

Safe and
certified
Gas
Appliances



creating
trust
driving
progress



kiwa

Services for the *Gas Appliances sector*

EC certification - in accordance with the Gas Appliances Regulation - is **mandatory for all gas Appliances** (excluding those intended for industrial use) in order to be placed on the market within the European Community.

The Gas Appliances Regulation concerns six different product families, such as **cooking, heating, water heating, lighting** and **laundry** (including pressing). A third party (namely a Notified Body) must carry out the EC marking.

This involves the performance of laboratory tests on the prototype of the product and the subsequent annual production surveillance activity.

The Gas Appliances Regulation requires compliance with other Regulations and Directives (**Efficiency, Low Voltage and Electromagnetic Compatibility**) and Kiwa Cermet Italia's laboratories are more than adequately equipped to perform all tests of compliance with the reference technical Standards.

The Gas Appliances Regulation (GAR)

From 21 April 2018, the new Regulation for gas-fueled appliances is applied.

From this date Manufacturers have to declare compliance with this Regulation.

Regulation 2016/426 on Gas Burning Equipment (GAR), which entered into force on 21 April 2016, has been fully applicable since 21 April 2018 and ultimately replaced the previous **EC Directive 2009/142/EC (GAD)**. The main appliances that Kiwa Cermet Italia can test at its laboratories are:

- Wall-mounted and floor-standing boilers
- Water heaters
- Air heaters

Thanks to decades of experience in the sector, Kiwa Cermet Italia has developed a comprehensive service portfolio dedicated to the needs of Gas Appliances manufacturers.

- Forced Convection Air Heater
- Radiant Tube Heaters
- Gas fired luminous Radiant Heaters
- Automatic forced draught Burners
- Gas heated Catering Equipment
- Domestic Cooking Appliances burning Gas
- Barbecues
- Barbecues for outdoor use
- Washing Machines
- Ironing Machines
- Calenders

The tests of the Gas Directive include combustion tests using different types of Gas (according to the customer's needs and the destination Countries of the appliance), as well as require compliance with other Directives (**BED, LVD and EMC**).

To carry out combustion and efficiency tests, Kiwa Cermet Italia's laboratories are also accredited by **ACCREDIA** according to **UNI EN ISO/IEC 17025** with certificate No. 1413.

All technical engineers at Kiwa are qualified and competent in the gas sector, given the many years of experience. They offer services tailored to all the different needs of our customers, showing flexibility and rapidity in finding solutions.

Burner Control Unit EC Certification

Burner Control Units and all electric or electronic components that are part of Gas applications or that are in contact with gas, fall under the **Gas Directive 2009/142/EC** and must be certified and placed under surveillance by a Notified Body. Kiwa Cermet Italia is a leader in the field of automatic safety control systems certification for fuel appliances:

- **Burner Control Unit for Gas Appliances** (EN 298:2012)
- **Burner Control Unit for Oil Appliances** (EN 298:2012)
- **Air flow supervision Devices** (EN 1854)
- **Burner Control Unit with Electronic Gas Air Ratio Control (eGARC)** (EN 12067-2)
- **Valve proving System (VPS)** (EN 1643)
- **Control Function in Electronic Systems** for Gas burner and Gas burning appliances (EN 14459)
- **Temperature Control Function (TCF)** and Combustion Product Discharge Function (TTB) (EN 16830)

Energy labeling Directive 2017/1369/EU

The **2017/1369/EU Directive** is the European Directive that determines a harmonized framework for the labeling of energy-related products. Through the EU Regulations, requirements for energy labeling of heating appliances and water heaters have been established. Based on these requirements, it is necessary to write the following key information on the energy label:

- Class of seasonal energy efficiency of **room heating**
- Class of seasonal energy efficiency of **water heating**
- **Load profile**
- **Rated thermal output in kW**
- **Sound power level LWA**

The obligation of energy **labeling for such appliances began on the 26/09/2015**. At the same time, surveillance procedures were established by the authorities of European Countries to assess the compliance with all ecodesign requirements, that are based on testing performed on samples of the appliances on the market.

Ecodesign Directive (ErP) 2009/125/EC

The **2009/125/EC Directive** is the European Directive that regulates the ecodesign of energy-related products (Energy Related Products - ErP).

Through the EU Regulations, specifications for the ecodesign of heating appliances and water heaters have been established.

These specifications are based on the following measurements:

- **Efficiency at rated and partial load**
- **Stand-by power losses**
- **Emission of nitrogen oxides NOx**
- **Auxiliary and in stand-by electricity consumption** (EN 15456:2008)
- **Water heating energy consumption** (tapping cycle) (EN 13203-2)
- **Sound power level** (EN 15036-1)

The obligation of eco-friendly design for such appliances **began on the 26/09/2015**.

At the same time, surveillance procedures were established by the authorities of European Countries to assess the compliance with all ecodesign requirements, that are based on testing performed on samples of the appliances on the market.



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Kiwa Cermet Italia S.p.A
Via Cadriano 23 - 40057
Granarolo dell'Emilia (BO)

Telefono +39 051.4593.111
E-mail it.info@kiwa.com

kiwa.it