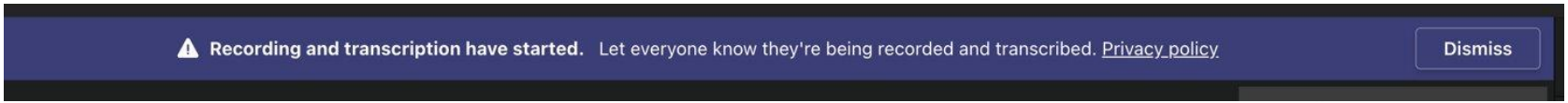
European Heat Pump Association

POLL

Where are you connecting from?

Housekeeping rules





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

Today's agenda

Time	Topic	Speaker
10:00 - 10:10	Welcome & introduction to EHPA	Danaé Kokkalis
10:10 - 10:25	Heat Pump KEYMARK and EHPA QL overview and process	Tarik Bellahcene
10:25 - 10:45	Common points and differences	Tarik Bellahcene
10:45 - 10:55	Break	-
10:55 - 11:20	Performance data – how are the databases interconnected?	André Jacob
11:20 - 11:50	Q&A session	-
11:50 - 12:00	Closing	Danaé Kokkalis

Introduction to EHPA

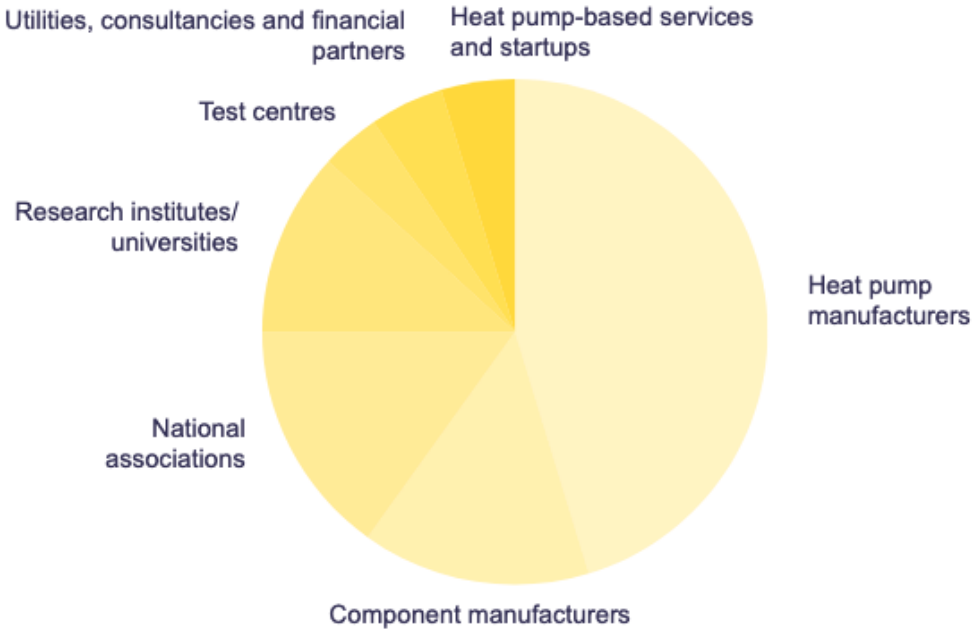
The European Heat Pump Association

Founded in 2000

227 members
representing the entire value chain

- Heat pump and component manufacturers
- National associations
- Testing laboratories
- Utilities, consultancies and financial partners
- Research institutes and universities
- Heat pump-based services and startups

33 countries



The European Heat Pump Association

Policy
EHPA is the voice of the sector in the European Union. It advocates to raise awareness around the technology and create a market environment that facilitates a faster deployment of heat pumps.

Projects
EHPA is actively involved in several European funded projects that are part of the H2020, Interreg and Tender programmes. Excellent projects are able to apply for the annual Heat Pump Award.

Comms & Events
The role of the communication team is to effectively translate the association's work into clear, engaging, and persuasive messages across both online platforms and in-person events.

Heat Pump KEYMARK and Quality Label
EHPA is coordinating the Heat Pump KEYMARK Secretariat. The association also manages the Quality Label programme.

POLL

What category describes you best?

Tarik Bellahcene

Head of the Heat Pump KEYMARK Secretariat

European Heat Pump Association

EHPA Quality Label & Heat Pump KEYMARK: a singular complementarity

Tarik Bellahcene
Head of Heat Pump KEYMARK Secretariat and EHPA Quality Label
Brussels, October 2024

AGENDA

Introduction to Heat Pump KEYMARK (HPK) and EHPA Quality Label (QL)

HPK and QL - Process

HPK and QL - Recognition

HPK and QL - Benefits of the schemes and impact

Introduction to KEYMARK and EHPA Quality Label

• It is owned by the European standardization organizations CEN and CENELEC • First version of HPK Rules is dated back to 2016 • The scheme is still active • The scheme is a voluntary approach	• It is owned by European Heat Pump Association (EHPA AISBL) • First version of EHPA QL is dated back to 1998 • The scheme is still active • The scheme is a voluntary approach

Scheme structure - KEYMARK and EHPA Quality Label

The KEYMARK is based on a certification process that demonstrates compliance to Ecodesign and European Standards KEYMARK can be issued for all products and services, that are subject to a European Standard (EN) KEYMARK quality mark cover sectors such solar thermal products, thermal insulation materials, thermostatic radiator valves, ceramic tiles, **heat pumps** or fire extinguishers	EHPA QL is based on a verification and validation process that demonstrates compliance to Ecodesign and European Standards EHPA QL is dedicated exclusively to heat pumps Additional requirements as requested at country level are discussed to be included in the EHPA QL

Governance - KEYMARK and EHPA Quality Label

	
HPK is developed and managed by: • Heat Pump Scheme Group (HPSG) • Heat Pump Steering Committee (HPSC) • Heat Pump KEYMARK Secretariat run by European Heat Pump Association (EHPA) • HPK is under coordination of the appointed secretariat and supervision of Keymark management organization (KMO) on behalf of CEN	EHPA QL is developed and managed by: • A technical committee referred to as “Quality Label Committee” established by EHPA • A National Quality Label Commission established in order to issue the Quality Label at a country level • EHPA QL Secretariat run by European Heat Pump Association (EHPA)

Scheme type - KEYMARK and EHPA Quality Label

HPK is a third-party certification	QL is a verification scheme
• The certification is delivered by Certification Bodies (CBs) 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 recognized by a certification body • Inspection entities having an ISO 17020 accreditation recognized by a certification body	• On country level, the Quality Label is delivered by respective EHPA QL National Commissions empowered by EHPA QL Committee. • Laboratories having an ISO 17025 accreditation recognized by EHPA QL Committee

Scheme numbers - KEYMARK and EHPA Quality Label

HPK is a third-party certification • The certification can be delivered by the 11 Certification Bodies (CBs) And • Products can be tested by the 29 Laboratories having an ISO 17025 accreditation and recognized by CBs • ISO 17020 accredited inspection bodies recognised by CBs	QL is a verification and validation scheme • On country level, the Quality Label is delivered by EHPA QL National Commission in Austria, Switzerland, Germany and Poland empowered by EHPA QL Committee. • 14 Laboratories having an ISO 17025 accreditation recognized by EHPA QL Committee

Scope - KEYMARK and EHPA Quality Label

heat pump KEYMARK	European Quality Label for Heat Pumps ehpa
• 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), except single duct and double duct units.	QL applies to heat pumps for space heating with or without domestic hot water heating capability, with heat outputs up to 400 kW from air, geothermal or water sources.

Tests - KEYMARK and EHPA Quality Label

Depending on the heat pump type applications, the following tests are required according to EN Standards:	Depending on the heat pump type applications, the following tests are required according to EN Standards:
• Space heating tests	• Space heating tests
• Space cooling tests	• Hot Water tests
• Hot Water tests	• Sound Power level tests
• Sound Power level tests	• Operating tests
• Operating tests	• Product documents
• Product documents	• Customer Service

Certificates number - KEYMARK and EHPA Quality Label

	
Heat Pump KEYMARK (HPK) scheme counts: • 2492 valid certificates • 9574 models	EHPA QL (QL) scheme counts: • 1601 valid certificates • 9430 models

Process - KEYMARK and EHPA Quality Label

• Application: manufacturers or distributors contact one of the empowered certification bodies of their choice • A factory inspection and product sampling will be conducted by an authorised inspector • Testing of the sampled units by an authorised testing laboratory chosen by the manufacturer among the ones recognized by the certification body • Conformity assessment of all the reports and documents by the certification body : Certification decision • Annual monitoring • 10 years certificate validity	• Application documents must be sent to the national Quality Label Commission • The applicant grants the right of access to the test data to the Quality Label Commission • The national Quality Label Commission reviews the documents to check for compliance with the regulations • 12 years certificate validity (with 3-6-9 years intermediary checks)

Recognition and referencing - KEYMARK and EHPA Quality Label

• Unique European scheme managed by CEN • Recognised by EHPA QL • Give direct access to UK market • Give access to French market • Give access to DACH countries via QL • Referenced in Poland for ZUM list	• A must have for DACH countries • Referenced in Poland for ZUM list • Recognised in Czech Republic • High potential scheme to be referenced in other countries for new subsidy schemes to be implemented

Certification benefits both users and businesses

Benefits to Users

- Most importantly, the products and services are safer, true to their advertised claims, and consistently reliable and high-quality
- Easier for end user to compare and contrast products and services
- Indirectly, enhanced competition among products and services which may result in lower prices (for a given quality) and a greater variety of products

Benefits to Businesses

- Higher levels of regulatory compliance and most of all reducing risks
- Businesses may achieve medium-and long-term cost savings through reliance on independent third-party conformity assessment services (despite the upfront cost generated)
- Enabling market entry

POLL

Why are you seeking a certification?

André Jacob

Head of Technology

Bundesverband Wärmepumpe
(German Heat Pump Association)

Heat Pump KEYMARK and EHPA Quality Label

A Database Comparison

André Jacob
Brussels, October 2024

Database Comparison

	Quality Label (QLDB)	HP KEYMARK (HPKDB)
Application	✓	x
Test sample selection	x	x
Data provision by applicant	✓	✓
Document provision	✓	x
Certificate / label generation	✓	x
Data report	x	✓
Advanced search	x	✓
Non-average climate data	x	✓

Database Comparison

- Application
  - QL: Applicants file and submit their application through the database.
  - HPK: Applicants reach out to CBs outside the database prior to adding a new subtype to the database.
- Test sample selection
  - QL and HPK: The details of model testing are handled outside the database.
- Model data provision
  - QL and HPK: The model data is entered into the databases by the applicants. However, the data asked for is different.
  - Data can be imported to the QLDB directly from the HPKDB. Changes to the HPK subtypes are notified to the QLDB and national secretariats.
- Document provision
  - QL: All documentation with relation to the application is uploaded to the database.
  - HPK: Information on the to-be-certified models is provided outside the base.

Database Comparison: Data Requirements

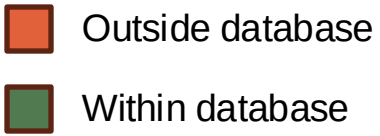
HPK database

- for space-heating:
  - EN 14511
  - EN 14825 for selected climate zones
  - EN 12102-1
  - EN 14825 for cooling
  - low-temperature and medium-temperature
- for domestic hot water:
  - EN 16147 for selected climate zones
  - EN 12102-2

QL database

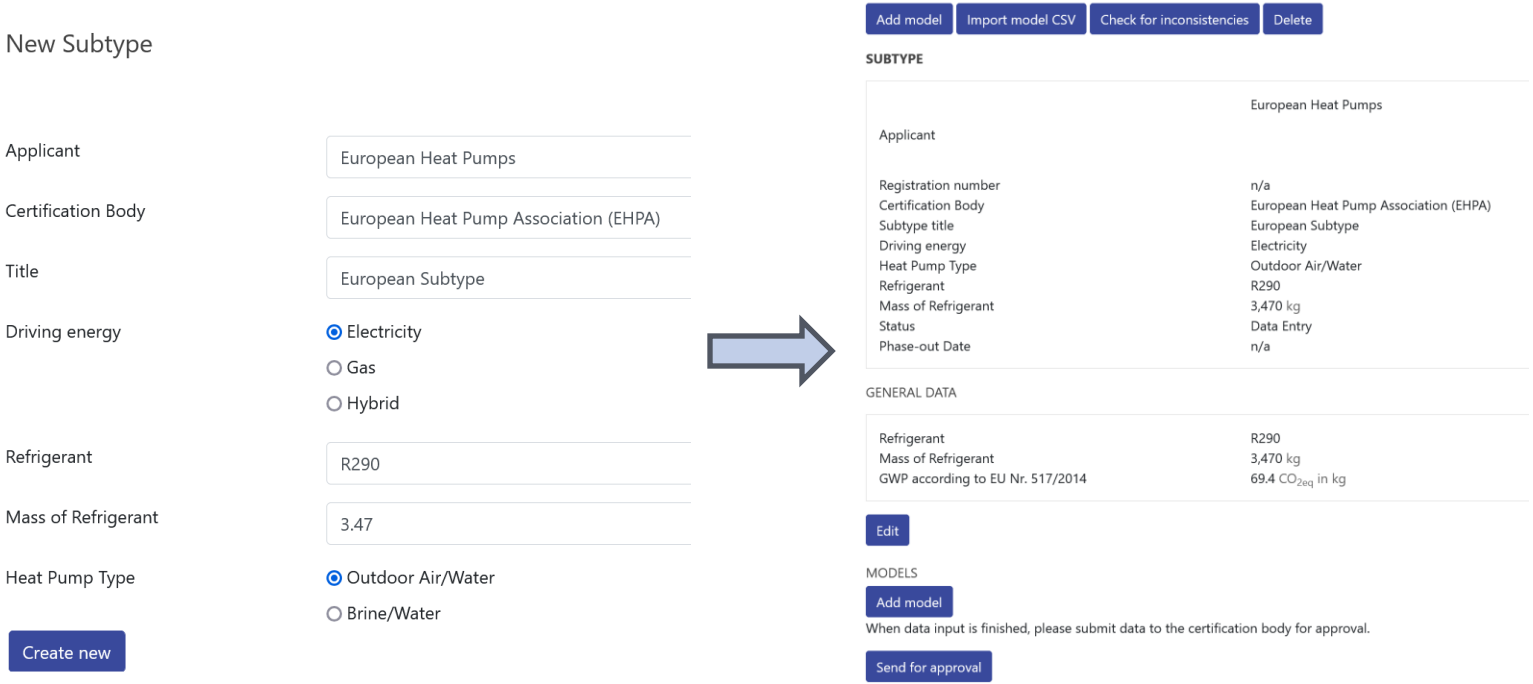
Heat Pump Keymark certification steps

1. Apply for Heat Pump Keymark by reaching out to CB
2. Create subtype and models, and provide model data
3. Provide documents needed for certification
4. Obtain HPK certificate



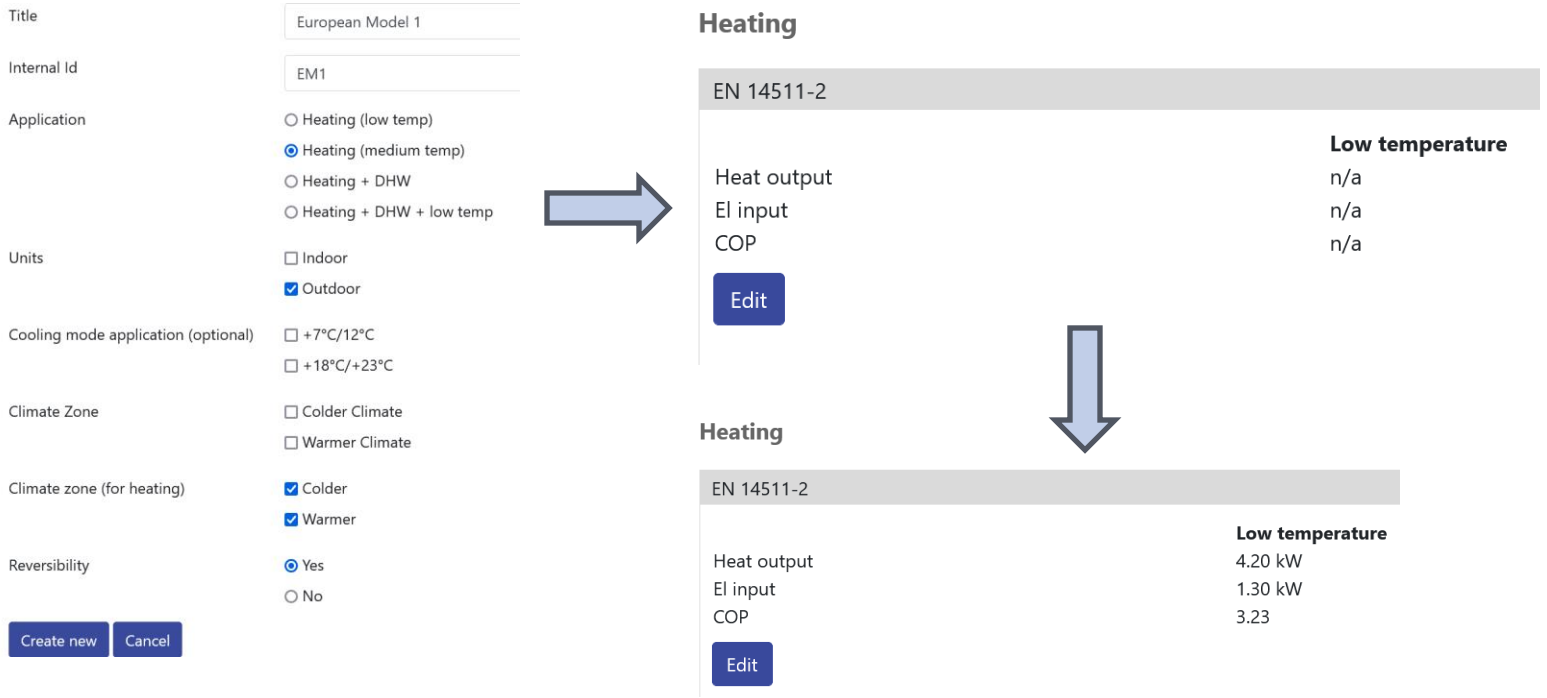
Heat Pump Keymark certification steps

Create subtype and models, and provide model data: Create subtype



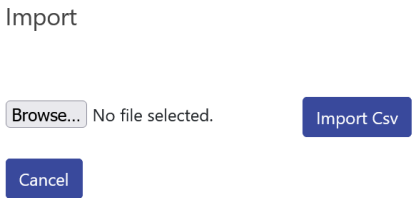
Heat Pump Keymark certification steps

Create subtype and models, and provide model data: Entering data

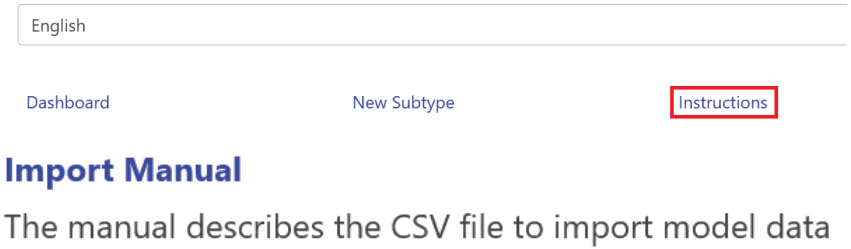


Heat Pump Keymark certification steps

Create subtype and models, and provide model data: Add model and data in one step

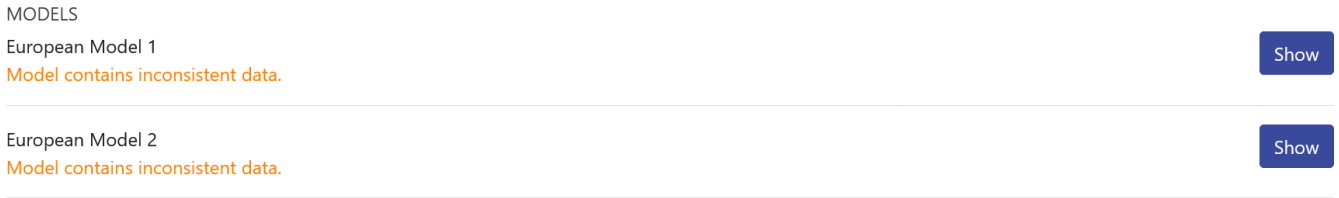


How to place data correctly in the import files



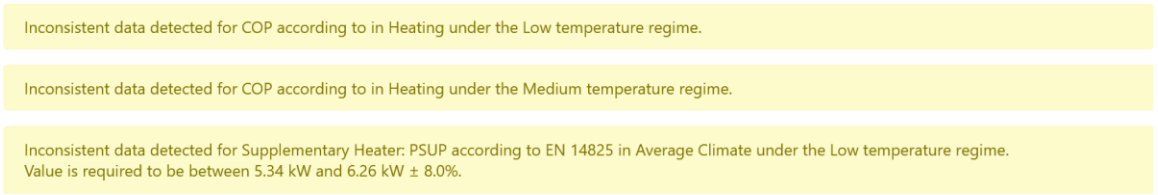
Heat Pump Keymark certification steps

Beware of the consistency checks



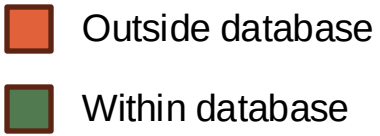
Sending for approval is disallowed!

Click on Show to learn more about the inconsistencies



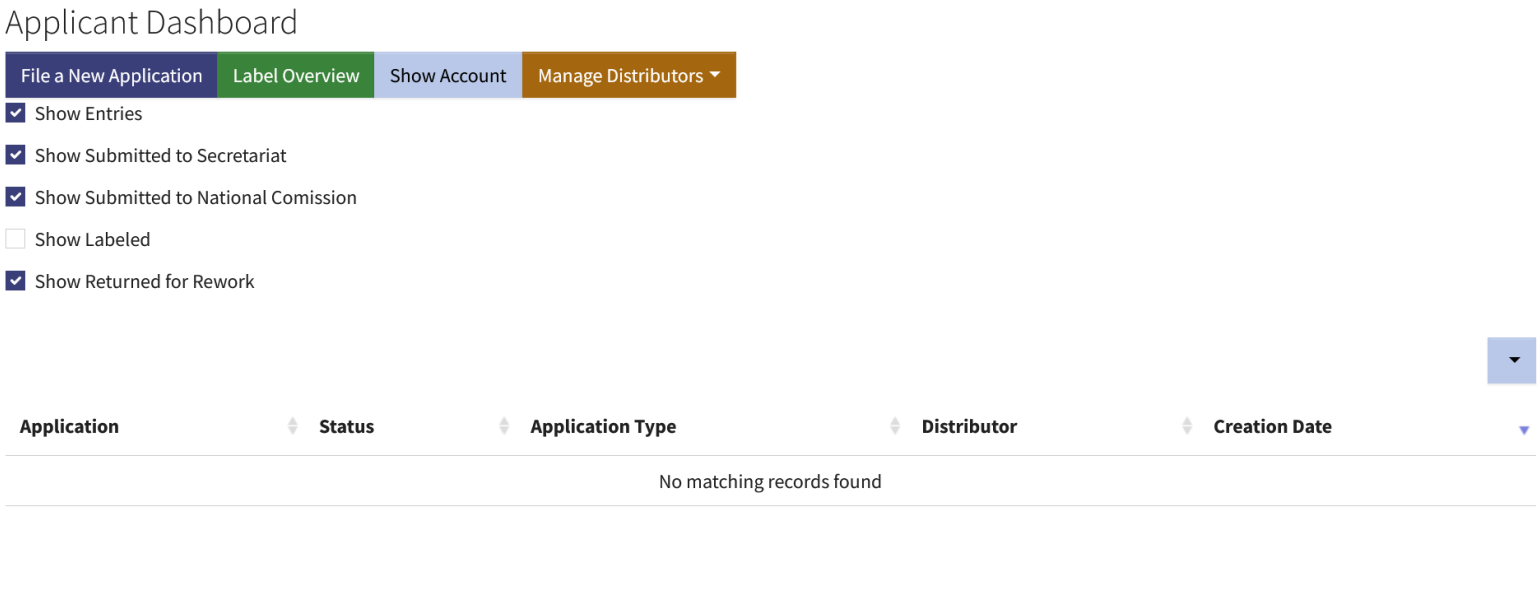
Quality Label application steps

1. Apply for Quality Label
2. Create models and provide model data
3. Provide documents needed for certification
4. Obtain Quality Label



Quality Label application steps

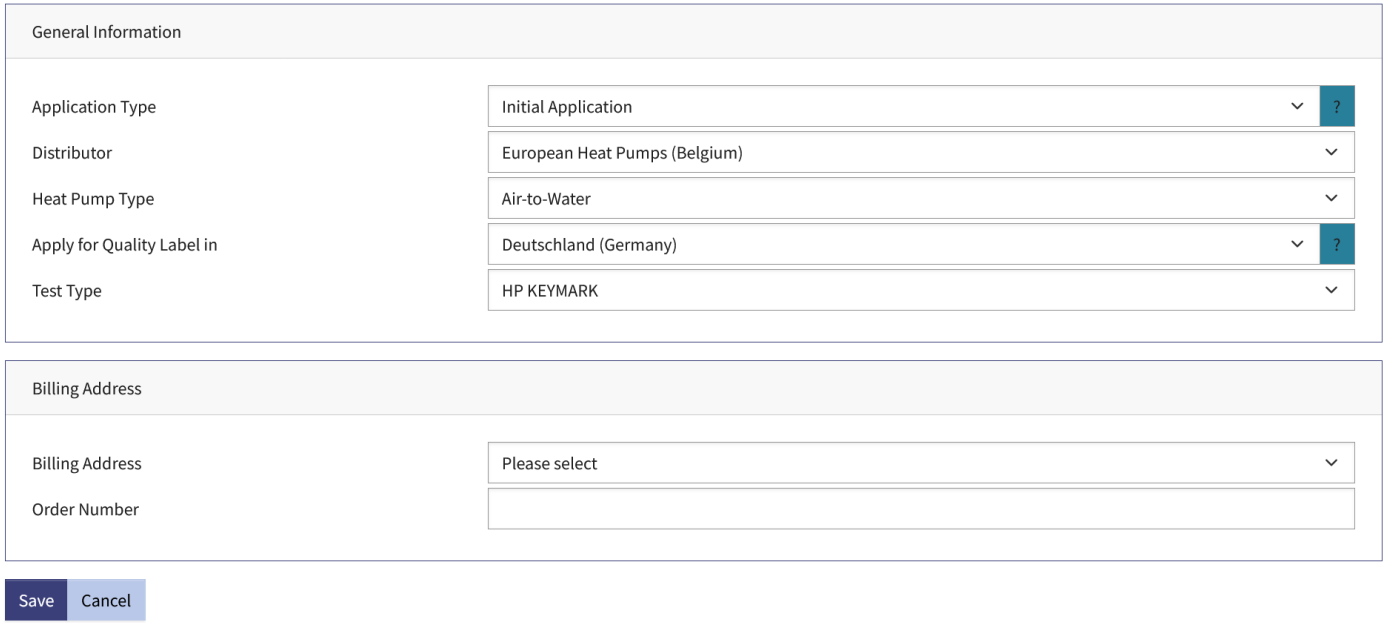
Create application



Quality Label application steps

Create application

File a New Application



Quality Label application steps

Create application

Application	Status	Application Type	Distributor	Creation Date
DE-20241014-001	Entry ?	Initial Application	European Heat Pumps	14.10.2024

Application: DE-20241014-001

Submit Application | Delete Application | Back

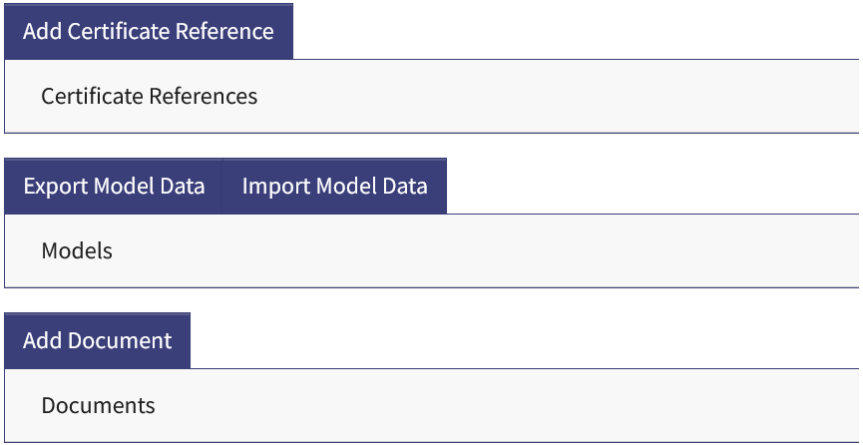
Application Type	Initial Application
Distributor	European Heat Pumps (Belgium)
Status	Entry
Heat Pump Type	Air-to-Water
National Commission	Nationale Gütesiegelkommission Deutschland c/o BWP

National Informational page on the Quality Label

Errors	
No model provided	Application
No document provided	Application

Quality Label application steps

Provide model data



Quality Label application steps

Provide model data

Application: DE-20241014-001

Registration Number: 011-1W0590

Search

Manufacturer: Please select

Certificate: Please select

Save | Back

Add Certificate Reference

Certificate References

011-1W0590 — Import Models | Remove

Quality Label application steps

Import models and amend data using export and import functions

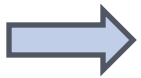
Application: DE-20241014-001

Import Models

Select all | Deselect all

- [ ] Vitocal 150-A AWO-M-E-AC 151.A04
- [ ] Vitocal 150-A AWO-M-E-AC 151.A04 SP
- [ ] Vitocal 150-A AWO-M-E-AC 151.A06
- [ ] Vitocal 150-A AWO-M-E-AC 151.A06 SP
- [ ] Vitocal 150-A AWO-M-E-AC 151.A08

Import | Back



Export Model Data | Import Model Data

Models

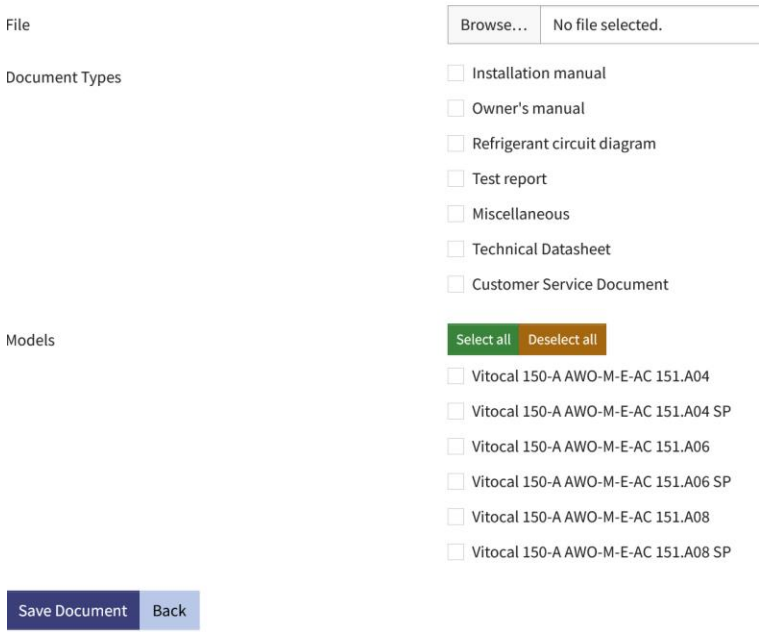
Vitocal 150-A AWO-M-E-AC 151.A04	Copy	Edit	Remove
Vitocal 150-A AWO-M-E-AC 151.A04 SP	Copy	Edit	Remove
Vitocal 150-A AWO-M-E-AC 151.A06	Copy	Edit	Remove
Vitocal 150-A AWO-M-E-AC 151.A06 SP	Copy	Edit	Remove
Vitocal 150-A AWO-M-E-AC 151.A08	Copy	Edit	Remove
Vitocal 150-A AWO-M-E-AC 151.A08 SP	Copy	Edit	Remove

Quality Label application steps

Additionally required data for QL

- Besides performance data, QL asks for data on main components
- Non-HP Keymark data needs to be entered by the applicant
- Data checks are performed by national commissions during the application process

Provide documents



EHPA Quality Label & Heat Pump KEYMARK webinar

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European Heat Pump Association

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www.ehpa.org

POLL

In three words, what is your main takeaway from this webinar?

Q & A

You can ask your questions in the chat.
Don’t forget to mention the name of the person you are addressing your question to.

POLL

What specific topics would you like us to cover in the future?

Keep up with the latest updates!

www.heatpump.keymark.eu

Heat Pump KEYMARK

@hpkeymark

Thank you!

Get in touch!

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