



The HETAS Guide



to Approved Solid Fuel,
Wood and Biomass
Products and Services

List no. 23

2017



Explanation of Part 1 Appliance Feature Icons

Where more than one icon from a group appears in a single appliance listing then both options may be available for that particular product. Please contact the manufacturer for details.

ICON	INSTALLATION
	The appliance is suitable for installation either in a freestanding configuration or within a suitably sized builders recess.
	The appliance is suitable for installation within a non-combustible building recess.

ICON	AIR CONTROLS
	The appliance temperature is controlled via a manual primary, secondary and tertiary control system.
	The appliance temperature is controlled via a thermostatically controlled primary air inlet control.
	This appliance has an automatic combustion control system usually via Lambda oxygen sensor in flue, induced draught fan and motorised air flaps.

ICON	APPROVED TO BURN THE FOLLOWING FUELS ONLY
	This appliance is designed to burn seasoned wood logs. Fuel specification should be supplied by appliance manufacturer.
	This appliance is designed to burn wood chip. Fuel specification should be supplied by appliance manufacturer.
	This appliance is designed to burn high quality wood pellets of approximately 6mm to 8mm diameter. EN plus is broadly recognised as a required specification.
	This appliance is designed to burn Manufactured and Natural smokeless solid mineral fuels as approved for closed appliances in <i>Part 3 - Solid Mineral Fuels</i> of this Guide.

ICON	DECLARED BURNING DURATIONS (WITH SPECIFIED FUELS) SEE PARAGRAPH "INTERMITTENT OR CONTINUOUS BURNING" ON PAGE 10
	The appliance is typically refuelled over a certain period of time in intermittent batch charges to achieve specified performance.
	The appliance has been verified as burning fuels over a continual period of time under reduced combustion conditions.
	This appliance is classed as "intermittent" when burning solid mineral fuels as approved for closed appliances in <i>Part 3 - Solid Mineral Fuels</i> of this Guide.
	This appliance is classed as "continuous" when burning solid mineral fuels as approved for closed appliances in <i>Part 3 - Solid Mineral Fuels</i> of this Guide.

HEARTH TEMPERATURE & PLACEMENT - (FREESTANDING ROOM HEATERS ONLY)	
	The appliance has been verified as suitable for use on a constructional hearth, made of solid non-combustible material at least 125mm thick.
	The appliance has been verified as suitable for use on a superimposed hearth, made of solid non-combustible material at least 12mm thick.
AUTOMATIC IGNITION	
	This appliance features automatic ignition. In normal operation the fire may go out and can be re-ignited automatically when required by system controls.
ADDITIONAL INSTALLATION OPTIONS	
	This appliance is designed and tested outdoor installations.
REFUELLING FACILITY	
	The appliance incorporates a manual option for refuel and consideration should be given to the minimum refuel times stated.
	The appliance features a means to automatically provide fuel into the combustion chamber in the form of a fuel hopper or equivalent.
ADDITIONAL REFUELLING INFORMATION	
	The appliance can be refuelled from the top. Special consideration should be given in situations where space is limited above the appliance.
	The appliance can be refuelled from the front. Special consideration should be given in situations where space is limited in front of the appliance.
ADDITIONAL SYSTEM REQUIREMENTS	
	A correctly sized accumulator tank must be fitted to the system, please refer to manufacturer instructions for suitable sizing & positioning of tank.
	A heat leak radiator must be fitted to the system to ensure heat in overfiring conditions can be dissipated from the central heating system safely.
EXTERNAL CERTIFICATIONS	
	A DEFRA Exempted Appliance and can be used in Smoke Control Areas when operated in accordance with the specified conditions of the exemption and burning only the specified fuels in accordance with the manufacturer's operating instructions. It is important to note that the appliances marked as DEFRA Exempted refers only to England. Exemption for the now devolved administrations of Wales, Scotland and Northern Ireland are subject to separate legal processes and the installer must verify the status of the exemption in relation to the country of the installation; see www.uksmokecontrolareas.co.uk . It should be noted that bituminous coal and wood in any of its forms - including pellets - is not by law permitted to be burned on appliances in Smoke Control Areas, except where the appliance has been exempted under Part II (4) of the Clean Air Act, 1993.
	A HETAS Approved Appliance that has been certified by HETAS as meeting the requirements of the Microgeneration Certification Scheme (MCS).

The HETAS Guide to Approved Solid Fuel, Wood and Biomass Products and Services

List no. 23

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HETAS Limited

Severn House Unit 5, Newtown Trading Estate, Green Lane, Tewkesbury, GL20 8HD

01684 278170

info@hetas.co.uk

www.hetas.co.uk

Disclaimer:

All applicable regulations standards and legislation should be met in full.

Registered or certified installers shall ensure they have a system to identify all applicable regulations and changes with consideration to geographical locations. All work practices shall be in compliance with all relevant Health and Safety regulations.

This document is based on the best knowledge available at the time of publication. However no responsibility of any kind for any injury, death, loss, damage or delay however caused resulting from the use of this theory or recommendations can be accepted by HETAS or others involved in its publication.

This publication is primarily intended to provide guidance to those responsible for the design, installation, commissioning, operation and maintenance of solid fuel appliances or associated products. It will be necessary for users of this guidance given to exercise their own professional judgment when deciding whether to abide by or depart from it.

This edition supersedes all prior editions of the HETAS Guide.

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Introduction & Forewords

Foreword

A message from the Parliamentary Under-Secretary of State for Environment, Food and Rural Affairs, Dr Thérèse Coffey

Wood burning stoves are growing in popularity and can provide an alternative ways to heat our homes.

This HETAS Guide contains a wealth of information to help us all make informed decisions on purchasing the most efficient stoves and fuel – so people can use their stoves to warm their homes as cleanly as possible. It also sets out clearly which stoves can be legally used in Smoke Control Areas across the country.

The new Ecodesign Ready brand being launched this year is a great example of industry taking the lead to promote the benefits of more efficient and cleaner technologies. These appliances will meet the fundamental requirements of the new Ecodesign Directive that will start in 2020 for solid fuel boilers and 2022 for solid fuel local space heaters. The Ecodesign Ready brand will identify those appliances that meet the most important emissions elements of new high standards of performance needed to comply with the directive and with lower emissions than older models.

It is also important that stoves are installed safely and correctly and then used properly to protect our health and environment.

Retailers and those installing stoves have a responsibility to make sure their customers understand what they can and cannot burn in a stove and how to use them properly. This makes sure that the stoves are running in the most efficient and cost effective way as well as ensuring they are not creating unnecessary smoke and air pollution.

That is why I am pleased to work with HETAS, the stove industry representatives, wood suppliers and retailers to identify how we can work together to improve consumer understanding of stoves and how to make sure they can burn cleanly.

It is important that stove owners know that dry wood burns better and is better value for money. It is also important to understand that dry wood reduces emissions of smoke and soot, which cause air pollution and the health problems that go with it, whilst wet wood or general household waste generate more dangerous particulate matter pollution.

We are working with organisations to spread the messages and raise the profile of the benefits of buying certified wood. Properly seasoned and dried wood can reduce levels of pollution from a home stove by up to 50%.

Buying new clean stoves, burning seasoned wood and regular servicing will help to cut dangerous air pollution and produce more heat from less fuel and I welcome the proactive approach taken by HETAS and others in the stove industry to ensure that innovation and technology sit alongside advice on how to use modern stoves cleanly.

The Government's ambition is that ours will be the first generation to leave the natural environment of England in a better state than we found it and we are firmly committed to improving the UK's air quality and cutting harmful emissions.

But we all have a role to play to ensure we help consumers understand how to make their stoves burn cleanly and the HETAS Guide helps us all make informed decisions.

Foreword by the Stove Industry Alliance



Formed in 2008, the Stove Industry Alliance (SIA) has quickly established itself as the representative body of manufacturers and suppliers in the stove industry and has agreed the following objectives for its work;

- To lobby and influence government and promote to consumers on the benefits and environmental advantages of stoves as heating appliances
- To monitor the markets and sales trends in the UK and Ireland
- To brief the HETAS Technical Committee on relevant issues
- To emphasise that the members of the SIA commit to ensuring that their products meet the appropriate standards of quality, safety and efficiency

Follow the SIA on Twitter and LinkedIn. www.stoveindustryalliance.com

The SIA works closely with HETAS and commends this HETAS Guide to all readers.

Foreword by the British Flue & Chimney Manufacturers Association



The British Flue and Chimney Manufacturers Association (BFCMA), works closely with HETAS to bring you, the installer, the most effective and safe chimney and flue solutions possible. The BFCMA website, www.bfcma.co.uk, contains guidance on how best to install chimneys and flues made from stainless steel, pumice, clay, concrete and plastic. A guide on the installation of chimneys and flues for wood burning appliances is available for download.

The factory-made chimney manufacturers, flue manufacturers, sole importers and chimney specialists who make up the members of the BFCMA are the flag bearers of this industry. They are proud of their products and together with HETAS actively promote the highest quality, safety and service. Only the BFCMA members specifically highlighted in this Guide, work in concert with HETAS, and willingly give time and resources in the formulation of British and European Standards for the benefit of the consumer who expects and is entitled to the professionalism that trade associations such as the BFCMA promote.

For members of the British Flue and Chimney Manufacturers Association please see **Part 2: Factory Made Chimneys & Chimney Lining Systems** from page 133.

Introductory Notes

General

1. This Guide has been prepared by HETAS. It is also utilised for guidance by local authorities and others concerned with the choices of wood burning, biomass and other solid fuel appliances for new builds, or as replacements in existing dwellings.
2. The Guide contains details of all wood burning, biomass and other solid fuel products currently in production and approved by HETAS. HETAS is a company limited by guarantee with no share capital. It is a member organisation comprising of industry representatives including representatives from the Solid Fuel Association (SFA), Kiwa Gastec at CRE Ltd, the British Flue and Chimney Manufacturers' Association (BFCMA), the National Association of Chimney Sweeps (NACS), the Association of Professional Independent Chimney Sweeps (APICS), Specflue, the Renewable Energy Association (REA) and the Stove Industry Alliance (SIA). A senior civil servant from the Department for Business, Energy & Industrial Strategy is also invited to attend HETAS member meetings.
3. The Guide also refers to fuels which have been tested as suitable for use with the appliances listed. Factory-made insulated chimneys are also listed which have passed British Standard or equivalent tests, not necessarily carried out by HETAS, indicating their suitability for use with solid fuel burning appliances. Permanent Ventilators are listed that meet accepted norms and which are essential for the safe operation of solid fuel burning combustion appliances.
4. Although HETAS has taken reasonable efforts to check the information provided to it by manufacturers and has taken reasonable care in carrying out tests and assessments; HETAS does not accept any liability arising from any inaccuracy in this publication or from the inclusion of any plant, equipment or fuels in any category.

Selection Of Wood, Biomass & Solid Fuel Appliances

1. Specialised advice should always be sought before the selection of an appliance, to ensure that it will adequately meet the needs of the user and is appropriate for the building it is installed in. During the selection process consideration will need to be given to the size and construction of rooms to be heated, hot water requirements, frequency of attention to the appliance, its cost and installation charge, its air ventilation requirement to supply sufficient combustion air, and the space required for a safe dry area in which to store quantities of appropriate fuel.
2. Special care should be taken in selecting a multi-duty appliance, ie. one providing two or more heat services such as space and water heating or cooking and water heating, to ensure that each individual heat service is adequate for its purpose.
3. It is not easy to ensure distribution of heat throughout very large rooms, of above circa 100m³ capacity, and the shape of the room and positioning of the heating appliance must be carefully considered before deciding to use a single appliance, even if it is apparently large enough.
4. The facility to operate an open fire appliance overnight is often required; those listed without qualifications are intended to offer this amenity. See also the "Selection of Fuels" clause of these notes. The new European Standards specify the categorization of appliances as *continuous* or *intermittent*.
5. *HETAS Approved Retailers* have showrooms with consistent product labelling for easy comparison and trained showroom staff to ensure the customer gets professional advice. They also have the full set of HETAS Consumer Advice Sheets to help answer common questions.
6. Advice as to the choice of appliance, its correct installation, the approved fuels recommended for use on it and the ancillary equipment suitable for use with it can also be obtained from the Solid Fuel Association, Registered Heating Contractors, the Stove Industry Alliance and the British Flue and Chimney Manufacturers' Association.

Safety

HETAS Approved Appliances are designed to be safe in use and have been assessed for safety and thermal performance, but it is essential to refer to the manufacturer's installation and operating instructions and also to any permanent warning label.

It is recommended that a permanent warning label along the following lines is carried by approved room heaters however, it is not mandatory for recently approved appliances under the new BS ENs.

WARNING

- Fumes from blocked chimneys can kill.
- Keep chimneys clear, sweep at least annually.
- Keep throat plates and flue ways clear; clean at least monthly.
- Use only recommended *Approved Fuels*.
- Read and follow manufacturer's instructions.

Chimneys and flue pipes must be swept at least annually if smokeless fuel is burned, and more often if wood and/or bituminous coal is burned.

Open fire boilers, free-standing boilers, and cookers, must have all internal flue ways cleaned at least monthly.

Remember that the people in the room and also the appliance itself need air and any draught-proofing or double glazing must allow adequate ventilation as required by the Building Regulations. Further advice is given in *Part 4 - Care & Maintenance; Permanent Ventilators (for the Supply of Combustion Air)* where *Approved Products* are listed that when properly installed ensure adequate ventilation for combustion air.

If for no obvious reason, the appliance starts to burn slowly and an occupant smells or suspects fumes, or a CO alarm is activated, they should open doors and windows, put the fire out and evacuate the premises. Do not use the appliance or burn any fuel until the installation has been inspected and declared as safe for use.

There are three trade organisations associated with the *HETAS Approved Chimney Sweep Scheme*. They are the *National Association of Chimney Sweeps*, the *Guild of Master Chimney Sweeps* and the *Association of Professional & Independent Chimney Sweeps*. See *Part 4 - Care & Maintenance* of this Guide or the HETAS website www.hetas.co.uk for further details.

Building Regulations require that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm **must be fitted in the same room as the appliance**. Further guidance on the installation of the carbon monoxide alarm is available in BS EN 50292:2002 and from the alarm manufacturer's instructions. Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

Never leave an open fire unattended without a spark guard (to BS3248) and always use a fire guard (to BS8423) when children and elderly and/or infirm people are present.

Selection of Fuels

The selection of fuels is important to ensure safe and optimal appliance performance and efficiency.

There are a number of considerations to select the right fuels for use on each appliance.

- In Smoke Control Areas only authorised fuels may be used except where the appliance has been exempted under Section 11 (4) of the Clean Air Act, 1993 Clean Air (Northern Ireland)1981, and is specially designed to burn selected bituminous coals. Wood of any type including logs, pellets and chips is not a fuel permitted to be used in a Smoke Control Area unless it is burned in an exempted appliance which is designed to significantly reduce the smoke emitted. These exempted appliances are designated with a  symbol in this Guide for easy recognition.
- The manufacturer's recommendations or requirements should be a primary consideration.
- Access to fuel and availability of suitable storage.
- Customer preference.

See *Part 3 - Wood, Biomass & Solid Mineral Fuels* of this Guide from page 163 for further information.

Installation of Appliances

- The installation of the combustion appliance, its chimney and associated system and controls are all controlled services and therefore covered by the Building Regulations. This requires installation by a HETAS Registered Installer or by some other means of installation that complies with the Building Regulations (eg. application by the consumer for a building notice from the local authority prior to undertaking the work.)
- The performance of an approved appliance may be impaired by its incorrect installation and/or the faulty construction of the house or chimney, but will not in general be affected by the choice of surround and the finish of the appliance, provided dimensional and constructional requirements are complied with.
- The approved appliances in this Guide give the best service only when installed to manufacturer's instructions and when burning an approved fuel. Attention is drawn to the Building Regulations and any local bye-laws affecting installation. HETAS operates a Competent Person Self Certification scheme for installers and companies working in the Wood, Biomass and Solid fuel sector. Details of the scheme can be found in *Part 4 - Care & Maintenance* of this Guide or on the HETAS website.

Approval Status of Installed Appliances

HETAS approval of appliances consists of assessment of a type test report from a Notified Laboratory to the relevant BS EN supported by the manufacturer's production control, followed by periodic surveillance of the product as appropriate. HETAS also checks manufacturers Installation and Operating Instructions to confirm that they meet UK Building Regulations and conform to UK practice. While the appliance remains in the Guide, this surveillance continues, to ensure that the product remains the same as the original unit tested.

Any solid fuel appliance that was approved at the time of manufacture, and which was subsequently installed, maintains its approved status even if at a later date the model is removed from the Guide.

New units of the model, produced after removal from the Guide are, however, not approved as they will have been produced at a time when the product surveillance by HETAS had ceased. It would not, therefore, be possible to ensure that the new units were the same as the unit originally tested.

HETAS approval applies to the original manufacturer of a product and his nominated agents only..

HETAS check the validity of any CE marking during the HETAS approval process however HETAS Approval cannot be regarded as a substitute for CE marking.

Installation of Non-Approved Appliances

When an installer installs a solid fuel, wood or biomass appliance they must satisfy themselves that the installation and associated work meets all the relevant Building Regulations (primarily Regulations 4 and 7).

This includes:

- A suitable appliance.
- Any associated ancillary systems such as chimneys, vents, carbon monoxide alarms, hearths etc.
- The standard of workmanship of the installation.
- The testing, commissioning and approval of the installation.

HETAS promotes the installation of approved appliances, but we are occasionally asked whether installers can install non-approved appliances. There may be no reason why it can't be fitted, BUT the onus of ensuring the appliance is fit for purpose is now with the installer. Currently it IS NOT illegal to purchase an appliance that does not meet the requirements of British and European standards, but it IS illegal for the same appliance to be installed in the UK, and at that point the installer may have breached Building Regulations and *would be responsible for any remedial work or legal consequence*.

From 1st July 2013 it became a requirement that manufactured appliances must be CE marked.

CE marking is a self declaration by the manufacturer and alone does not confirm all of the requirements of Building Regulations have been met although it is a great help in judging an appliance. The installer will need to make sure the appliance complies with various requirements like its efficiency (in gross rather than net) to ensure that when fitted it meets the minimums stated in the Domestic Building Services Compliance Guide.

They would have to carry out a check to see that it has been correctly tested by a notified test laboratory to the relevant BS EN standard. The test reports, and user documentation (including any CE labelling) usually gives the efficiency value as a net efficiency. This net value must be converted to the gross value to check against the UK Building Regulations requirements which are stated as minimum levels on a gross basis. For example, for wood-burning stoves, this means multiplying the net figure by 0.91 as a guide. The new figure (a smaller one) is representative of the gross efficiency.

Any reputable manufacturer should be able to provide you with adequate information to make an informed decision, BUT where this is not forthcoming, or there is doubt, HETAS would recommend that you DO NOT install the appliance.

Alternatively choose a *HETAS Approved Appliance* from this Guide. These have been through a careful examination process by industry experts to ensure that the efficiency and rated output and any other claims made by the manufacturer can be substantiated by appropriate testing through an accredited testing laboratory to the correct standard. HETAS also check that the user and installation instruction manuals are suitable for the UK market and that the efficiency of the appliance meets the UK Building Regulations requirements.

One of the main reasons for the HETAS Approval system is to make it easier for installers and consumers to have confidence in the appliances they buy and install.

The purpose of this HETAS Guide, and the up to date online version, is to list products that are proven to be suitable for a safe and compliant installation.

HETAS Website; www.hetas.co.uk

This *HETAS Guide to Approved Solid Fuel, Wood and Biomass Products and Services* is also available in a digital version online at the HETAS website and is updated on a monthly basis. The HETAS website also features an interactive search facility to help you find the appliance or chimney component that best suits your needs.

All *HETAS Registered Installers, Approved Retailers, Approved Chimney Sweeps* and fuel producers are also reachable on the website using the interactive postcode search facility. There are also full details of HETAS training courses and HETAS *Approved Training Centres* across the UK. To find out more about available HETAS schemes please see the website or *Part 4 - Care & Maintenance* of this Guide.

Explanation of the Acronyms used in the HETAS Guide

ADJ	Approved Document J
ADL	Approved Document L
APICS	Association of Professional Independent Chimney Sweeps
BBA	British Board of Agrément
BEIS	Department for Business, Energy & Industrial Strategy
BFCMA	British Flue and Chimney Manufacturers Association
BRE	British Research Establishment
BS EN	British Standard European Norm
BSRIA	Building Services Research and Information Association
CSTB	Centre Scientifique et Technique du Bâtiment
CE	Conformité Européen
CoGDEN	The Council of Gas Detection and Environmental Monitoring
CEN	European Committee for Standardisation (translated)
CPR	Construction Products Regulation
CPS	Competent Person Scheme
DCLG	Department for Communities and Local Government

DEFRA	Department for Environment, Food and Rural Affairs
GoMCS	Guild of Master Chimney Sweeps
HHIC	Heating & Hot Water Industry Council
HETAS	Heating Equipment Testing and Approval Scheme
MCS	Microgeneration Certification Scheme
NACS	National Association of Chimney Sweeps
QA	Quality Assurance
REA	Renewable Energy Association
RHI	Renewable Heat Incentive
SAP	Government's Standard Assessment Procedure for Energy Rating of Dwellings
SCA	Smoke Control Area
SFA	Solid Fuel Association
SI	Statutory Instrument
SIA	Stove Industry Alliance
TÜV	Technischer Überwachungsverein
Wimlas	Wimpey Laboratories (BRE)

HETAS Registered Installer

There are so many reasons to get registered with HETAS...

APPLY NOW:
registration@hetas.co.uk
01684 278170
hetas.co.uk



SCHEME BENEFITS:

- ✓ Online listing on the HETAS Find Installer search. The HETAS website receives over 50,000 monthly visits
- ✓ Competent Person Scheme: self certification of installations
- ✓ 24/7 access to online notification system and Technical Area
- ✓ Access to the HETAS Shop - including notice plates, equipment and branded workwear
- ✓ Call our specialist Technical Helpline - over 35,000 queries answered
- ✓ Use of the HETAS Registered Installer logo
- ✓ Free HETAS Technical Handbook, HETAS Guide & HETAS Registered Installer ID card
- ✓ Discounts on Which? Trusted Trader membership & Soletrader.com web design
- ✓ Regular Technical Bulletins & e-news updates from HETAS
- ✓ Free membership of "Prompt Payer" for ethical debt recovery

Get a **HETAS** stamp of approval

Additional schemes are available





MAXIBRITE

www.maxibrite.co.uk

Maxibrite is a UK leader in manufacturing high quality smokeless briquettes, with more than 50 years experience. Our company supplies quality briquettes for open fires, closed appliances and multifuel stoves. We have built an enviable reputation as a reliable provider and we pride ourselves on our service and products. We are continually investing in our manufacturing facilities and processing technology to produce innovative products for the benefit of our loyal customers.

Maxibrite produces over 70,000 tonnes of HETAS approved smokeless briquettes every year. A team of experts with industry knowledge have helped develop a range of products, which are used in the domestic heating market in the UK and exported into major markets in France, Germany and Ireland.

Maxibrite produces a range of HETAS approved products suitable for a wide variety of applications and requirements;

- Coalite Ovals
- Maxibrite
- Newflame Plus
- Supacite
- Coalite
- Therma
- Extracite
- Newflame
- Cosy Coke

Maxibrite Ltd.

Mwyndy Industrial Estate, Llantrisant, Mid Glamorgan, CF72 8PN

01443 224283

sales@maxibrite.co.uk

www.maxibrite.co.uk

