

Installation and maintenance of domestic direct gas-fired tumble dryers of up to 6 kW heat input (2nd and 3rd family gases) — Specification

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GSE/30, Gas installations (1st, 2nd and 3rd family gases), upon which the following bodies were represented:

- Boiler and Radiator Manufacturers' Association Ltd
- British Flue and Chimney Manufacturers Association
- BSI Consumer Policy Committee
- Catering Equipment Suppliers' Association
- Centrica plc
- Council for Registered Gas Installers
- Department of Trade and Industry
- Health and Safety Executive
- Heating and Ventilating Contractors' Association
- ICOM Energy Association
- Institute of Domestic Heating and Environmental Engineers
- Institution of Gas Engineers and Managers
- LP Gas Association
- National Association of the Laundrette Industry
- Society of British Gas Industries
- Society of Laundry Engineers and Allied Trades Ltd
- Co-opted members

The following body was also represented in the drafting of this standard, through subcommittees and panels:

Kitchen Specialists Association

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Foreword

This British Standard has been prepared by Technical Committee GSE/30. It supersedes BS 7624:1993, which is to be withdrawn in November 2004.

A period of three months has been allowed for users of the old standard to convert to the new standard.

This revision to BS 7624 reflects changes to the relevant legislation and the publication of BS EN 1458-1:2000, which covers the safety of gas fired tumble dryers and replaces BS 5258-17. The previously accepted use of a tumble dryer in a flueless mode is not recognised in BS EN 1458 and, accordingly, this standard only endorses the venting options detailed in the scope.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

In particular, attention is drawn to the following statutory regulations:

- The Gas Safety (Installation and Use) Regulations 1998 [1]
- The Gas Safety (Installation and Use) (Northern Ireland) Regulations 2004 [2]
- The Gas Appliances (Safety) Regulations 1995 [3]
- The Building Regulations 2000, as amended [4]
- The Building Standards (Scotland) Regulations 1990, as amended [5]
- The Building Regulations (Northern Ireland) [6]
- The Gas Safety (Application) (Isle of Man) Order 1996 [7]

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 12, an inside back cover and a back cover.

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1 Scope

This British Standard specifies the installation (see Note 1) of direct gas-fired tumble dryers of up to 6 kW net heat input burning 2nd and 3rd family gases for use in permanent domestic dwellings (see Notes 2 and 3). It applies to any such tumble dryer used in conjunction with a flexible venting hose fitted to a wall or window vent terminal or, where the net heat input does not exceed 3kW, with a venting hose hung out of a window, so that combustion products and moisture are exhausted directly to the outside air.

NOTE 1 For the purposes of this standard, installation includes design, inspection and commissioning. It is recognized that each of these tasks can be performed by the same person.

NOTE 2 As well as normally constructed dwellings, domestic premises include any permanently sited caravans, holiday homes, residential park homes and permanently moored boats. Additional requirements exist for these categories of premises and can be found in IGE/UP/8 [8]. Neither this standard nor IGE/UP/8 [8] applies to gas installations in towed or motorised caravans.

NOTE 3 Whilst this standard specifies installations in domestic premises, it is recognized that it might also be referred to for similar installations in commercial and industrial premises. In such cases, additional legislation might be applicable. Attention is drawn to the hazards that exist in certain locations, e.g. hairdressing salons, where the atmosphere or drying load can contain flammable vapours.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 669-1, *Flexible hoses, end fittings and sockets for gas burning appliances — Part 1: Specification for strip-wound metallic flexible hoses, covers, end fittings and sockets for domestic appliances burning 1st and 2nd family gases.*

BS 5440-2:2000, *Installation and maintenance of flues and ventilation for gas appliances of rated input not exceeding 70 kW (1st, 2nd and 3rd family gases) — Part 2: Specification for installation and maintenance of ventilation for gas appliances.*

BS 5482-1, *Domestic butane- and propane-gas burning installations — Part 1: Specification for installations at permanent dwellings.*

BS 6891, *Specification for installation of low pressure gas pipework of up to 28 mm (R1) in domestic premises (2nd family gas).*

BS 7671, *Requirements for electrical installations — The IEE Wiring Regulations.*

3 Terms and definitions

For the purposes of this British Standard, the following terms and definitions apply.

3.1

appliance flexible connector

pipe with appropriate connector ends, designed to have a considerable degree of flexibility to facilitate the connection of a gas appliance to an installation pipe and allow the appliance to be moved a short distance without the need for disconnection [BS 669-1]

3.2

direct gas-fired tumble dryer

appliance in which textile material is dried by tumbling in a rotating drum through which heated air and products of combustion are forced or induced by mechanical means

NOTE Hereafter referred to as tumble dryer.

3.3

exhaust venting

process of removing moist air, including the products of combustion and lint, from a tumble dryer directly to the outside air

3.4

heat input

quantity of energy used in unit time corresponding to the volumetric or mass flow rates, the calorific value used being the net or gross calorific value [BS EN 778:1998 and BS EN 1319:1999]

NOTE Heat inputs in this document are based on net calorific value.

3.5

ventilation

process of supplying fresh air to, and/or removing air from a room, internal space, compartment or garage

3.6

ventilation air

air that may be used or intended to be used for purposes of combustion, cooling and/or exhaust venting of an appliance

4 Competence

Persons who carry out the work shall be competent.

The installation work shall be carried out by a business or self-employed person, who is a “member of a class of persons” approved for the time being by the Health and Safety Executive (HSE), as required by the Gas Safety (Installation and Use) Regulations [1].

Persons who design the installation shall have a knowledge and understanding of the standards and regulations that apply to ensure that the completed plans will produce a safe and satisfactory installation.

COMMENTARY AND RECOMMENDATIONS ON CLAUSE 4

At the time of publication, the body with HSE approval to operate and maintain a register of businesses who are members of a “class of persons” is the Council for Registered Gas Installers (CORGI). Therefore, it is essential that all businesses or self-employed gas installers are registered with CORGI.

Guidance on the individual competency required for gas work are those who, either hold a certificate of gas safety competence acceptable to CORGI which include (without limitation) the Accredited Certification Scheme (ACS) and/or the Gas Services S/NVQ that has been aligned to ACS.

5 Design and planning

The following shall be ascertained before planning of the installation begins:

- a) the availability of gas supplies;
- b) the availability of adequate ventilation;
- c) the position of the proposed location of the tumble dryer in relation to doors, external walls (outside air) and to the probable position of fixtures, furniture and curtains;
- d) the electrical supplies available;
- e) the recommended method of installation given in the tumble dryer manufacturer’s literature;
- f) the availability of a stable and rigid base for the tumble dryer; and
- g) the most appropriate method of exhaust venting.

COMMENTARY AND RECOMMENDATIONS ON CLAUSE 5

Collaboration is essential between those concerned with the design of a tumble dryer installation and those responsible for installing the tumble dryer, both at the planning stage and during the execution of the work.