

The Problem

The rising demand for air conditioning has led to a steep increase in energy use over recent years. Air conditioning units often operate inefficiently with research indicating that as much as 40% of the energy used by older systems is wasted. So it is easy to see why carbon emissions are projected to rise 25% by 2020.

The Regulations

In a drive to counter air conditioning related emissions the European Energy Performance of Buildings Directive (EPBD) now requires that:

- Air conditioning systems must be inspected at least once every five years by an accredited assessor
- Larger systems (250kW or higher - sufficient for around 2,000m² of conditioned office space) should be inspected immediately, if they have not been already.
- Smaller systems (over 12kW - typically serving around 200m² of general office space, or 100m² of space used for high energy activities such as IT) must be inspected before 1 January 2011.
- Multiple air conditioning units in the same building, under the technical control of one person, are considered to be a single system.
- Systems wholly used for process cooling (eg cold stores or production) are excluded from the legislation.
- Air conditioning systems must also be checked for leakage of greenhouse compounds known as Fluorinated gases ('F Gas' Regulations)
 - inspection by certified companies is required at least annually, or up to every three months depending on size, as well as within one month of any repair
 - Any removed fluids must be handled and disposed of correctly to prevent gases from escaping into the atmosphere

Independent Inspection

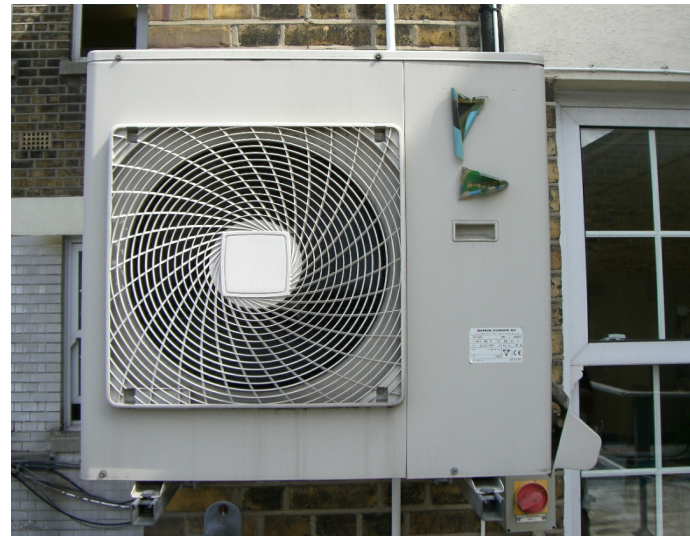
Green Compliance Air Conditioning Inspectors are fully accredited, technically qualified experts with many years experience in the industry. We offer a prompt and professional service, with national coverage and a choice of reporting standards to meet your needs, from basic compliance to full advisory.

Green Compliance offers a full range of low carbon and compliance consultancy services, including a unique web-based energy management and control system.

For more information or to talk to the team about producing a proposal for you, call us on

01285 771296 or email us at energy@greencomplianceplc.com

www.greencomplianceplc.com/energy



A **Green Compliance inspection report** will highlight opportunities to improve efficiency by repairing or upgrading equipment or optimising its operation.

A report will cover the:

- condition and maintenance of refrigeration plant, outdoor heat rejection equipment and indoor heat exchangers
- design, condition, location and effectiveness of air handling systems
- suitability of system capacity
- control strategies - timers, temperature sensors, set points, interaction with any heating system
- adequacy of records and documentation

