

Kiwa in the UK

Part of a global top 25 Testing Inspection and Certification (TIC) organisation employing over 4000 staff, Kiwa has come a long way since it's 1948 beginnings in The Netherlands monitoring drinking water. Kiwa's centre of operations remains Dutch-based, and the logo (a beaver) is faithful to these water roots, but it now has a leading TIC presence in over 40 countries.

Markets we're active in range from metals and mining to healthcare and construction. Our clients are from manufacturing and process industries, public and private utilities, governments and international institutions.

Kiwa's UK testing facilities are the product of several acquisitions, bringing together laboratories testing heating and cooking appliances, water and electrical products, and construction materials. Typical clients include manufacturers of boilers and stoves, showers and taps, civil engineers and local authorities involved in construction and highway projects. Our certification arm provides approval services for many of these and also for food and agricultural products.

With expert knowledge in these areas, it's not surprising that we also have separate Consultancy services specialising in Energy (predominantly hydrogen and gas safety), in Construction, Agrifood and the global RF product approval arena.

Present in many marketplaces, the common thread in our range of services is integrity. We are known for our technical rigour, reliability and industry knowledge. Many of our laboratories are UKAS-accredited.

Testing and Certification

Kiwa UK incorporates laboratories providing specialist testing for gas appliances, water products and electrical equipment. Often the same appliances are tested by all three laboratories. We test to a comprehensive range of industry standards to support WRAS certification, CE Marking (EMC, LVD, GAR) and global approvals. Our RF approval services are in keen demand.

Materials testing is conducted by our Derby-based laboratory and includes procedures on mortar, cement, concrete and coal tar. There is also an offsite testing service for structures such

as street lights, barriers and bridges, and geotechnical advice. Analysis of contaminated land and the re-use of waste are both areas of growth for this laboratory.

Our operation in Harrogate handles the certification and audit of schemes relating to all stages in the food chain, as well as several agricultural schemes (for example animal feed and fertiliser). Very active in Spain and France, this is a rapidly expanding service gaining momentum in South America, and now establishing a base in the USA.

Energy and Carbon

We specialise in energy usage in most of its forms: solid fuel, gas, oil and biomass as well as renewable / efficient technologies such as hydrogen, solar, wind, heat pump and m-CHP. Advising governments and trade bodies, our work often involves executing detailed field trials to produce real data for assisting evidence-based decisions concerning product development and strategic policy. Our expertise is internationally renowned and our consultants regularly advise across the globe.

Our greenhouse gas emissions expertise is divided between our auditors performing an independent accredited GHG verification, and our consultants advising on GHG emissions under various local and national schemes, such as the CCA and EU ETS.

Training

We provide training and assessment services for two distinct marketplaces:

- Food safety education
- Cooking and heating appliance installation

Our trainers and assessors are experts in their field. We deliver specialist courses such as 'Hydrogen and the Natural Gas Network' and various industrial gas modules. Such niche courses are an appropriate use of our strong technical base and good standing in the industries in which we work.

Kiwa UK - Testing Services

Biomass appliances
Boiler efficiency
Catering equipment
Electrical safety
EMC compliance
EMF compliance
Gas appliances
Heat pumps
Hot water tanks

Ingress protection
Large boilers
Micro CHP
Oil boilers
Potable water products
Solid fuel appliances
Thermostatic mixing valves
Unvented water heaters
WRAS



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Kiwa UK - Testing Services

Kiwa UK



Partner
 for
 Progress

"We will definitely be using Kiwa again for other testing...it's been seamless."

Testing - it's what we do

We're a one stop shop for product testing – with laboratories specialising in gas appliances, water products and electrical equipment. These labs are all well established and staffed with highly experienced, dedicated engineers. We're known for our friendly, helpful service and our ability to complete testing reliably and promptly, which is why we provide testing and certification for many well-known names in the industry.

Our test engineers are highly experienced, totally impartial, solution oriented and renowned for their expertise.

We can support with:

- The Gas Appliance Regulation (GAR)
- The Boiler Efficiency Directive (BED)
- The Low Voltage Directive (LVD)
- The Electromagnetic Compatibility Directive (EMC)
- The Radio Equipment Directive (RED)
- The ErP (Energy-related Products) and related Ecodesign and Ecolabelling Directive.
- Water Regulations Advisory Service (WRAS) scheme
- Ingress Protection (IP)
- Global Approvals

"The staff at Kiwa were exceptionally helpful while conducting tests for us. Not only did they respond promptly and professionally to any/all enquiries we made (and we made a lot), but they were extremely patient with the explanations of issues and our suggestions of how we might progress at each stage of the testing. I would have no hesitation about using them again or recommending them to anyone else looking for a helpful, efficient and professional test service."

"I would like to thank you very, very much for your hard work and patience with us. We have further products coming up that will need approval – Kiwa will certainly be the lab-of-choice!"

EMC Testing

Electromagnetic Compatibility (EMC) testing ensures electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance.

The EMC Directive limits electromagnetic emissions from equipment in order to ensure that, when used as intended, such equipment does not disturb radio and telecommunication, as well as other equipment. The Directive also governs the immunity of such equipment to interference and seeks to ensure that this equipment is not disturbed by radio emissions, when used as intended.

In addition to performing UKAS accredited testing, Kiwa can help determine the appropriate standards applicable for your devices and advise on modifications required if any issues occur during testing.

Electrical Safety Testing

Electrical safety testing ensures that electrical products are safe and are provided with the necessary instruction to ensure safe usage.

Our electrical safety test laboratory is equipped to carry out testing to harmonised standards such as IEC/EN 60335, IEC/EN 60950 and IEC/EN 61010.

We keep an eye on standards development in order to advise designers and manufacturers of impending changes so that future proofing can be engineered into the product, where necessary.

Product electrical safety compliance is best considered early in the design stage. It can be just the little oversights which can add substantial delays to getting your product to market.

Global Market Approvals

For electronics manufacturers who have made a name for themselves in the UK and Europe the next logical step is to break into the international marketplace and access a diverse new range of potential customers across the globe. But how easy is it to access these global markets?

Just as European countries demand compliance with their CE requirements, nearly every country worldwide has its own certification scheme and specific regulatory and testing requirements that must be met before a product can be placed on the market.

At Kiwa we aim to streamline global market approvals by managing the entire process for our customers from start to finish. This can involve EMC and electrical safety testing, writing and submitting the application and supporting documentation, liaising with the relevant country authorities, and arranging factory inspections where necessary. Kiwa benefits from its small, dedicated approvals team. We will ensure that your project is smoothly managed while also providing regular status updates to aid transparency, flexibility and peace of mind.

Ingress Protection

Ingress Protection tests are conducted in accordance with IEC 60529/EN60529.

The level of protection of a product is signified by a number (e.g. IP56) where the first number is the ingress protection against solid bodies, and the second number is protection against liquid.

Dust ingress testing is performed using a latest self-contained talc powder circulating chamber. The airflow circulates upward from the bottom, blowing the dust in a circular motion around the units under test.

Water ingress again uses high tech simulation equipment giving protection from dripping water (rain and spray) through to sprays and water jets to high pressure immersion testing.

Testing is verified in each case by our knowledgeable engineers, whose job it is to inspect the tested item immediately after completion and produce a report.

Gas Appliance Testing

We test to the conditions set out in the Gas Appliance Regulation (GAR). Almost all gas-fired appliances must show compliance with the GAR by means of an EC type examination certificate and a demonstrably valid product(ion) surveillance contract, as part of the technical construction file.

Our engineers can test gas appliance components in isolation, or as part of the appliance - pipes & fittings, valves, burners, manifolds, fans, flue terminals and switches.

Where no standard exists, we can carry out a risk assessment or create a meaningful performance assessment method for your gas appliance.

As well as gas appliance testing, we provide audit and product surveillance services, including assistance with establishing quality management procedures.

Kiwa has been approved by the national authorities as a Notified Body for the Gas Appliance Regulation.

KUK Regulation 4

We will test your water products for mechanical and water quality testing to demonstrate that non-metallic components won't contaminate the water passing through them. We can test to both Water Regulations Advisory Service (WRAS) scheme and also to the Kiwa UK Water Regulations Scheme – both of these prove compliance for UK regulations.

The Kiwa Watertec laboratory in the UK is the only UKAS accredited testing laboratory (No. 8896) to test to BS EN 12897: 2006 and 2016 for pressure, performance and energy loss. UKAS accreditation is also covered for energy loss testing to BS 1566-1 2002.

We provide a complete testing and certification service for sanitary and plumbing products and components.