



TECHNICAL CERTIFICATION RULES OF THE EUROVENT CERTIFIED PERFORMANCE MARK



Eurovent Heat Pump (Eurovent HP)

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(This version cancels and replaces any previous versions)

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The purpose of *these* Technical Certification Rules is to prescribe procedures for the operation of the Eurovent Certified Performance (ECP) certification programme for *Eurovent* Heat Pump (*Eurovent* HP), in accordance with the Certification Manual.

Modifications as against last version:

No.	Modifications	Section	Page
1	<i>New structure</i>	<i>all</i>	<i>all</i>
2	<i>Changing the name of the programme</i>	<i>all</i>	<i>all</i>
3	<i>Changing the Eurovent HP certificate from automatic to "upon request"</i>	<i>III.1</i>	<i>5</i>

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I. GENERAL INFORMATION

I.1. Scope

I.1.1. General

The programme scope covers selected models in selected ranges of Heat Pumps.

Note: “Certify-all”, as defined in the Certification Manual does not apply to the present programme.

Each range shall be certified according to one of the following related certification reference documents:

- TCR LCP-HP: “Technical Certification rules for Liquid Chilling Packages and Hydronic Heat Pumps”
- TCR AC: “Technical Certification Rules for Air Conditioners”
- TCR VRF: “Technical Certification Rules for Variable Refrigerant Flow Systems”
- TCR RT: “Technical Certification Rules for Rooftops”
- “Certification Reference for the Mark NF-414 for Heat Pumps”

The certification programmes from the above list are called “related programmes”.

Are excluded from the scope Cooling-only units, i.e. units declared only in cooling mode.

All documents (ECP & NF) are downloadable at: <https://www.eurovent-certification.com/en/certification-programmes>.

Note: “NF-414 Heat Pumps” and “NF-414” are used for “Certification Reference for the Mark NF-414 for Heat Pumps” and “Certification programme NF-414 for Heat Pumps” later in this document.

I.2. Certified performances

Certified performance items are detailed in related reference documents per category and type of heat pump.

I.3. Definitions

For definitions regarding the certification scheme, please refer to Certification Manual *and reference document in the related programme*.

II. REQUIREMENTS OF THE REFERENCE DOCUMENT

II.1. Reference documents

II.1.1. Product and test standards

Standard ratings shall be established at standard rating conditions specified in related reference documents per category and type of heat pump.

II.2. Marking

It is highly recommended that the participating company indicates participation in the EUROVENT CERTIFIED PERFORMANCE (ECP) programme for Eurovent Heat Pump. The provisions of the Certification Manual apply.

II.2.1. Display of Eurovent Certified Performance logo on production units

The provisions of the Certification Manual apply.

II.2.2. Display of Eurovent Certified Performance logo on technical documentation

The provisions of the Certification Manual apply.

III. CERTIFICATION PROCESS

III.1. Admission procedure

Each Participant to a NF related programme is automatically entitled to become Participant to the present programme, without any administrative formalities.

A group can benefit of the *Eurovent* HP certification with a different name than its subsidiary already certified for the NF-414 programme.

Each Participant to an ECP related programme is entitled to become Participant to the present programme upon request. Eurovent HP certification may, however, be limited by the Participant to specific ranges or models, using the relevant Declaration list; it may also be refused by the participant for all his products, using a Waiver to be signed and sent to Eurovent Certita Certification.

III.1.1. Declaration of data

In addition to the provisions laid down in the Certification Manual, the following requirements apply:

The Applicant, after signing the Certification Agreement, shall send to EUROVENT CERTITA CERTIFICATION all information required for the qualification: software name and version, the software itself, declaration file and relevant literature.

All characteristics and performances shall be expressed in SI units. Maximum of 3 significant digits shall be used for capacity below 100 kW (4 when above), EER, COP, SEER, SCOP, power consumption and water pressure drop and 2 significant figures for sound power.

Other details are given in the reference document of the related programme.

Submittal of data shall be made by filling in the forms provided by EUROVENT CERTITA CERTIFICATION as .xls or .xlsx files. The forms shall be sent by e-mail to EUROVENT CERTITA CERTIFICATION within the time limits specified in Certification Schedule (see Appendix – Campaign schedule, if applicable).

Copies of the forms are part of this Technical Certification Rules document (see Appendix B):

- Declaration file *Eurovent* HP-1 will be used:
 - by manufacturing companies (Original Equipment Manufacturer – OEM) to declare ranges, Basic Model Groups (BMG), performance ratings and technical data
 - by Brand Name (BN) companies to identify the corresponding model's number of the original equipment manufacturer

Copy of this form is part of this manual (see **Erreur ! Source du renvoi introuvable.**). Copy of all the other required forms is part of the reference document of the related programme.

III.1.2. Validity of the certificate

The certification under the *Eurovent* Heat Pumps programme is directly linked to the related certification(s), consequently admission, suspension or withdrawal from the related programme automatically applies to Eurovent HP with no additional formal notice or similar administrative formalities.

Whenever the validity date of the related certificate is modified, the *Eurovent* HP certificate will also be modified accordingly.

Generic cases of non-applications of procedures for the ECP programmes are described in chapter III.4. of the Certification Manual and they apply whenever relevant.

III.1.3. Implementation of checking operations

The provisions of the Certification Manual apply.

III.1.3.1. Selection of units to be tested

In addition to the provisions stipulated in the Certification Manual, the following requirements also apply:

The number of units tested each year per range, the test conditions (test points), the deadline for delivery of units to the laboratory to be used for each type of unit and other detailed procedures are given in the reference document of the related programme.

III.1.3.2. Testing in independent laboratory

In addition to the provisions stipulated in the Certification Manual, the following requirements also apply:

The testing procedure to be used for each type of unit and other detailed procedures are given in the reference document of the related programme.

III.1.3.3. Failure treatment

Testing of performances: for each test, a performance item fails when the difference between the declared value and the measurement differs by more than the acceptable tolerance. A test is considered failed when one or more performance items fail.

In case of failure, re-rating rules shall be applied (see III.1.3.3).

Other details are given in the reference document of the related programme.

III.1.3.4. Re-rating rules

Detailed re-rating rules are given in the reference document of the related programme.

APPENDIX A. TECHNICAL APPENDICES

A.I Purpose

The purpose of this technical appendix is to establish specifications for testing and rating of *Eurovent Heat Pumps (Eurovent HP)*, for the related Eurovent Certified Performance (ECP) certification programme.

A.II Testing requirement

Standard ratings shall be established at standard rating conditions specified in the related reference documents per category and type of heat pump.

A.III Rating requirements

Rating requirements are in accordance with related reference documents per category and type of heat pump.

A.IV Acceptance criteria

Acceptable tolerances are given in related reference documents per category and type of heat pump.

APPENDIX B. CAMPAIGN SCHEDULE

For each repetition test campaign (year n), the following schedule is usually applied in each related programme:

Eurovent Certita Certification asks for the update of product list	annually
Participant confirms update of product list	maximum 1 month later
Eurovent Certita Certification sends selection list for tests	maximum 2 months later
The Participant confirms selection list	maximum 1 month later
Delivery + submittal form + relevant documentation for test are completed for units selected for tests	maximum 3 months later
The Laboratory carries out all first tests	maximum 2 months after test is ordered
Diploma for Eurovent HP are valid until	End of validity of the certificate in the related programme

Detailed schedule depending on the type of unit is given in the reference document of the related programme.



Performances on line
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