

PART 1

APPLIANCES BURNING SOLID MINERAL FUELS AND WOOD

A. INTRODUCTION

The wide range of appliances listed in this section are designed to burn either solid mineral and/or wood based fuels.

Principally, the solid mineral based fuels consist of manufactured smokeless fuels which have been “authorised” for use in smoke control areas and which have been subjected to Approval testing themselves. The tests applied show these fuels to be suitable for either open or closed appliances or in some cases for both types of appliance. In selecting a suitable fuel for your appliance reference should be made to the headings of the appliance sections and the notes which accompany the individual appliance listings and Part 2 of this ‘Guide’. Additionally, naturally occurring smokeless fuels such as anthracite may also be burned in smoke control areas. These fuels are listed against those appliances for which they are suitable.

Where the various grades of House Coal, wood logs and other wood products are listed against appliances, in general, they must not be burned in smoke control areas. However, a number of appliances are especially designed to burn specific grades of bituminous coal, wood logs and other wood products with a high degree of smoke reduction sufficient to permit their use in smoke control areas. **These “exempted” appliances are designated with a † after their name in this Guide.** An up to date list of authorised fuels and exempted appliances, for use in smoke control areas, is available from the Department for Environment, Food and Rural Affairs, Air Quality Policy Division, Zone 4/D13, Ashdown House, 123 Victoria Street, London SW1 E 6DE and are given on their website, “www.uksmokecontrolareas.co.uk”.

DEFRA Exempted Appliances must be 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

Wood logs and wood based products are of major importance following the implementing of the Energy Performance of Building Directive (see below). They should be from renewable sources to claim low CO₂ emission values. Where the appliance is a DEFRA “exempted” appliance designed to burn wood logs then specific conditions as to the quality of the wood fuel are imposed by the Statutory Instrument. Usually this requires the use of untreated dry wood i.e. without halogenated organic compounds or heavy metals as a result of treatment with wood-preservedatives or coatings. Sometimes the SI refers to air-dried wood logs or untreated dry wood. Where appliances are designed to burn wood chips or wood pellets the fuel size, quality and type specified by the manufacturer should always be adhered to.

Petroleum coke is not recommended by HETAS for use on solid fuel burning appliances because its use can result in serious damage to grates and other appliance components in the firebed area. However, a number of products which contain petroleum coke or are blends of petroleum coke with other fuels have been tested and approved (see Introductory Note 4.6).

With the adoption by the UK of the Energy Performance of Buildings Directive and its introduction via Building Regulations L, we list the nominal output and efficiency at nominal output of all the appliances listed. These have been obtained from Type Test Reports from Notified Laboratories in Europe against harmonized European Standards. UK Building Regulations require that if a solid fuel burning appliance is to be installed it must have an efficiency which meets minimum levels. These levels are the same as those required for HETAS Approval and are given in Section 6 of the Introductory Notes at the front of this Guide. Further, if burning the same fuel, any replacement appliance must have an efficiency no more than 2 efficiency points less than the appliance it replaces. If the replacement appliance burns a different fuel, then a calculation based on relative carbon emissions is applied. A list of the efficiencies of earlier HETAS Approved Appliances based on BS testing is given on the HETAS web site, “www.hetas.co.uk”.

For new installations an SAP assessment must be carried out. These efficiency and output figures may then be used for SAP calculations remembering that they are for nominal output conditions. Currently, when the appliance is for supplementary heating the nominal output efficiency is used. Where the appliance supplies full heating for the house and no slow combustion Test figure is available a default figure is applied for slow combustion being 95% of that at nominal output. This usually results in a “seasonal” efficiency of 97.5% of the measured efficiency at nominal output.

The appliances listed provide a wide choice of styles and outputs ranging from open fires with and without water heating boilers, through roomheaters and stoves with and without boilers and cookers which may also include small or large output boilers to independent central heating boilers. Care should be taken in the selection of the appliance best suited to the specific needs of your house and your life style. A number of organisations are ready and able to give help should you require it and their names and addresses are given elsewhere in this publication.

B. OPEN FIRES

- OVERNIGHT BURNING** Except where otherwise stated in the "Manufacturer's Remarks" column the approval requirements for classification as overnight burning are deemed to have been met. Appliances which require a deepening plate for overnight burning will be intermittent if the deepening plate is not used. The statement 'Intermittent' indicates that although the appliance can be operated at low combustion rates it is not intended to burn overnight.
- DEEPENING BAR** Where these words appear in the "Appliances" column, a deepening bar is necessary to achieve the required heat output.
- OPTIONAL EXTRAS** Where a deepening plate or a deepening bar is shown as an optional extra in the "Manufacturer's Remarks" column, its use, although improving the performance of the appliance, is not essential

B1. INSET - INCLUDING THOSE WITH UNDERFLOOR AIR SUPPLY ATTACHMENT

Fires in this section are recommended for rooms of normal construction up to 50m³ maximum for 400mm fires and 57m³ maximum for 450mm fires and larger fires. Minimum rated outputs are 2.5kW for 400mm fires and 2.9kW for 450mm fires and larger fires.

Some makes of inset fires are marketed in two forms with the same name: one form for fixing to the hearth; the other, a "portable" model said to require no fixing. In such cases only the fixed model is approved.

Approval relates only to the appliance as a simple inset fire and selection for installation to an existing boiler should only be made with technical guidance. When an inset fire is approved for use with a specific back boiler it is shown as part of the complete unit in Section C and/or D.

APPROVED FUELS
<p>Fuels regarded as suitable for the appliances in this section are listed, as approved open fire fuels, in Table B (Manufactured Smokeless Fuels) and Tables D and E (Bituminous Coal) (see Introductory Note 4.5) of Part 2 (Fuels) of this 'Guide'.</p> <p>For fires with underfloor air attachment, also 'Sunbrite' Doubles. For fires with fans, also 'Sunbrite' doubles, 'Phurnacite' and Anthracite Large Nuts listed in Table C (Natural Smokeless Fuels) of Part 2 (Fuels) of this 'Guide' .</p>

Appliances	Manufacturers	Manufacturer's Remarks (See Notes above)
Carlton, 400mm with deepening plate	Esse Engineering Ltd Distributed by Castec	
Firemaster, Drop Front Firestar, 400mm	" " " "	Deepening bar not required
Parkray Paragon, 400mm , with deepening bar and deepening plate	Parkray Ltd.	Chrome iron 16mm air space bottomgrate available. Not suitable for petroleum coke but approved petroleum coke blends may be used if a chrome iron bottomgrate is fitted. See Introductory Note 4.6.

B2. FREESTANDING - CONVECTOR

Fires in this section have an adjustable throat (see Introductory Note 5.3) and allowance has been made for this in the room heating figures

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved open fire fuels, in Table B (Manufactured Smokeless Fuels) and Tables D and E (Bituminous Coal) (see Introductory Note 4.5) of Part 2 (Fuels) of this 'Guide'

Appliances	Manufacturers	Minimum Rated Output kW and Gross Efficiency At Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes page 14)
		Minimum Rated Output kW	% Gross Eff.	
Rembrandt, 450mm	AGA	3.6	52.6	Requires suitable recess according to maker's instructions. Intermittent.

B3. INSET – CONVECTOR - Formerly Section B4

Fires in this section are designed to be built into a builder's opening or into a recess.

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved open fire fuels, in Table B (Manufactured Smokeless Fuels) and dry matured wood logs (see Introductory Note 4.5) of this "Guide"

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output		Manufacturer's Remarks (See Notes page 14)
		Direct Room Heating kW	% Gross Eff.	
Universal 500	Jetmaster Fires Ltd	When burning wood using wood tray only 15.0	43.0	Manual primary air control. Burns wood logs using supplied wood tray only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Standard 18"	Jetmaster Fires Ltd	When burning wood using wood tray only 8.5	43.0	Manual primary air control. Burns wood logs using supplied wood tray only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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B3. INSET – CONVECTOR - Formerly Section B4 (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output		Manufacturer's Remarks (See Notes page 14)
		Direct Room Heating kW	% Gross Eff.	
Standard 16W	Jetmaster Fires Ltd	When burning wood using wood tray only 5.5	46.4	Manual primary air control. Burns wood logs using supplied wood tray only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Standard 16M	Jetmaster Fires Ltd	When burning wood using basket 18.0 When burning Smokeless fuels using basket 5.8	49.1 50.8	Manual primary air control. Supplied with basket for burning Manufactured and Natural Smokeless fuels as approved for open fires in Part 2 of this Guide and wood logs only. Refuel periods are 0.25 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Universal 600	Jetmaster Fires Ltd	When burning using wood tray 20.0	43.0	Manual primary air control. Supplied with either a basket or wood tray for burning wood logs only. Refuel period is 0.5 h using wood tray to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

D. OPEN FIRES WITH HIGH OUTPUT BACK BOILERS

OVERNIGHT BURNING

Except where otherwise stated in the "Manufacturer's Remarks" column the approval requirements for classification as overnight burning are deemed to have been met. Appliances which require a deepening plate for overnight burning will be intermittent if the deepening plate is not used. The statement 'Intermittent' indicates that although the appliance can be operated at low combustion rates it is not intended to burn overnight.

DEEPENING BAR

Where these words appear in the "Appliances" column, a deepening bar is necessary to achieve the required heat output.

OPTIONAL EXTRAS

Where a deepening plate or a deepening bar is shown as an optional extra in the "Manufacturer's Remarks" column, its use, although improving the performance of the appliance, is not essential.

APPLICATION

These appliances give their heat output in two forms:

- (a) Radiation from the open fire for direct room heating.
- (b) Hot water from the boiler which is available for domestic use and/or radiators.

The purpose of quoting performance under two different operating conditions (boiler damper closed or boiler damper open) is to illustrate the range of outputs offered. Specialist advice should always be sought to ensure a satisfactory balance between direct heating by radiation (possibly supplemented by a radiator) of the living-room and indirect heating by the boiler of domestic hot water and radiators. The rated outputs set against each appliance relate to the maintainable performance under test conditions with a standard test fuel and calculated to a burning rate of 1.13kg/h for 400mm and 1.36 kg/h for 450mm fires. These outputs are given under alternative conditions of working. The appliance selected should be one capable of meeting the particular space heating and hot water requirements together under one of the conditions set down, i.e. with the boiler damper either closed or open if satisfactory service under conditions of -1°C outside temperature is to be obtained. Flexibility can be obtained by control of the burning rate and by selective control of the installed radiators.

Other factors should be taken into account when selecting any appliance, and the appliance manufacturer's leaflets should be consulted for details of appliance construction, fuel and ashpan capacity, etc. Radiator sizes should be based on the heat transmission coefficient of the type of radiator selected. **The following commonly used figures are the lowest which should be taken in making a preliminary selection of an appliance:**

Room heating rating for the open fire - 0.05 kW/m³

Domestic hot water - 1.2 kW

Radiator and pipe-work transmission - 0.5 kW/m²

SPECIAL NOTES

Fires and boilers should not be ordered separately or they may not correspond and results may be unsatisfactory; approval in this Guide, therefore, implies the sale of the complete units. All the open fires in this section are supplied either as complete units or as complete sets of components (grate, boiler, fire bricks, etc.), together with the assembly instructions. For boilers which have narrow waterways the remark "Suitable for indirect hot water systems only" is added (see introductory Note 7.3).

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D. OPEN FIRES WITH HIGH OUTPUT BACK BOILERS (continued)

1. INSET

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved open fire fuels, in Table B (Manufactured Smokeless Fuels) and Tables D and E (Bituminous Coal) (see Introductory Note 4.5) of Part 2 (Fuels) of this 'Guide'.

For fires with fans, also 'Sunbrite' doubles, 'Phurnacite' and Anthracite Large Nuts listed in Table C (Natural Smokeless Fuels) of Part 2 (Fuels and Firelighters) of this 'Guide'.

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 17)
		Direct Room Heating	Water	% Gross Eff.	
Dunsley Flued Boiler, with the following Fires: Dunsley Firefly, 400mm , with deepening bar and deepening plate Dunsley Firefly, 450mm , with deepening bar and deepening plate	Dunsley Heat Ltd				
	" " " "	C.2.2	4.0	61.7	Suitable for indirect hot water systems only.
		O.1.5	5.3	68.8	
	" " " "	C.2.6	4.8	61.7	Suitable for indirect hot water systems only.
	O.1.8	6.5	68.8		

3. INSET – WITH RECTANGULAR FIREBOXES

The notes at the beginning of Section D Open Fires with High Output Boilers also apply to units with rectangular fireboxes, with the following exceptions: (a) The rated outputs of such 400mm fires are based on a burning rate of 1.36 kg/h (b) The test standards are those applied to 450mm fires in Section D1.

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved open fire fuels, in Table B (Manufactured Smokeless Fuels) and Tables D and E (Bituminous Coal) (see Introductory Note 4.5) of Part 2 (Fuels) of this 'Guide'.

Appliances	Manufacturers	Rated Output kW and Gross Efficiency At Nominal Output (see introductory Notes 6.2, 6.3 and 6.4) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 17)
		Direct Room Heating	Water	% Gross Eff.	
Dunsley Enterprise boiler with Standard or Castle 400mm fire, with deepening bar and deepening plate	Dunsley Heat Ltd	C.2.1	5.7	65.1	
		O.1.9	7.2	75.4	
Dunsley Enterprise boiler with Standard or Castle 450mm fire, with deepening bar and deepening plate	" " " "	C.2.5	6.3	63.0	
		O.2.5	7.7	73.2	

D. OPEN FIRES WITH HIGH OUTPUT BACK BOILERS (continued)

4. INSET – WITH RECTANGULAR FIREBOXES – TESTED AND RATED ON BOTH BITUMINOUS COAL AND SMOKELESS FUEL

The appliances have been tested using standard smokeless test fuels and have met the thermal and constructional requirements for appliances in Section D.1. These appliances are suitable for use in Smoke Control Areas when burning smokeless fuel but have not been exempted for use in these areas when burning bituminous coal.

- (a) The rated outputs on bituminous coal are based on the performance with representative samples under test conditions which provide for 1½ hourly refuelling intervals and 1.81 kg/h burning rate for 400mm appliances with rectangular bottom grates.
- (b) The rated outputs on standard smokeless test fuels are based on the performance under test conditions and calculated to a burning rate of 1.36 kg/h for 400mm appliances with rectangular bottom grates.
- (c) The test standards for coal burning differ from those applied to other coal burning appliances in other sections of the list.

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved open fire fuels, in Table B (Manufactured Smokeless Fuels) and Tables D and E (Bituminous Coal) (see Introductory Note 4.5) of Part 2 (Fuels) of this 'Guide'.

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 17)
		Direct Room Heating	Water	% Gross Eff.	
Dunsley Enterprise Mk2 Super-Clean boiler with Standard or Castle 400mm fire, with deepening plate	Dunsley Heat Ltd.	When burning House Coal at 1.81 kg/h			
		C.1.8	5.3	43.5	
		O.1.7	9.6	68.9	
		When burning Smokeless Fuels at 1.36 kg/h			
		C.2.1	4.6	56.5	
		O.2.0	6.8	73.8	
Dunsley Enterprise Mk2 Super-Clean boiler with Standard or Castle 450mm fire, with deepening plate	" " " "	When burning House Coal at 2.12kg/h			
		C.2.2	5.9	42.6	
		O.2.2	10.1	64.4	
		When burning Smokeless Fuels at 1.59kg/h			
		C.2.4	6.0	60.1	
		O.2.6	7.2	70.4	

E. ROOMHEATERS/STOVES

A wider range of appliance types is now available following the introduction of wood pellet fired appliances to the UK market place. As well as the 'Manufacturers Remarks' column showing whether the appliance is Freestanding or Inset the column will also show whether the appliance is batch fed, hopper fed or mechanically fed and will identify the type of fuel it is designed to burn.

APPLICATION

The rated output shown against each roomheater is based on the performance with a standard test fuel and doors closed under test conditions. Appliances are tested to BS EN 13240 if they are conventional Roomheaters/Stoves burning wood logs and/or smokeless fuels and to BS EN 14785 if designed to burn wood pellets.

In making a preliminary selection of an appliance, an allowance of not less than the following should be taken:

For rooms of about 28m³ - 0.07 kW/m³ For rooms of about 57m³ - 0.06 kW/m³ For rooms of about 85m³ - 0.05 kW/m³

The precise value varies appreciably not only with size, but according to the insulation and exposure of the room and the temperature requirements. In consequence final selection should not be made without specialist advice. See introductory Note 2.3. If the appliance is installed in a smaller room than the largest it could serve, it will, of course, burn less fuel and require less frequent refuelling. The output shown against each appliance assumes its use with doors closed.

Appliances have also been approved on the basis that they are 'Safe and Fit for Purpose' without assessment of performance. This is particularly applicable to those classes of appliance which do not provide the main heating of the house or which are installed primarily for aesthetic reasons and to which the full British Standard does not apply but for which the purchaser requires the degree of assurance appropriate to his needs.

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved closed appliance fuels, in Table B (Manufactured Smokeless Fuels) and Table C (Natural Smokeless Fuels) of Part 2 (Fuels) of this 'Guide'. Where wood logs are specified they are to the standards given in BS EN 13240. Refer to the Manufacturer's Remarks column for variations including woodburning and appliances that are designed to burn only specialized wood pellets as given in BS EN 14785. See also the Introductory Notes section 4, paragraph 2 "Selection of Fuels" on page 10.

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 Section II (4) of the Clean Air Act, 1956. These exempted appliances are designated thus † in this list, together with a note in the Manufacturer's Remarks column for easy recognition.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Aga Little Wenlock	AGA	When burning wood 5.7 When burning smokeless fuels 4.2	73.9 77.0	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.5h and for smokeless fuels 4h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Aga Much Wenlock	AGA	When burning wood 5.5 When burning smokeless fuels 4.1	72.0 69.5	Comments as above
Aga Berrington	AGA	When burning wood 8.2 When burning smokeless fuels 8.5	67.9 75.0	Comments as above
Aga Little Wenlock Classic	AGA	When burning wood logs 4.7 When burning smokeless fuels 4.7	74.3 68.4	Freestanding wood burning stove. Manual combustion air controls. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 4 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Aga Little Wenlock SE †	AGA	When burning wood logs 5.0	65.5	Freestanding wood burning stove. Manual combustion air controls. Burns wood logs only. Refuel periods are 1.0 h to give the rated output shown. This appliance is classed as "intermittent".
Aga Much Wenlock Classic	AGA	When burning wood 5.5 When burning smokeless fuels 4.1	72.0 69.5	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.5h and for smokeless fuels 4h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

† denotes it is 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

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Charnwood Island Range:	A J Wells & Sons	When burning wood only		Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.5h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Island I		6.0	72.1	
Island II		8.0	71.5	
Island III		12.0	70.5	
Charnwood Cove Range:	A J Wells & Sons	When burning wood only		Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.5h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Cove 1		4.0	69.1	
Cove 2 Cove 2sr †		8.0	69.6	
Cove 3		12.0	73.1	
Charnwood Country Range:	A J Wells & Sons	When burning wood only		Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.5h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Country 4 Mk II		4.0	75.0	
Country 6 Mk II		6.0	74.3	
Country 8 Mk II		8.0	73.1	
Country 12 Mk I		12.0	68.4	

† denotes it is 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

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Valor Arden Stove	Arada Ltd	When burning wood only 5.5	74.3	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood
Valor Willow Stove	Arada Ltd	When burning wood only 4.5	73.6	Freestanding roomheaters. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood
Hamlet Hardy 4	Arada Ltd	When burning wood only 4.5	73.6	Freestanding roomheaters. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood
Hamlet Solution Range: Solution 5 Solution 7 Solution 9 Solution 11	Arada Ltd	When burning wood only 5.0 6.1 8.8 11.0	68.1 65.8 65.4 68.1	Freestanding stoves without boiler. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Hamlet Becton Range: Becton 5 Becton 7	Arada Ltd	When burning wood only 5.0 6.1	68.1 65.8	Freestanding stoves without boiler. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Hamlet Solution Inset 5	Arada Ltd	When burning wood only 4.8	73.4	Inset stove without boiler. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Aarrow Ecoburn Range: Ecoburn 5 Ecoburn 7 Ecoburn 9 Ecoburn 11	Arada Ltd	When burning wood only 5.0 6.1 8.8 11.0	68.1 65.8 65.4 68.1	Freestanding stoves without boiler. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Aarrow Signature Inset 5	Arada Ltd	When burning wood only 4.8	73.4	Inset stove without boiler. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h for wood to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Villager Chelsea Solo/Duo	Arada Ltd	When burning wood 5.0 When burning smokeless fuels 5.0	65.7 66.4	Freestanding multi-fuel stoves. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
Villager Bayswater	Arada Ltd	When burning wood 6.0 When burning smokeless fuels 7.0	65.2 71.8	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.85 h for wood and 3.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Villager Elite	Arada Ltd	When burning wood 9.3 When burning smokeless fuels 8.7	69.5 66.8	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.06h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Villager Bromley/ Berkeley	Arada Ltd	When burning wood only 8.0	69.5	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Villager A Wood range	Arada Ltd	When burning wood only 15.0	65.0	Comments as Bromley/Berkeley above
Villager B Wood range (including Flatmate)		When burning wood only 8.0	71.2	
Villager C Wood		When burning wood only 5.4	72.4	
Villager Esprit 8	Arada Ltd	When burning wood only 8.0	73.8	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliances is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Vermont Castings Encore (Catalytic) †	BFM Europe Ltd	When burning wood only 10.1	69.2	Freestanding catalytic wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 2.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Vermont Castings Defiant (Catalytic)	BFM Europe Ltd	When burning wood only 12.6	69.0	Freestanding catalytic wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 2.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Vermont Castings Intrepid II Multi-fuel 1695CE 1697CE	BFM Europe Ltd	When burning wood 7.0 When burning smokeless fuels 6.4	68.8 68.7	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 2.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Vermont Castings Intrepid II Wood-burning †	BFM Europe Ltd	When burning wood only 6.2	66.4	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 2.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Vermont Castings Aspen	BFM Europe Ltd	When burning wood only 5.5	69.5	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

† denotes it is 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

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Vermont Castings Encore Multi-fuel 2547CE	BFM Europe Ltd	When burning wood 12.3 When burning smokeless fuels 7.7	65.1 65.0	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.4 h for wood and 3.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels..
Vermont Castings Aspen II Multi-fuel 1405CE	BFM Europe Ltd	When burning wood 5.8 When burning smokeless fuels 4.7	66.7 65.0	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.5 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels
Vermont Castings Intrepid III Multi-fuel V0CS1CB0	BFM Europe Ltd	When burning wood 10.7 When burning smokeless fuels 6.4	65.6 68.2	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.4 h for wood and 3.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
IN FIRE 603	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 7.9	70.3	Inset wood burning stove with fanned convection air. Automatic control of primary air. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
IN FIRE 683	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 9.0	69.2	Inset wood burning stove with fanned convection air. Automatic control of primary air. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
IN FIRE 743	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 10.0	68.6	Inset wood burning stove with fanned convection air. Automatic control of primary air. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
IN FIRE PRISMA	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 9.0	68.3	Inset wood burning stove with fanned convection air. Automatic control of primary air. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
IN FIRE SCOPE 745	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 9.0	67.9	Inset wood burning stove with fanned convection air. Automatic control of primary air. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
FUEGO	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 10.0	75.4	Freestanding wood burning stove with fanned convection air. Automatic control of primary air. Refuel period is 0.77 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
OPTI FIRE 700	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 11.2	69.1	Inset wood burning stove with fanned convection air. Automatic control of primary air. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
OPTI FIRE 760	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 15.9	73.7	Inset wood burning stove with fanned convection air. Automatic control of primary air. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
PHENIX 850	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 10.0	65.0	Inset wood burning stove with fanned convection air. Automatic control of primary air. Burns wood logs only. Refuel period is 0.77 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
PHENIX 1000	Bodart & Gonay S.A. (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 12.0	65.5	Inset wood burning stove with fanned convection air. Automatic control of primary air. Burns wood logs only. Refuel period is 0.80 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Winchester	Broseley Fires Ltd	When burning wood 8.5 When burning smokeless fuels 8.7	73.2 79.0	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 1.5h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Salisbury	Broseley Fires Ltd	When burning wood 7.8 When burning smokeless fuels 8.7	68.5 77.0	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for both wood and smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
York Range: Petite Midi	Broseley Fires Ltd	When burning wood 3.0 When burning smokeless fuels 3.0 When burning wood 5.0 When burning smokeless fuels 5.0	73.9 73.0 69.4 73.6	Freestanding multi-fuel stoves. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h when burning both wood and smokeless fuels for the Petite and 1.0 h when burning wood and 1.3 h when burning smokeless fuels for the Midi to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Serrano 3	Broseley Fires Ltd	When burning wood 3.0 When burning smokeless fuels 3.0	73.9 73.0	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for both wood and smokeless fuels is 1.0 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood or smokeless fuels.
Serrano 5	Broseley Fires Ltd	When burning wood 5.0 When burning smokeless fuels 5.0	69.4 73.6	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.0h and for smokeless fuels 1.3h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood or smokeless fuels.
Serrano 7	Broseley Fires Ltd	When burning wood 7.0 When burning smokeless fuels 7.0	69.4 73.6	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.0h and for smokeless fuels 1.3h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood or smokeless fuels.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Fun	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 7.0	72.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.00 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Thermic	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 7.0	67.8	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.00 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Thor Pluto	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 7.0	72.0	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.00 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Roma	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 7.0	71.0	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Elegance	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 6.0	71.8	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Eos	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 7.0	72.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.00 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Cronos	Camino Kaminofen (distributed by Landy Vent UK Ltd)	When burning wood only 8.0	69.2	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
4 Series Freestanding Stoves Flatford † Barrington † Hampstead † Alpine † Belgravia † Milan † Pacific †	Chesney's	When burning Wood 4.6	76.6	Freestanding wood burning stoves. Manual primary air control. Burn wood logs only. Refuel period is 0.8 h to give the rated output shown. These appliances are classed as "intermittent".
6 Series Freestanding Stove Flatford † Petworth † Barrington † Hampstead † Alpine † Belgravia † Milan †	Chesney's	When burning wood 7.0 When burning smokeless fuels 6.0	77.4 78.8	Freestanding multi-fuel stoves. Manual primary air control. Burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.8 h for wood and 2.5 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
8 Series Freestanding Stove Flatford Petworth Barrington Hampstead	Chesney's	When burning wood 8.3 When burning smokeless fuels 8.5	69.8 73.6	Freestanding multi-fuel stoves. Manual primary air control. Burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.1 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Cleanburn Løvenholm †	Cleanburn Stoves	When burning smokeless fuels 5.0 When burning wood 4.6	71.5 68.3	Freestanding multifuel stove. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.95 h for wood and 4 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "continuous" when burning smokeless fuels and intermittent when burning wood.
Cleanburn Nørreskoven	Cleanburn Stoves	When burning Wood only 4.9	74.6	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.92h to give the rated output shown. This appliance is classed as "intermittent".

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Pioneer 400 †	Clearview Stoves	When burning wood only 5.0	71.9	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood..
Vision 500 †	Clearview Stoves	When burning wood only 7.0	65.2	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Pioneer 400 Oven †	Clearview Stoves	When burning wood only 6.0	76.8	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Solution 400 †	Clearview Stoves	When burning wood only 5.0	70.1	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Solution 500	Clearview Stoves	When burning wood only 7.0	65.2	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

† denotes it is 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

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Dovre DV-250 † (250)	Dovre distributed by Stovax Ltd	When burning wood 4.9 When burning smokeless fuels 4.9	71.2 75.7	Freestanding roomheater. Manual primary air control. Can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Dovre DV-250CBS	Dovre distributed by Stovax Ltd	When burning wood 4.9	71.2	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel periods are 0.75 h to give the rated output shown. This appliance is classed as "intermittent".
Dovre DV-250CBW (250CB)	Dovre distributed by Stovax Ltd	When burning wood 4.9	71.2	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel periods are 0.75 h to give the rated output shown. This appliance is classed as "intermittent".
Dovre DV-360CBW (360 CB) Dovre DV-360CB/3 (360CB3)	Dovre distributed by Stovax Ltd	When burning wood only 8.0	67.3	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-425 (MF) (425GM)	Dovre distributed by Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	71.8 69.5	Freestanding roomheater. Manual primary air control. Can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Dovre DV-425CBW (Wood) (425CB) Dovre DV-425CBWL (Wood) (425CBN)	Dovre distributed by Stovax Ltd	When burning wood only 8.0	75.5	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-500MFF (MF) (500GM) Dovre DV-500MFFL (MF) (450GM) DV-500MFR (MF) (500GK) DV-500MFRL (MF) (450GK)	Dovre distributed by Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	71.8 69.3	Freestanding roomheater. Manual primary air control. Can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Dovre DV-500CBW (Wood) (500GH) Dovre DV-500CBWL (Wood) (450GH)	Dovre distributed by Stovax Ltd	When burning wood only 8.0	75.5	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-640CBW (640CB)	Dovre distributed by Stovax Ltd	When burning wood only 9.0	71.5	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-700CBW (700CB)	Dovre distributed by Stovax Ltd	When burning wood only 11.0	68.3	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-760CBW (700MFF)	Dovre distributed by Stovax Ltd	When burning wood only 11.0	68.5	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Dovre Astroline 2CB DV-AST2BLK (ASTRO2)	Dovre distributed by Stovax Ltd	When burning wood only 8.0	72.3	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-1800W (1800GL)	Dovre distributed by Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	72.3 74.3	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Dovre DV-2000MFR (2000SGL)	Dovre distributed by Stovax Ltd	When burning wood 11.0 When burning smokeless fuels 11.0	72.3 73.2	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Dovre DV-2300W (2300GL)	Dovre distributed by Stovax Ltd	When burning wood only 9.0	70.1	Inset roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-2400CB (2400GLA) Dovre DV-2400CBPAN (2400BSA)	Dovre distributed by Stovax Ltd	When burning wood only 9.0	65.5	Inset roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Dovre DV-2510DSMF (2510SD)	Dovre distributed by Stovax Ltd	When burning wood 9.0 When burning smokeless fuels 9.0	71.1 77.2	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Dovre DV-2520BS (2520BS)	Dovre distributed by Stovax Ltd	When burning wood only 11.0	71.1	Inset roomheaters available with thermostatic controlled fan-assisted convection air. Manual primary air control. Burns wood logs only. Refuel periods are 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Dovre DV-2700W (2700GL)	Dovre distributed by Stovax Ltd	When burning wood only 10.0	69.8	Inset roomheater. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h for wood to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Yorkshire Multi Fuel Stove †	Dunsley Heat Ltd.	When burning wood 7.5 When burning smokeless fuels 7.7	71.0 68.2	When assessed to achieve the output level claimed this appliance falls within the recognised category of an intermittent burning appliance, when fired on wood. Note: This roomheater has also been exempted by DEFRA under Section 11 (4) of the Clean Air Act, 1956 for burning wood in smoke control areas.
Highlander 5 Multi-fuel	Dunsley Heat Ltd	When burning wood 5.0 When burning smokeless fuels 4.8	73.1 71.1	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood and when burning smokeless fuels.
Highlander Enviro-burn-5 †	Dunsley Heat Ltd	When burning wood only 4.9	71.7	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel periods are 0.75h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Highlander 7 Multi-fuel	Dunsley Heat Ltd	When burning wood 5.0 When burning smokeless fuels 6.0	70.3 72.3	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for both wood and smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Highlander 8 Multi-fuel	Dunsley Heat Ltd	When burning wood 7.8 When burning smokeless fuels 7.5	71.5 73.0	Manufacturer's Remarks as for Highlander 7 Multi-fuel. N.B. Only the Highlander 8 Multi-fuel model without boiler fitted has been approved.

† denotes it is 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

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Esse 100 Esse 125	Esse Engineering Ltd	When burning wood logs 5.0 When burning smokeless fuels 4.5	74.8 68.2	Freestanding multi-fuel stove. Manual combustion air controls. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel period is 1.0 h for both wood and smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Esse 100SE †	Esse Engineering Ltd	When burning wood logs 5.0	74.8	Freestanding multi-fuel stove. Manual combustion air controls. Burns wood logs only.. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent".
Hase Akaba	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 4.0	74.9	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood.
Hase Bari	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 6.0	74.0	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.85 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood
Hase Granada	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 9.0	70.7	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.81 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Hase Kairo	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 9.0	70.7	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood
Hase Lisboa	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 7.0	78.4	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood.

† denotes it is 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 continued on next page

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Hase Luno	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 7.0	71.4	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Hase Modena	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 8.0	72.0	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood.
Hase Sarego	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 7.0	78.4	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood.
Hase Toronto	Hase-Kaminofenbau GmbH (distributed by Anglia Fireplaces & Design Ltd)	When burning wood only 8.0	74.3	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. Top flue outlet only. This appliance is classed as "intermittent" when burning wood.
Fuga M	Harrie Leenders Fires Importer - Robeys Ltd	When burning wood only 10.0	75.0	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Signa and Fuga S	Harrie Leenders Fires Importer - Robeys Ltd	When burning wood only 8.0	73.4	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Trias	Harrie Leenders Fires Importer - Robeys Ltd	When burning wood only 10.0	71.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Firewarm 4	Heat Design	When burning wood only 4.0	69.1	Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated Freestanding wood burning stove. output shown. This appliance is classed as "intermittent" when burning wood.
Firewarm 6	Heat Design	When burning wood only 6.0	71.6	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Firewarm 8	Heat Design	When burning wood only 8.0	71.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Firewarm 12	Heat Design	When burning wood only 12.0	70.2	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
TR 3	Heat Design	When burning wood only 4.3	72.4	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.3 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
TR 5	Heat Design	When burning wood only 5.3	71.4	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
TR Midi	Heat Design	When burning wood only 6.7	71.4	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
TR 8	Heat Design	When burning wood only 8.2	71.6	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
TR 6 Legacy	Heat Design	When burning wood only 6.4	68.0	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
TR 10 Legacy	Heat Design	When burning wood only 10.0	70.0	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Green 4kW Freestanding Stove	Heat Design	When burning wood only 4.0	76.3	Freestanding wood burning stove. output shown. Manual primary air control. Burns wood logs only. Refuel period is 1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Green 6kW Freestanding Stove	Heat Design	When burning wood only 6.0	75.0	Freestanding wood burning stove. output shown. Manual primary air control. Burns wood logs only. Refuel period is 1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Green 7kW Freestanding Stove	Heat Design	When burning wood only 7.0	73.1	Freestanding wood burning stove. output shown. Manual primary air control. Burns wood logs only. Refuel period is 1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Green 8kW Freestanding Stove	Heat Design	When burning wood only 8.0	73.1	Freestanding wood burning stove. output shown. Manual primary air control. Burns wood logs only. Refuel period is 1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Green 10kW Freestanding Stove	Heat Design	When burning wood only 10.0	73.1	Freestanding wood burning stove. output shown. Manual primary air control. Burns wood logs only. Refuel period is 1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Hawk 3	Hunter Stoves Ltd	When burning wood 4.0 When burning smokeless fuels 3.5	65.0 65.1	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Herald 6	Hunter Stoves Ltd	When burning wood 5.5 When burning smokeless fuels 6.5	68.5 65.6	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 4.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Herald 8	Hunter Stoves Ltd	When burning wood 9.1 When burning smokeless fuels 7.6	72.3 66.7	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 4.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Herald 14	Hunter Stoves Ltd	When burning wood 11.5 When burning smokeless fuels 9.0	72.3 77.4	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 4.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Hwam Beethoven † Hwam Beethoven H † Hwam Vivaldi † Hwam Mozart † Hwam Ravel † Hwam 30 †	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 4.5	70.1	Freestanding wood burning stoves. Burns wood logs only. Refuel period is 1.20 h to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Hwam Monet Hwam Monet H Hwam Dali Hwam 60	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 5.5	68.3	Freestanding wood burning stoves. Burns wood logs only. Refuel period is 1.07 h to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Hwam 3310 Hwam 3320	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 4.6	74.6	Freestanding wood burning stoves. Burns wood logs only. Refuel period is 1.20 h to give the rated output shown. These appliances are classed as "intermittent" when burning wood.
Hwam Figaro	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 6.0	66.4	Freestanding wood burning stove. Burns wood logs only. Refuel period is 0.97 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Hwam 1060 Inset	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 7.0	69.2	Inset wood burning stove. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Hwam 4410	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 6.0	74.3	Freestanding wood burning stove. Manual primary air control. Burns wood logs and peat only. Refuel period is 2.2 h to give the rated output shown. This appliance is classed as intermittent when burning wood.
Hwam I 20/80	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 6.0	74.3	Inset wood burning stove. Manual primary air control. Burns wood logs and peat only. Refuel period is 2.2 h to give the rated output shown. This appliance is classed as intermittent when burning wood.
Hwam I 30/55	Hwam Euroheat Distributors (H.B.S) Ltd	When burning wood only 6.0	72.0	Inset wood burning stove. Manual primary air control. Burns wood logs and peat only. Refuel period is 2.0 h to give the rated output shown. This appliance is classed as intermittent when burning wood.
Janus 6	Janus (distributed by Landy Vent UK Ltd)	When burning wood only 5.0	65.8	Freestanding wood burning stoves. Manual air controls. Burn wood logs only. Refuel periods are 2.1 h (Janus 6), 2.5 h (Janus 9) and 2.3 h (Janus 12 and 14) to give the rated outputs shown. These appliances are classed as "continuous" when burning wood.
Janus 9		7.0	67.1	
Janus 12		9.0	66.6	
Janus 14		10.0	66.6	

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Asia Giorgia Fiammetta	La Nordica S.p.A	When burning wood only 6.0	71.0	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Fiorella	La Nordica S.p.A	When burning wood only 6.0	71.0	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Sovrana	La Nordica S.p.A	When burning wood only 6.5	71.6	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 0.8 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Isetta Isetta Con Cerchi	La Nordica S.p.A	When burning wood only 7.0	71.0	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Isotta Isotta Con Cerchi	La Nordica S.p.A	When burning wood only 9.0	75.5	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.3 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Giulietta	La Nordica S.p.A	When burning wood only 6.0	71.3	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.3 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Inserto 50 Crystal	La Nordica S.p.A	When burning wood only 6.0	71.3	Inset stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Fireball Carillon 4:3	La Nordica S.p.A	When burning wood only 6.0	71.3	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood
Carillon Carillon Flat	La Nordica S.p.A	When burning wood only 7.0	71.2	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Super Max	La Nordica S.p.A	When burning wood only 6.0	73.1	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Super Junior	La Nordica S.p.A	When burning wood only 5.0	72.3	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Fulvia Gaia	La Nordica S.p.A	When burning wood only 6.0	71.0	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 0.8 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Squirrel 1400 Range: 1410 Radiant Standard Airwash 1430 Cleanheat (side plain door) 1435 Cleanheat (ribbed side plain door)	Morsø Jernstøberi A/S	When burning wood only 4.5	69.2	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 0.8 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
		4.5	64.6	
		4.5	64.6	
Dove 1600	Morsø Jernstøberi A/S	When burning wood only 10.5	67.3	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.8 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Panther 2100 Range: 2110 Cleanheat Radiant, Ribbed Side 2140 Convector, Ribbed Side	Morsø Jernstøberi A/S	When burning wood only 9.0	65.5	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 0.8 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
		5.6	69.2	
Badger 3100 Range: † 3112 Cleanheat Fine ribbed sides 3142 Convector Plain sides	Morsø Jernstøberi A/S	When burning wood only 4.5	71.5	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.0 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Owl 3400 Range: † 3410 Radiant Owl motif 3420 Radiant Ribbed side 3440 Convector	Morsø Jernstøberi A/S	When burning wood only 6.0	67.3	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.4 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood. Top or rear flue outlet positions.
3600	Morsø Jernstøberi A/S	When burning wood only 9.8	66.7	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel periods are 1.0 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Inset Range: Inset 5060	Morsø Jernstøberi A/S	When burning wood only 5.8	63.7	Inset wood burning stove. Manual primary air control. Burns wood logs only. Refuel periods are 0.8 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
6100 Range: † 6140 Low Plinth 6148 Pedestal	Morsø Jernstøberi A/S	When burning wood only 5.0	72.9	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel periods are 0.8 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
7100 Viking	Morsø Jernstøberi A/S	When burning wood only 5.4	68.7	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel periods are 0.75 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
8100 Range: 8140 With plinth 8142 With Log Drawer 8147 with rotatable pedestal	Morsø Jernstøberi A/S	When burning wood only 6.3	73.3	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 0.75 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Ø Range: Ø4 † Ø6 Ø8	Morsø Jernstøberi A/S	When burning wood only 5.0 7.7 9.3	73.7 68.3 65.5	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 0.9 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Beckett Non-Boiler Model	Mulberry Stoves	When burning wood 8.5 When burning smokeless fuels 16.3	65.9 65.0	Freestanding multi-fuel stove. Manual combustion air controls. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel period is 0.75 h for wood and 1.0 for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Joyce Non-Boiler Model	Mulberry Stoves	When burning wood 4.7	65.6	Freestanding multi-fuel stove. Note: HETAS Approval is only for wood burning. Manual combustion air controls. Refuel period is 0.75 h for wood to give the rated output shown. This appliance is classed as "intermittent".
Stoker	Mulberry Stoves	When burning wood 6.5 When burning smokeless fuels 5.9	69.9 65.0	Inset multi-fuel stove. Manual combustion air controls. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel period is 0.75 h for wood and 4.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood and continuous when burning smokeless fuels.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Harmony, Stanford and Nestor Martin 23 Models (Rear Flue Outlet Only) S23 † H23 † R23 † SP23 †	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood only 5.9	65.7	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel period using rear flue outlet only is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Harmony and Stanford 43 Models (Rear Flue Outlet Only) S43 H43 SP43	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood only 10.5	72.8	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel period using rear flue outlet only is 0.79 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Nestor Martin Models (Rear Flue Outlet Only) RH33 FH33	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood only 8.0	69.7	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel period using rear flue outlet only is 0.76 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Harmony 1 (Rear Flue Outlet Only)	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood only 8.0	70.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period using rear flue outlet only is 0.85 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Harmony III (Rear Flue Outlet Only)	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood only 16.0	68.9	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period using rear flue outlet only is 0.99 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Stanford 80 (Rear Flue Outlet Only)	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood only 8.0	70.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period using rear flue outlet only is 0.85 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Harmony 13 † Stanford 13 †	Nestor Martin Euroheat Distributors (H.B.S) Ltd	When burning wood 5.0 When burning smokeless fuels 3.5	75.9 71.2	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5 h for wood and 4.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "continuous" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Contura 400 Series : 450 450T 460tall/low 470medium-high 470tall 480	NIBE AB	When burning wood only 7.0	70.1	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 0.87 h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Contura 500 Series : 510 † 520T † 550 † 560T † 560K † 570 † 580 †	NIBE AB	When burning wood only 5.0	73.7	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.0 h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Contura 600 Series : 650 660T 660K 670 690	NIBE AB	When burning wood only 6.0	67.3	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.0 h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Bohemia 30	Pevex Enterprises Ltd	When burning wood only 3.0	67.7	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Bohemia 40	Pevex Enterprises Ltd	When burning wood only 4.0	70.3	Manufacturer's Remarks as for Bohemia 30
Bohemia 50	Pevex Enterprises Ltd	When burning wood only 5.0	67.9	Manufacturer's Remarks as for Bohemia 30
Bohemia 60	Pevex Enterprises Ltd	When burning wood only 6.0	65.2	Manufacturer's Remarks as for Bohemia 30

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Rondo Mino II	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	72.8	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.00 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Q-bic	Rais A/S Importer – Robeys Ltd	When burning wood only 4.5	68.3	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.2 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood. Top flue outlet only and has different bases.
Sira	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	70.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
80 (Inset)	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	70.1	Inset wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
600 (Inset)	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	68.3	Inset wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Palo Pilar	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	72.0	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.25h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Malta Bando Bora	Rais A/S Importer – Robeys Ltd	When burning wood only 6.0	70.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.1 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Gabo Pina Vola Mira III	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	70.1	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood. Top flue outlet only. Are available with turntable plinth..
Geo	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	72.0	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel period is 1.0 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood. Top flue outlet only.
Topas Opus	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	70.1	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.13 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Rondo 92 Rondo 120	Rais A/S Importer – Robeys Ltd	When burning wood only 5.0	72.8	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.05 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Q-bic Inset	Rais A/S Importer – Robeys Ltd	When burning wood only 4.5	68.3	Inset wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.32 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood. Top flue outlet only and has different bases.
2:1	Rais A/S Importer – Robeys Ltd	When burning wood only 6.0	71.9	Inset wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.15 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Poleo 95 Poleo 106 Epoca	Rais A/S Importer – Robeys Ltd	When burning wood only 4.5	69.2	Freestanding wood burning stove. Manual primary air control. Burns wood logs only. Refuel period is 1.15h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Redfyre Kensal 20 †	Redfyre	When burning wood 3.8 When burning smokeless fuels 3.8	70.1 84.0	Dry freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Redfyre Kensal 33 †	Redfyre	When burning wood 4.9 When burning smokeless fuels 4.9	72.3 83.1	Manufacturer's Remarks as for Redfyre Kensal 20.
Redfyre Kensal 40	Redfyre	When burning wood 8.0 When burning smokeless fuels 8.0	69.4 79.7	Manufacturer's Remarks as for Redfyre Kensal 20.
Turbhogar:- Alfa 80 Beta 80 Lambda 80 Sigma 80 Delta 80	Rofer and Rodi	When burning wood only 14.5	68.6	Inset stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Xeoos 5 kW Range: Natur Pur Classic Style Harmony Elegance	Specht Modulare Ofensysteme GmbH + Co.KG	When burning wood only 5.0	74.5	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 2.8 h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Xeoos 8 kW Range: Basic Pur Classic Elegance	Specht Modulare Ofensysteme GmbH + Co.KG	When burning wood only 8.0	76.1	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 3.2 h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Brunel 1A Model 7008	Stovax Ltd	When burning wood 4.0 When burning smokeless fuels 4.0	72.5 82.5	Freestanding multi-fuel roomheaters. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Brunel 2CB Model 7051	Stovax Ltd	When burning wood 6.0 When burning smokeless fuels 6.0	71.9 76.0	Freestanding multi-fuel roomheaters. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Brunel 3CB Model 7053	Stovax Ltd	When burning wood 7.0 When burning smokeless fuels 7.0	69.2 81.6	Freestanding multi-fuel roomheaters. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Huntingdon 25 Tracery Door Version: Model 7058 (MF) † Clear Door Version: Model 7057 (MF) †	Stovax Ltd	When burning wood 4.9 When burning smokeless fuels 4.9	71.3 76.5	Dry freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Huntingdon 28 Tracery Door Version: Model 7065 (MF) Clear Door Version: Model 7064 (MF)	Stovax Ltd	When burning wood 6.0 When burning smokeless fuels 6.0	70.8 80.5	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Huntingdon 30 Tracery Door Version: Model 7055 (MF) Clear Door Version: Model 7054 (MF)	Stovax Ltd	When burning wood 6.0 When burning smokeless fuels 6.0	71.9 77.2	Freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Huntingdon 35 Tracery Door Version: Model 7063 (Wood only) Model 7061 (MF) Clear Door Version: Model 7060 (MF)	Stovax Ltd	When burning wood 7.0 When burning smokeless fuels 7.0	74.5 79.2	Freestanding roomheater. Manual primary air control. Available as wood only version which can burn wood logs only or as multi- fuel versions which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Huntingdon 40 Tracery Door Version: Model 7069 (Wood only) Model 7075 (MF) Clear Door Version: Model 7074 (MF)	Stovax Ltd	When burning wood 9.0 When burning smokeless fuels 9.0	72.0 86.2	Dry freestanding roomheater without boiler. Manual primary air control. Available as wood only version which can burn wood logs only or as multi- fuel versions which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Riva RV40	Stovax Ltd	When burning wood 4.9 When burning smokeless fuels 4.9	70.1 80.2	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Riva F40 Freestanding RVF40C Riva F40 Avanti RVF40AV Riva F40 Avanti Midi RVF40AVM Riva F40 Avanti Highline RVF40AVH	Stovax Ltd	When burning wood 4.9 When burning smokeless fuels 4.9	70.0 79.3	Freestanding roomheaters. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
Riva RV55	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	74.1 82.2	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Riva 55 Avanti Midi RVF55AVM	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	67.2 75.6	Freestanding roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Riva RV66	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	72.7 74.6	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Riva 66 Freestanding Riva RVF66	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	72.7 74.6	Freestanding roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Riva 66 Avanti RVAVC	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	72.7 74.6	Inset roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Riva RV76	Stovax Ltd	When burning wood only 9.0	71.9	Inset roomheater. Manual primary air control. Burns wood logs only. Refuel periods are 0.80 h to give the rated output shown. This appliance is classed as "intermittent".
Riva RVF76	Stovax Ltd	When burning wood only 9.0	71.9	Freestanding roomheater. Manual primary air control. Burns wood logs only. Refuel periods are 0.80 h to give the rated output shown. This appliance is classed as "intermittent".

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
RIVA PLUS RANGE: Model: Small RVP - SMW (Woodburning) RVP - SMM (Multifuel) Model: Midi RVP - MDW (Woodburning) RVP - MDM (Multifuel) Model: Medium RVP - MEW (Woodburning) RVP - MEM (Multifuel) Model: Large RVP - LAW (Woodburning) RVP - LAM (Multifuel)	Stovax Ltd	When burning wood 5.0	70.6	<p>Freestanding roomheaters. Manual primary air control. Burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only.</p> <p>Refuel periods for the Riva Plus Small, Midi and Medium are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown.</p> <p>Refuel periods for the Riva Plus Large are 0.75 h for wood and 1.5 h for smokeless fuels to give the rated outputs shown.</p> <p>These appliances are classed as "intermittent" when burning both wood and smokeless fuels.</p>
		When burning smokeless fuels 5.0	77.1	
		When burning wood 6.5	65.1	
		When burning smokeless fuels 6.5	70.2	
		When burning wood 8.0	65.1	
		When burning smokeless fuels 8.0	70.2	
		When burning wood 11.0	72.0	
		When burning smokeless fuels 11.0	68.9	
		When burning wood 5.0	68.0	
		When burning smokeless fuels 5.0	73.8	
		When burning wood 6.5	67.3	
		When burning smokeless fuels 6.5	73.8	
When burning wood 8.0	67.4			
When burning smokeless fuels 8.0	76.9			
RIVA VISION RANGE: Model Small:- RVN - SMW (Woodburning) RVN - SMM (Multifuel) Model: Midi RVN - MIDW (Woodburning) RVN - MIDM (Multifuel) Model: Medium RVN - MEDW (Woodburning) RVN - MEDM (Multifuel)	Stovax Ltd	When burning wood 5.0	68.0	<p>Freestanding roomheaters. Manual primary air control. Burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only.</p> <p>Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown.</p> <p>These appliances are classed as "intermittent" when burning both wood and smokeless fuels.</p>
		When burning smokeless fuels 5.0	73.8	
		When burning wood 6.5	67.3	
		When burning smokeless fuels 6.5	73.8	
		When burning wood 8.0	67.4	
		When burning smokeless fuels 8.0	76.9	

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
RIVA STUDIO RANGE:	Stovax Ltd			Inset roomheaters. Manual primary air control. Burn wood logs only. Refuel periods are 0.75 h to give the rated outputs shown. These appliances are classed as "intermittent".
Studio 1: RVS - 1		When burning wood 5.0	68.5	
Studio 2: RVS - 2		When burning wood 8.0	69.1	
Studio 3: RVS - 3		When burning wood 11.0	69.0	
Stockton 3 Model 7118 (MF) †	Stovax Ltd	When burning wood 3.8	70.1	Dry freestanding multi-fuel roomheater. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
		When burning smokeless fuels 3.8	84.0	
Stockton 4 Model 7101 (wood only) † Model 7102 (MF) †	Stovax Ltd	When burning wood 3.8	70.1	Dry freestanding roomheaters. Manual primary air control. Available as wood only version which can burn wood logs only or as multi-fuel version which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
		When burning smokeless fuels 3.8	84.0	

† denotes it is 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

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Stockton 5 Flat Top Versions: Model 7119 (wood only) † Model 7127 (MF) † Low Canopy Versions: Model 7160 (wood only) † Model 7161 (MF) Midline Version: Model 7130 (MF) †	Stovax Ltd	When burning wood 4.9 When burning smokeless fuels 4.9	72.3 83.1	Dry freestanding roomheaters. Manual primary air control. Available as wood only version which can burn wood logs only or as multi-fuel version which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
Stockton 6 Flat Top Versions: Model 7100 (Wood only) † Model 7162 (MF) † Highline Version: Model 7117 (MF) †	Stovax Ltd	When burning wood 6.0 When burning smokeless fuels 6.0	72.5 78.9	Dry freestanding roomheater without boiler. Manual primary air control. Available as wood only version which can burn wood logs only or as multi-fuel versions which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
Stockton 7 Model 7120 (wood only) † Model 7163 (MF) †	Stovax Ltd	When burning wood 7.0 When burning smokeless fuels 7.0	70.1 78.2	Dry freestanding roomheaters without boiler. Manual primary air control. Available as wood only version which can burn wood logs only or as multi-fuel version which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
Stockton 7 Inset Convectector FlatTop Version Model 7125F (MF) † Low Canopy Version Model 7125C (MF) †	Stovax Ltd	When burning wood 7.0 When burning smokeless fuels 7.0	71.3 85.1	Dry Inset multi-fuel Convectector roomheater. Manual primary air control. Can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.

† denotes it is 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

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Stockton 8 Single Door Models: Wood only Versions: Model 7103 (FT) Model 7104 (LC) Model 7105 (HC) Two Door Models: Wood only Versions: Model 7113 (FT) Model 7113LC (LC) Model 7113HC (HC) Two Door Model: Multi-fuel Version: Model 7128 (FT)	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	69.4 79.7	Dry freestanding roomheaters without boiler. Manual primary air control. Available as wood only versions which can burn wood logs only or as multi-fuel version which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels. Available as flat top (FT), low canopy (LT) and high canopy (HT) versions.
Stockton 8 Inset Convectector Flat Top Version Model 7126F (MF) Low Canopy Version Model 7126C (MF)	Stovax Ltd	When burning wood 8.0 When burning smokeless fuels 8.0	65.0 72.7	Dry Inset multi-fuel Convectector roomheater. Manual primary air control. Can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
Stockton 11 Single Door Models (wood): Model 7106 (FT) Model 7106LC (LC) Model 7106HC (HC) Two Door Models (wood): Model 7116 (FT) Model 7116LC (LC) Model 7116HC (HC)	Stovax Ltd	When burning wood only 11.0	69.0	Dry freestanding roomheaters. Manual primary air control. Available as wood only versions which can burn wood logs only. Refuel periods are 0.75 h for wood to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood. Available as flat top (FT), low canopy (LT) and high canopy (HT) versions.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)			
		Direct Room Heating	% Gross Eff.				
Bransdale, Priory & Glaisdale Range: Bransdale Priory Glaisdale	Town and Country Fires	When burning wood 8.0	67.1	Freestanding multi-fuel stoves. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.			
		When burning smokeless fuels 8.0	77.3				
		When burning wood 8.0	67.1				
		When burning smokeless fuels 8.0	76.8				
		When burning wood 10.0	69.8				
		When burning smokeless fuels 10.0	76.8				
		Farndale, Little Thurlow, Rydale & Whisperdale Range: Farndale Little Thurlow † Rydale Whisperdale	Town and Country Fires		When burning wood 5.0	73.8	Freestanding multi-fuel stoves. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. These appliances are classed as "intermittent" when burning both wood and smokeless fuels.
					When burning smokeless fuels 5.0	81.6	
When burning wood 5.0	72.2						
When burning smokeless fuels 5.0	77.6						
When burning wood 5.0	72.2						
When burning smokeless fuels 5.0	77.6						
When burning wood 5.0	72.2						
When burning smokeless fuels 5.0	77.6						

† denotes it is 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

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Thornton Dale	Town and Country Fires	When burning wood 7.0 When burning smokeless fuels 7.5	67.5 79.4	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Runswick	Town and Country Fires	When burning wood 4.3 When burning smokeless fuels 4.3	72.7 73.0	Inset multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels. Top flue adaptor supplied for use with chimney liner.
Welburn	Town and Country Fires	When burning wood 8.3 When burning smokeless fuels 8.1	70.7 68.8	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.0 h for wood and 2.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Oisin	Waterford Stanley	When burning wood 5.7	73.9	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.5h and for smokeless fuels 4h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood. European Type Test Report No. 6026
		When burning smokeless fuels 4.2	77.0	
Tara	Waterford Stanley	When burning wood 5.5	72.0	Comments as above European Type Test Report No. 6027
		When burning smokeless fuels 4.1	69.5	
Ashling	Waterford Stanley	When burning wood 8.2	67.9	Comments as above European Type Test Report No. 6032
		When burning smokeless fuels 8.5	75.0	
Stanley Maxi	Waterford Stanley	When burning wood logs 5.0	72.8	Freestanding wood burning stoves. Manual primary air control. Burns wood logs only. Refuel periods are 1.5h to give the rated outputs shown. These appliances are classed as "intermittent" when burning wood.
Stanley Oscar		5.0	72.8	
Grainne Non-Boiler Solid Fuel Stove	Waterford Stanley	When burning wood 8.3	68.9	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.5h and for smokeless fuels 4h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood and continuous when burning smokeless fuels.
		When burning smokeless fuels 8.5	75.0	
Stanley Erin Multifuel Non- Boiler Stove	Waterford Stanley	When burning wood 10.2	67.0	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood are 1.5h and for smokeless fuels 4h to give the rated outputs shown. This appliance is classed as "continuous" when burning wood and smokeless fuels. European Type Test Report No. 6314
		When burning smokeless fuels 10.4	72.3	

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
WF Uniq 1	Westfire ApS	When burning wood only 4.6	66.4	Inset stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
Westfire 4 Westfire 5	Westfire ApS	When burning wood only 4.7	69.2	Freestanding stoves. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
WF Uniq 15 WF Uniq 16 WF Uniq 20	Westfire ApS	When burning wood only 5.0	74.6	Freestanding stoves. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
WF Uniq 17 WF Uniq 18 WF Uniq 19	Westfire ApS	When burning wood only 5.0	72.8	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
WF Uniq 21	Westfire ApS	When burning wood only 5.0	67.3	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
WF Uniq 23	Westfire ApS	When burning wood only 6.1	71.9	Freestanding or inset cassette type stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.
WF Uniq 32	Westfire ApS	When burning wood only 6.0	74.6	Freestanding or inset cassette type stove. Manual primary air control. Burns wood logs only. Refuel period is 0.75 h to give the rated output shown. This appliance is classed as "intermittent" when burning wood.

E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Fireview 6	Woodwarm Stoves	When burning wood 6.8 When burning smokeless fuels 6.0	72.7 68.0	Dry freestanding multi-fuel roomheater without boiler. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5 h for wood and 1.5 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood and when burning smokeless fuels.
Exmoor Single Door Flat Top Versions: Model YM-W9001FL (wood) Model YM-W9001ERFL (MF) Single Door Low Canopy Versions: Model YM-W9001LC (wood) Model YM-W9001ERLC (MF)	Yeoman Stoves	When burning wood 4.9 When burning smokeless fuels 4.9	70.9 82.9	Dry freestanding roomheaters. Manual primary air control. Available as wood only version which can burn wood logs only or as multi-fuel version which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.
Exe Single Door: Flat Top Versions: Model YM-W9101FL (wood) Model YM-W9101ERFL (MF) Low Canopy Versions: Model YM-W9101LC (wood) Model YM-W9101ERLC (MF) Two Door: Flat Top Versions: Model YM-W9102FL (wood) Model YM-W9102ERFL (MF) Low Canopy Versions: Model YM-W9102LC (wood) Model YM-W9102ERLC (MF)	Yeoman Stoves	When burning wood 5.0 When burning smokeless fuels 5.0	71.4 83.5	Dry freestanding roomheaters without boiler. Manual primary air control. Available as wood only versions which can burn wood logs only or as multi-fuel versions which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.

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E. ROOMHEATERS/STOVES (continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
<p>Devon</p> <p>Single Door: Flat Top Versions: Model YM-W9201FL (wood) Model YM-W9201ERFL (MF) Low Canopy Versions: Model YM-W9201LC (wood) Model YM-W9201ERLC (MF) High Canopy Versions: Model YM-W9101HC (wood) Model YM-W9101ERHC (MF)</p> <p>Two Door: Flat Top Versions: Model YM-W9202FL (wood) Model YM-W9202ERFL (MF) Low Canopy Versions: Model YM-W9202LC (wood) Model YM-W9202ERLC (MF) High Canopy Versions: Model YM-W9202HC (wood) Model YM-W9202ERHC (MF)</p>	Yeoman Stoves	<p>When burning wood 9.0</p> <p>When burning smokeless fuels 9.0</p>	<p>74.2</p> <p>76.1</p>	<p>Dry freestanding roomheaters without boiler. Manual primary air control. Available as wood only versions which can burn wood logs only or as multi-fuel versions which can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.</p>
<p>County</p> <p>Single Door: Flat Top Version: Model YM-W9301FL (wood) Low Canopy Version: Model YM-W9301LC (wood) High Canopy Version: Model YM-W9301HC (wood)</p> <p>Two Door: Flat Top Versions: Model YM-W9302FL (wood) Low Canopy Versions: Model YM-W9302LC (wood) High Canopy Versions: Model YM-W9302HC (wood)</p>	Yeoman Stoves	<p>When burning wood 13.0</p> <p>When burning smokeless fuels 13.0</p>	<p>71.4</p> <p>83.5</p>	<p>Dry freestanding roomheaters without boiler. Manual primary air control. Available as wood only versions which can burn wood logs only or when fitted with the optional multi fuel kit YM-A9340CE can burn Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 0.75 h for wood and 1.0 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning both wood and smokeless fuels.</p>

E. ROOMHEATERS/STOVES - Wood Pellet Stoves

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Fusion Pellet Stove	AGA	Rated Output 13.0 Part Load 4.1	83.7 84.5	Freestanding wood pellet stove Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. Time between hopper refills is from 8.6 h (at nominal rated output) to 27.8 h (at part load output). This appliance is classed as "continuous" burning. Hopper holds approx. 25 kg of pellets.
Isabella	Extraflame S.p.A	Rated Output 5.0 Part Load Output 2.5	82.6 80.7	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 1.2 kg/h and 0.6 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 11 kg of pellets
Karolina Graziosa	Extraflame S.p.A	Rated Output 7.0 Part Load Output 2.6	81.2 84.5	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 1.6 kg/h and 0.6 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 15 kg of pellets.
Divina Divina Plus Divina Steel Contessa Irina	Extraflame S.p.A	Rated Output 10.5 Part Load Output 3.4	79.1 83.8	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.5 kg/h and 0.8 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 21 kg (Irina and Contessa) and approx 30 kg (Divina models) of pellets.

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E. ROOMHEATERS/STOVES - Wood Pellet Stoves

(continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Duchessa Duchessa Steel	Extraflame S.p.A	Rated Output 8.7 Part Load 3.4	80.3 83.8	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.0 kg/h and 0.8 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 25 kg of pellets.
Comfort Mini Comfort P80	Extraflame S.p.A	Rated Output 6.8 Part Load 3.5	80.0 86.0	Inset wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 1.6 kg/h and 0.7 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 12 kg of pellets.
Ecologica	Extraflame S.p.A	Rated Output 10.3 Part Load 3.4	79.6 84.0	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.5 kg/h and 0.8 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 35 kg of pellets.
Comfort Maxi	Extraflame S.p.A	Rated Output 8.9 Part Load 3.4	82.1 84.0	Inset wood pellet stove. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.0 kg/h and 0.8 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 28 kg of pellets.

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E. ROOMHEATERS/STOVES - Wood Pellet Stoves

(continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Falo 1XLP Falo 1CP Falo 2CP Esmeralda Esmeralda Crystal	Extraflame S.p.A	Rated Output 8.9 Part Load 3.5	81.4 86.0	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.0 kg/h and 0.7 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 26 kg (Esmeralda) and approx 32 kg (Falo models) of pellets.
Delizia	Extraflame S.p.A	Rated Output 9.8 Part Load 3.0	79.6 82.6	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.4 kg/h and 0.7 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 33 kg of pellets
Thelin Parlour Pellet Stove	Global Pure Energy Solutions	Rated Output 6.7 Part Load 3.7	74.4 80.1	Freestanding wood pellet stove without boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. Time between hopper refills is from 11.0 h (at nominal rated output) to 21.6 h (at part load output). This appliance is classed as "continuous" burning. Hopper holds approx. 19 kg of pellets.
Thelin Echo Pellet Stove	Global Pure Energy Solutions	Rated Output 6.7 Part Load 3.7	78.8 80.1	Freestanding wood pellet stove without boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. Time between hopper refills is from 13.9 h (at nominal rated output) to 23.0 h (at part load output). This appliance is classed as "continuous" burning. Hopper holds approx. 23 kg of pellets.

E. ROOMHEATERS/STOVES - Wood Pellet Stoves

(continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Solar Gea	MCZ	Rated Output 8.7 Part Load 2.6	84.3 84.0	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 1.97 kg/h and 0.56 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 19.5 kg of pellets.
Vega Astra Aurora Modulo	MCZ	Rated Output 8.5 Part Load 2.9	78.6 79.5	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.0 kg/h and 0.6 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 16 kg of pellets.
Antares	MCZ	Rated Output 9.9 Part Load 2.9	78.6 79.5	Freestanding wood pellet stove. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.3 kg/h and 0.7 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 30 kg of pellets.
Saturn Omega Planet	MCZ	Rated Output 8.0 Part Load 2.2	85.9 85.4	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 1.8 kg/h and 0.5 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 17 kg of pellets.

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E. ROOMHEATERS/STOVES - Wood Pellet Stoves

(continued)

Appliances (See Notes above)	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturer's Remarks (See Notes above)
		Direct Room Heating	% Gross Eff.	
Nova Air Polar Air	MCZ	Rated Output 8.8 Part Load Output 3.3	84.1 87.5	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 1.7 kg/h and 0.6 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 36 kg of pellets.
Nova Multiair Polar Multiair	MCZ	Rated Output 11.5 Part Load Output 3.3	84.1 87.5	Freestanding wood pellet stoves. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.5 kg/h and 0.6 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 36 kg of pellets.

F. ROOMHEATERS/STOVES WITH BOILERS

A wider range of appliance types is now available following the introduction of wood pellet fired appliances to the UK market place. As well as the 'Manufacturers Remarks' column showing whether the appliance is Freestanding or Inset the column will also show whether the appliance is batch fed, hopper fed or mechanically fed and will identify the type of fuel it is designed to burn.

APPLICATION - The following notes are intended to assist the technically minded in using the figures given in this section.

These appliances give their heat output in two forms:

- (a) Radiation and Convection for direct room heating.
- (b) Hot water from the boiler which is available for domestic use and/or radiators.

The rated outputs shown against each roomheater are based on the performance with a standard test fuel and doors closed under test conditions which provide for a four-hourly refuelling interval for smokeless fuels and a 1½ hourly refueling interval for wood logs, except in the case of hopper feed appliances which have a six-hourly refuelling interval. Exceptions are noted in the "Manufacturer's Remarks" column.

In making a preliminary selection of an appliance, a room heating allowance of not less than the following should be taken:

For rooms of about 28m³ - 0.07 kW/m³
For rooms of about 57m³ - 0.06 kW/m³
For rooms of about 85m³ - 0.05 kW/m³

The precise value varies appreciably not only with size, but according to the insulation and exposure of the room and the temperature requirements. In consequence final selection should not be made without specialist advice. See Introductory Note 2.3.

The following commonly used figures are the lowest which should be taken in making a preliminary selection of an appliance:

Domestic Hot Water - 1.2kW
Radiator and pipe-work transmission - 0.5kW/m²

It may be assumed as an approximation that over a range of burning rates the proportions of direct room heating and water heating follow the same ratio as the rated output figures shown against each appliance. The appliance will burn less fuel and require less frequent re-fuelling if:

- (a) it is installed in a smaller room (or a room having a lower heat loss) than the largest it can serve, in which case the boiler output will be correspondingly less; or
- (b) it is installed or operated with a domestic hot water and/or central heating load which is less than the rated output of the boiler.

Account should be taken of the conditions outlined in (a) when determining the domestic hot water and/or central heating load that can be served by the boiler. In the case of (b) it will be necessary to determine whether any supplementary heating surface will be needed in the room in which the roomheater is installed.

Installation of a radiator in the same room as the appliance gives the user greater control over the total heat input to the room and thus provides for economy in running costs. This is particularly the case when:

- (a) The "direct room heating" output of the roomheater is close to the calculated heat requirement of a room, or:
- (b) There is a pro-rata reduction of the direct room heating output as described in paragraph (b) above.

If the appliance is installed in a room having a heat requirement in excess of the direct room heating output, then an appropriate amount of radiator surface must be installed in the same room. Some roomheaters are fitted with boiler flue dampers which vary the proportion of space heating output to water heating output. In these cases outputs are given under alternative conditions of working. The appliance selected should be one capable of meeting the particular space heating and hot water requirements together under one of the conditions set down, ie with the boiler damper either closed or open, if satisfactory service under conditions of -1°C outside temperature is to be obtained. In the case of boilers which have narrow waterways the remark 'Suitable for indirect hot water systems only' is added (see Introductory Note 7.3).

There are three types of combustion control used on appliances in this Section:

- (a) Manual control where the user turns the control up or down according to need which gives a changing output over a period of several hours due to changes in the firebed
- (b) Body temperature control where the burning rate is thermostatically controlled by a thermostat having the heat sensitive phial in close proximity to the body of the roomheater. This type of control tends to produce a steady output by responding to the roomheater body temperature and so compensates for changes in the firebed. However the control only responds very slightly to changes in room temperature and not at all to changes in hot water for radiators and domestic hot water.
- (c) Water temperature control where the burning rate is controlled by a thermostat having the heat sensitive phial in, or on, the boiler. This type of control tends to produce a fluctuating roomheating and boiler output dependent on the water temperature and therefore, on the demand for hot water for radiators and domestic use which affects the water temperature. The thermostat does not respond to changes in room temperature but aims to maintain reasonably constant pre-selected water temperature. It is particularly useful on appliances which have a low direct room heating output and a relatively high hot water output from the boiler.

The type of thermostat for each appliance is indicated by a note in the "Manufacturer's Remarks" column.

F. ROOMHEATERS/STOVES WITH BOILERS (continued)

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved closed appliance fuels, in Table B (Manufactured Smokeless Fuels) and Table C (Natural Smokeless Fuels) of Part 2 (Fuels) of this 'Guide' and wood logs as specified in BS EN 13240 or when tested to BS 14785 in conformity with that standard. Refer to the Manufacturer's Remarks column for these variations.

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 Section II (4) of the Clean Air Act, 1956. These exempted appliances are designated thus † in this list, together with a note in the Manufacturer's Remarks column for easy recognition.

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Aga Much Wenlock Boiler	AGA	When burning wood 2.3 4.7 When burning smokeless fuels 1.8 4.5		65.1 67.7	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Aga Berrington Boiler Stove	AGA	When burning wood 3.2 4.8 When burning smokeless fuels 3.4 4.5		70.0 76.3	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Aga Minsterley Boiler Stove	AGA	When burning Wood 3.6 7.5 When burning smokeless fuels 5.0 7.3		68.5 73.2	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.

F. ROOMHEATERS/STOVES WITH BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Country 16B MkII Multi-fuel	A. J. Wells & Sons	When burning wood 7.3 8.6 When burning smokeless fuels 6.4 13.2		67.6 72.9	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5 h for wood and 4 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "continuous" when burning both smokeless fuels and wood..
Country 16B MkII Woodburner	A. J. Wells & Sons	When burning wood only 7.3 8.6		67.6	Freestanding wood burning stove with boiler. Thermostatic primary air control. Burns wood logs only. Refuel period is 1.5 h for wood to give the rated outputs shown. This appliance is classed as "continuous" when burning wood.
Charnwood LA 45iB	A. J. Wells & Sons	When burning smokeless fuels 3.1 10.1		67.9	Inset. Water temperature thermostat. When fitted with boiler reduction brick, the outputs are reduced to 8.8kW boiler, 2.1 kW direct room heating, (at a gross efficiency of 71.3%). Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 4.0h for smokeless fuels to give the rated output shown.
Charnwood LA 30iB	A. J. Wells & Sons	When burning smokeless fuels 2.7 6.1		71.9	Inset. Water temperature thermostat. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 4.0h for smokeless fuels to give the rated output shown.
Charnwood LA 50iB		2.2 12.0		71.5	
Charnwood Island IIIB	A. J. Wells & Sons	When burning wood only 9.0 9.0		67.3	Freestanding wood burning stove with boiler. Thermostatic primary air control. Burns wood logs only. Refuel period is 1.5 h for wood to give the rated outputs shown. This appliance is classed as "continuous" when burning wood.

continued on next page

F. ROOMHEATERS/STOVES WITH BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Charnwood Cove 2B	A. J. Wells & Sons	When burning wood 4.6 6.4 When burning smokeless fuels 7.1 9.3		68.1 74.8	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5 h for wood and 4 h for smokeless fuels to give the rated outputs shown. This appliance is classed as "continuous" when burning both smokeless fuels and wood..
Stratford SEB20 Boiler	Arada Ltd	When burning Smokeless fuels 8.0 12.0		69.8	Freestanding stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 2.0 h to give the rated output shown. This appliance is classed as intermittent.
Solution 500 Boiler	Clearview Stoves	When burning wood only 2.9 3.1		75.3	Freestanding stove. Manual primary air control. Burns wood logs only. Refuel period is 1.5 h to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Termorosella Plus Termonicoletta	La Nordica S.p.A.	When burning wood only 6.0 7.6		73.7	Freestanding wood burning stoves. Thermostatic primary air control. Burn wood logs only. Refuel periods are 0.9 h to give the rated outputs shown. These appliances are classed as "intermittent".

F. ROOMHEATERS/STOVES WITH BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Parkray G Series:					
99G	Parkray Ltd	C.2.3 0.2.2	8.7 9.4	70.7 74.1	Inset. Has chrome iron centre grate. (See Introductory Note 5.2). Water temperature thermostat. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 4.0h for smokeless fuels to give the rated output shown.
111G Mk. II	" " " "	2.0	11.7	68.0	Inset. Water temperature thermostat. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 4.0h for smokeless fuels to give the rated output shown.
Parkray Cumbria 99	" " " "	1.7	9.5	69.9	Inset. Has chrome iron centre grate. (See Introductory Note 5.2). Water temperature thermostat. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 4.0h for smokeless fuels to give the rated output shown.
Parkray Cumbria 111	" " " "	1.4	12.1	67.6	" " " " " "
TRH 45	Trianco Heating Products Ltd	1.9	11.4	68.4	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period is 4.0h for smokeless fuels to give the rated output shown.

F. ROOMHEATERS/STOVES WITH BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Tara Boiler	Waterford Stanley	When burning wood 2.3 4.7 When burning smokeless fuels 1.8 4.5		65.1 67.7	Freestanding multi-fuel stove. Manual primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Ashling Boiler Stove	Waterford Stanley	When burning wood 3.2 4.8 When burning smokeless fuels 3.4 4.5		70.0 76.3	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Erin Boiler Stove	Waterford Stanley	When burning wood 3.6 7.5 When burning smokeless fuels 5.0 7.3		68.5 73.2	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood.
Grainne Boiler Solid Fuel Stove	Waterford Stanley	When burning wood 3.2 4.8 When burning smokeless fuels 3.4 4.5		70.0 76.3	Freestanding multi-fuel stove. Thermostatic primary air control. Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods are 1.5h for wood and 4h for smokeless fuels to give the rated outputs shown. This appliance is classed as "intermittent" when burning wood and continuous when burning smokeless fuels.

F. ROOMHEATERS/STOVES WITH BOILERS - Wood Pellet Stoves

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Termo Jutta	Cola S.r.l	Nominal Rated Output 6.0 17.3 Part Load Output 2.2 5.1		77.6 80.9	<p>Tested to EN 14785 Freestanding wood pellet stoves with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm.</p> <p>The fuel burning rates are 5.88 kg/h and 1.75 kg/h to give the respective rated and part load outputs shown.</p> <p>These appliances are classed as "continuous" burning. Hopper holds approx. 40 kg of pellets.</p>
Termo Orion	Cola S.r.l	Nominal Rated Output 3.5 9.7 Part Load Output 1.8 3.3		76.4 78.8	<p>Tested to EN 14785 Freestanding wood pellet stoves with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm.</p> <p>The fuel burning rates are 3.37 kg/h and 1.27 kg/h to give the respective rated and part load outputs shown.</p> <p>These appliances are classed as "continuous" burning. Hopper holds approx. 26 kg of pellets.</p>
Termo Max Termo Ideal	Cola S.r.l	Nominal Rated Output 1.5 20.5 Part Load Output 0.5 6.5		75.1 78.5	<p>Tested to EN 14785 Freestanding wood pellet stoves with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm.</p> <p>The fuel burning rates are 5.65 kg/h and 1.66 kg/h to give the respective rated and part load outputs shown.</p> <p>These appliances are classed as "continuous" burning. Hopper holds approx. 45 kg (Ideal) and 50 kg (Max) of pellets.</p>

F. ROOMHEATERS/STOVES WITH BOILERS

- Wood Pellet Stoves (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
Ecologica Idro	Extraflame S.p.A	Nominal Rated Output 4.6 8.0 Part Load Output 1.3 2.5		83.5 86.5	Freestanding wood pellet stove with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.8 kg/h and 0.8 kg/h to give the respective rated and part load outputs shown. This appliance is classed as "continuous" burning. Hopper holds approx. 30 kg of pellets.
Comfort Idro	Extraflame S.p.A	Nominal Rated Output 4.6 8.0 Part Load Output 1.3 2.5		83.5 86.5	Inset wood pellet stove with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.8 kg/h and 0.8 kg/h to give the respective rated and part load outputs shown. This appliance is classed as "continuous" burning. Hopper holds approx. 22 kg of pellets.
Lucrezia Idro Lucrezia Idro Steel	Extraflame S.p.A	Nominal Rated Output 3.4 19.6 Part Load Output 0.5 4.0		88.3 85.8	Freestanding wood pellet stove with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 5.0 kg/h and 1.0 kg/h to give the respective rated and part load outputs shown. This appliance is classed as "continuous" burning. Hopper holds approx. 43 kg of pellets.
Nova Hydro Polar Hydro	MCZ	Nominal Rated Output 7.5 16.2 Part Load Output 2.5 3.7		85.2 86.1	Tested to BS EN 14785 Freestanding wood pellet stoves with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 4.95 kg/h and 1.28 kg/h to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 36 kg of pellets.

F. ROOMHEATERS/STOVES WITH BOILERS

- Wood Pellet Stoves (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load Output (see introductory Notes) Damper: C=closed; O=open			Manufacturer's Remarks (See Notes page 21)
		Direct Room Heating	Water	% Gross Eff.	
FireWIN Klassik, Premium and Exklusiv 090 120	Windhager	Nominal Rated Output 1.3 7.8 Part Load Output 0.7 4.0	87.5 88.6	87.5 88.6	Tested to EN 14785 Freestanding wood pellet stoves with boiler. Automatic control of combustion air. Designed to burn high quality wood pellets of approx 6 to 8 mm diameter and maximum length of 30 mm. The fuel burning rates are 2.6 kg/h (120) and 2.0 kg/h (090) at full load and 1.0 kg/h at part load to give the respective rated and part load outputs shown. These appliances are classed as "continuous" burning. Hopper holds approx. 37 kg of pellets.

G. COOKERS – FREESTANDING

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved closed appliance fuels, in Table B (Manufactured Smokeless Fuels), Table C (Natural Smokeless Fuels) and Table D (Bituminous Coal) (see Introductory Note 4.5) of Part 2 (Fuels) of this 'Guide'. Where wood logs are specified they are to standard given in BS EN 12815.

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 Section II (4) of the Clean Air Act, 1956. These exempted appliances are designated thus † in this list, together with a note in the Manufacture's Remarks column for easy recognition.

SPECIAL NOTE: Where these appliances were tested as continuous burning appliances against BSEN 12815 which requires a minimum refuelling period at low output of 10h for wood and 12h for smokeless fuels this is noted in the Remarks column. Where they have not met this requirement they are classed as "intermittent".

G1. COOKERS, WITHOUT BOILERS OR WITH DOMESTIC BOILERS WITH OUTPUT NOT EXCEEDING 3.5kW

Appliance	Manufacturer	Rated Output (kW) and Gross Efficiency at Nominal Output			Remarks
		Direct Room Heating	Water	% Gross Efficiency	
Rayburn Heatranger 212 SFW	AGA	when burning wood logs 3.8	1.9	72.8	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Alternative grates are provided for wood and smokeless fuels. Refuel periods for wood 1h and smokeless fuels 2h to give rated output This appliance is classed as "intermittent" when burning wood
		when burning smokeless fuels 4.2	1.9	74.2	
Rayburn Cookmaster 200 SFW	AGA	when burning wood logs 5.4	No boiler	65.0	Burns Manufactured and Natural Smokeless fuels only as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods for wood 1h and smokeless fuels 2h to give rated output This appliance is classed as "intermittent" when burning wood
		when burning smokeless fuels 4.4	No boiler	77.1	
Rayburn Cookmaster 300 W	AGA	when burning wood logs 5.2	No boiler	68.2	Burns wood logs only. Refuel period to give the rated output shown is 1.0 h This appliance is classed as "continuous"

G1. COOKERS, WITHOUT BOILERS OR WITH DOMESTIC BOILERS WITH OUTPUT NOT EXCEEDING 3.5kW (continued)

Appliances	Manufacturers	Rated Output (kW) and Gross Efficiency at Nominal Output			Remarks
		Direct Room Heating	Water	% Gross Efficiency (Mean)	
Esse WN	Esse Engineering Ltd.	when burning wood logs 5.0	No boiler	67.8	Burns wood logs only. Refuel period to give the rated output shown is 1.6 h This appliance is classed as "continuous"
Esse Ironheart EW	Esse Engineering Ltd.	when burning wood logs 9.7	No boiler	62.7	Burns wood logs only. Refuel period to give the rated output shown is 1.0 h This appliance is classed as "intermittent"
Esse Ironheart EWB	Esse Engineering Ltd.	when burning wood logs 10.5	2.6	67.5	Burns wood logs only. Refuel period to give the rated output shown is 1.0 h This appliance is classed as "intermittent"
America	La Nordica S.p.A.	when burning wood logs 11.6	no boiler	68.8	Burns wood logs only. Refuel period to give the rated output shown is 1.0 h This appliance is classed as "intermittent"
Suprema	La Nordica S.p.A.	when burning wood logs 8.0	no boiler	70.8	Burns wood logs only. Refuel period to give the rated output shown is 1.3 h This appliance is classed as "intermittent"

G2. COOKERS WITH CENTRAL HEATING BOILERS ABOVE 3.5Kw OUTPUT

These cookers provide a cooking service and a boiler for combined heating and hot water. During summer use the boiler may be modified to reduce boiler output.

Appliances	Manufacturers	Rated Output (kW) and Gross Efficiency at Nominal Output W=Winter Setting S=Summer Setting			Remarks
		Direct Room Heating	Water	% Gross Efficiency (Mean)	
Rayburn Heatranger 355 SFW	AGA	when burning wood logs W = 5.0 W = 9.1 S = 8.1 S = 7.8		65.3	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods to give rated output are:- 1) for smokeless fuels, winter setting=3h, summer setting=3h 2) for wood logs, winter setting=2h, summer setting =1h This appliance is classed as "continuous" burning.
		when burning smokeless fuels W = 5.7 W = 10.8 S = 3.2 S = 7.9		70.2	
Rayburn Heatranger 216 SFW	AGA	when burning wood logs W = 4.0 W = 4.3 S = 3.5 S = 4.2		68.6	Manufacturer's Remarks as above
		when burning smokeless fuels W = 3.6 W = 5.4 S = 4.1 S = 5.2		71.6	
Rayburn Heatranger 345 W	AGA	when burning wood logs W = 5.0 W = 9.1 S = 4.1 S = 6.3		65.3	Burns wood logs only. Refuel periods to give rated output are:- winter setting=1.5h, summer setting =1.5h This appliance is classed as "continuous" burning
Esse W35	Esse Engineering Ltd.	when burning wood logs W = 4.2 W = 9.7 S = 1.6 S = 3.7		65.4 68.7	Burns wood logs only. Refuel periods to give rated output are:- winter setting=1.0h, summer setting =1.0h This appliance is classed as "continuous" burning
Termosuprema compact	La Nordica S.p.A.	when burning wood logs 6.5 11.5		68.7	Burns wood logs only. Refuel period to give the rated output shown is 1.0 h This appliance is classed as "intermittent"
Termorosa	La Nordica S.p.A.	when burning wood logs 8.5 7.0		71.9	Burns wood logs only. Refuel period to give the rated output shown is 1.0 h This appliance is classed as "intermittent"

G2. COOKERS WITH CENTRAL HEATING BOILERS ABOVE 3.5Kw OUTPUT (continued)

These cookers provide a cooking service and a boiler for combined heating and hot water. During summer use the boiler may be modified to reduce boiler output.

Appliances	Manufacturers	Rated Output (kW) and Gross Efficiency at Nominal Output W=Winter Setting S=Summer Setting			Remarks
		Direct Room Heating	Water	% Gross Efficiency (Mean)	
Stanley Donard	Waterford Stanley	when burning wood logs W = 5.3 W = 10.0 S = 4.7 S = 6.2 when burning smokeless fuels W = 8.2 W = 13.4 S = 4.3 S = 7.9		60.8 69.5	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide and wood logs only. Refuel periods to give rated output are:- 1) for smokeless fuels, winter setting=2h, summer setting=2h 2) for wood logs, winter setting=1h, summer setting =1h This appliance is classed as "intermittent" when burning wood
Stanley Comeragh Solid Fuel Cooker	Waterford Stanley	when burning smokeless fuels 5.7 7.5		70.6	Burns Manufactured and Natural Smokeless fuels as approved for closed appliances in Part 2 of this Guide. Refuel period to give rated output is 2.0 h This appliance is classed as "continuous" operating when burning smokeless fuels.
Donard Wood Burning Cooker	Waterford Stanley	when burning wood logs 5.6 8.5		62.3	Burns wood logs only. Refuel periods to give rated output are 1.4 h. This appliance is classed as "continuous" burning.

J. INDEPENDENT BOILERS

SPECIAL NOTE

The rated output of independent boilers indicates the heat released to water and may or may not take account of the additional useful heat released as direct space heating to the room in which the appliance is installed depending on the standard to which the appliance has been tested.

In addition to heating water, the boiler itself may provide space heating to the room by up to 6% of the published water heating rating. If the boiler is connected to the chimney by a one metre long fluepipe, the useful direct space heating increases by about 1 kW for small domestic hot water boilers and up to 2kW for larger boilers.

Boilers in this Section may be tested to a number of accepted standards. The choice depends on the fuels they burn, its method of feeding and the siting and use to which the appliance is to be put. For each appliance the Manufacturer's Remarks column gives the specific standard used for testing. Where the standard requires a direct space heating output to the living area to be measured this will also be quoted and will be included in the gross efficiency figure.

The actual amount of direct space heating provided at any time will vary with the rate at which a boiler is run. In cold weather a generally faster burning rate results in more direct space heating.

For the selection of suitable chimneys see the Introduction to Part 3, Factory Made Chimneys and Chimney Lining Systems, particularly paragraph 2.

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are listed, as approved closed appliance fuels, in Table B (Manufactured Smokeless Fuels) and Table C (Natural Smokeless Fuels) of Part 2 (Fuels) of this 'Guide'. Refer to the Manufacturer's Remarks column for variations including woodburning and appliances that are designed to burn only specialized wood pellets. See also the Introductory Notes section 4, paragraph 2.

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 Section II (4) of the Clean Air Act, 1956. These exempted appliances are designated thus † in this list, together with a note in the Manufacturer's Remarks column for easy recognition.

J1, J2 and J3 BATCH FED INDEPENDENT BOILERS

This section is limited to boilers of rated output up to 50kW.

Boilers listed in this section are designed as hot water generators for providing both central heating and domestic hot water services through the heating control of a fully pumped system. Domestic hot water must always be heated via an indirect cylinder. Rated outputs are based on the heat given to water and the efficiency values are direct water heating efficiencies (see also special note at the beginning of section J). All boilers will be fitted with thermostats for control of water temperatures and overheating of the system will be protected by safety temperature limiters.

Larger batch fed boilers are often designed for installation in their own boiler room. With these larger boilers the installation of the hot water system will usually require a heat storage boiler (accumulator) and energy management control. Manufacturers will provide all the necessary technical information regarding this in their installation and operating instructions.

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J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Angus Orligno 200 18kW	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	18.0	82.4	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 9.7h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Angus Orligno 200 25kW	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	25.0	82.5	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 10.4h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>

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J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Angus Orligno 200 40kW	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	37.7	82.4	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 10.9h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Angus Orligno 200 60kW	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	56.2	80.9	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 11.2h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>

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J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Angus Orligno 200 80kW	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	78.0	83.0	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 13.3h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Orlan 18 Super (Angus Super 18)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	18.0	82.4	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 9.7h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>

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J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Orlan 25 Super (Angus Super 25)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	25.0	82.5	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 10.4h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Orlan 40 Super (Angus Super 40)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	37.7	82.4	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 10.9h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>

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J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Orlan 60 Super (Angus Super 60)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	56.2	80.9	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 11.2h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Orlan 80 Super (Angus Super 80)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	78.0	83.0	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 13.3h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>

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J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Orlan 23 W (Angus Orlan 23)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	22.0	74.8	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 8.9h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Orlan 35 W (Angus Orlan 35)	Eko-Vimar Orlanski Distr. by Eco Angus Ltd.	32.2	76.8	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Combustion is controlled via the boiler water temperature and a flue gas sensor ensures automatic shut down of combustion air fan after combustion has finished.</p> <p>Refuel period is approximately 10.1h to give the maximum rated output shown with a full firebox.</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>

J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
Navora 20 kW Navora 25 kW Navora 30 kW	HDG Euroheat Distributors	20 25 30	82.8 82.7 82.8	<p>Tested to BS EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading.</p> <p>Automatic combustion control system via Lambda oxygen sensor in flue, induced draught fan and motorised air flaps.</p> <p>Refuel period is 6h to give the maximum rated output shown (30 kW).</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Euro 30 kW Euro 40 kW Euro 50 kW	HDG Euroheat Distributors	30 40 50	82.4 82.2 81.8	<p>Tested to BS EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Top loading.</p> <p>Automatic combustion control system via Lambda oxygen sensor in flue induced draught fan and motorised air flaps.</p> <p>Refuel period is 3.7 h to give the maximum rated output shown (50 kW).</p> <p>A correctly sized accumulator tank must be fitted to the system.</p>
Turbotec 50 kW	HDG Euroheat Distributors	50	81.8	<p>Tested to BS EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refueling. Front loading.</p> <p>Automatic combustion control system via Lambda oxygen sensor in flue, induced draught fan and motorized air flaps.</p> <p>Refuel period is 7h to give the rated output shown (50 kW) A correctly sized accumulator tank must be fitted to the system.</p>

J1, J2 and J3 BATCH FED INDEPENDENT BOILERS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	Gross Eff. %	
LogWIN Premium 180 250 300 360 500	Windhager	17.8 25.0 31.1 35.6 49.7	83.3 83.5 83.7 82.7 82.0	Tested to BS EN 303-5 Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading. Automatic combustion control system via Lambda oxygen sensor in flue, induced draught fan and motorised air flaps. Refuel periods range from 10 h for the 180 to 4.8 h for the 500 to give the maximum rated outputs shown. A correctly sized accumulator tank must be fitted to the system.
SilvaWIN Klassik 170T 240T	Windhager	17.0 24.0	82.1 82.0	Tested to BS EN 303-5 Freestanding independent heating boiler designed for installation in boiler room. Burns wood logs only. Manual refuelling. Front loading. Automatic combustion control system via a temperature sensor in flue and speed controlled induced draught fan. Refuel periods are 4.0 h for the 170T and 3.1 h for the 240T to give the maximum rated outputs shown. A correctly sized accumulator tank must be fitted to the system.

J4. GRAVITY FEED BOILERS WITH THERMOSTAT

This section is limited to boilers of up to 50kW.

Boilers in this section are primarily designed for water based central heating at the rated outputs given; where hot water service is also required they must be connected to an indirect system.

The rated outputs are based on the performance with a standard test fuel with a minimum refuelling interval of 10 hours.

APPROVED FUELS

Fuels regarded as suitable for the appliances in this section are Anthracite Grains, Peas or Beans, listed as approved gravity feed fuels in Table C (Natural Smokeless Fuels) of Part 2 (Fuels) of this 'Guide'.

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
TRG 45 MkII	Trianco Heating Products Ltd	13.2	72.5	Tested to BS 4433 A heat leak radiator must be fitted to the system
TRG 60 MkII	" " " "	18.0	72.6	" " " "
TRG 80	" " " "	23.5	75.6	" " " "

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS

This section is limited to boilers of rated output up to 50 kW.

The boilers listed in this section are designed to burn only specialized manufactured pelletised wood fuels (wood pellets) or carefully dried and sized wood chips. Automatic fuel feeding is usually effected by means of a motorized auger from a manually filled storage hopper. The method of feeding the fire may be from underneath (sometimes called an underfeed stoker) or fuel may "drop in" from above the firebed or be fed in from the side. The boilers will have electronic control of the output via the fuel feeding rate which will be regulated by the demand for heat placed upon the system. They are designed for providing both central heating and hot water services through the heating controls in a fully pumped system. Domestic hot water must always be heated via an indirect cylinder. Rated outputs are based on the heat given to water and the efficiency values are direct water heating efficiency except when a Direct Room Heating output is quoted as in the case when testing to BS EN 14785 (see also special note at the beginning of Section J). The Standard for testing used is quoted for each appliance. All boilers will be fitted with thermostats for control of water temperatures and overheating of the system will be protected by safety temperature limiters.

Larger boilers are often designed for installation in their own boiler room and sometimes they will require an additional separate building to house a large hopper and fuel-feed system. With these larger boilers the installation of the hot water system will usually require a heat storage buffer (accumulator and energy management controls. Manufacturers will provide all the necessary technical information regarding this in their installation and operating instructions.

As a result of the high efficiencies at which these boilers can operate the flue temperatures may be much lower than is conventional for solid fuel appliances. The manufacturer is required to provide the necessary technical information regarding the designation of the flue liner or chimney flue that should be installed with the boiler. These will where necessary require special systems to tolerate condensate attack and will be soot fire resistant.

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J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
LP 20	Extraflame S.p.A	20.0	80.6	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler. Burns only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed.</p> <p>Automatic ignition and control of combustion air.</p> <p>Capable of continuous operation. Modulating output down to 5.5 kW.</p>
TP30	Extraflame S.p.A	30.1	83.0	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler. Burns only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed.</p> <p>Automatic ignition and control of combustion air.</p> <p>Capable of continuous operation. Modulating output down to 9.0 kW.</p>
TC 30	Extraflame S.p.A	25.0	84.5	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boiler. Burns only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed.</p> <p>Automatic ignition and control of combustion air.</p> <p>Capable of continuous operation. Modulating output down to 4.9 kW.</p>

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Fröling Turbomatic TMC 28 (wood Chip) TMC 28 (Compressed Wood Pellets)	Fröling Distr. by Econergy	Nominal Rated Output 28.0 Part Load Output 8.4	83.1 82.6	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling Turbomatic TMC 35 (wood Chip) TMC 35 (Compressed Wood Pellets)	Fröling Distr. by Econergy	Nominal Rated Output 35.0 Part Load Output 10.5	82.9 82.5	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling Turbomatic TMC 48 (wood Chip) TMC 48 (Compressed Wood Pellets)	Fröling Distr. by Econergy	Nominal Rated Output 48.0 Part Load Output 14.4	82.4 82.4	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Fröling Turbomatic TMC 55 (wood Chip) TMC 55 (Compressed Wood Pellets)	Fröling Distr. by Econergy	Nominal Rated Output 55.0 Part Load Output 16.5	82.4 82.4	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling Turbomatic TMC 70 (wood Chip) TMC 70 (Compressed Wood Pellets)	Fröling Distr. by Econergy	Nominal Rated Output 70.0 Part Load Output 21.0	82.7 83.3	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling Turbomatic TMC 85 (wood Chip) TMC 85 (Compressed Wood Pellets)	Fröling Distr. by Econergy	Nominal Rated Output 85.0 Part Load Output 25.5	83.0 84.0	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Fröling Turbomatic TMC 100 (wood Chip)	Fröling Distr. by Eenergy	Nominal Rated Output 100.0	83.4	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm or wood chip. Automatic feed.
		Part Load Output 30.0	84.9	
TMC 100 (Compressed Wood Pellets)		Nominal Rated Output 100.0	86.3	Automatic ignition and control of combustion air. Capable of continuous operation.
		Part Load Output 30.0	85.1	
Fröling P4 Pellet 8	Fröling Distr. by Eenergy	Nominal Rated Output 10.5	84.8	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
		Part Load Output 3.1	85.2	
Fröling P4 Pellet 15	Fröling Distr. by Eenergy	Nominal Rated Output 14.9	83.3	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
		Part Load Output 3.1	85.2	

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Fröling P4 Pellet 20	Fröling Distr. by Econergy	Nominal Rated Output 20.0 Part Load Output 6.0	85.0 86.9	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling P4 Pellet 25	Fröling Distr. by Econergy	Nominal Rated Output 25.0 Part Load Output 7.5	85.9 87.8	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling P4 Pellet 32	Fröling Distr. by Econergy	Nominal Rated Output 32.0 Part Load Output 8.9	86.9 88.6	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output and Part Load (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Fröling P4 Pellet 38	Fröling Distr. by Econergy	Nominal Rated Output 38.0 Part Load Output 8.9	85.7 88.6	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling P4 Pellet 48	Fröling Distr. by Econergy	Nominal Rated Output 48.0 Part Load Output 14.4	85.5 86.5	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.
Fröling P4 Pellet 60	Fröling Distr. by Econergy	Nominal Rated Output 58.5 Part Load Output 17.5	85.3 85.5	Tested to EN 303-5 Freestanding independent heating boiler. Burns compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation.

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Pelletmaster 15	HDG Euroheat Distributors	15	84.1	<p>Tested to BS EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm.. Automatic feed.</p> <p>Automatic combustion control system via Lambda oxygen sensor in flue. Induced draught variable speed fan and motorized secondary air flaps.</p> <p>Capable of continuous operation. Modulating output down to 4.5 kW.</p> <p>A correctly sized accumulator tank is recommended to be fitted to the system for optimal operation.</p>
Compact 50 (wood chip)	HDG Euroheat Distributors	50	83.4	<p>Tested to BS EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns wood chips only. Automatic feed.</p> <p>Automatic combustion control system via Lambda oxygen sensor in flue, induced draught variable speed fan and motorised air flaps.</p> <p>Capable of continuous operation. Modulating output down to 12 kW.</p> <p>A correctly sized accumulator tank is recommended to be fitted to the system for optimal operation.</p>

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
Compact 50 (compressed wood pellets)	HDG Euroheat Distributors	50	85	<p>Tested to BS EN 303-5</p> <p>Freestanding independent heating boiler designed for installation in boiler room. Burns only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed.</p> <p>Automatic combustion control system via Lambda oxygen sensor in flue, induced draught variable speed fan and motorised air flaps.</p> <p>Capable of continuous operation. Modulating output down to 15 kW.</p> <p>A correctly sized accumulator tank is recommended to be fitted to the system for optimal operation.</p>
IQ120 IQ150 IQ200 IQ270	Solarvent distributed by Almura Heat Systems Ltd.	12.0 14.9 20.0 25.0	85.9 85.8 84.7 83.6	<p>Tested to EN 303-5</p> <p>Freestanding independent heating boilers. Burn only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed.</p> <p>Automatic ignition and control of combustion air via Lambda sensor.</p> <p>Capable of continuous operation. Modulating output down to 4.0 kW. Does not necessarily require an accumulator due to automatic on/off operation.</p>

J5. AUTOMATIC FEED INDEPENDENT BOILERS FIRED BY WOOD PELLETS OR WOOD CHIPS (continued)

Appliances	Manufacturers	Rated Output kW and Gross Efficiency at Nominal Output (see introductory Notes 6.2, 6.3 and 6.4)		Manufacturers Remarks
		Rated Output to water kW	% Gross Eff.	
BioWIN Klassik, Premium and Exklusiv 100 150 210 260	Windhager	Nominal Rated Output 10.0	86.3	Tested to EN 303-5 Freestanding independent heating boiler. Burn only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation. Modulating output down to 3.0 kW (100), 4.4 kW (150), 6.3 kW (210) and 7.5 kW (260).
		Part Load Output 3.0	84.2	
		Nominal Rated Output 15.0	85.8	
		Part Load Output 4.4	85.7	
		Nominal Rated Output 21.0	85.9	
		Part Load Output 6.3	85.8	
		Nominal Rated Output 26.0	86.0	
		Part Load Output 7.5	86.0	
Woodpecker 15 Woodpecker 25 Woodpecker 45	Woodpecker Energy UK Ltd	Nominal Rated Output 15.0	83.2	Tested to EN 303-5 Freestanding independent heating boiler. Burn only compressed wood pellets of approximately 6 to 8mm diameter and maximum length 30mm. Automatic feed. Automatic ignition and control of combustion air. Capable of continuous operation. Modulating output down to 5.0 kW (15), 8.0 kW (25), and 14.0 kW (45).
		Part Load Output 5.0	79.3	
		Nominal Rated Output 25.0	84.9	
		Part Load Output 8.0	81.5	
		Nominal Rated Output 45.0	84.8	
		Part Load Output 14.0	84.1	