

# INSTALLATION REQUIREMENTS FOR OIL FIRED APPLIANCES AND OIL STORAGE AND SUPPLY SYSTEMS

## PART ONE - DOMESTIC

Part 1 of this book covers the installation requirements and guidance for fixed combustion oil fired appliances with an output capacity of up to 45 kW, providing space heating and hot water supply. Part 1 also covers requirements surrounding domestic oil storage tanks up to 3,500 litres storage capacity and supply systems to single family domestic dwellings.

For installation requirements of fixed combustion oil fired appliances with an output capacity of 45 kW and above, reference should be made to British Standard 5410: Part 2.

Oil fired appliances and storage and supply systems are inherently safe but, as with any combustion or fuel storage/supply process, good practice and statutory requirements must be complied with. This book summarises the requirements of good practice and legislation affecting oil firing. It is not, however, a substitute for a study of the original documents to which it refers.

OFTEC believes that many technicians in the industry have a determination to improve their knowledge and skills. Quite often this is not realised until after a formal education has finished. The huge personal reward from self-learning and knowing that a certificate or qualification has been achieved as a result of one's own efforts and discipline has enabled people to go on and achieve even more.

### **IMPORTANT**

**Specific regional requirements may differ from the guidance contained in Parts 1 & 2 of this publication**

**Reference must be made to the Regional Requirements section which can be found at the back of this publication**

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# OFTEC TECHNICAL BOOK THREE PART 1 (DOMESTIC) INTRODUCTION TO OFTEC

## OFTEC

The Oil Firing Technical Association (OFTEC) was formed in April 1991. The members of the Association are the major oil companies, oil distributors, manufacturers of equipment and training assessment centres utilised by the oil firing industry in the United Kingdom and the Republic of Ireland.

OFTEC aims to make available to the industry, tools, equipment and products to enable all concerned to carry out their functions compliantly.

An important aspect of OFTEC's work is the testing, approval and certification of oil firing equipment. A scheme for this is operated under the name of OFCERT®. OFCERT® is an integral part of OFTEC's mission to promote excellence in oil fired heating and cooking. Specifiers and users of OFCERT® approved oil firing equipment can be sure that it exceeds the latest standards of manufacturing. Equally, because OFCERT® is the dedicated testing and certification scheme for oil firing equipment, it gives added kudos to the high standards of manufacture within the industry.

OFTEC Member Independent Test Houses carry out testing to OFCERT® requirements. Each Test House must have UKAS or ILAB approved test procedures and are consulted with regard to the development of OFCERT® Standards. Manufacturers can apply for OFCERT® approval for their own test facilities as Auxiliary Test Facilities, providing they meet stringent criteria including UKAS or ILAB approval for their operations. Testing at Auxiliary Test Houses are usually required to be supervised by an appropriate Main Test House. Main Test Houses are first class independent or government laboratories. A full list of current test houses can be found in the OFTEC Equipment Directory.

The OFTEC Equipment Directory is a valuable resource for specifiers and users of oil firing equipment. Updated regularly, the Directory is available online and contains comprehensive details of oil firing and associated equipment. It also shows which products have obtained the extra kudos of OFCERT® approval.

OFCERT® licences are awarded to equipment that has passed a test to the OFTEC Standard and is produced to a Quality Assurance scheme incorporating that standard. The scheme is operated under the overall supervision of the OFCERT® Directorate.

### OFTEC Standards

- OFS A100** - Heating boilers with atomising burners, outputs <70kW and max operating pressure of 3 bar.
- OFS A101** - Oil fired cookers with atomising or vaporising burners with or without boilers, outputs <45kW.
- OFS A102** - Roomheaters with atomising or vaporising burners with or without boilers, outputs <25kW.
- OFS A103** - Used lubricating oil burners for space and water heating appliances, outputs <400kW.
- OFS T100** - Polyethylene oil storage tanks for distillate fuels.
- OFS T200** - Steel oil storage tanks and tank bunds for use with distillate fuels, lubrication oils and waste oils.
- OFS E100** - Oil Pressure atomising nozzles for use with kerosene.
- OFS E101** - Remote acting fire safety valves for use with oil supply systems.
- OFS E103** - Gauges for use with oil supply tanks.
- OFS E104** - Filters and water separation for use with oil supply systems.
- OFS E105** - Overfill alarms and overfill prevention devices for use with oil supply tanks.
- OFS E106** - Flues for use with oil fired boilers with outputs <50kW.
- OPS 21** - Fire protection screen walls for use with oil storage tanks – Minimum requirements and testing.
- OPS 23** - De-aerators – Minimum requirements and testing.

