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OPERATIONAL MANUAL
for the
CERTIFICATION
of
EUROPEAN HEAT PUMPS

OM-17-2016

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No.	Modifications as against last version	Section	p.
1	Addition of the possibility to include in the declaration list the models already certified under ECP programmes LCP-HP, VRF, AC and RT	II	4
2	Update of diploma validity date	III.2	4
3	Eurovent energy labels are available for some products	APPENDIX C	8

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I. PURPOSE OF THE PROGRAMME

The purpose of this manual is to prescribe procedures for the operation of the Eurovent Certified Performance Programme for Heat Pumps in accordance with the “Certification Manual for ECP Mark”, general reference document which is downloadable at <http://www.eurovent-certification.com/en/Documentation>.

Note: “Certification Manual” is used for “Certification Manual for ECP Mark” later in this document

II. SCOPE OF THE PROGRAMME

The programme applies to selected models in selected ranges of Heat Pumps.

Note: “Certify-all”, as defined in Certification Manual (ed. 12 §V.1) doesn’t apply for the present programme.

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

- OM-3 LCP-HP: “Operational Manual for the certification of Liquid Chilling Packages and Hydronic Heat Pumps”
- OM-1 AC: “Operational Manual for the certification of Air Conditioners”
- OM-15 VRF: “Operational Manual for the certification of Variable Refrigerant Flow systems”
- OM-13 RT: “Operational Manual for the certification of Rooftops”
- “Certification Reference for the Mark NF-414 for Heat Pumps”

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

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

ECP documents are downloadable at:

<http://www.eurovent-certification.com/en/Documentation>

NF document is downloadable at: <http://www.certita.org/en/certita-mark/nf-heat-pumps>

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.

III. BASIC OUTLINE OF THE PROGRAMME

Participation in the programme consists of the following:

III.1 General

Each Participant to an ECP related programme is automatically entitled to become Participant to the present programme without any administrative burden.

Each Participant to a NF related programme shall sign a document called “Licence Agreement” for the present programme (unless he is also Participant for an ECP related programme).

Note: During the transitional period (until 30/06/2017), having this License Agreement signed is not mandatory.

By default, certification under the present programme applies automatically to all certified models of all ranges of the related programme falling under the scope of the present Operational Manual. European Heat Pumps 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 out to Eurovent Certita Certification.

III.2 Validity of the certificate

The certification under European Heat pumps is directly linked with the related certification(s) and any admission, suspension or withdrawal in the related programme

automatically applies to EuroHP without need for any additional formal notice or similar administrative burden.

At formal expiration date of one EuroHP programme, the certificate is automatically reconducted if the related certificate is running. Generic cases of non-applications of procedures for the ECP programmes are described in chapter VIII of Certification Manual and can apply if relevant.

III.3 Complaint procedure

Under special conditions a complaint procedure may be carried out as described in the Certification Manual.

IV. OPERATION OF THE PROGRAMME

IV.1 Declaration of data

IV.1.a. Rated performance data

All characteristics and performance items shall be expressed in SI Units. Maximum of 3 significant figures 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*.

IV.1.b. Certification forms

Licence Agreement and Application letter shall be sent to Eurovent Certita as signed hard copy and their copy as pdf shall be sent to Eurovent Certita.

All other forms and documents by e-mail or through a secured portal for file exchanges as .zip, .rar, .doc, docx, .xls, .xlsx and/or pdf file.

Declaration list (Form EHP-1) shall be used for declaration of trade names, ranges, models and data. For models submitted by a private brand manufacturer (BN) the form will be used to identify the corresponding model number of the original equipment manufacturer.

Copy of this form is part of this manual (see APPENDIX C).

Copy of all the other required forms is part *the reference document of the related programme*.

IV.2 Selection of units to be tested

The number of units tested each year per range, the test conditions (test points), 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*.

IV.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 fails when one or more performance items fail.

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

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

V. RE-RATING RULES

Detailed rerating rules are given in *the reference document of the related programme*.

VI. PROMOTION OF THE PROGRAMME

This section refers to section VI of the Certification Manual and completes rights and duties from the reference document of the related programme which fully apply.

VI.1 By Eurovent Certita Certification

The certified data of the certified products are published on the Eurovent Certified Performance website: www.eurovent-certification.com.

Eurovent Certita will supply, on request, to any interested party, the current status of any Participant or of any model (under development, new, deleted or obsolete).

The following information pertaining to each model certified shall be published on the Website for Heat Pumps:

- Name of Company
- Trade or brand name of model
- Model number(s) or designation(s)
- Characteristics according to *the reference document of the related programme*
- Performance according to *the reference document of the related programme*

VI.2 By Participants

The participating company may indicate participation in the programme. When he does, it shall be by displaying the appropriate Eurovent Certified Performance mark on all specification sheets and in other literature carrying ratings, or claiming certification, of certified models (see Certification Manual).

VI.2.a. Display of certification symbol on literature, software and advertising

Use of the Eurovent Certified Performance mark is described in Certification Manual. The following completes the description in this programme.

When publishing ratings a Participant shall include at least the certified performance in the standard rating conditions, as specified in the relevant Rating Standard.

VI.2.b. Display of certification symbol on production units

Each Participant is entitled to display the Eurovent Certified Performance mark on units of models which have been certified. The Participant may also display the Eurovent Certified Performance symbol on each certified unit by application of Eurovent Certified Performance mark. No data or other marking shall be added to the mark. The Participant may affix the certification symbol at any location thereon satisfactory to him for single-package units, and on the component containing the compressor for split units. The Eurovent Certified Performance mark may be applied as part of the nameplate of a certified model.

APPENDIX A. Certification schedule

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

Eurovent Certita <i>Certification</i> asks for up-date of product list	annually
Participant confirms up-date of product list	maximum 1 month later
Eurovent Certita <i>Certification</i> sends selection list for test	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
Diploma for test campaign are valid until	xxx
The Laboratory carries out all first tests	maximum 2 months after test is ordered
Eurovent Certita sends the test reports	maximum 2 months after reception of the lab report
Diploma for EuroHP are valid until	31/12/n

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

APPENDIX B. Forms

B.I. Form EHP-1: Submittal for certification

	Label	Description	Unit
GENERIC	Product Number	(see Certification Manual)	
	Master product number		
	Tested On		
	Rerated on		
	Created on		
	Last update on		
	Status		
	Participant Name		
	Product Name		
	Trade Name		
	Type of product		
	Range Name		
	BMG		
	Ph		
	COP	Coefficient of Performance	-
SCOP	Seasonal Coefficient of Performance	-	
η_s	Seasonal space heating energy efficiency	%	
etc...	(see <i>related reference document</i> for full list of performances to declare for each type of heat pump)		

APPENDIX C. ECP mark & energy efficiency label

C.I. Eurovent Certified Performance mark



Figure 1: Eurovent Certified Performance mark specifications and ECP mark for European Heat Pumps

See relevant specifications in Certification Manual.

The mark shall also include on first line of the green line: “European Heat Pump”, “N°” and the Agreement number provided by Eurovent Certita when certification is granted, and below, on the second line, the name of the certified range.

C.II. Eurovent Certified Performance energy efficiency label

Rules for the use of Eurovent Certified Performance energy label are given in the Certification Manual. A certified European Heat pump can carry an energy efficiency label if is available for its category and type in the related programme.

It is not mandatory to use Eurovent Certified Performance energy labels however it is highly recommended to do so. If an energy label is used by the participant it is mandatory to use the right corresponding layout.

High resolution files of these labels, as well as specifications for the layout are available on the website in the manufacturer’s restricted area.

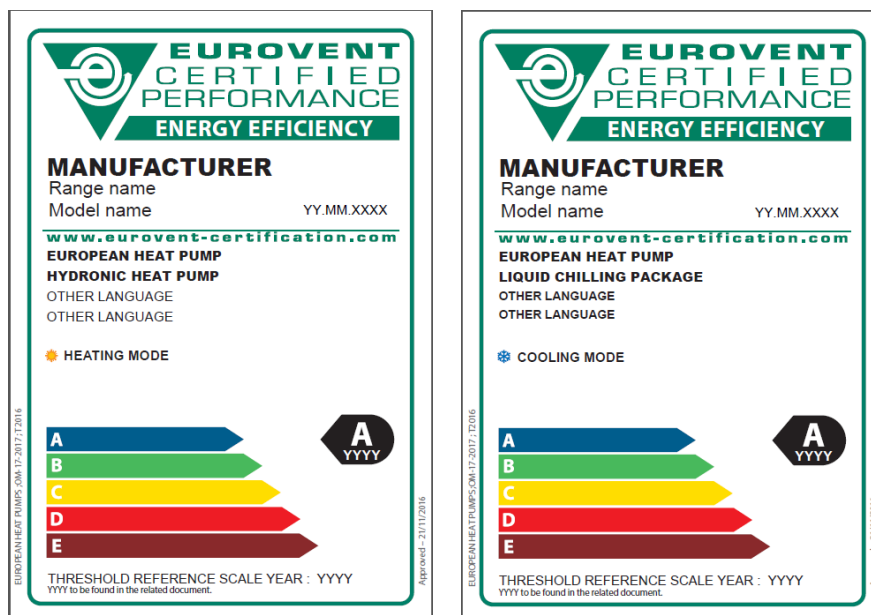


Figure 2: Illustration of the EuroHP Energy Efficiency Labels - Example: Related programme LCP-HP, Cooling and Heating modes