

## THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

C-PCR-006 (TO PCR 2024:06)  
VERSION: 1.0.0

VALID UNTIL: 2030-01-14



THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

# TABLE OF CONTENTS

|     |                                            |    |
|-----|--------------------------------------------|----|
| 1   | Introduction.....                          | 3  |
| 1.1 | General.....                               | 3  |
| 1.2 | Role of this document.....                 | 3  |
| 2   | General information.....                   | 5  |
| 2.1 | Administrative information.....            | 5  |
| 2.2 | Scope.....                                 | 6  |
| 3   | PCR review and background information..... | 7  |
| 4   | LCA method.....                            | 8  |
| 5   | Content of the LCA report.....             | 9  |
| 6   | Content and format of EPD.....             | 10 |
| 7   | List of abbreviations.....                 | 11 |
| 8   | References.....                            | 12 |
| 9   | Version history of c-PCR.....              | 13 |

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

# 1 INTRODUCTION

## 1.1 GENERAL

This document constitutes complementary Product Category Rules (c-PCR) developed in the framework of the International EPD System: a programme for type III environmental declarations<sup>1</sup> according to ISO 14025:2006, ISO 14040:2006, ISO 14044:2006, and product-specific standards. Environmental Product Declarations (EPD) are voluntary documents for a company or organisation to present transparent, consistent and verifiable information about environmental performance of their product (goods or services).

The rules for the overall administration and operation of the programme are the General Programme Instructions (GPI), publicly available on [www.environdec.com](http://www.environdec.com). PCRs and c-PCRs complement the GPI and the normative standards by providing specific rules and guidelines for developing an EPD for one or more specific product categories (see Figure 1). A PCR/c-PCR should enable different practitioners using the PCR/c-PCR to generate consistent results when assessing products of the same product category.

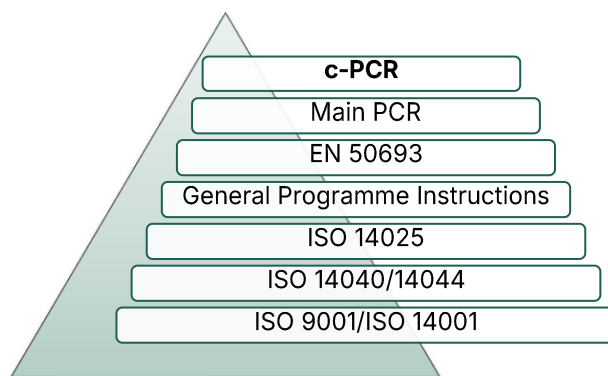


Figure 1 This c-PCR in relation to the hierarchy of standards and other documents.

The present c-PCR uses the following terminology:

- The term "shall" is used to indicate what is obligatory, i.e., a requirement.
- The term "should" is used to indicate a recommendation. Any deviation from a recommendation shall be justified in the EPD development process.
- The terms "may" or "can" are used to indicate an option that is permissible.

For definitions of further terms used in the document, see the GPI, the main PCR, and the normative standards.

The latest version of the c-PCR is available on [www.environdec.com](http://www.environdec.com).

Any references to this document shall include the PCR registration number, name and version.

## 1.2 ROLE OF THIS DOCUMENT

This c-PCR complements PCR 2024:06 Electronic and electric components (non-construction), available on [www.environdec.com](http://www.environdec.com). The c-PCR cannot be used by itself but shall be used together with PCR 2024:06, for products within the scope of the PCR (see Section 2.2.1). It is required to use an applicable c-PCR after it has been published 90 days. It is optional to use the c-PCR if it has been published for less than 90 days.

<sup>1</sup> Type III environmental declarations in the International EPD System are referred to as EPDs, Environmental Product Declarations.



THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 2 GENERAL INFORMATION

### 2.1 ADMINISTRATIVE INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name:                            | Thermodynamic generators with electric compression for heating and/or cooling of premises and/or the production of domestic hot water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Registration number and version: | 2024:06-c-PCR-006, Version 1.0.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Programme:                       | <br>INTERNATIONAL EPD SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Programme operator:              | EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden.<br>Website: <a href="http://www.environdec.com">www.environdec.com</a><br>E-mail: <a href="mailto:support@environdec.com">support@environdec.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PCR Moderator:                   | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PCR Committee:                   | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Publication date                 | 2026-06-22<br>See Section 9 for a version history of the c-PCR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Valid until:                     | 2030-01-14<br>The validity may change. See <a href="http://www.environdec.com">www.environdec.com</a> for the latest version of the PCR and the latest information on its validity and transition periods between versions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Development and updates:         | <p>The c-PCR has been developed following ISO 14027, including public consultation and review. The rules for the development and updating processes are described in Section 9 of the GPI.</p> <p>The c-PCR is valid for a pre-determined time period to ensure that it is updated at regular intervals. When the c-PCR is about to expire, the PCR Moderator shall initiate a discussion with the Secretariat on if and how to proceed with updating the c-PCR and renewing its validity. A c-PCR may be updated before it expires, based on changes in normative standards or provided significant and well-justified proposals for changes or amendments are presented.</p> <p>When there has been an update of the c-PCR, the new version should be used to develop EPDs. For small updates (change of third-digit version number), the previous version is normally immediately removed from the PCR library on <a href="http://www.environdec.com">www.environdec.com</a> and there is no transition period. For medium updates (change of second-digit version number), the previous version of the c-PCR is valid in parallel during a transition period of at least 90 days, but not exceeding its previously set validity period. For large updates (change of first-digit version number), the previous version is valid in parallel during a transition period of at least 180 days, but not exceeding its previously set validity period.</p> <p>In case a c-PCR is developed by a CEN Product TC, the standard will replace this c-PCR, with a transition period of at least 90 days under which both are valid.</p> |

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

|                                      |                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | Stakeholder feedback on PCRs is very much encouraged. Any comments on this PCR may be sent directly to the PCR Moderator and/or the Secretariat during its development or during its period of validity.                                                                                                      |
| Standards documents and conformance: | General Programme Instructions (GPI) of the International EPD System, version referred to in the main PCR, <sup>2</sup> based on ISO 14025:2006, ISO 14040:2006 and ISO 14044:2006.<br><br>EN50693:2019, Product category rules for life cycle assessments of electronic and electrical products and systems. |
|                                      | At the time of publication, this c-PCR was available in English. If the c-PCR is available in several languages, these are available on <a href="http://www.environdedec.com">www.environdedec.com</a> . In case of translated versions, the English version takes precedence in case of any discrepancies.   |

## 2.2 SCOPE

### 2.2.1 PRODUCT CATEGORY DEFINITION AND DESCRIPTION

This document is an adoption of PSR-0013-ed3.2-EN-2025 10 20 for Thermodynamic generators with electric compression for heating and/or cooling of premises and/or the production of domestic hot water (PEP Ecopassport 2025) and provides complementary product category rules (c-PCR) for the assessment of the environmental performance of PCR 2024:06 Electronic and electric components (non-construction) and the declaration of this performance by an EPD.

All references to “Product Environmental Profiles” (PEP) are replaced with “Environmental Product Declarations” (EPD).

PSR-0013-ed3.2-EN-2025 10 20 is downloadable here <http://www.pep-ecopassport.org/create-a-pep/produce-a-lca/>.

### 2.2.2 GEOGRAPHICAL SCOPE

This c-PCR may be used globally.

### 2.2.3 EPD VALIDITY

See PCR 2024:06.

---

<sup>2</sup> Some rules influencing EPD development are independent of the GPI version referred to in the main PCR. For example, the latest rules on EPD verification procedures in the GPI shall be followed within 90 days of its publication. See Section 5.1 in the GPI for a description of the four categories of rules and when they shall be followed.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

### 3 PCR REVIEW AND BACKGROUND INFORMATION

This c-PCR refers to the PSR-0013-ed3.2-EN-2025 10 20 which was developed by PEP Ecopassport and has been adopted as a c-PCR by the International EPD System.

In addition to the open consultations and reviews managed by PEP Ecopassport, the process for adopting the c-PCR in the International EPD System included a review by the Technical Committee of EPD International acting as PCR Review Panel, conducted 2026-05-28 until 2026-06-18. The review chair was Rui Wang.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 4 LCA METHOD

See PCR 2024:06 and PSR-0013-ed3.2-EN-2025 10 20.

In addition, the following additional requirements, specifications and restrictions are to follow:

- All references to "PEP-PCR ed4-EN 2021 09 06" are replaced with references to PCR 2024:06.
- EPDs intended for the French market shall follow specific rules according to PSR-0013-ed3.2-EN-2025 10 20 and PEP-PCR ed4-EN 2021 09 06.
- All references to "Product Environmental Profiles" (PEP) are replaced with "Environmental Product Declarations" (EPD).
- If there is an applicable UN CPC code for the product, it shall be stated in the EPD (in the product description section).
- Data quality requirements and selection of data shall be followed according to PCR 2024:06.
- The environmental performance indicators shall be declared '0' only for parameters that have been calculated to be zero. This applies to all environmental performance indicators. See GPI for more guidance on how to declare units and quantities.
- A clarification is added in relation to Section 3.6 on Rule(s) for in PSR-0013-ed3.2-EN-2025 10 20 on Rule(s) for extrapolation to a homogeneous environmental family: Homogeneous environmental family shall be addressed as multiple products from the same company in the EPD. The definition and rules for extrapolation shall be followed according to PSR-0014-ed2.0-EN-2023 07 13. In addition, requirements for environmental impact indicators' results shall be followed according to PCR 2024:06.
- A clarification is added in relation to Section 3.7 in PSR-0013-ed3.2-EN-2025 10 20.6 on 'Rule(s) applying to joint environmental declarations': The rules under 'Sector EPDs' section in PCR 2024:06 shall be followed instead.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 5 CONTENT OF THE LCA REPORT

See PCR 2024:06 and PSR-0013-ed3.2-EN-2025 10 20.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 6 CONTENT AND FORMAT OF EPD

See PCR 2024:06 and PSR-0013-ed3.2-EN-2025 10 20.

In addition, the following additional requirements, specifications and restrictions are to follow:

- The EPD shall follow the format according to PCR 2024:06.
- The EPD shall include all mandatory declarations specified in PCR 2024:06 (e.g., share of specific data and content declaration).
- According to PEP-PCR ed4-EN 2021 09 06, for the French market, it is mandatory to provide the split of weights between principle product, packaging and additional elements if relevant. See PEP-PCR ed4-EN 2021 09 06 for more information.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 7 LIST OF ABBREVIATIONS

See PCR 2024:06. and PSR-0013-ed3.2-EN-2025 10 20.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 8 REFERENCES

CEN (2019) EN 50693:2019 Product category rules for life cycle assessments of electronic and electrical products and systems.

ISO (2006a) ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

ISO (2006b) ISO 14040:2006, Environmental management – Life cycle assessment – Principles and framework.

ISO (2006c) ISO 14044: 2006, Environmental management – Life cycle assessment – Requirements and guidelines.

PCR 2024:06 Electronic and electric equipment, and electronic components (non-construction) (1.01) International EPD System. Publication Date: December 9, 2024.

PEP Ecopassport (2021) PCR Product Category Rules for Electrical, Electronic and HVAC-R Products (ed4). Publication date: September 06, 2021.

PEP Ecopassport (2025) PSR-0013-ed3.2-EN-2025 10 20 Specific Category Rules for Thermodynamic generators with electric compression for heating and/or cooling of premises and/or the production of domestic hot water Publication date: October 10, 2025.

THERMODYNAMIC GENERATORS WITH ELECTRIC COMPRESSION FOR HEATING AND/OR  
COOLING OF PREMISES AND/OR THE PRODUCTION OF DOMESTIC HOT WATER

## 9 VERSION HISTORY OF C-PCR

### VERSION 1.0.0

Original version of the c-PCR.

© 2026 EPD INTERNATIONAL AB

YOUR USE OF THIS MATERIAL IS SUBJECT TO THE GENERAL TERMS OF USE PUBLISHED ON BY EPD INTERNATIONAL AB'S HOMEPAGE AT [HTTPS://WWW.ENVIRONDEC.COM/CONTACT/GENERAL-TERMS-OF-USE](https://www.environdec.com/contact/general-terms-of-use). IF YOU HAVE NOT REGISTERED AND ACCEPTED EPD INTERNATIONAL AB'S THE GENERAL TERMS OF USE, YOU ARE NOT AUTHORISED TO EXPLOIT THIS WORK IN ANY MANNER.

COVER IMAGE © PEXELS.COM / MUMTAZ NIAZI