

The role certification can play to improve the reliability of input data. Eurovent certification example.

Qualicheck workshop

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Eurovent Certita Certification



- In June 2013 CERTITA and EUROVENT CERTIFICATION Company, leading product certification companies in the fields of heating, ventilation, air-conditioning and refrigeration (HVAC-R), merged their activities within a new corporation named Eurovent Certita Certification SAS.
- The combined company becomes a major European Certification body, operating 35 certification programmes in residential domestic buildings or in industrial facilities.

Reference Certification Marks



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Certification programme of Eurovent Certita



- Pompes à chaleur (PAC)
- Groupes de production d'eau glacée (Chillers)
- Climatiseurs
- DRV (débit de réfrigérant variable)
- Unités de toiture Rooftop



- Echangeurs
- Moto-compresseurs
- Groupes de condensation
- Refroidisseurs de lait
- Meubles frigorifiques de vente
- Tours de refroidissement



- Centrales de traitement d'air
- Centrales double flux résidentiel
- Echangeurs rotatifs et à plaques
- Filtres à air M5-F9
- Systèmes de ventilation hygroréglable
- Conduits de fumée



- Ventilateurs convecteurs
- Poutres froides
- Radiateurs
- Solaire thermique
- Robinets thermostatiques
- Appareils de chauffage à combustibles liquides ou solides

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The Eurovent Certified Performance mark (ECP)



- Voluntary third party certification programmes
- Covers all HVAC&R fields: Heating, Ventilation, Air-conditioning and Refrigeration
- Mark recognised in all Europe and beyond
- Accreditation according to ISO 17065 by COFRAC (accreditation n°5-0517, international recognition EA/IAF)
- Continuous verification process:
 - Tests performed by independent and accredited laboratories
 - Factory audits
 - Check of selection tools

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The Eurovent Certified Performance mark – Key figures

- 19 certification programmes in activity
- 269 certified manufacturers
- 320 certified tradenames
- +50 000 certified references
- +80 experts participating to our compliance committees
- 12 European independent laboratories
- 20 years of experience

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Eurovent Certified Performance Certification Programmes



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Partnerships with 12 Independent laboratories

CEIS	Madrid	Spain
CETIAT	Lyon	France
DMT	Essen	Germany
HTA	Luzern	Switzerland
IMQ	Amaro	Italy
IMQ	Milan	Italy
SP	Boras	Sweden
TÜV-NORD	Essen	Germany
TÜV-SÜD	Munich	Germany
VTT	Espoo	Finland
WSP	Stuttgart	Germany
DTI	Taastrup	Denmark

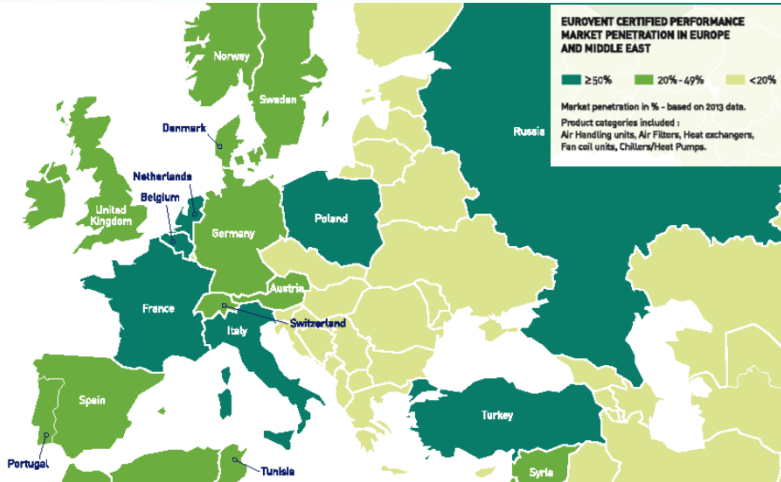


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A well recognized certification mark in Europe ...



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... and beyond

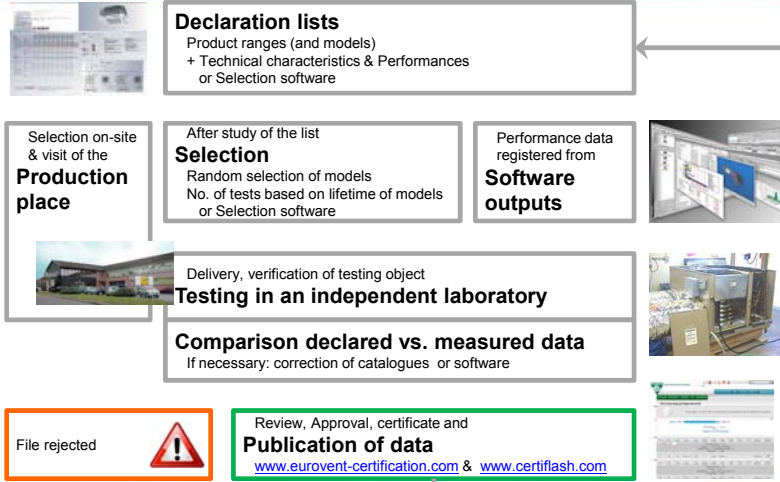


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How does it work?



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ECP website:
www.eurovent-certification.com

The screenshot shows the website's search interface with the following elements:

- QUICK SEARCH**: A blue arrow points to the search bar area.
- Search Products**: A section with a green arrow and the text "Your data in one click!".
- Search Fields**: Input fields for "Model:", "Brand or manufacturer:", and "Certificate No:". A red arrow points to the "Start Search" button.
- DIFFERENT WAYS OF ACCESSING DATA**: A blue text label pointing to a sidebar menu.
- Access Options**: A list of options: "Access by programme", "Access by participant", "Access by trade name", "Search Engine", and "Access by certificate".

- A true European database
- of certified performances
- for HVAC&R components, products and systems.

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- pop-up from search engines
- on manufacturer websites
- Mobile app



- Partnerships with software editors in France (Edibatec, Clé@ association):
 - Automatic transfers of the certified performances **database for EPBD** application in France (RT 2012)
 - Main products covered: heat-pumps, chillers, rooftops, air conditioners
- Upcoming in 2015:
New partnerships with large institutional organisations in France in order to build **white certificate databases** based on the ECP database.



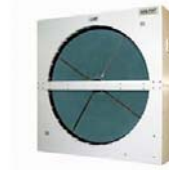
Ventilation and airtightness: what do we do now?

Air Handling Units

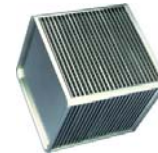


Air to air heat exchangers

Rotary



Plates



Air Filters



Residential Air Handling Units



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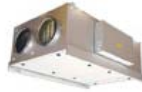


Air Handling Units

- Certified performances published on ECP website:
 - **Casing Air Leakage**
 - Thermal Transmittance
 - Thermal bridging factor
 - **Filter by-pass leakage**
 - Casing Strength
 - Acoustic insulation
- Certified performances available in certified selection software:
 - Airflow – pressure - power input
 - Sound Power Level
 - Cooling-heating coils capacity – water pressure drop
 - Heat recovery efficiency

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Residential Air Handling Units

- Certified performances:
 - **Leakage class**
 - Aeraulic performances:
 - Airflow/pressure curves
 - Maximum airflow [m^3/h]
 - Electrical consumption [W]
 - Specific Electrical Consumption SPI [$\text{W}/(\text{m}^3/\text{h})$]
 - Temperature efficiency / COP
 - Performances at cold climate conditions
 - SEC (*Specific Energy Consumption*) in [$\text{kWh}/(\text{m}^2 \cdot \text{annum})$]
 - A-weighted global sound power levels [dB(A)]

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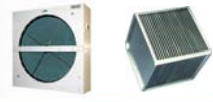


Air to air heat exchangers

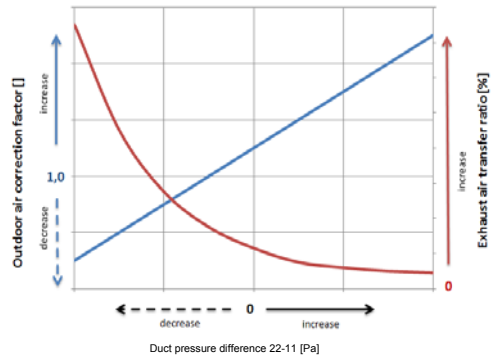
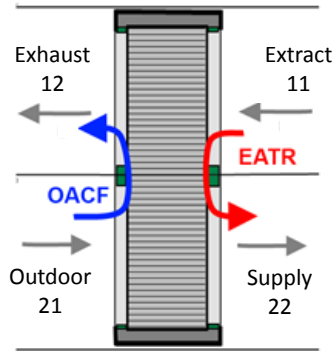
- Certified performances published on ECP website and in certified selection software:
 - Pressure drop
 - Temperature efficiency
 - Humidity efficiency
- **Leakage performances** to be certified from 1st of April 2015:
 - EATR (Exhaust Air Transfer Ratio)
 - OACF (Outdoor Air Correction Factor)

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Air to air heat exchangers



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Ventilation and airtightness: what we will do tomorrow?

Ventilation Ducts
(CSTBat in 2015, ECP in 2016)



Fans (2016)



Hygienic Air Handling Units (2016)



Run around coils
and Heat Pipes (2016)



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Thank you for your attention

Any questions?

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