

**CRITERIA FOR AWARDING THE ENERGY SAVING
PROCEL SEAL TO AIR CONDITIONERS**

(DOCUMENT COMPLEMENTARY TO THE REGULATION FOR AWARDING
THE ENERGY SAVING PROCEL SEAL)

May 13th, 2013



ELETROBRAS / PROCEL

PFD – DEPARTMENT OF ENERGY EFFICIENCY DEVELOPMENT



Index

1 INTRODUCTION	2
2 EVALUATION OF PRODUCT CHARACTERISTICS	2
3 CRITERIA FOR AWARDING THE PROCEL SEAL	2
3.1 EFFICIENCY RATINGS	2
3.2 RESULTS CONFIRMATION	3
4 RE-EVALUATION OF PRODUCT CHARACTERISTICS	3

1 Introduction

This document is complementary to the “Regulation for Awarding the Energy Saving Procel Seal”, which may be accessed on the Procel website (www.procelinfo.com.br). Its goal is to define the criteria that shall be met by **air conditioners** in order to receive the authorization to use the Energy Saving Procel Seal.

2 Evaluation of product characteristics

The mechanism for evaluating the characteristics of air conditioners covered by this regulation is the labeling, through the Brazilian Labeling Program – PBE, coordinated by the National Institute of Metrology, Quality, and Technology - Inmetro, in partnership with Eletrobras Procel.

Therefore, the product applying for the Procel Seal must be subjected to the stages for granting the use of the National Energy Conservation Label - ENCE¹, described in the current document "Conformity Evaluation Requirements (RAC) for Air Conditioners" of the Brazilian Labeling Program - PBE, published on the Inmetro website (www.inmetro.gov.br).

The reference labs to perform the tests, the respective sampling, the testing and the allowed tolerances for the results are the ones detailed in the document cited in the previous paragraph.

3 Criteria for awarding the Procel Seal

3.1 Efficiency ratings

The manufacturer/importer who intends to make use of the Procel Seal on an equipment model of his manufacturing line (or imported model) shall prove, through the tests prescribed in the current document "RAC for Air Conditioners", that the referred model meets the following criteria:

- be approved in electrical safety tests;

¹ ENCE – Its goal is to inform the energy consumption and/or energy efficiency of equipment. Its use is subject to the authorization by Inmetro.

- present an energy efficiency value consistent with **class "A"** rating of the PBE for Air Conditioners;

The model with the same constructive characteristics and the same performance as another one which already has the authorization to use the Procel Seal will be exempted from performing the tests. Nevertheless, it may be subjected to evaluation during the process of renewal of the authorization to use the Seal.

3.2 Results confirmation

After finishing the tests, the manufacturer/importer shall send to Eletrobras Procel the Technical Specifications Worksheet (PET) and the Test Reports of the model (both performance and electrical safety reports), or shall authorize the reference lab to do so. The submission may be made by email.

The model will be exempted from the electrical safety test if any model of the same family² has already successfully passed this test.

4 Re-evaluation of product characteristics

Each year Eletrobras Procel will promote the re-evaluation of the characteristics of the air conditioners with the Procel Seal, in order to verify whether their electrical safety and performance characteristics remain valid for the maintenance of the authorized use of the Seal. This verification will be made through the Production Monitoring stage proposed in the current document "RAC for Air Conditioners" of the Brazilian Labeling Program – PBE, published on the Inmetro website (www.inmetro.gov.br).

² Family – definition according to the document RAC for Air Conditioners.