



Putting safety first

World-class testing and certification
for gas and electrical appliances

bsi.

...making excellence a habit.™

With the number of product recalls rising every year, there is an increasing concern over consumers' safety. This means manufacturers around the globe are under greater pressure than ever to bring more efficient and safer appliances to market.

In today's fast-moving business world, manufacturers have to invest a lot of time and effort to meet the ever-changing needs and preferences of customers. These include product size, efficiency, added functionality, visual presence and safety. But the

latter can be tricky. Appliances today contain more electrical components than ever and often offer more than one function. Smaller components can also be built in with limited access, so safety is not always guaranteed.

BSI. Dedicated to safety

As the market leader in gas and electrical appliances testing, BSI owns one of the largest purpose-built testing facilities in the UK. We can test all types of electrical and gas appliances, controls and installation components to not only British standards, but also to European and international ones.

Our heritage in gas and electrical appliances testing is built on many years of experience – serving hundreds of customers in the UK and abroad. This has led to a robust international reputation for technical expertise, quality services and in-depth knowledge of gas, electrical, oil and solid fuel product testing and certification.

Today, we provide trusted testing and certification services for both domestic and commercial appliances, while recruiting and retaining some of the most experienced and knowledgeable staff in the world. Our dedicated test facility in Loughborough is well known in the industry, with our reputation reaching beyond the UK to the US, Japan, China, Hong Kong and Australia. We currently have over 300 global customers, proving our appliance testing service is one of the most comprehensive in the world.





The BSI Kitemark™

The BSI Kitemark is a voluntary, yet distinctive, symbol of quality and trust for a range of gas and electrical products, including cooking, water heating, refrigeration, space heating, leisure and camping. This also includes control and safety devices associated with these appliances. In short, products or services bearing this certification mark show they meet the appropriate standards for quality and safety (these can be British, European, or international standards that are publicly available). These products and services are monitored every year to ensure continued conformance.

The BSI Kitemark has long been considered the UK's premier symbol of product or service quality, bringing real, tangible benefits to license holders:

Today's marketplace develops quickly, so the BSI Kitemark can help manufacturers and suppliers to keep their products at the top of the market and stay ahead of competition. The competitive age we live in also means customers are always looking for differentiators that will



80% say the BSI Kitemark helped them **improve customer satisfaction**



75% say the BSI Kitemark certification helped them **attract new customers**



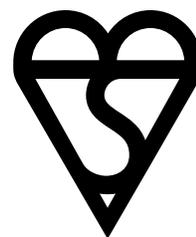
65% say the BSI Kitemark helped **increase sales**



70% say their processes are **more efficient** with the BSI Kitemark

help them to choose safe and reliable products. Since the BSI Kitemark has been well recognised for a number of years, it has a big impact on customer decision making.

“67% of consumers are aware of the BSI Kitemark and 60% of them are willing to pay more for a product displaying it.”



CE marking

CE marking

The majority of appliances sold in the European Union must bear the CE marking – the official sign of compliance to all the relevant EU directives. We offer a comprehensive range of testing and certification services that allow manufacturers to confidently and legally display the CE marking on their products. It's important to keep in mind that the CE marking is a conformity mark, not a quality mark, and should never be interpreted as such.

As a Notified Body appointed by the UK Government, we can legally certify products and production methods that conform to the following range of directives:

Gas Appliances Directive 2009/142/EC

The directive covers gas appliances and fittings supplied for the purpose of hot water production, refrigeration, lighting, heating, washing and cooking, regardless of size (so covering camping appliances, household appliances and commercial equipment). The directive defines "gas" as any fuel which is in a gaseous state at 15°C on an atmospheric pressure bar, it therefore includes appliances that burn natural gas, manufactured gas, liquid petroleum gases (LPG) and even new technologies such as hydrogen.

Boiler Efficiency Directive 92/42/EEC

This directive specifies the minimum efficiency requirements for new hot water boilers fired with liquid or gaseous fuels. The directive now forms an implementing measure under the European Union's Ecodesign (ErP) (2009/125/EC) directive which is concerned with improving energy efficiency as well as the subsequent reduction in the carbon emissions from "standard," "low temperature" and "gas condensing" boilers with outputs in the range 4 to 400 kW. The directive specifies minimum efficiency levels at both "full-load" and "part-load" test conditions.

Construction Products Regulation 305/2011/ EU (previously Construction Product Directive 89/106/EC)

This regulation relates to products that are produced for incorporation in a permanent manner in works such as buildings, roads, bridges and other civil engineering projects. In the context of controls and ancillaries, the regulations relate to products such as gas appliance flue systems, flexible connectors for gas appliances, valves and similar items that may form part of a gas appliance installation.

"98% of customers would use BSI testing services again."



Direct testing

Direct testing

As an independent testing authority, we not only test a wide range of products to international and national standards, but also formulate bespoke testing programs to meet specific client needs. This involves creating test regimes beyond those required by published standards.

Independent product testing has many benefits, including significantly boosting the research and development of product evolution. Pre-production testing can also help to correct faults before the product hits the market.

BSI is a UKAS accredited test laboratory for gas and electric products. This supports the verification of gas and electrical products against overseas requirements to help clients meet their legal obligations in other parts of the world. Our expertise includes helping clients demonstrate conformity for appliances sold in the US, Canada, Australia, New Zealand, South Africa and others.

Ecodesign and Energy Labelling directives

The Ecodesign directive establishes a framework under which energy manufacturers are obliged to reduce their consumption and other negative environmental impacts that occur during the life of the product. It is complemented by the Energy Labelling directive.

We can help manufacturers by conducting direct testing for a number of the product lots covered by the directive. So they can demonstrate compliance with their obligations in relation to gas appliances covered by both the Ecodesign and Gas Appliances Directives, such as:

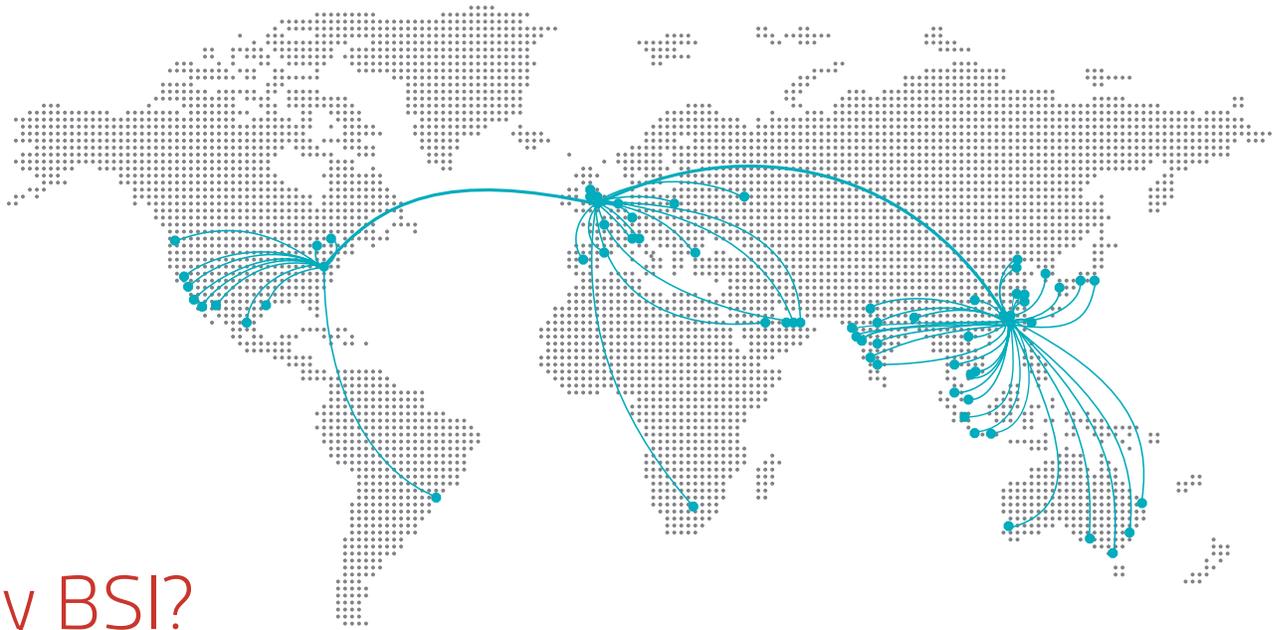
Lot 1: Space and combination heaters

Lot 2: Water heaters and hot water storage tanks

Lot 20: Local heating products

Lot 22 & 23: Kitchen appliances





Why BSI?

We are the business standards company that equips businesses with the right tools and solutions to turn best-practice standards into habits of excellence. With over 3,000 staff worldwide, we help our clients drive performance, manage risk and grow sustainably.

Founded in 1901, we were the world's first National Standards Body. Now over a century later, we're globally recognized as a champion in best practice. We have been and still are responsible for originating many of the world's most commonly used management systems standards and publish nearly 2,700 standards every year. These standards are developed to address the most pressing issues of today, such as clear billing, energy management, disability access, nano-technology and more. They also cover various industry sectors, including Aerospace, Automotive, Built Environment, Food, Healthcare and IT.

All our standards are underpinned by a collaborative and rigorous approach perfected over decades. We always work closely with industry experts, government bodies, trade associations, businesses of all sizes and consumers to develop standards that drive excellence.



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We currently work with over 80,000 clients in 172 countries worldwide to help them adopt and cultivate continuous habits of best practice. We also train all our clients and provide them with practical implementation guidance, as well as a comprehensive suite of compliance tools. And to ensure our clients get the very best service, we're also independently assessed and accredited globally by ANAB (ANSI-ASQ National Accreditation Board) and 26 other accreditation bodies throughout the world, including UKAS (United Kingdom Accreditation Service).

Our reach is global and we play a key role within the International Organization for Standardization (ISO). As one of the founding members, we help make sure international standards developed address today and tomorrow's business and societal needs, while delivering real benefits to an organization and all its stakeholders.

Speak to one of our experts
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for more information.

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