



MCS GUIDANCE DOCUMENT: MGD 004



Guidance for ErP Directive



REVISION OF MICROGENERATION GUIDANCE

MCS Guidance will be revised by issue of revised editions or amendments. Details will be posted on the website at www.mcscertified.com

Technical or other changes which affect the requirements of the guidance will result in a new issue. Minor or administrative changes (e.g. corrections of spelling and typographical errors, changes to address and copyright details, the addition of notes for clarification etc.) may be made as amendments.

The issue number will be given in decimal format with the integer part giving the issue number and the fractional part giving the number of amendments (e.g. Issue 3.2 indicates that the document is at Issue 3 with 2 amendments).

Users of this guidance should ensure that they possess the latest issue and all amendments.

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1. INTRODUCTION

This guidance provides information for Installers and Manufacturers on the Energy related Products (ErP) Directive. This is based on the information available at the time of writing and MCS cannot be held responsible for its accuracy and ensuring compliance with the regulations. In case of doubt please refer to the relevant regulations.

2. ENERGY RELATED PRODUCTS (ERP) DIRECTIVE

From 26th September 2015 all heating and hot water products, with an output equal to or less than 400kW will be affected by the Energy related Products (ErP) directive that comes into force.

The ErP comprises of two directives: Ecodesign and Energy Labelling. Ecodesign will set a minimum energy performance and environment criteria for energy related products, and Energy Labelling will see the introduction of a product label with an efficiency band between A+++ to G (with A+++ being the highest performing product). There will also be an energy label for the complete installed system.

The ErP was introduced to help the EU meet its 2020 target to lower emissions by 20% and increase the share of renewable energies by 20% by 2020. With the aim of improving efficiency, heating systems such as air, ground/water source heat pumps will be required to be labelled in the same way that white goods are such as fridges and freezers.

2.1 HEAT PUMP INSTALLERS

Any heating and hot water products placed on the market from 26th September 2015 must be ErP compliant. Heat pumps placed on the market before this date are not required to be ErP compliant.

However, MCS has stipulated that any MCS heat pump product commissioned on or after 26th March 2016 must be ErP compliant. This allows six months from the date that ErP comes into force for any non ErP compliant heat pump products to be installed and commissioned.

2.1.1 PACKAGE FICHE

From 26th September 2015, heat pump installers will need to produce a 'package fiche' that will provide the efficiency figure for the complete system and a 'package label' that will display performance data when installing a package of heat pump, temperature control and solar device.

- Water Heater package fiche

The templates for package fiches are included in Annex 3 of the Energy Labelling Directive and can be found [here](#)

- Space Heater package fiche

The templates for package fiches are included in Annex 3 of the Energy Labelling Directive and can be found [here](#)

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These templates should be completed using information from the 'product fiches' supplied with the components of the system and will form the basis for the package label.

The European Commission has produced an online Energy Label generator that can be found [here](#).

For MCS purposes, non-ErP compliant heat pumps that are commissioned after 25th March 2016 will not be eligible for MCS certification or the RHI regardless of the date that they were placed on the market.

While non-ErP compliant heat pumps may still be sold, provided they were placed on the market prior to 26th September 2015, they will not be eligible for MCS certification or the RHI if they are part of a heat pump installation due to be commissioned on or after 26th March 2016.

Some heat pump manufacturers are providing ErP guidance and training to installers that use their products. If you are unsure about what you will need to do when ErP comes into force, manufacturers may be able to provide additional guidance.

The UK Government have produced a policy document explaining some of the key features of ErP – this can be found [here](#).

Installers are required to provide an energy label for any installations using an ErP compliant product.

2.2 HEAT PUMP MANUFACTURERS

PLEASE NOTE: This communication has been reissued following corrections to cross referencing within MIS 3005 and MCS 007. The new versions are MIS 3005 v 4.3 and MCS 007 v 4.1 published on 6th May 2015.

The ErP Directive will come into effect from 26th September 2015. The ErP Directive will affect all heating and hot water products, with an output equal to or less than 400kW. The ErP comprises of two directives: Ecodesign and Energy Labelling.

Ecodesign will set a minimum energy performance and environment criteria for energy related products. Energy Labelling will see the introduction of a product label with an efficiency band between A+++ to G (with A+++ being the highest performing product). There will also be an energy label for the complete installed system.

MCS 007 Issue 4.1, has been updated from MCS 007 Issue 3.0 to be in line with the ErP requirements. For implementation timescales please see the table below.

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As a result of these changes, manufacturers will need to work with MCS Certification Bodies to provide additional test data for all certified products. This data will be used to complete a new calculator which will produce a:

- Seasonal Co-efficient of Performance (SCOP) – electrically driven heat pumps; or
- Seasonal Prime Energy Ratio (SPER) – gas absorption heat pumps.

A copy of these calculators will be available on the MCS website. It is expected that MCS Certification Bodies will complete a version of these calculators for each certified product using test data supplied by product manufacturers. MCS Certification Bodies will report this data to the MCS Administrator for publication on the MCS website. MCS Contractors can then use this information when calculating the performance of heat pump systems.

MCS will be working to upgrade the MCS website to allow publication of SCOP/SPER data of all products. Product specific SCOP/SPER data will be published on the MCS website for use by MCS Contractors. In the meantime, MCS would encourage all heat pump manufacturers to contact their certification bodies to confirm what steps they are required to take.

It is important to note that all new heat pumps entering the marketplace from 26/9/2015 will be required to comply with ErP. Existing products will be required to undergo additional testing to demonstrate compliance with ErP. It is recognised however that MCS Contractors may have existing stock of products that are not compliant with ErP to use up after this date. Therefore, MCS has allowed a 6-month transition period for MCS Contractors to use up any existing stock. From 26/3/2016 MCS Contractors will only be able to install ErP compliant products which meet the requirements of MCS 007 Issue 4.1.

MCS 007 Issue 4.1 is now available on the MCS website – www.mcscertified.com

Please make yourselves familiar with the standard so that you are aware of any changes. If you have any questions regarding this please contact the MCS helpdesk or the relevant MCS Certification Body.

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Key dates for Manufacturers:

Date	
6th May 2015	MCS 007 Issue 4.1 published.
26th September 2015	ErP Directive comes into force. All new heat pumps (issued with MCS certification from 26/09/2015 onwards) will now be required to comply with MCS 007 Issue 4.1.
26th March 2016	All existing heat pumps (issued with MCS certification before 26/09/2015) will be required to comply with MCS 007 Issue 4.1.

2.3 SOLAR THERMAL INSTALLER/MANUFACTURER

For further guidance please refer to the relevant ErP Directive.

The European Solar Thermal Industry Federation has also published guidance: http://www.estif.org/policies/ecodesign_and_energy_labelling/.

If you are an installer then you may be able to obtain further guidance from the manufacturer of the product.

2.4 MICRO CHP INSTALLER/MANUFACTURER

Please refer to the ErP Directives for further guidance. If you are an installer then you may be able to obtain further guidance from the manufacturer of the product.

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4. WHO IS RESPONSIBLE FOR ERP?

In most cases the manufacturer is responsible for providing a label and a fiche for individual products.

For installations combining multiple products the installer will be responsible for calculating the system's overall efficiency and providing a system label and fiche.

If you are an installer then you may be able to obtain further guidance from the manufacturer of the product.

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AMENDMENTS ISSUED SINCE PUBLICATION

Document no.	Approval	Amendment details	Date
		First issue of information taken from the old MCS website	unknown
1.1		Transferred into a Guidance Document and updated for the replacement of brand elements including fonts and logos.	10/07/2019

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